Nevada
Environmental
Restoration
Project

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Closure Report

Nevada Test Site Underground
Storage Tank Number 25-3123-1:
Nevada Division of Emergency
Management Number H940825D
Corrective Action Unit 450

January 1997

Environmental Restoration
Division

U.S. Department of Energy
Nevada Operations Office

CLOSURE REPORT

**NEVADA TEST SITE
UNDERGROUND STORAGE TANK (UST) NUMBER 25-3123-1:
NEVADA DIVISION OF EMERGENCY
MANAGEMENT CASE NUMBER H940825D
CORRECTIVE ACTION UNIT 450**

January 1997

*Prepared for
U.S. Department of Energy
Environmental Restoration Project
Under Contract No. DE-AC08-96NV11718*

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*Prepared by
Bechtel Nevada
Remediation Projects*

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ABBREVIATIONS AND ACRONYMS

ASL	Analytical Services Laboratory
bgs	below ground surface
CAU	Corrective Action Unit
CFR	Code of Federal Regulations
CGA	Combustible Gas Analyzer
°C	degrees Celsius
DOE/NV	U.S. Department of Energy/Nevada Operations Office
EPA	U.S. Environmental Protection Agency
ERD	Environmental Restoration Division
°F	degrees Fahrenheit
ft	feet
m ³	cubic meters
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
NAC	Nevada Administrative Code
NDEP	Nevada Division of Environmental Protection
NTS	Nevada Test Site
OVM	Organic Vapor Monitor
PCB	Polychlorinated Biphenyl
ppm	part per million
REECo	Reynolds Electrical & Engineering Co., Inc.
Semi-VOC	Semi-volatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbon
UST	Underground Storage Tank
VOC	Volatile Organic Compound
yd ³	cubic yards

1.0 INTRODUCTION

1.1 Closure Requirements

Underground Storage Tank (UST) 25-3123-1 was located at Area 25 within the Nevada Test Site (NTS) (Figure 1). The UST was identified as abandoned to be closed under the U.S. Department of Energy/Nevada Operations Office (DOE/NV) Environmental Restoration Division (ERD) Program during Fiscal Year 1994. The U.S. Environmental Protection Agency (EPA) requires that before permanent closure is completed, an assessment of the site must take place (U.S. EPA 1994). Nevada Division of Environmental Protection (NDEP) requires assessment and corrective actions for soil with a petroleum hydrocarbon concentration exceeding 100 milligrams per kilogram (mg/kg) (NAC 1992).

This document has been prepared as a final closure report documenting the assessment and corrective actions taken for the hydrocarbon release associated with UST 25-3123-1. The site is identified in Appendix II of the Federal Facility Agreement and Consent Order within Corrective Action Unit (CAU) 450.

1.2 Scope of Work

The scope of work for closure of this tank include evaluating site conditions, closing the tank in accordance with all applicable regulations, and preparation of this report. Closure of the UST site 25-3123-1 was accomplished by completing the following activities:

- Collecting a representative sample of the tank contents for laboratory analyses;
- Removing and disposing of tank contents according to applicable regulations;
- Excavating and removing the tank and associated pipes;
- Collecting soil samples at the bottom ends of the tank for laboratory analyses to evaluate site conditions;
- Segmenting and cleaning the tank interior;
- Collecting and disposing of the rinseate generated from equipment and tank cleaning activities according to applicable regulations;
- Crushing and disposing the cleaned tank in a Class II Sanitary Landfill at the Nevada Test Site (NTS);
- Evaluating the laboratory analytical results; and
- Preparing the closure documentation for DOE/NV to submit to the NDEP.

FIGURE 1
SITE VICINITY MAP
 SOURCE: USGS JACKASS FLATS, NEV. 7.5' QUADRANGLE, 1983

1.3 Site Description

The site is located east of the Area 25 Technical Services Building (Building Number 3123) at the NTS (Figure 2). At this site the 9,463 liter (2,500 gallon) steel tank, which provided diesel fuel for a boiler within Building 3123, was abandoned in place after daily facility operations at the building were discontinued. Approximate Nevada Coordinates for the site are N 748,000 & E 615,000 (from NTS Road and Facility Map, Holmes and Narver, 1986 update). Groundwater in the vicinity is approximately 314 meters (1,040 feet [ft]) below ground surface [bgs]]. A water well (abandoned Well J-11) is located approximately 1.6 kilometers (1 mile) southwest of the site. There are no other wells or pertinent surface water bodies within a 1.6 kilometer (1 mile) radius of the site.

Engineering records indicate that the tank was installed in May 1959 (Drawing 3108-SW1). However, records were not available to determine when the tank was last used. Since closure records for the tank were not located, the tank was identified as abandoned by Reynolds Electrical & Engineering Co., Inc. (REECo). The tank was identified for closure using EPA Form 7530-1. The form was submitted by the DOE/NV to the NDEP on June 17, 1994 (Appendix A).

2.0 TANK CLOSURE ACTIVITIES

2.1 Product Management

2.1.1 Tank Sampling

The tank was inspected and sampled on July 6, 1994. The tank contained less than 2.5 centimeters (1 inch) of product. Since no physical controls for management of the tank contents were present, process knowledge could not be used to characterize the tank contents. Samples were obtained using vacuum pressure extraction with a hand pump drawing product from new copper tubing placed inside the tank. The sample was analyzed for:

- Volatile Organic Compounds (VOCs), U.S. EPA Method 8240;
- Semi-volatile Organic Compounds (Semi-VOCs), U.S. EPA Method 8270;
- Total Metals, U.S. EPA Method 6010;
- Polychlorinated Biphenyls (PCBs), U.S. Method 8080;
- Total Petroleum Hydrocarbons (TPH), U.S. EPA Method 8015 Modified;
- pH, U.S. EPA Method 9040/9045;
- Flashpoint, U.S. EPA Method 1010; and
- Gamma Activity, Reynolds Electrical & Engineering Company (REECo) Counting and Instrumentation Procedure.

The samples were placed into clean laboratory-supplied jars with Teflon lids, sealed and labeled prior to cooling to approximately 4 degrees Celsius ($^{\circ}\text{C}$) (39.2 degrees Fahrenheit [$^{\circ}\text{F}$]) in an ice chest. The samples were transported to the REECo Analytical Services Laboratory (ASL) in Mercury, Nevada, following standard chain-of-custody procedures.

2.1.2 Product Analytical Results

Laboratory analytical results indicated that the product within the tank was primarily diesel fuel (860,000 milligrams per liter [mg/l] TPH as diesel). TPH as gas (<5.0 mg/l) or oil (<10.0 mg/l) was not detected. VOCs and semi-VOCs, typical of petroleum hydrocarbons, were detected below regulatory action levels. Total metals and PCBs (<2.5 mg/l) were not detected. Due to the high concentration of TPH, pH values could not be obtained. The flash point of the sample was

87 °C (188 °F), which is nonhazardous under 40CFR 261.21. A summary of analytical results are provided in Table 1.

Since the tank contained less than 2.5 centimeters (one inch) of product, the tank contents were not removed prior to excavation activities. Analytical results from the product sample are provided in Appendix B (ACS Packet No. 94-07-012).

TABLE 1 - SUMMARY OF ANALYTICAL RESULTS FOR TANK CONTENTS

SAMPLE ID	TPH GAS^A (mg/l)	TPH DIESEL^A (mg/l)	TPH OIL^A (mg/l)	VOCs^B (mg/l)	SEMI-VOCs^C (mg/l)	TOTAL METALS^D (mg/l)	FLASH PT.^E °C/[°F]	PCBs (mg/l)
25-3123-1	<5.0	860,000	<10.0	Toluene 0.034 Ethyl- benzene 0.08 Xylenes 0.38	Naphthalene 710 Naphthalene (RE) 650 2-Methyl- naphthalene 1,200 2-Methyl- naphthalene (RE) 530 Anthracene 400 Anthracene (RE) 430	ND	87/ [188]	<2.5

Notes:

^A United States Environmental Protection Agency (US EPA) Method SW-846 8015 Modified

^B US EPA Method 8240

^C US EPA Method 8270

^D US EPA Method 6010

^E Pensky-Martin Closed Cup Tester Method

^F US EPA Method 8080

(RE) Re-extraction

ND Not detected at laboratory detection limits.

°C degrees Celsius

°F degrees Fahrenheit

mg/l milligrams per liter

Action Levels:

Total Petroleum Hydrocarbons: Nevada Administrative Code 459.9973 TPH Action Level of 100 parts per million.

Flash Point: <140°F per 40 CFR 261.21.

2.2 Tank Excavation and Removal

Prior to the start of tank excavation activities, the site was checked for subsurface utilities by reviewing engineering drawings and the use of Goldak metal detecting equipment. Hand excavation was used to confirm the location of suspected utilities prior to excavating with the backhoe. Hand excavation was completed using non-sparking shovels, picks, etc.

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Before excavation began, the interior atmosphere of the tank was made inert using nitrogen gas. A Combustible Gas Analyzer (CGA) was utilized to ensure that a lower explosive limit of less than 20 percent or an oxygen content of less than 7 percent was achieved. The backhoe and tank were electrically grounded during all excavation activities.

Soil was excavated from above and around the tank between July 14 and 20, 1994. A backhoe was used to excavate sufficient soil above and around the tank to allow for removal using a crane. The backhoe and tank were electrically grounded during all excavation activities.

Approximately 31 m³ (40 yd³) of soil was excavated and stockpiled adjacent to the UST excavation. Soil was placed on and covered with plastic at the end of each day and secured with sand bags.

The tank was removed and secured on a flatbed trailer on July 20, 1994. The tank was marked with spray paint to indicate the NTS tank number and issued a radiologic "Green Tag" prior to transporting to the U10c Landfill Segmentation Pad.

2.2.1 Soil Sampling Activities

Prior to soil sample collection, the backhoe bucket was steam cleaned over a 208 liter (55 gallon) drum to containerize the rinseate. The backhoe bucket was also cleaned between each sample location to reduce the potential of cross-contamination. Soil samples were collected on July 20, 1994 from below the north and south end of the UST at approximately 0.3 meters (1.0 ft) below the tank bottom or 3.0 meters (10 ft.) bgs (Figure 2). The samples were collected from a cleaned backhoe bucket with clean stainless steel trowels provided by the laboratory. One composite sample, from two random locations of the excavated soil pile, was also collected for disposal characterization.

The samples were placed into clean laboratory-supplied jars with Teflon lids, sealed and labeled prior to cooling to approximately 4 °C (39.2 °F) in an ice chest. The samples were subsequently transported to REEC Co ASL following standard chain-of-custody procedures. The samples were analyzed for:

- TPH as diesel, U.S. EPA Method 8015 Modified;
- Semi-VOCs, U.S. EPA Method 8270;
- Toxicity Characteristic Leaching Procedure (TCLP) Metals, U.S. EPA Method 1311.

2.2.2 Analytical Results

TPH as diesel was detected in sample 25-3123-1/S, collected below the south tank bottom at a concentration of 120 mg/kg. TPH as diesel was not detected (<10.0 mg/kg) in the north sample

(25-3123-1/N) or in the composite soil stockpile sample (25-3123-1/PILE). Semi-VOCs were not detected in the north and south samples. TCLP barium was detected below the regulatory action level of 100 mg/l in the north and south soil samples at concentrations of 0.43 mg/l and 0.41 mg/l, respectively. A summary of the soil analytical results is provided in Table 2. Laboratory analytical data from the tank removal assessment are provided in Appendix B (ACS Packet No. 94-07-053).

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS FOR TANK REMOVAL ACTIVITIES

SAMPLE NUMBER	TOTAL PETROLEUM HYDROCARBONS^A DIESEL (mg/kg)	SEMI-VOLATILE ORGANIC COMPOUNDS^B (mg/kg)	TCLP METALS^C (mg/l)
25-3123-1/N (north bottom)	<10.0	ND	Ba 0.43
25-3123-1/S (south bottom)	120	ND	Ba 0.41
25-3123-1PILE (soil pile sample)	<10.0	NA	NA

Notes:

^A United States Environmental Protection Agency (US EPA) Method SW-846 8015 Modified

^B US EPA Method 8270

^C US EPA Method 1311

NA-Not analyzed

ND - Not detected

mg/kg - milligrams per kilogram

Action Levels:

Total Petroleum Hydrocarbons: Nevada Administrative Code 459.9973 TPH Action Level of 100 parts per million.

Barium: Toxicity Characteristic Leaching Procedure Action Level of 100 mg/l per 40 CFR 261.24.

2.2.3 Observations

Excavated soil consisted of gravelly sand and silt with cobbles to 0.3 meters (1.0 ft.) in diameter. The soil was medium brown in color and slightly damp. No hydrocarbon odors were noted, however, minor soil staining around the fill port (south end of tank) was observed while exposing the top of the tank. Upon tank removal, some rusting was observed, however, the overall tank integrity appeared good and no holes were evident.

Headspace readings were collected using an Thermo Environmental Instruments, Co., organic vapor monitor (OVM) Model 580B calibrated to 100 parts per million (ppm) Isobutylene at the beginning of each field day. The readings are collected by placing approximately 100 grams of

soil into an airtight bag. After approximately 30 minutes, the OVM tip was inserted into the bag to measure the volatile headspace. The highest reading was then documented in the field notebook. Headspace readings of soil collected from the north and south tank bottom at time of tank removal were each 2.8 ppm (25-3123/N and 25-3123/S). Field notes are provided in Appendix C.

2.3 Spill Notification Report

The soil sample from beneath the south (fill port) end of the tank exceeded the NAC 459.9921 through 459.999 Action Level of 100 mg/kg TPH (NAC, 1992). Notification of the release was reported to the NDEP by DOE/NV on August 25, 1994 (within 24 hours of identification of the release), and Nevada Division of Environmental Management Case Number H940825D was assigned. The Spill Notification Report is provided in Appendix D.

3.0 REMEDIAL ACTIVITIES

3.1 Excavation and Sampling Activities

The hydrocarbon impacted soils from the southern portion of the tank excavation were removed on October 18, 1994. Approximately 3.8 m³ (5 yd³) of soil were excavated using backhoe equipment and stockpiled with the previously excavated soils. Soils were covered with plastic and secured with sandbags at the end of each day.

One sample (25-3123-1/11.5/S) from the south portion of the UST excavation was collected at a depth of 3.5 meters (11.5 ft) bgs. The sample was collected from a decontaminated backhoe bucket using a clean stainless steel scoop. The sample was placed into a clean laboratory-supplied jar with a Teflon lid, sealed and labeled prior to cooling to approximately 4 °C (39.2 °F) in an ice chest. The sample was transported and submitted to the REEC Co ASL in Mercury, Nevada, following standard chain-of-custody procedures and analyzed for TPH as diesel.

Soil sample analytical results reported that TPH as diesel was not detected (<10.0 mg/kg). Laboratory analytical results from the additional site characterization are provided in Appendix B (ACS Packet No. 94-10-049).

3.2 Observations

Excavated soil consisted of damp, gravelly sand to sandy gravel. No hydrocarbon odors or soil staining was observed. Field notes documenting remedial activities are provided in Appendix C.

3.3 Backfill

The tank excavation was backfilled on October 25, 1994. The excavation was backfilled with pea gravel and capped with Type II fill. The associated product lines were sealed with cement grout prior to placing the Type II fill cap.

4.0 RESIDUAL MANAGEMENT

4.1 Soil Disposal

Approximately 34 m³ (45 yd³) of hydrocarbon contaminated soil were removed from the site. The soil was transported to the Area 6 Hydrocarbon Landfill on October 26, 1994. Disposal documentation is provided in Appendix E.

4.2 Tank Segmentation, Cleaning, and Disposal

Tank 25-3123-1 was segmented using Explosive Cutting Tape on December 7, 1994. The tank was confirmed to be inert using a CGA prior to segmentation. Once cut, the tank was cleaned using high pressure hot water. The rinseate was containerized into a clean 208 liter (55 gallon) drum. Once clean, the tank was subsequently crushed and buried in the U10c Class II sanitary landfill.

4.3 Rinseate Disposal

The rinseate generated from the sampling activities conducted on July 20 and October 18, 1994, was not sampled for analysis. Based upon the analytical results of the soil samples collected from the site, hydrocarbon residuals were likely present in the rinseate. Therefore, as a best management practice, the drum contents were solidified and disposed of at the Area 6 Hydrocarbon Landfill on October 10, 1995. The drum was managed and tracked using the NTS Brady Label identification system. Brady Label 592-164 was assigned to the drum.

Approximately 114 liters (30 gallons) of rinseate was generated from cleaning the tank interior. The rinseate was analyzed for TPH as diesel and VOCs. TPH as diesel was detected at a concentration of 120 mg/l. VOCs were detected at concentrations below regulatory action levels (Table 3). The REECo Waste Management Department characterized the drum contents as nonhazardous. The rinseate was subsequently solidified and disposed of at the Area 6 Hydrocarbon Landfill on October 10, 1995. Laboratory analytical results are provided in Appendix B (ACS Packet No. 95-04-029). The drum containing the rinseate waste was tracked using Brady Label 592-292. Disposal documentation is provided in Appendix E.

TABLE 3 - SUMMARY OF TANK RINSEATE ANALYTICAL RESULTS

SAMPLE ID (BRADY NUMBER)	QUANTITY (Liters/Gallons)	TPH^A DIESEL (mg/l)	VOCs^B (mg/l)
592-292	114/30	120	Acetone 0.067 Chloroform 0.00084 2-Butanone 0.024 Benzene 0.0034 4-Methyl-2-Pentanone 0.0017 2-Hexanone 0.0075 Toluene 0.019 Ethylbenzene 0.012 Total Xylene 0.096

Notes:

^A United States Environmental Protection Agency (US EPA) Method SW-846 8015 Modified

^B US EPA Method 8240

mg/l - milligrams per liter

5.0 SUMMARY AND CONCLUSIONS

5.1 Summary

Analytical results from the soil sample collected below the tank south bottom on July 20, 1994 exceeded the NAC Action Level of 100 mg/kg. A diesel concentration of 120 mg/kg was detected at a depth of 3 meters (10 ft) bgs.

Additional excavation and characterization was conducted on October 18, 1994. During the remedial excavation approximately 3.8 m³ (5 yd³) of hydrocarbon impacted soil was removed from the southern excavation bottom. Soil analytical results from the remedial excavation did not exceed the NAC Action Level. Diesel was not detected (<10.0 mg/kg) at a depth of 3.5 meters (11.5 ft) bgs.

5.2 Conclusions

Soils with elevated hydrocarbon concentrations detected below Tank 25-3123-1 were excavated during the remedial activities. Laboratory analysis of the soil sample collected from the south excavation bottom confirm that TPH concentrations greater than 100 mg/kg are no longer present. Therefore, it is requested that the site be closed without further action.

6.0 REFERENCES

AEC, 1959, U.S. Atomic Energy Commission, Control Point Area-Utility Layout & Profiles, Burns & McDonnell Engineering Co., Drawing No. 3108-SW-1.

NAC 1992, Nevada Administrative Code, Chapter 459, Hazardous Materials, Storage Tanks, 459.9972(4)(a) & 459.9973.

NAC 1994, Nevada Administrative Code, Chapter 459, Water Controls, Notification of Release of Pollutant, 445A.347.

U.S. EPA, 1994, Code of Federal Regulations, 40 CFR 280.71 & 280.72, Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks, Permanent Closure and Changes-in-Service.

APPENDIX A

***NOTIFICATION OF CLOSURE
ENVIRONMENTAL PROTECTION AGENCY
FORM 7530-1***

Department of Energy

Nevada Operations Office

P.O. Box 98518

Las Vegas, NV 89193-8518

JUN 17 1994

JUN 20 1994

Dean Mierau
Nevada Division of
Environmental Protection
1515 East Tropicana
Suite 395
Las Vegas, NV 89119

ENVIRONMENTAL PROT
110040 000**NOTIFICATION OF INTENT TO CLOSE TEN ENVIRONMENTAL RESTORATION
PROGRAM ABANDONED UNDERGROUND STORAGE TANKS (USTs)**

Enclosed is the Environmental Protection Agency Form 7530-1 indicating an intent to close ten recently identified USTs and a letter from Reynolds Electrical & Engineering Co., Inc., describing the location of the abandoned tanks and suspected use. The tanks will be removed by October 1, 1994. Prior to removal, your office will be notified with a proposed schedule of activities.

If you have any questions, call Janet L. Appenzeller-Wing at 295-0461.

Donald R. Elle, Ph.D., Director
Environmental Protection Division

EPD-BY-1184

Enclosures:

1. EPA Form 7530-1
2. Ltr, REECO to Elle

RESPONSE
SENT 6/27/94

Post-It™ brand fax transmittal memo 7671		# of pages	1
To	Dave Madrell		
From	Dean Mierau		
Co.	NDEP		
Phone #	295-7211		
Fax #	295-7761		
Phone #	486-7010		
Fax #	486-7014		

Notification for Underground Storage Tanks	
Capitol Complex, 201 S. Fall St., Nevada 89710	
TYPE OF NOTIFICATION	
☐ A. NEW FACILITY ☒ B. AMENDED ☐ C. CLOSURE	
130 No. of tanks at facility 3 No. of continuation sheets attached	
INSTRUCTIONS	
Please type or print in ink all items except "signature" in section V. This form must be completed for each location containing underground storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.	
STATE USE ONLY	ID NUMBER
DATE RECEIVED	
A. Date Entered into Computer	
B. Date Entry Clerk Initials	
C. Owner Was Contacted to	
Clearly Responses, Comments	

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1980, or that are brought into use after May 8, 1980. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum hydrocarbons. It is expected that the information you provide will be based on reasonably available records, or in the absence of such records, your knowledge, belief, or recollection.

When RCRA Section 9002 of RCRA, as amended, requires that, unless otherwise specified, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner must—

a) in the case of an underground storage tank in use on November 8, 1980, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and b) in the case of any underground storage tank in use before November 8, 1980, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

c) if the State agency so requires, any facility that has undergone any changes in facility ownership or tank system status (only attended with information needed to be included).

What Tanks Are Included? Underground storage tanks are defined as any one or combination of tanks that (1) is used to contain an accumulation of regulated substances, and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. Gasoline, used oil, or diesel fuel, and 2. Industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. Tanks used for storing heating oil for consumptive use on the premises where stored;

2. Tanks used for storing heating oil for consumptive use on the premises where used for noncommercial purposes;

3. Tanks for noncommercial purposes;

4. Tanks used for storing heating oil for consumptive use on the premises where stored.

What Substances Are Covered? The notification requirements apply to all ground storage tanks that contain regulated substances. This includes any substances defined as petroleum in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Send completed forms to:

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify the State agency by May 8, 1980. 2. Owners who bring underground storage tanks into use after May 8, 1980, must notify within 30 days of bringing the tanks into use. 3. If the State requires notification of any amendments to facility and information to State agency requires notification of any amendments to facility and information to State agency immediately.

Penalties: Any owner who knowingly fails to notify or submit false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

II. OWNERSHIP OF TANK(S)

III. LOCATION OF TANK(S)

Latitude N/A Longitude N/A

Facility Name or Company Site Identifier, as applicable

Nevada Test Site

Highway 95

Clark County

Las Vegas, NV 89193-8518

Post Office Box 98518

City

State

Zip Code

Phone Number (include Area Code)

(702) 295-1860

Page 1

III. TYPE OF OWNER		IV. INDIAN LANDS	
☒ Federal Government	☐ Commercial	Tanks are located on land within an Indian Reservation or on other trust lands. ☐	Tribe or Nation:
☐ State Government	☐ Private	Tanks are owned by native American nation, tribe, or individual. ☐	
☐ Local Government			

V. TYPE OF FACILITY

Select the Appropriate Facility Description

☐ Gas Station	☐ Railroad	☐ Trucking/Transport
☐ Petroleum Distributor	☒ Federal - Non-Military	☐ Utilities
☐ Air Taxi (Airline)	☐ Federal - Military	☐ Residential
☐ Aircraft Owner	☐ Industrial	☐ Farm
☐ Auto Dealership	☐ Contractor	☐ Other (Explain) _____

VI. CONTACT PERSON IN CHARGE OF TANKS

Name	Job Title	Address	Phone Number (Include Area Code)
D. R. Elle	Director	Env. Protection Div. Post Office Box 98518 Las Vegas, NV 89193-8518	(702) 295-1433

VII. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with 40 CFR Subpart H

EXEMPT

Check All that Apply

☐ Self Insurance	☐ Guarantee	☐ State Funds
☐ Commercial Insurance	☐ Surety Bond	☐ Trust Fund
☐ Risk Retention Group	☐ Letter of Credit	☐ Other Method Allowed Specify _____

VIII. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this 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.

Name and official title of owner or owner's authorized representative (Print)

Donald R. Elle
Director, Environmental Protection Div.

Signature

Don Elle

Date Signed

6/16/94

EPA estimates public reporting burden for this form to average 30 minutes per response including time for reviewing instructions, gathering and maintaining the data needed and completing and reviewing the form. Send comments regarding this burden estimate to Chief, Information Policy Branch PM-223, U.S. Environmental Protection Agency, 401 M Street, Washington D.C. 20460, marked "Attention Desk Officer for EPA." This form amends the previous notification form as printed in 40 CFR Part 280, Appendix I. Previous editions of this notification form may be used while supplies last.

IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification Number	Tank No.	15-CM-1	23-BPY-1	25-3101-1	25-3102-4	25-3123-1
1. Status of Tank (mark only one)	Currently in Use	☐	☐	☐	☐	☐
	Temporarily Out of Use (Responsible to fill out Section 2.)	☐	☐	☐	☐	☐
	Permanently Out of Use (Responsible to fill out Section 2.)	☐	☐	☐	☐	☐
	Amendment of Information	XX	XX	XX	XX	XX
	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
2. Date of Installation (mo./year)		Not Determin.	Not Determin.	Not Determin.	Not Determin.	1959
3. Estimated Total Capacity (gallons)		550	100	Not Determin.	100	Not Determin.
4. Material of Construction (Mark all that apply)						
	Asphalt Coated or Bare Steel	☐	☐	☐	☐	☐
	Cathodically Protected Steel	☐	☐	☐	☐	☐
	Epoxy Coated Steel	☐	☐	☐	☐	☐
	Composite (Steel with Fiberglass)	☐	☐	☐	☐	☐
	Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
	Lined Interior	☐	☐	☐	☐	☐
	Double Walled	☐	☐	☐	☐	☐
	Polyethylene Tank Jacket	☐	☐	☐	☐	☐
	Concrete	☐	☐	☐	☐	☐
	Excavation Liner	☐	☐	☐	☐	☐
	Unknown	XX	XX	XX	XX	XX
	Other, Please specify					
	Has tank been repaired?	Not Determin.	Not Determin.	Not Determin.	Not Determin.	Not Determin.
5. Piping (Material) (Mark all that apply)						
	Bare Steel	☐	☐	☐	☐	☐
	Galvanized Steel	☐	☐	☐	☐	☐
	Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
	Copper	☐	☐	☐	☐	☐
	Cathodically Protected	☐	☐	☐	☐	☐
	Double Walled	☐	☐	☐	☐	☐
	Secondary Containment	☐	☐	☐	☐	☐
	Unknown	XX	XX	XX	XX	XX
	Other, Please specify					
6. Piping (Type) (Mark all that apply)		Not Determin.	Not Determin.	Not Determin.	Not Determin.	Not Determin.
	Suction: no valve at tank	☐	☐	☐	☐	☐
	Suction: valve at tank	☐	☐	☐	☐	☐
	Pressure	☐	☐	☐	☐	☐
	Gravity Feed	☐	☐	☐	☐	☐
	Has piping been repaired?	Not Determin.	Not Determin.	Not Determin.	Not Determin.	Not Determin.

IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Continued) (one for each tank at this location.)

Tank Identification Number	Tank No.	25-3129-1	25-3152-1	26-2101-1	26-2102-1	26-2205-1
1. Status of Tank (mark only one)	Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use (Reference to 21 and section 2.)		☐	☐	☐	☐	☐
Permanently Out of Use (Reference to 21 and section 2.)		☐	☐	☐	☐	☐
Amendment of Information	XX	XX	XX	XX	XX	XX
	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
2. Date of Installation (mo./year)		1961	1960	Not Determined	Not Determined	Not Determined
3. Estimated Total Capacity (gallons)		2000	1000	Not Determined	Not Determined	Not Determined
4. Material of Construction (Mark all that apply)						
Asphalt Coated or Bare Steel	☐	☐	☐	☐	☐	☐
Cathodically Protected Steel	☐	☐	☐	☐	☐	☐
Epoxy Coated Steel	☐	☐	☐	☐	☐	☐
Composite (Steel with Fiberglass)	☐	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐	☐
Lined Interior	☐	☐	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐	☐
Polyethylene Tank Jacket	☐	☐	☐	☐	☐	☐
Concrete	☐	☐	☐	☐	☐	☐
Excavation Liner	☐	☐	☐	☐	☐	☐
Unknown	XX	XX	XX	XX	XX	XX
Other, Please specify						
Has tank been repaired?	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined
5. Piping (Material) (Mark all that apply)						
Bare Steel	☐	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐	☐
Copper	☐	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐	☐
Secondary Containment	☐	☐	☐	☐	☐	☐
Unknown	XX	XX	XX	XX	XX	XX
Other, Please specify						
6. Piping (Type) (Mark all that apply)						
Suction: no valve at tank	☐	☐	☐	☐	☐	☐
Suction: valve at tank	☐	☐	☐	☐	☐	☐
Pressure	☐	☐	☐	☐	☐	☐
Gravity Feed	☐	☐	☐	☐	☐	☐
Has piping been repaired?	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined

Tank Identification Number	Tank No.	15-CM-1	23-BPY-1	25-3101-1	25-3102-4	25-3123-1
7. Substance Currently or Last Stored In Greatest Quantity by Volume						
Gasoline						
Diesel		XX				
Gasohol						
Kerosene						
Heating Oil			XX	XX	XX	XX
Used Oil						
Other, Please specify						
Hazardous Substance CERCLA name and/or, CAS number						
Mixture of Substances Please specify						
X. TANKS OUT OF USE, OR CHANGE IN SERVICE						
1. Closing of Tank	Intent to close	Intent to Close	Intent to Close	Intent to Close	Intent to Close	
A. Estimated date last used (mo./day/year)						
B. Estimate date tank closed (mo./day/year)						
C. Tank was removed from ground						
D. Tank was closed in ground						
E. Tank filled with inert material Describe						
F. Change in service						
2. Site Assessment Completed						
Evidence of a leak detected						

**7. Substance Currently or Last Stored
in Greatest Quantity by Volume**

Gasoline

Diesel

Gasohol

Kerosene

Heating Oil

Used Oil

Other, Please specify

 Hazardous Substance
 CERCLA name and/or,
 CAS number

 Mixture of Substances
 Please specify

X. TANKS OUT OF USE, OR CHANGE IN SERVICE
1. Closing of Tank

 Intent to
Close

 Intent to
Close

 Intent to
Close

 Intent to
Close

 Intent to
Close

 A. Estimated date last used
(mo./day/year)

 B. Estimate date tank closed
(mo./day/year)

C. Tank was removed from ground

D. Tank was closed in ground

E. Tank filled with inert material

Describe

F. Change in service

2. Site Assessment Completed

Evidence of a leak detected

XI. CERTIFICATION OF COMPLIANCE (COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)

Tank Identification Number	Tank No.	15-CM-1	23-BPY-1	25-3101-1	25-3102-4	25-3123-1					
1. Installation		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable					
A. Installer certified by tank and piping manufacturers		☐	☐	☐	☐	☐					
B. Installer certified or licensed by the implementing agency		☐	☐	☐	☐	☐					
C. Installation inspected by a registered engineer		☐	☐	☐	☐	☐					
D. Installation inspected and approved by implementing agency		☐	☐	☐	☐	☐					
E. Manufacturer's installation checklists have been completed		☐	☐	☐	☐	☐					
F. Another method allowed by State agency. Please specify.		☐	☐	☐	☐	☐					
2. Release Detection (Mark all that apply)		TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING
A. Manual tank gauging		☐		☐		☐		☐		☐	
B. Tank tightness testing		☐		☐		☐		☐		☐	
C. Inventory controls		☐		☐		☐		☐		☐	
D. Automatic tank gauging		☐		☐		☐		☐		☐	
E. Vapor monitoring		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Groundwater monitoring		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. Interstitial monitoring double walled tank/piping		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Interstitial monitoring/secondary containment		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Automatic line leak detectors		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Line tightness testing		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
K. Other method allowed by Implementing Agency. Please specify.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3. Spill and Overfill Protection											
A. Overfill device installed		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Spill device installed		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

OATH: I certify the information concerning installation that is provided in section XI is true to the best of my belief and knowledge.

Installer: Not Applicable

Name

Signature

Date

Position

Company

XI. CERTIFICATION OF COMPLIANCE (COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)

Tank Identification Number	Tank No.	25-3129-1	25-3152-1	26-2101-1	26-2102-1	26-2205-1					
1. Installation		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable					
A. Installer certified by tank and piping manufacturers											
B. Installer certified or licensed by the implementing agency											
C. Installation inspected by a registered engineer											
D. Installation inspected and approved by implementing agency											
E. Manufacturer's installation checklists have been completed											
F. Another method allowed by State agency. Please specify.											
2. Release Detection (Mark all that apply)		TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING
A. Manual tank gauging											
B. Tank tightness testing											
C. Inventory controls											
D. Automatic tank gauging											
E. Vapor monitoring											
F. Groundwater monitoring											
G. Interstitial monitoring double walled tank/piping											
H. Interstitial monitoring/secondary containment											
I. Automatic line leak detectors											
J. Line tightness testing											
K. Other method allowed by Implementing Agency. Please specify.											
3. Spill and Overfill Protection											
A. Overfill device installed											
B. Spill device installed											

OATH: I certify the information concerning installation that is provided in section XI is true to the best of my belief and knowledge.

Installer:

Not Applicable

Name

Signature

Date

Position

Company

APPENDIX B

LABORATORY ANALYTICAL DATA PACKETS

Reynolds Electrical & Engineering Co., Inc.

MEMORANDUM

AUG 11 4 02 PM '94

To S. J. Nacht
From *[Signature]*
for A. R. Latham
Date August 9, 1994
Subject SAMPLE ANALYTICAL RESULTS

Enclosed are the Analytical Services Department's results, requested by D. D. Madsen, for the volatile organics, semivolatile organics, PCB organics, total petroleum hydrocarbons (gasoline/diesel/oil), total metals, flashpoint, and pH analyses of 5 fuel/oil samples and the volatile organics analysis of a trip blank collected on July 6, 1994, in Area 25. Also enclosed are the results for the gross gamma analysis of the samples.

Please direct any questions you may have to your Client Service Representative, Jerry Dugas at 295-7220.

ARL:428:bv

Enclosures
As stated

cy w/o encls.
Central Files, M/S 530
L. S. Sygitowicz, M/S 708
ACS Packet No. 94-07-012

cy w/encls.
D. D. Madsen, ERTD, M/S 966

TOTAL QUALITY IS OUR BUSINESS

REECO

AN EG&G COMPANY

REECO ASD/AQS

REECO
BOB DODGE
ENVIRONMENTAL RESTORATION
TECHNOLOGY DEVELOPMENT
Attn: DAVE MADSEN

Order #: 94-07-012
Date: 08/09/94 12:33
Work ID: VOA,BNA,MTLS,PH,FLASHPT,PCB
Date Received: 07/06/94
Date Completed: 08/09/94

Purchase Order: 3754-032

STD TAT

Invoice Number:

Client Code: ERTD

REPORT TO DAVE MADSEN, ERTD

PH WAS NOT DONE. SAMPLES WERE ORGANIC PER KKK 07/19/94

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	94JLH0706-1 TRIP BLANK	29	26-2205-1
02	25-3123-1-SB	30	25-3110-1
03	25-3123-1-SB	31	25-3110-1
04	25-3123-1-SB	32	25-3110-1
05	25-3123-1-SB	33	25-3110-1
08	25-3123-1-SB	34	25-3110-1
09	25-3123-1	35	25-3110-1
10	25-3123-1	36	25-3110-1
11	25-3123-1	37	94TAP0707-1 TRIP BLANK
12	25-3123-1	38	94-07-012-QC1 MB
13	25-3123-1	39	94-07-012-QC2 MB
14	25-3123-1	40	94-07-012-QC3 MS
15	25-3123-1	41	94-07-012-QC4 MB
16	25-3129-1	42	94-07-012-QC5 DETEC. LIMIT
17	25-3129-1	43	94-07-012-QC6 MS
18	25-3129-1	44	94-07-012-QC7 MB
19	25-3129-1	45	94-07-012-QC8 BUFFERS
20	25-3129-1	46	94-07-012-QC9 WINTERGREEN
21	25-3129-1	47	94-07-012-QC10 CAL VER
22	25-3129-1	48	94-07-012-QC11 CONTROLS
23	26-2205-1	49	94-07-012-QC12 DUPLICATE
24	26-2205-1	50	94-07-012-QC13 PREP BLANK
25	26-2205-1	51	PACKET #G0349
26	26-2205-1	52	PACKET #G0349
27	26-2205-1	53	12.25 HOURS 1.9 UNITS
28	26-2205-1	54	94-07-012-QC14 CAL VER

Order # 94-07-012
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REECO ASD/ACS

Page 2

Certified By

Order # 94-07-012
08/09/94 12:33

REECO ASD/ACS
TEST RESULTS BY SAMPLE

Page 3

Sample Description: 25-3123-1-SB

Lab No: 04A

Test Description: TOTAL RCRA METALS

Method: ICP/COLD VAP Test Code: TOTALX

Collected: 07/06/94

Category: METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3123-1-SB	
ARSENIC (As)	6010 ND	07/27/94
BARIUM (Ba)	6010 <0.0060	07/27/94
CADMIUM (Cd)	6010 ND	07/27/94
CHROMIUM (Cr)	6010 ND	07/27/94
LEAD (Pb)	6010 ND	07/27/94
MERCURY (Hg)	7470-1 ND	07/27/94
SELENIUM (Se)	6010 ND	07/27/94
SILVER (Ag)	6010 ND	07/27/94

Notes and Definitions for this Report:

EXTRACTED 07/27/94

UNITS mg/L

PREP_TECH JWB

Order # 94-07-012

08/09/94 12:33

REECO ASD/ACS

TEST RESULTS BY SAMPLE

Page 4

Sample Description: 25-3123-1-SB

MS Lab No: 04B

Test Description: TOTAL RCRA METALS

Method: ICP/COLD VAP Test Code: TOTALX

Collected: 07/06/94

Category: METALS_QC

PARAMETER	RESULT	INJECTED
FIELD ID #	<u>MATRIX SPIKE</u>	
ARSENIC (As)	6010	<u>104</u> <u>07/27/94</u>
BARIUM (Ba)	6010	<u>102</u> <u>07/27/94</u>
CADMIUM (Cd)	6010	<u>97</u> <u>07/27/94</u>
CHROMIUM (Cr)	6010	<u>100</u> <u>07/27/94</u>
LEAD (Pb)	6010	<u>101</u> <u>07/27/94</u>
MERCURY (Hg)	7470-1	<u>107</u> <u>07/27/94</u>
SELENIUM (Se)	6010	<u>103</u> <u>07/27/94</u>
SILVER (Ag)	6010	<u>97</u> <u>07/27/94</u>

Notes and Definitions for this Report:

EXTRACTED 07/27/94

UNITS % RECOVERY

PREP_TECH JWB

Order # 94-07-012
08/09/94 12:33

REECO ASD/ACS
TEST RESULTS BY SAMPLE

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Sample Description: 25-3123-1

Lab No: 11A

Test Description: TOTAL RCRA METALS

Method: ICP/COLD VAP Test Code: TOTALX

Collected: 07/06/94

Category: METALS

PARAMETER		RESULT	INJECTED
FIELD ID #		25-3123-1	
ARSENIC (As)	6010	ND	07/27/94
BARIUM (Ba)	6010	ND	07/27/94
CADMIUM (Cd)	6010	ND	07/27/94
CHROMIUM (Cr)	6010	ND	07/27/94
LEAD (Pb)	6010	ND	07/27/94
MERCURY (Hg)	7470-1	ND	07/28/94
SELENIUM (Se)	6010	ND	07/27/94
SILVER (Ag)	6010	ND	07/27/94

Notes and Definitions for this Report:

EXTRACTED 07/27/94

UNITS mg/L

PREP_TECH PN

Order # 94-07-012
08/09/94 12:33

REECO ASD/ACS
TEST RESULTS BY SAMPLE

Page 6

Sample Description: 25-3129-1

Lab No: 18A

Test Description: TOTAL RCRA METALS

Method: ICP/COLD VAP Test Code: TOTALX

Collected: 07/06/94

Category: METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3129-1	
ARSENIC (As) 6010	ND	07/27/94
BARIUM (Ba) 6010	<0.0060	07/27/94
CADMIUM (Cd) 6010	ND	07/27/94
CHROMIUM (Cr) 6010	ND	07/27/94
LEAD (Pb) 6010	ND	07/27/94
MERCURY (Hg) 7470-1	ND	07/28/94
SELENIUM (Se) 6010	ND	07/27/94
SILVER (Ag) 6010	ND	07/27/94

Notes and Definitions for this Report:

EXTRACTED 07/27/94

UNITS mg/L

PREP_TECH PN

Order # 94-07-012
08/09/94 12:33

REECO ASD/ACS
TEST RESULTS BY SAMPLE

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Sample Description: 26-2205-1 Lab No: 25A
Test Description: TOTAL RCRA METALS Method: ICP/COLD VAP Test Code: TOTALX
Collected: 07/06/94 Category: METALS

PARAMETER		RESULT	INJECTED
FIELD ID #		26-2205-1	
ARSENIC (As)	6010	ND	07/27/94
BARIUM (Ba)	6010	ND	07/27/94
CADMIUM (Cd)	6010	ND	07/27/94
CHROMIUM (Cr)	6010	ND	07/27/94
LEAD (Pb)	6010	ND	07/27/94
MERCURY (Hg)	7470-1	ND	07/28/94
SELENIUM (Se)	6010	ND	07/27/94
SILVER (Ag)	6010	ND	07/27/94

Notes and Definitions for this Report:

EXTRACTED 07/27/94
UNITS mg/L
PREP_TECH PN

08/09/94 12:33

TEST RESULTS BY SAMPLE

Sample Description: 25-3110-1

Lab No: 32A

Test Description: TOTAL RCRA METALS

Method: ICP/COLD VAP Test Code: TOTALX

Collected: 07/07/94

Category: METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3110-1	
ARSENIC (As)	6010	ND 07/27/94
BARIUM (Ba)	6010	<0.0060 07/27/94
CADMIUM (Cd)	6010	ND 07/27/94
CHROMIUM (Cr)	6010	ND 07/27/94
LEAD (Pb)	6010	ND 07/27/94
MERCURY (Hg)	7470-1	ND 07/28/94
SELENIUM (Se)	6010	ND 07/27/94
SILVER (Ag)	6010	ND 07/27/94

Notes and Definitions for this Report:

EXTRACTED 07/27/94

UNITS mg/L

PREP_TECH PN

Order # 94-07-012
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REECO ASD/ACS
TEST RESULTS BY SAMPLE

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Sample Description: 94-07-012-QC3
Test Description: TOTAL RCRA METALS

MS Lab No: 40A
Category: METALS_QCVAP Test Code: TOTALX

PARAMETER	RESULT	INJECTED
FIELD ID #		MATRIX SPIKE
ARSENIC (As)	6010	102 07/27/94
BARIUM (Ba)	6010	102 07/27/94
CADMIUM (Cd)	6010	90 07/27/94
CHROMIUM (Cr)	6010	100 07/27/94
LEAD (Pb)	6010	97 07/27/94
MERCURY (Hg)	7470-1	94 07/28/94
SELENIUM (Se)	6010	107 07/27/94
SILVER (Ag)	6010	96 07/27/94

Notes and Definitions for this Report:

EXTRACTED 07/27/94

UNITS % RECOVERY

PREP_TECH JWB

Order # 94-07-012

REECO ASD/ACS

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08/09/94 12:33

TEST RESULTS BY SAMPLE

Sample Description: 94-07-012-QC4

MB Lab No: 41A

Test Description: TOTAL RCRA METALS

Category: METALS_QCVAP Test Code: TOTALX

PARAMETER	RESULT	INJECTED
FIELD ID #	METHOD BLANK	
ARSENIC (As)	6010	ND 07/27/94
BARIUM (Ba)	6010	ND 07/27/94
CADMIUM (Cd)	6010	ND 07/27/94
CHROMIUM (Cr)	6010	ND 07/27/94
LEAD (Pb)	6010	ND 07/27/94
MERCURY (Hg)	7470-1	ND 07/27/94
SELENIUM (Se)	6010	ND 07/27/94
SILVER (Ag)	6010	ND 07/27/94

Notes and Definitions for this Report:

EXTRACTED 07/27/94

UNITS mg/L

PREP_TECH JWB

Order # 94-07-012
08/09/94 12:33

REECO ASD/ACS
TEST RESULTS BY SAMPLE

Page 11

Sample Description: 94-07-012-QC5 DETEC. LIMIT Lab No: 42A

Test Description: TOTAL RCRA METALS Category: METALS_QCVAP Test Code: TOTALX

PARAMETER		RESULT	INJECTED
FIELD ID #		L.O.D.(TOTAL)	
ARSENIC (As)	6010	0.042	
BARIUM (Ba)	6010	0.0018	
CADMIUM (Cd)	6010	0.0042	
CHROMIUM (Cr)	6010	0.0048	
LEAD (Pb)	6010	0.035	
MERCURY (Hg)	7470-1	0.00013	
SELENIUM (Se)	6010	0.050	
SILVER (Ag)	6010	0.0039	

Notes and Definitions for this Report:

EXTRACTED _____
UNITS _____ mg/L
PREP_TECH _____

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REGULAR TEST RESULTS BY TEST

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BNA ORGANICS (EPA 8270)
Method: SW846 8270

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
03A	25-3123-1-SB	SEE DATA	PACKAGE				
10A	25-3123-1	SEE DATA	PACKAGE				
17A	25-3129-1	SEE DATA	PACKAGE				
24A	26-2205-1	SEE DATA	PACKAGE				
31A	25-3110-1	SEE DATA	PACKAGE				
39A	94-07-012-QC2	MB SEE DATA	PACKAGE				

EXTRACTION STEP CODE
Method:

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
03A	25-3123-1-SB	07/06/94	.				CDC
08A	25-3123-1-SB	07/11/94	.				EV
10A	25-3123-1	07/12/94	.				EV
14A	25-3123-1	07/11/94	.				EV
15A	25-3123-1	07/11/94	.				EV
17A	25-3129-1	07/12/94	.				EV
21A	25-3129-1	07/11/94	.				EV
22A	25-3129-1	07/11/94	.				EV
24A	26-2205-1	07/12/94	.				EV
28A	26-2205-1	07/11/94	.				EV
29A	26-2205-1	07/11/94	.				EV
31A	25-3110-1	07/12/94	.				EV
35A	25-3110-1	07/11/94	.				EV
36A	25-3110-1	07/11/94	.				EV
39A	94-07-012-QC2	MB 07/06/94	.				CDC
43A	94-07-012-QC6	MS 07/11/94	.				EV
44A	94-07-012-QC7	MB 07/11/94	.				EV
47A	94-07-012-QC10	CAL VER NA	.				EV
48A	94-07-012-QC11	CONTROLS 07/11/94	.				EV
49A	94-07-012-QC12	DUPLICATE NA	.				EV
50A	94-07-012-QC13	PREP BLANK 07/11/94	.				EV
54A	94-07-012-QC14	CAL VER NA	.				EV

FLASH POINT
Method: PENSKEYMARTIN

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
13A	25-3123-1	188	°F			08/03/94	JWB
20A	25-3129-1	177	°F			08/03/94	JWB
27A	26-2205-1	204	°F			08/03/94	JWB
34A	25-3110-1	210	°F			08/03/94	JWB
46A	94-07-012-QC9 WINTERGREEN	100	% RECOVERY			08/03/94	JWB

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PCB 1242

Minimum: 0.0 Maximum: 999999.0

Method: GC_ECD

Samp	Sample Description	Result	Units	Limit	Prepared	Analyzed	By
14A	25-3123-1	<2.5	PPM			07/12/94	JRW
21A	25-3129-1	<2.5	PPM			07/12/94	JRW
28A	26-2205-1	<2.5	PPM			07/12/94	JRW
35A	25-3110-1	<2.5	PPM			07/12/94	JRW
47A	94-07-012-QC10 CAL VER	94	% RECOVERY			07/12/94	JRW
48A	94-07-012-QC11 CONTROLS	70	% RECOVERY			07/12/94	JRW
49A	94-07-012-QC12 DUPLICATE	<5.0	PPM			07/12/94	JRW
50A	94-07-012-QC13 PREP BLANK	<2.5	PPM			07/12/94	JRW

PCB 1254

Minimum: 0.0 Maximum: 999999.0

Method: GC_ECD

Samp	Sample Description	Result	Units	Limit	Prepared	Analyzed	By
14A	25-3123-1	<2.5	PPM			07/12/94	JRW
21A	25-3129-1	<2.5	PPM			07/12/94	JRW
28A	26-2205-1	<2.5	PPM			07/12/94	JRW
35A	25-3110-1	<2.5	PPM			07/12/94	JRW
47A	94-07-012-QC10 CAL VER	NA	NA			07/12/94	JRW
48A	94-07-012-QC11 CONTROLS	84	% RECOVERY			07/12/94	JRW
49A	94-07-012-QC12 DUPLICATE	<5.0	PPM			07/12/94	JRW
50A	94-07-012-QC13 PREP BLANK	<2.5	PPM			07/12/94	JRW

PCB 1260

Minimum: 0.0 Maximum: 999999.0

Method: GC_ECD

Samp	Sample Description	Result	Units	Limit	Prepared	Analyzed	By
14A	25-3123-1	<2.5	PPM			07/12/94	JRW
21A	25-3129-1	<2.5	PPM			07/12/94	JRW
28A	26-2205-1	<2.5	PPM			07/12/94	JRW
35A	25-3110-1	<2.5	PPM			07/12/94	JRW
47A	94-07-012-QC10 CAL VER	97	% RECOVERY			07/12/94	JRW
48A	94-07-012-QC11 CONTROLS	88	% RECOVERY			07/12/94	JRW
49A	94-07-012-QC12 DUPLICATE	<5.0	PPM			07/12/94	JRW
50A	94-07-012-QC13 PREP BLANK	<2.5	PPM			07/12/94	JRW

RADIOISOTOPE SCREEN

Minimum:

Maximum:

Method:

Samp	Sample Description	Result	Units	Limit	Prepared	Analyzed	By
51A	PACKET #G0349	SEE DATA	PACKAGE				

RADIONUCLIDE FINAL REPORT

Minimum:

0 Maximum: 999999999

Method:

Samp	Sample Description	Result	Units	Limit	Prepared	Analyzed	By
52A	PACKET #G0349	SEE DATA	PACKAGE				

SAMPLE TIME

Minimum:

Maximum:

Method:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
53A	12.25 HOURS 1.9 UNITS		L2 & L1				

TPH - DIESEL

Minimum:

0 Maximum: 999999999

Method: GC

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
08A	25-3123-1-SB	< 0.5	MG/LITER			07/13/94	ABC
15A	25-3123-1	860,000	MG/KG			07/13/94	ABC
22A	25-3129-1	747,000	MG/KG			07/13/94	ABC
29A	26-2205-1	942,000	MG/KG			07/13/94	ABC
36A	25-3110-1	1,170,000	MG/KG (TEXT)			07/13/94	ABC
43A	94-07-012-QC6	MS 75.0	% RECOVERY			07/13/94	ABC
44A	94-07-012-QC7	MB < 0.5	MG/LITER			07/12/94	ABC
54A	94-07-012-QC14	CAL VER 87.7	% RECOVERY			07/12/94	ABC

TPH - GASOLINE

Minimum:

0 Maximum: 999999999

Method: GC

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
08A	25-3123-1-SB	< 5.0	MG/LITER			07/13/94	ABC
15A	25-3123-1	< 5.0	MG/KG			07/13/94	ABC
22A	25-3129-1	< 5.0	MG/KG			07/13/94	ABC
29A	26-2205-1	< 5.0	MG/KG			07/13/94	ABC
36A	25-3110-1	< 5.0	MG/KG			07/13/94	ABC
43A	94-07-012-QC6	MS NA					
44A	94-07-012-QC7	MB < 5.0	MG/LITER			07/12/94	ABC
54A	94-07-012-QC14	CAL VER 139	% RECOVERY			07/12/94	ABC

TPH - GASOLINE MATRIX SPK

Minimum:

0 Maximum: 999999999

Method: GC

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
08A	25-3123-1-SB	105	% RECOVERY			07/13/94	ABC
15A	25-3123-1	8.24	% REC. (TEXT)			07/13/94	ABC
22A	25-3129-1	8.04	% REC. (TEXT)			07/13/94	ABC
29A	26-2205-1	8.70	% REC. (TEXT)			07/13/94	ABC
36A	25-3110-1	6.87	% REC. (TEXT)			07/13/94	ABC
43A	94-07-012-QC6	MS NA					
44A	94-07-012-QC7	MB NA					
54A	94-07-012-QC14	CAL VER NA					

TPH - OIL

Minimum:

0 Maximum: 999999999

Method: GC

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
08A	25-3123-1-SB	< 0.5	MG/LITER			07/13/94	ABC

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<u>Samp</u>	<u>Sample Description</u>		<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
15A	25-3123-1		< 10.0	MG/KG			07/13/94	ABC
22A	25-3129-1		< 10.0	MG/KG			07/13/94	ABC
29A	26-2205-1		< 10.0	MG/KG			07/13/94	ABC
36A	25-3110-1		< 10.0	MG/KG			07/13/94	ABC
43A	94-07-012-QC6	MS	NA	(TEXT)				
44A	94-07-012-QC7	MB	< 0.5	MG/LITER			07/12/94	ABC
54A	94-07-012-QC14	CAL VER	94.2	% RECOVERY			07/12/94	ABC

TPH - TOTAL Minimum: 0 Maximum: 999999999
Method: GC

<u>Samp</u>	<u>Sample Description</u>		<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
08A	25-3123-1-SB		< 6.0	MG/LITER				
15A	25-3123-1		860,000	MG/KG				
22A	25-3129-1		747,000	MG/KG				
29A	26-2205-1		942,000	MG/KG				
36A	25-3110-1		1,170,000	MG/KG				
43A	94-07-012-QC6	MS	NA					
44A	94-07-012-QC7	MB	< 6.0	MG/LITER				
54A	94-07-012-QC14	CAL VER	NA					

VOLATILE ORGANIC ANALYSIS Minimum: Maximum:
Method: SW846 8260

<u>Samp</u>	<u>Sample Description</u>		<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
01A	94JLH0706-1	TRIP BLANK	SEE DATA	PACKAGE			07/12/94	TCS
02A	25-3123-1-SB		SEE DATA	PACKAGE			07/18/94	TCS
09A	25-3123-1		SEE DATA	PACKAGE			07/18/94	TCS
09B	94-07-012-QC15	MS	SEE DATA	PACKAGE			07/18/94	TCS
09C	94-07-012-QC16	MS	SEE DATA	PACKAGE			07/18/94	TCS
16A	25-3129-1		SEE DATA	PACKAGE			07/18/94	TCS
23A	26-2205-1		SEE DATA	PACKAGE			07/18/94	TCS
30A	25-3110-1		SEE DATA	PACKAGE			07/18/94	TCS
37A	94TAP0707-1	TRIP BLANK	SEE DATA	PACKAGE			07/12/94	TCS
38A	94-07-012-QC1	MB	SEE DATA	PACKAGE			07/18/94	TCS

pH Minimum: 0 Maximum: 999999999
Method: METER

<u>Samp</u>	<u>Sample Description</u>		<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
05A	25-3123-1-SB		8.48	pH UNITS			07/07/94	SBN
12A	25-3123-1		SEE	COMMENTS				
19A	25-3129-1		SEE	COMMENTS				
26A	26-2205-1		SEE	COMMENTS				
33A	25-3110-1		SEE	COMMENTS				
45A	94-07-012-QC8	BUFFERS	100	% Recovery			07/07/94	SBN

PCB ANALYST'S NOTES: THE SAMPLES CONTAINED NO IDENTIFIABLE AROCLOR PATTERN. THE DUPLICATE WAS FROM WORK ORDER 9407008 AND AGREED WITH ITS ORIGINAL ANALYSIS. THE AR1254 CALIBRATION VERIFICATION STANDARD WAS BAD AND NO VALUE IS REPORTED.

TPH ANALYST'S NOTES:

Because of the large amount of diesel present in samples 25-3123-1 (-15A), 25-3129-1 (-22A), 25-2205-1 (-29A), and 25-3110-1 (36A) very low recoveries for the gasoline matrix spikes were achieved.

The matrix spike for oil and diesel was performed on sample 94JLH0706-7 (-04A) from sample set 9407007. The results for the diesel matrix spike was reasonable at 75.0 % recovery, however, the oil matrix spike portion was not acceptable at 336 % recovery. This kind of erratic result is not unusual for samples containing large amounts of TPH.

VOLATILES DATA

ANALYST NOTES: Volatile Organic Analysis (VOA): METHOD 8240

Date: July 21, 1994

Lab Work Order No.: 94-07-012

Client Sample ID.: 94JLH0706-1, 25-3123-1-SB, 25-3123-1,
25-3129-1, 25-3129-1MS, 25-3129-1MSD, 26-2205-1, 25-3110-1,
94TAP0707-1

The samples were analyzed on a Hewlett Packard 5890 GC/5970 MSD, with a Tekmar purge and trap connected for direct injection on column. Instrumental parameters used are those specified in SW-846, 3rd Edition, September 1986, METHOD 8240 (for capillary column GC).

The target analytes are listed with their CAS numbers, and the amount of the target compound found in ug/L or ug/Kg, depending on the matrix (water or soil, respectively). If the analyte was not found in the sample, the quantitation limit is reported preceded by an n.d. qualifier in the "result" column. The qualifiers used in this reporting format are:

- n.d.- Indicates compound was analyzed for but not detected.
- J- Indicates an estimated value. Indicates the presence of a compound that meets the identification criteria, but the result is less than the sample quantitation limit but greater than zero.
- B- This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E- This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D- This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- T- This flag is used when the analyte is found in the associated TCLP extraction blank as well as the sample. It indicates possible/probable contamination.
- X- This flag is used when the analyte is found in the associated methanol extraction blank as well as in the sample. It indicates possible/probable contamination.
- MS- This flag indicates a compound that was spiked into the sample, by the analyst, to help determine a possible/probable matrix effect.

The volatile compounds methylene chloride, acetone, and 2-butanone are considered to be common laboratory contaminants by the U.S. EPA. The U.S. EPA Contract Laboratory Program (CLP) Statement of Work for Organic Analysis, OLM01.1-.6,

dated June 1991, Exhibit D, Section IV, paragraph 10.10 allows concentrations up to five times (5X) the Contract Required Quantitation Limit (CRQL) of 10 ppb (ie 50 ppb is allowed) of the common laboratory contaminants methylene chloride, acetone and 2-butanone to be present in the method blank before reanalysis is required. If these contaminants are found in samples as well as the method blank, they are to be qualified by a "B" to show they are possible laboratory contamination.

Samples 25-3123-1, 25-3129-1, 26-2205-1, and 25-3110-1 all contained air bubbles.

Sample XVBLK5Z is the methanol extraction blank associated with these samples.

EPA 624/8240: REECO ASL LAB Volatile Organics Test Results

Name Field: 94TAP0707-1 Blank:>TD054:PASS QaQc File: QVOLWM
 Misc Field: 94-07-012-37A 5ML PU TB
 Instrument: VOA1 Datafile: >TD058 Idfile: ID_VN1 Quantfile: ^TD058

Injection time: 15:35 on 07-12-94 Quant Time: 15:59 on 07-12-94
 Continuing calibration time : 10:55 on 07-12-94 using the file: ^WVW22::D3
 User dilfac:1 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/L	10.
Bromomethane	74-83-9	n.d.	UG/L	10.
Vinyl Chloride	75-01-4	n.d.	UG/L	10.
Chloroethane	75-00-3	n.d.	UG/L	10.
Methylene Chloride	75-09-2	6.	UG/L	5.
Acetone	67-64-1	n.d.	UG/L	10.
Carbon Disulfide	75-15-0	n.d.	UG/L	5.
1,1-Dichloroethene	75-35-4	n.d.	UG/L	5.
1,1-Dichloroethane	75-34-3	n.d.	UG/L	5.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/L	5.
Chloroform	67-66-3	n.d.	UG/L	5.
1,2-Dichloroethane	107-02-2	n.d.	UG/L	5.
2-Butanone	78-93-3	n.d.	UG/L	10.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/L	5.
Carbon Tetrachloride	56-23-5	n.d.	UG/L	5.
Bromodichloromethane	75-27-4	n.d.	UG/L	5.
1,2-Dichloropropane	78-87-5	n.d.	UG/L	5.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/L	5.
Trichloroethene	79-01-6	n.d.	UG/L	5.
Dibromochloromethane	124-48-1	n.d.	UG/L	5.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/L	5.
Benzene	71-43-2	n.d.	UG/L	5.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/L	5.
Bromoform	75-25-2	n.d.	UG/L	5.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/L	10.
2-Hexanone	591-78-6	n.d.	UG/L	10.
Tetrachloroethene	127-18-4	n.d.	UG/L	5.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/L	5.
Toluene	108-88-3	n.d.	UG/L	5.
Chlorobenzene	108-90-7	n.d.	UG/L	5.
Ethylbenzene	100-41-4	n.d.	UG/L	5.
Styrene	100-42-5	n.d.	UG/L	5.
m,p-Xylene	133-02-7	n.d.	UG/L	5.
Xylene (total)	133-02-7	n.d.	UG/L	5.
1,3-Dichlorobenzene	541-73-1	n.d.	UG/L	5.
1,4-Dichlorobenzene	106-46-7	n.d.	UG/L	5.
1,2-Dichlorobenzene	95-50-1	n.d.	UG/L	5.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASL LAB Volatile Organics Test Results

Name Field: 94JLH0706-1

Blank:>TD054:PASS QaQc File: QVOLWM

Misc Field: 94-07-012-01A 5ML PU TB

Instrument: VOA1 Datafile: >TD057

Idfile: ID_VN1

Quantfile: ^TD057

Injection time: 15:07 on 07-12-94

Quant Time: 15:31 on 07-12-94

Continuing calibration time : 10:55 on 07-12-94 using the file: ^WVW22::D3

User dilfac:1 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/L	10.
Bromomethane	74-83-9	n.d.	UG/L	10.
Vinyl Chloride	75-01-4	n.d.	UG/L	10.
Chloroethane	75-00-3	n.d.	UG/L	10.
Methylene Chloride	75-09-2	7.	UG/L	5.
Acetone	67-64-1	n.d.	UG/L	10.
Carbon Disulfide	75-15-0	n.d.	UG/L	5.
1,1-Dichloroethene	75-35-4	n.d.	UG/L	5.
1,1-Dichloroethane	75-34-3	n.d.	UG/L	5.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/L	5.
Chloroform	67-66-3	n.d.	UG/L	5.
1,2-Dichloroethane	107-02-2	n.d.	UG/L	5.
2-Butanone	78-93-3	n.d.	UG/L	10.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/L	5.
Carbon Tetrachloride	56-23-5	n.d.	UG/L	5.
Bromodichloromethane	75-27-4	n.d.	UG/L	5.
1,2-Dichloropropane	78-87-5	n.d.	UG/L	5.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/L	5.
Trichloroethene	79-01-6	n.d.	UG/L	5.
Dibromochloromethane	124-48-1	n.d.	UG/L	5.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/L	5.
Benzene	71-43-2	n.d.	UG/L	5.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/L	5.
Bromoform	75-25-2	n.d.	UG/L	5.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/L	10.
2-Hexanone	591-78-6	n.d.	UG/L	10.
Tetrachloroethene	127-18-4	n.d.	UG/L	5.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/L	5.
Toluene	108-88-3	12.	UG/L	5.
Chlorobenzene	108-90-7	n.d.	UG/L	5.
Ethylbenzene	100-41-4	n.d.	UG/L	5.
Styrene	100-42-5	n.d.	UG/L	5.
m,p-Xylene	133-02-7	n.d.	UG/L	5.
Xylene (total)	133-02-7	n.d.	UG/L	5.
1,3-Dichlorobenzene	541-73-1	n.d.	UG/L	5.
1,4-Dichlorobenzene	106-46-7	n.d.	UG/L	5.
1,2-Dichlorobenzene	95-50-1	n.d.	UG/L	5.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASL LAB Volatile Organics Test Results

Name Field: 25-3110-1 Blank:>TD060:PASS QaQc File: QVOLWM
 Misc Field: 94-07-012-30A DLx2500 [5UL(4g/10MLMEOH)/5MLHOH]
 Instrument: VOA1 Datafile: >TD071 Idfile: ID_VN1 Quantfile: ^TD071

Injection time: 19:04 on 07-18-94 Quant Time: 19:37 on 07-18-94
 Continuing calibration time : 10:05 on 07-18-94 using the file: ^WVW32::D3
 User dilfac:2.5 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	MG/KG	25.
Bromomethane	74-83-9	n.d.	MG/KG	25.
Vinyl Chloride	75-01-4	n.d.	MG/KG	25.
Chloroethane	75-00-3	n.d.	MG/KG	25.
Methylene Chloride	75-09-2	n.d.	MG/KG	13.
Acetone	67-64-1	n.d.	MG/KG	25.
Carbon Disulfide	75-15-0	n.d.	MG/KG	13.
1,1-Dichloroethene	75-35-4	n.d.	MG/KG	13.
1,1-Dichloroethane	75-34-3	n.d.	MG/KG	13.
1,2-Dichloroethene (total)	540-59-0	n.d.	MG/KG	13.
Chloroform	67-66-3	n.d.	MG/KG	13.
1,2-Dichloroethane	107-02-2	n.d.	MG/KG	13.
2-Butanone	78-93-3	n.d.	MG/KG	25.
1,1,1-Trichloroethane	71-55-6	n.d.	MG/KG	13.
Carbon Tetrachloride	56-23-5	n.d.	MG/KG	13.
Bromodichloromethane	75-27-4	n.d.	MG/KG	13.
1,2-Dichloropropane	78-87-5	n.d.	MG/KG	13.
cis-1,3-Dichloropropene	10061-01-5	n.d.	MG/KG	13.
Trichloroethene	79-01-6	n.d.	MG/KG	13.
Dibromochloromethane	124-48-1	n.d.	MG/KG	13.
1,1,2-Trichloroethane	79-00-5	n.d.	MG/KG	13.
Benzene	71-43-2	n.d.	MG/KG	13.
trans-1,3-Dichloropropene	10061-02-6	n.d.	MG/KG	13.
Bromoform	75-25-2	n.d.	MG/KG	13.
4-Methyl-2-pentanone	108-10-1	n.d.	MG/KG	25.
2-Hexanone	591-78-6	n.d.	MG/KG	25.
Tetrachloroethene	127-18-4	n.d.	MG/KG	13.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	MG/KG	13.
Toluene	108-88-3	84.	MG/KG	13.
Chlorobenzene	108-90-7	n.d.	MG/KG	13.
Ethylbenzene	100-41-4	n.d.	MG/KG	13.
Styrene	100-42-5	n.d.	MG/KG	13.
m,p-Xylene	133-02-7	17.	MG/KG	13.
Xylene (total)	133-02-7	13.	MG/KG	13.
1,3-Dichlorobenzene	541-73-1	n.d.	MG/KG	13.
1,4-Dichlorobenzene	106-46-7	n.d.	MG/KG	13.
1,2-Dichlorobenzene	95-50-1	n.d.	MG/KG	13.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASD LAB Volatile Organics Test Results

Name Field: 25-3123-1 Blank:>TD060:PASS QaQc File: QVOLWM
 Misc Field: 94-07-012-09A DLx2500 [10UL(2g/10MLMEOH)/5MLHOH]
 Instrument: VOA1 Datafile: >TD065 Idfile: ID_VN1 Quantfile: ^TD065

Injection time: 15:19 on 07-18-94 Quant Time: 15:43 on 07-18-94
 Continuing calibration time : 10:05 on 07-18-94 using the file: ^WVW32::D3
 User dilfac:2.5 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	MG/KG	25.
Bromomethane	74-83-9	n.d.	MG/KG	25.
Vinyl Chloride	75-01-4	n.d.	MG/KG	25.
Chloroethane	75-00-3	n.d.	MG/KG	25.
Methylene Chloride	75-09-2	n.d.	MG/KG	13.
Acetone	67-64-1	n.d.	MG/KG	25.
Carbon Disulfide	75-15-0	n.d.	MG/KG	13.
1,1-Dichloroethene	75-35-4	n.d.	MG/KG	13.
1,1-Dichloroethane	75-34-3	n.d.	MG/KG	13.
1,2-Dichloroethene (total)	540-59-0	n.d.	MG/KG	13.
Chloroform	67-66-3	n.d.	MG/KG	13.
1,2-Dichloroethane	107-02-2	n.d.	MG/KG	13.
2-Butanone	78-93-3	n.d.	MG/KG	25.
1,1,1-Trichloroethane	71-55-6	n.d.	MG/KG	13.
Carbon Tetrachloride	56-23-5	n.d.	MG/KG	13.
Bromodichloromethane	75-27-4	n.d.	MG/KG	13.
1,2-Dichloropropane	78-87-5	n.d.	MG/KG	13.
cis-1,3-Dichloropropene	10061-01-5	n.d.	MG/KG	13.
Trichloroethene	79-01-6	n.d.	MG/KG	13.
Dibromochloromethane	124-48-1	n.d.	MG/KG	13.
1,1,2-Trichloroethane	79-00-5	n.d.	MG/KG	13.
Benzene	71-43-2	n.d.	MG/KG	13.
trans-1,3-Dichloropropene	10061-02-6	n.d.	MG/KG	13.
Bromoform	75-25-2	n.d.	MG/KG	13.
4-Methyl-2-pentanone	108-10-1	n.d.	MG/KG	25.
2-Hexanone	591-78-6	n.d.	MG/KG	25.
Tetrachloroethene	127-18-4	n.d.	MG/KG	13.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	MG/KG	13.
Toluene	108-88-3	34.	MG/KG	13.
Chlorobenzene	108-90-7	n.d.	MG/KG	13.
Ethylbenzene	100-41-4	80.	MG/KG	13.
Styrene	100-42-5	n.d.	MG/KG	13.
m,p-Xylene	133-02-7	260.	MG/KG	13.
Xylene (total)	133-02-7	120.	MG/KG	13.
1,3-Dichlorobenzene	541-73-1	n.d.	MG/KG	13.
1,4-Dichlorobenzene	106-46-7	n.d.	MG/KG	13.
1,2-Dichlorobenzene	95-50-1	n.d.	MG/KG	13.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASL LAB Volatile Organics Test Results

Name Field: 25-3123-1MS Blank:>TD060:PASS QaQc File: QVOLWM
 Misc Field: 94-07-012-09B DLx2500 [10UL(2g/10MLMEOH)/5MLHOH] M
 Instrument: VOA1 Datafile: >TD069 Idfile: ID_VN1 Quantfile: ^TD069

Injection time: 17:47 on 07-18-94 Quant Time: 18:20 on 07-18-94
 Continuing calibration time: 10:05 on 07-18-94 using the file: ^WVW32::D3
 User dilfac:2.5 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	MG/KG	25.
Bromomethane	74-83-9	n.d.	MG/KG	25.
Vinyl Chloride	75-01-4	n.d.	MG/KG	25.
Chloroethane	75-00-3	n.d.	MG/KG	25.
Methylene Chloride	75-09-2	n.d.	MG/KG	13.
Acetone	67-64-1	n.d.	MG/KG	25.
Carbon Disulfide	75-15-0	n.d.	MG/KG	13.
1,1-Dichloroethene	75-35-4	MS	MG/KG	13.
1,1-Dichloroethane	75-34-3	n.d.	MG/KG	13.
1,2-Dichloroethene (total)	540-59-0	n.d.	MG/KG	13.
Chloroform	67-66-3	n.d.	MG/KG	13.
1,2-Dichloroethane	107-02-2	n.d.	MG/KG	13.
2-Butanone	78-93-3	n.d.	MG/KG	25.
1,1,1-Trichloroethane	71-55-6	n.d.	MG/KG	13.
Carbon Tetrachloride	56-23-5	n.d.	MG/KG	13.
Bromodichloromethane	75-27-4	n.d.	MG/KG	13.
1,2-Dichloropropane	78-87-5	n.d.	MG/KG	13.
cis-1,3-Dichloropropene	10061-01-5	n.d.	MG/KG	13.
Trichloroethene	79-01-6	MS	MG/KG	13.
Dibromochloromethane	124-48-1	n.d.	MG/KG	13.
1,1,2-Trichloroethane	79-00-5	n.d.	MG/KG	13.
Benzene	71-43-2	MS	MG/KG	13.
trans-1,3-Dichloropropene	10061-02-6	n.d.	MG/KG	13.
Bromoform	75-25-2	n.d.	MG/KG	13.
4-Methyl-2-pentanone	108-10-1	n.d.	MG/KG	25.
2-Hexanone	591-78-6	n.d.	MG/KG	25.
Tetrachloroethene	127-18-4	n.d.	MG/KG	13.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	MG/KG	13.
Toluene	108-88-3	MS	MG/KG	13.
Chlorobenzene	108-90-7	MS	MG/KG	13.
Ethylbenzene	100-41-4	54.	MG/KG	13.
Styrene	100-42-5	n.d.	MG/KG	13.
m,p-Xylene	133-02-7	230.	MG/KG	13.
Xylene (total)	133-02-7	120.	MG/KG	13.
1,3-Dichlorobenzene	541-73-1	n.d.	MG/KG	13.
1,4-Dichlorobenzene	106-46-7	n.d.	MG/KG	13.
1,2-Dichlorobenzene	95-50-1	n.d.	MG/KG	13.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASL LAB Volatile Organics Test Results

Name Field: 25-3123-1MSD Blank:>TD060:PASS QaQc File: QVOLWM
 Misc Field: 94-07-012-09C DLx2500 [10UL(2g/10MLMEOH)/5MLHOH] M
 Instrument: VOA1 Datafile: >TD070 Idfile: ID_VN1 Quantfile: ^TD070

Injection time: 18:26 on 07-18-94 Quant Time: 18:59 on 07-18-94
 Continuing calibration time : 10:05 on 07-18-94 using the file: ^WVW32::D3
 User dilfac:2.5 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	MG/KG	25.
Bromomethane	74-83-9	n.d.	MG/KG	25.
Vinyl Chloride	75-01-4	n.d.	MG/KG	25.
Chloroethane	75-00-3	n.d.	MG/KG	25.
Methylene Chloride	75-09-2	n.d.	MG/KG	13.
Acetone	67-64-1	n.d.	MG/KG	25.
Carbon Disulfide	75-15-0	n.d.	MG/KG	13.
1,1-Dichloroethene	75-35-4	MS	MG/KG	13.
1,1-Dichloroethane	75-34-3	n.d.	MG/KG	13.
1,2-Dichloroethene (total)	540-59-0	n.d.	MG/KG	13.
Chloroform	67-66-3	n.d.	MG/KG	13.
1,2-Dichloroethane	107-02-2	n.d.	MG/KG	13.
2-Butanone	78-93-3	n.d.	MG/KG	25.
1,1,1-Trichloroethane	71-55-6	n.d.	MG/KG	13.
Carbon Tetrachloride	56-23-5	n.d.	MG/KG	13.
Bromodichloromethane	75-27-4	n.d.	MG/KG	13.
1,2-Dichloropropane	78-87-5	n.d.	MG/KG	13.
cis-1,3-Dichloropropene	10061-01-5	n.d.	MG/KG	13.
Trichloroethene	79-01-6	MS	MG/KG	13.
Dibromochloromethane	124-48-1	n.d.	MG/KG	13.
1,1,2-Trichloroethane	79-00-5	n.d.	MG/KG	13.
Benzene	71-43-2	MS	MG/KG	13.
trans-1,3-Dichloropropene	10061-02-6	n.d.	MG/KG	13.
Bromoform	75-25-2	n.d.	MG/KG	13.
4-Methyl-2-pentanone	108-10-1	n.d.	MG/KG	25.
2-Hexanone	591-78-6	n.d.	MG/KG	25.
Tetrachloroethene	127-18-4	n.d.	MG/KG	13.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	MG/KG	13.
Toluene	108-88-3	MS	MG/KG	13.
Chlorobenzene	108-90-7	MS	MG/KG	13.
Ethylbenzene	100-41-4	53.	MG/KG	13.
Styrene	100-42-5	n.d.	MG/KG	13.
m,p-Xylene	133-02-7	230.	MG/KG	13.
Xylene (total)	133-02-7	120.	MG/KG	13.
1,3-Dichlorobenzene	541-73-1	n.d.	MG/KG	13.
1,4-Dichlorobenzene	106-46-7	n.d.	MG/KG	13.
1,2-Dichlorobenzene	95-50-1	n.d.	MG/KG	13.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASI AB Volatile Organics T t Results

Name Field: 25-3123-1SB

Blank:>TD060:PASS QaQc File: QVOLWM

Misc Field: 94-07-012-02A 5ML PU

Instrument: VOAl

Datafile: >TD063

Idfile: ID_VN1

Quantfile: ^TD063

Injection time: 14:10 on 07-18-94

Quant Time: 14:34 on 07-18-94

Continuing calibration time : 10:05 on 07-18-94

using the file: ^WVW32::D3

User dilfac:1

Quant dilfac:

1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/L	10.
Bromomethane	74-83-9	n.d.	UG/L	10.
Vinyl Chloride	75-01-4	n.d.	UG/L	10.
Chloroethane	75-00-3	n.d.	UG/L	10.
Methylene Chloride	75-09-2	n.d.	UG/L	5.
Acetone	67-64-1	n.d.	UG/L	10.
Carbon Disulfide	75-15-0	n.d.	UG/L	5.
1,1-Dichloroethene	75-35-4	n.d.	UG/L	5.
1,1-Dichloroethane	75-34-3	n.d.	UG/L	5.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/L	5.
Chloroform	67-66-3	n.d.	UG/L	5.
1,2-Dichloroethane	107-02-2	n.d.	UG/L	5.
2-Butanone	78-93-3	n.d.	UG/L	10.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/L	5.
Carbon Tetrachloride	56-23-5	n.d.	UG/L	5.
Bromodichloromethane	75-27-4	n.d.	UG/L	5.
1,2-Dichloropropane	78-87-5	n.d.	UG/L	5.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/L	5.
Trichloroethene	79-01-6	n.d.	UG/L	5.
Dibromochloromethane	124-48-1	n.d.	UG/L	5.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/L	5.
Benzene	71-43-2	n.d.	UG/L	5.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/L	5.
Bromoform	75-25-2	n.d.	UG/L	5.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/L	10.
2-Hexanone	591-78-6	n.d.	UG/L	10.
Tetrachloroethene	127-18-4	n.d.	UG/L	5.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/L	5.
Toluene	108-88-3	n.d.	UG/L	5.
Chlorobenzene	108-90-7	n.d.	UG/L	5.
Ethylbenzene	100-41-4	n.d.	UG/L	5.
Styrene	100-42-5	n.d.	UG/L	5.
m,p-Xylene	133-02-7	n.d.	UG/L	5.
Xylene (total)	133-02-7	n.d.	UG/L	5.
1,3-Dichlorobenzene	541-73-1	n.d.	UG/L	5.
1,4-Dichlorobenzene	106-46-7	n.d.	UG/L	5.
1,2-Dichlorobenzene	95-50-1	n.d.	UG/L	5.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASD LAB Volatile Organics Test Results

Name Field: 25-3129-1 Blank:>TD060:PASS QaQc File: QVOLWM
 Misc Field: 94-07-012-16A DLx5K [5UL(2g/10MLMEOH)/5MLHOH]
 Instrument: VOA1 Datafile: >TD068 Idfile: ID_VN1 Quantfile: ^TD068

Injection time: 17:09 on 07-18-94 Quant Time: 17:42 on 07-18-94
 Continuing calibration time : 10:05 on 07-18-94 using the file: ^WVW32::D3
 User dilfac:5 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	MG/KG	50.
Bromomethane	74-83-9	n.d.	MG/KG	50.
Vinyl Chloride	75-01-4	n.d.	MG/KG	50.
Chloroethane	75-00-3	n.d.	MG/KG	50.
Methylene Chloride	75-09-2	27.	MG/KG	25.
Acetone	67-64-1	n.d.	MG/KG	50.
Carbon Disulfide	75-15-0	n.d.	MG/KG	25.
1,1-Dichloroethene	75-35-4	n.d.	MG/KG	25.
1,1-Dichloroethane	75-34-3	n.d.	MG/KG	25.
1,2-Dichloroethene (total)	540-59-0	n.d.	MG/KG	25.
Chloroform	67-66-3	n.d.	MG/KG	25.
1,2-Dichloroethane	107-02-2	n.d.	MG/KG	25.
2-Butanone	78-93-3	n.d.	MG/KG	50.
1,1,1-Trichloroethane	71-55-6	n.d.	MG/KG	25.
Carbon Tetrachloride	56-23-5	n.d.	MG/KG	25.
Bromodichloromethane	75-27-4	n.d.	MG/KG	25.
1,2-Dichloropropane	78-87-5	n.d.	MG/KG	25.
cis-1,3-Dichloropropene	10061-01-5	n.d.	MG/KG	25.
Trichloroethene	79-01-6	n.d.	MG/KG	25.
Dibromochloromethane	124-48-1	n.d.	MG/KG	25.
1,1,2-Trichloroethane	79-00-5	n.d.	MG/KG	25.
Benzene	71-43-2	n.d.	MG/KG	25.
trans-1,3-Dichloropropene	10061-02-6	n.d.	MG/KG	25.
Bromoform	75-25-2	n.d.	MG/KG	25.
4-Methyl-2-pentanone	108-10-1	n.d.	MG/KG	50.
2-Hexanone	591-78-6	n.d.	MG/KG	50.
Tetrachloroethene	127-18-4	n.d.	MG/KG	25.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	MG/KG	25.
Toluene	108-88-3	n.d.	MG/KG	25.
Chlorobenzene	108-90-7	n.d.	MG/KG	25.
Ethylbenzene	100-41-4	57.	MG/KG	25.
Styrene	100-42-5	n.d.	MG/KG	25.
m,p-Xylene	133-02-7	220.	MG/KG	25.
Xylene (total)	133-02-7	120.	MG/KG	25.
1,3-Dichlorobenzene	541-73-1	n.d.	MG/KG	25.
1,4-Dichlorobenzene	106-46-7	n.d.	MG/KG	25.
1,2-Dichlorobenzene	95-50-1	n.d.	MG/KG	25.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASI AB Volatile Organics T : Results

Name Field: 26-2205-1 Blank:>TD060:PASS QaQc File: QVOLWM
 Misc Field: 94-07-012-23A DLx625 [20UL(4g/10MLMEOH)/5MLHOH]
 Instrument: VOA1 Datafile: >TD067 Idfile: ID_VN1 Quantfile: ^TD067

Injection time: 16:30 on 07-18-94 Quant Time: 17:03 on 07-18-94
 Continuing calibration time : 10:05 on 07-18-94 using the file: ^WVW32::D3
 User dilfac:625 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/KG	6300.
Bromomethane	74-83-9	n.d.	UG/KG	6300.
Vinyl Chloride	75-01-4	n.d.	UG/KG	6300.
Chloroethane	75-00-3	n.d.	UG/KG	6300.
Methylene Chloride	75-09-2	n.d.	UG/KG	3100.
Acetone	67-64-1	n.d.	UG/KG	6300.
Carbon Disulfide	75-15-0	n.d.	UG/KG	3100.
1,1-Dichloroethene	75-35-4	n.d.	UG/KG	3100.
1,1-Dichloroethane	75-34-3	n.d.	UG/KG	3100.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/KG	3100.
Chloroform	67-66-3	n.d.	UG/KG	3100.
1,2-Dichloroethane	107-02-2	n.d.	UG/KG	3100.
2-Butanone	78-93-3	n.d.	UG/KG	6300.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/KG	3100.
Carbon Tetrachloride	56-23-5	n.d.	UG/KG	3100.
Bromodichloromethane	75-27-4	n.d.	UG/KG	3100.
1,2-Dichloropropane	78-87-5	n.d.	UG/KG	3100.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/KG	3100.
Trichloroethene	79-01-6	n.d.	UG/KG	3100.
Dibromochloromethane	124-48-1	n.d.	UG/KG	3100.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/KG	3100.
Benzene	71-43-2	n.d.	UG/KG	3100.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/KG	3100.
Bromoform	75-25-2	n.d.	UG/KG	3100.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/KG	6300.
2-Hexanone	591-78-6	n.d.	UG/KG	6300.
Tetrachloroethene	127-18-4	n.d.	UG/KG	3100.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/KG	3100.
Toluene	108-88-3	n.d.	UG/KG	3100.
Chlorobenzene	108-90-7	n.d.	UG/KG	3100.
Ethylbenzene	100-41-4	n.d.	UG/KG	3100.
Styrene	100-42-5	n.d.	UG/KG	3100.
m,p-Xylene	133-02-7	n.d.	UG/KG	3100.
Xylene (total)	133-02-7	n.d.	UG/KG	3100.
1,3-Dichlorobenzene	541-73-1	n.d.	UG/KG	3100.
1,4-Dichlorobenzene	106-46-7	n.d.	UG/KG	3100.
1,2-Dichlorobenzene	95-50-1	n.d.	UG/KG	3100.

n.d. - not detected

Approved by: _____

EPA 624/8240: REECO ASD LAB Volatile Organics Test Results

QaQc File: QVOLWM

Quantfile: ^TD060

Quant Time: 11:21 on 07-18-94

User diltfac:1 Quant diltfac: 1. Multi-calibration: 13:17 on 01-19-93

User dilfac:1 Quant dilfac:

1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Allowed	Blank Flag
Chloromethane	74-87-3	n.d.	10.0	ok
Bromomethane	74-83-9	n.d.	10.0	ok
Vinyl Chloride	75-01-4	n.d.	10.0	ok
Chloroethane	75-00-3	n.d.	10.0	ok
Methylene Chloride	75-09-2	n.d.	25.0	ok
Acetone	67-64-1	n.d.	50.0	ok
Carbon Disulfide	75-15-0	n.d.	5.0	ok
1,1-Dichloroethene	75-35-4	n.d.	5.0	ok
1,1-Dichloroethane	75-34-3	n.d.	5.0	ok
1,2-Dichloroethene (total)	540-59-0	n.d.	5.0	ok
Chloroform	67-66-3	n.d.	5.0	ok
1,2-Dichloroethane	107-02-2	n.d.	5.0	ok
2-Butanone	78-93-3	n.d.	50.0	ok
1,1,1-Trichloroethane	71-55-6	n.d.	5.0	ok
Carbon Tetrachloride	56-23-5	n.d.	5.0	ok
Bromodichloromethane	75-27-4	n.d.	5.0	ok
1,2-Dichloropropane	78-87-5	n.d.	5.0	ok
cis-1,3-Dichloropropene	10061-01-5	n.d.	5.0	ok
Trichloroethene	79-01-6	n.d.	5.0	ok
Dibromochloromethane	124-48-1	n.d.	5.0	ok
1,1,2-Trichloroethane	79-00-5	n.d.	5.0	ok
Benzene	71-43-2	n.d.	5.0	ok
trans-1,3-Dichloropropene	10061-02-6	n.d.	5.0	ok
Bromoform	75-25-2	n.d.	5.0	ok
4-Methyl-2-pentanone	108-10-1	n.d.	10.0	ok
2-Hexanone	591-78-6	n.d.	10.0	ok
Tetrachloroethene	127-18-4	n.d.	5.0	ok
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	5.0	ok
Toluene	108-88-3	n.d.	25.0	ok
Chlorobenzene	108-90-7	n.d.	5.0	ok
Ethylbenzene	100-41-4	n.d.	5.0	ok
Styrene	100-42-5	n.d.	5.0	ok
m,p-Xylene	133-02-7	n.d.	5.0	ok
Xylene (total)	133-02-7	n.d.	5.0	ok
1,3-Dichlorobenzene	541-73-1	n.d.	5.0	ok
1,4-Dichlorobenzene	106-46-7	n.d.	5.0	ok
1,2-Dichlorobenzene	95-50-1	n.d.	5.0	ok

n.d. - not detected

Approved by:

EPA 624/8240: REECO ASD LAB Volatile Organics Test Results

Name Field: XVBLK5Z Blank:>TD060:PASS QaQc File: QVOLWM
 Misc Field: MEOH XTR BLK DLx50 [100UL/5MLHOH]
 Instrument: VOA1 Datafile: >TD062 Idfile: ID_VN1 Quantfile: ^TD062

Injection time: 13:42 on 07-18-94 Quant Time: 14:06 on 07-18-94
 Continuing calibration time : 10:05 on 07-18-94 using the file: ^WVW32::D3
 User dilfac:50 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/L	500.
Bromomethane	74-83-9	n.d.	UG/L	500.
Vinyl Chloride	75-01-4	n.d.	UG/L	500.
Chloroethane	75-00-3	n.d.	UG/L	500.
Methylene Chloride	75-09-2	n.d.	UG/L	250.
Acetone	67-64-1	n.d.	UG/L	500.
Carbon Disulfide	75-15-0	n.d.	UG/L	250.
1,1-Dichloroethene	75-35-4	n.d.	UG/L	250.
1,1-Dichloroethane	75-34-3	n.d.	UG/L	250.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/L	250.
Chloroform	67-66-3	n.d.	UG/L	250.
1,2-Dichloroethane	107-02-2	n.d.	UG/L	250.
2-Butanone	78-93-3	n.d.	UG/L	500.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/L	250.
Carbon Tetrachloride	56-23-5	n.d.	UG/L	250.
Bromodichloromethane	75-27-4	n.d.	UG/L	250.
1,2-Dichloropropane	78-87-5	n.d.	UG/L	250.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/L	250.
Trichloroethene	79-01-6	n.d.	UG/L	250.
Dibromochloromethane	124-48-1	n.d.	UG/L	250.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/L	250.
Benzene	71-43-2	n.d.	UG/L	250.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/L	250.
Bromoform	75-25-2	n.d.	UG/L	250.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/L	500.
2-Hexanone	591-78-6	n.d.	UG/L	500.
Tetrachloroethene	127-18-4	n.d.	UG/L	250.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/L	250.
Toluene	108-88-3	n.d.	UG/L	250.
Chlorobenzene	108-90-7	n.d.	UG/L	250.
Ethylbenzene	100-41-4	n.d.	UG/L	250.
Styrene	100-42-5	n.d.	UG/L	250.
m,p-Xylene	133-02-7	n.d.	UG/L	250.
Xylene (total)	133-02-7	n.d.	UG/L	250.
1,3-Dichlorobenzene	541-73-1	n.d.	UG/L	250.
1,4-Dichlorobenzene	106-46-7	n.d.	UG/L	250.
1,2-Dichlorobenzene	95-50-1	n.d.	UG/L	250.

n.d. - not detected

Approved by: _____

SEMIVOLATILES DATA

ANALYST NOTES: BNA

Date: July 25, 1994

Lab Work Order No.: 94-07-012

Client Sample ID.: SBLK070794-3

25-3123-1-SB (AQUEOUS)

(OILS) 25-3123-1, 25-3129-1, 26-2205-1, 25-3110-1

Analyst:

Phil Briggs

The samples were analyzed on a Hewlett Packard 5890 GC/5970 MSD. Data were collected on an HP 1000/RTE-A data system. Instrumental parameters used are those specified in **SW-846** 3rd edition, September, 1986, METHOD 8270 (for capillary column GC).

The target analytes are listed with their CAS numbers, and the amount of the target compound found in ug/L or ug/kg, depending on the matrix (water or soil, respectively). If the analyte was not found in the sample, the quantitation limit is reported preceded by an n.d. qualifier in the "result" column. The qualifiers used in this reporting format are:

n.d.:- Indicates compound was analyzed for but not detected. Indicates an estimated value. Indicates the presence of a compound that meets the identification criteria, but the result is less than the sample quantitation limit but greater than zero.

B- This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.

E- This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D- This flag identifies all compounds identified in an analysis at a secondary dilution factor.

Naming convention changes for the TCLP: Where SW 846 and CLP refer to methylphenols, the TCLP refers to the same compounds as cresols..

Case Narrative:

The oil samples demonstrated strong matrix effects in that both surrogate and internal standard recoveries failed low in most of the samples. These QC failures repeated upon re-analysis of the samples. One sample required dilution by a factor of three. Quantitative results for the oils should be considered estimated values only.

No problems were encountered with the analyses of the aqueous samples which were very clean and not contaminated by oil.

Name Field: 25-3123-1

Blank:NONE :PASS QaQc File: QS90SM

Misc Field: 94-07-012-10A

Instrument: BNA1

Datafile: >SD755

Idfile: ID_B1X

Quantfile: ^SD755

Injection time: 16:18 on 07-20-94

Quant Time: 17:01 on 07-20-94

Continuing calibration time : 12:47 on 07-20-94 using the file: ^SC313::D5

User dilfac:10000 Quant dilfac: 1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	100000.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	100000.
2-Chlorophenol	95-57-8	n.d.	ug/kg	100000.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	100000.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	100000.
Benzyl alcohol	100-51-6	n.d.	ug/kg	100000.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	100000.
2-Methylphenol	95-48-7	n.d.	ug/kg	100000.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	100000.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	100000.
4-Methylphenol	106-44-5	n.d.	ug/kg	100000.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	100000.
Hexachloroethane	67-72-1	n.d.	ug/kg	100000.
Nitrobenzene	98-95-3	n.d.	ug/kg	100000.
Isophorone	78-59-1	n.d.	ug/kg	100000.
2-Nitrophenol	88-75-5	n.d.	ug/kg	100000.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	100000.
Benzoic acid	65-85-0	n.d.	ug/kg	500000.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	100000.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	100000.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	100000.
Naphthalene	91-20-3	710000.	ug/kg	100000.
4-Chloroaniline	106-47-8	n.d.	ug/kg	100000.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	100000.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	100000.
2-Methylnaphthalene	91-57-6	1200000.	ug/kg	100000.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	100000.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	100000.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	500000.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	100000.
2-Nitroaniline	88-74-4	n.d.	ug/kg	500000.
Dimethylphthalate	131-11-3	n.d.	ug/kg	100000.
Acenaphthylene	208-96-8	n.d.	ug/kg	100000.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	100000.
3-Nitroaniline	99-09-2	n.d.	ug/kg	500000.
Acenaphthene	83-32-9	n.d.	ug/kg	100000.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	500000.
4-Nitrophenol	100-02-7	n.d.	ug/kg	500000.
Dibenzofuran	132-64-9	n.d.	ug/kg	100000.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	100000.
Diethylphthalate	84-66-2	n.d.	ug/kg	100000.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	100000.
Fluorene	86-73-7	n.d.	ug/kg	100000.
4-Nitroaniline	100-01-6	n.d.	ug/kg	500000.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3123-1
Misc Field: 94-07-012-10A
Instrument: BNA1

Blank:NONE :PASS QaQc File: QS90SM
Datafile: >SD755 Idfile: ID_B1X Quantfile: ^SD755

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	500000.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	100000.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	100000.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	100000.
Pentachlorophenol	87-86-5	n.d.	ug/kg	500000.
Phenanthrene	85-01-8	n.d.	ug/kg	100000.
Anthracene	120-12-7	400000.	ug/kg	100000.
Carbazole	86-74-8	n.d.	ug/kg	100000.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	100000.
Fluoranthene	206-44-0	n.d.	ug/kg	100000.
Pyrene	129-00-0	n.d.	ug/kg	100000.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	100000.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	200000.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	100000.
Chrysene	218-01-9	n.d.	ug/kg	100000.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	100000.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	100000.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	100000.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	100000.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	100000.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	100000.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	100000.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	100000.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3123-1RE
 Misc Field: 94-07-012-10A
 Instrument: BNA1

Blank: NONE :PASS QaQc File: QS90SM
 Datafile: >SD757 Idfile: ID_B1X Quantfile: ^SD757

Injection time: 18:36 on 07-20-94 Quant Time: 19:19 on 07-20-94
 Continuing calibration time : 12:47 on 07-20-94 using the file: ^SC313::D5
 User dilfac:10000 Quant dilfac: 1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	100000.
bis(2-Chloroethyl) ether	111-44-4	n.d.	ug/kg	100000.
2-Chlorophenol	95-57-8	n.d.	ug/kg	100000.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	100000.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	100000.
Benzyl alcohol	100-51-6	n.d.	ug/kg	100000.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	100000.
2-Methylphenol	95-48-7	n.d.	ug/kg	100000.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	100000.
bis(2-Chloroisopropyl) ether	39638-32-9	n.d.	ug/kg	100000.
4-Methylphenol	106-44-5	n.d.	ug/kg	100000.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	100000.
Hexachloroethane	67-72-1	n.d.	ug/kg	100000.
Nitrobenzene	98-95-3	n.d.	ug/kg	100000.
Isophorone	78-59-1	n.d.	ug/kg	100000.
2-Nitrophenol	88-75-5	n.d.	ug/kg	100000.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	100000.
Benzoic acid	65-85-0	n.d.	ug/kg	500000.
bis(2-Chloroethoxy) methane	111-91-1	n.d.	ug/kg	100000.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	100000.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	100000.
Naphthalene	91-20-3	650000.	ug/kg	100000.
4-Chloroaniline	106-47-8	n.d.	ug/kg	100000.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	100000.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	100000.
2-Methylnaphthalene	91-57-6	530000.	ug/kg	100000.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	100000.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	100000.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	500000.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	100000.
2-Nitroaniline	88-74-4	n.d.	ug/kg	500000.
Dimethylphthalate	131-11-3	n.d.	ug/kg	100000.
Acenaphthylene	208-96-8	n.d.	ug/kg	100000.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	100000.
3-Nitroaniline	99-09-2	n.d.	ug/kg	500000.
Acenaphthene	83-32-9	n.d.	ug/kg	100000.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	500000.
4-Nitrophenol	100-02-7	n.d.	ug/kg	500000.
Dibenzofuran	132-64-9	n.d.	ug/kg	100000.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	100000.
Diethylphthalate	84-66-2	n.d.	ug/kg	100000.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	100000.
Fluorene	86-73-7	n.d.	ug/kg	100000.
4-Nitroaniline	100-01-6	n.d.	ug/kg	500000.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3123-1RE

Blank:NONE :PASS QaQc File: QS90SM

Misc Field: 94-07-012-10A

Instrument: BNA1

Datafile: >SD757

Idfile: ID_B1X

Quantfile: ^SD757

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	500000.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	100000.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	100000.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	100000.
Pentachlorophenol	87-86-5	n.d.	ug/kg	500000.
Phenanthrene	85-01-8	n.d.	ug/kg	100000.
Anthracene	120-12-7	430000.	ug/kg	100000.
Carbazole	86-74-8	n.d.	ug/kg	100000.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	100000.
Fluoranthene	206-44-0	n.d.	ug/kg	100000.
Pyrene	129-00-0	n.d.	ug/kg	100000.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	100000.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	200000.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	100000.
Chrysene	218-01-9	n.d.	ug/kg	100000.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	100000.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	100000.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	100000.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	100000.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	100000.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	100000.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	100000.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	100000.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Water Test Results

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Name Field: 25-3123-1-SB

Blank: ^SD730:PASS QaQc File: QS90WM

Misc Field: 94-07-012-03A

Instrument: BNA1

Datafile: >SD731

Idfile: ID_B1X

Quantfile: ^SD731

Injection time: 13:56 on 07-11-94

Quant Time: 14:39 on 07-11-94

Continuing calibration time : 11:11 on 07-11-94 using the file: ^SC306::D5

User dilfac:1 Quant dilfac: 1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/l	10.
bis(2-Chloroethyl) ether	111-44-4	n.d.	ug/l	10.
2-Chlorophenol	95-57-8	n.d.	ug/l	10.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/l	10.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/l	10.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/l	10.
2-Methylphenol	95-48-7	n.d.	ug/l	10.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/l	10.
bis(2-Chloroisopropyl) ether	39638-32-9	n.d.	ug/l	10.
4-Methylphenol	106-44-5	n.d.	ug/l	10.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/l	10.
Hexachloroethane	67-72-1	n.d.	ug/l	10.
Nitrobenzene	98-95-3	n.d.	ug/l	10.
Isophorone	78-59-1	n.d.	ug/l	10.
2-Nitrophenol	88-75-5	n.d.	ug/l	10.
2,4-Dimethylphenol	105-67-9	n.d.	ug/l	10.
bis(2-Chloroethoxy) methane	111-91-1	n.d.	ug/l	10.
2,4-Dichlorophenol	120-83-2	n.d.	ug/l	10.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/l	10.
Naphthalene	91-20-3	n.d.	ug/l	10.
4-Chloroaniline	106-47-8	n.d.	ug/l	10.
Hexachlorobutadiene	87-68-3	n.d.	ug/l	10.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/l	10.
2-Methylnaphthalene	91-57-6	n.d.	ug/l	10.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/l	10.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/l	10.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/l	50.
2-Chloronaphthalene	91-58-7	n.d.	ug/l	10.
2-Nitroaniline	88-74-4	n.d.	ug/l	50.
Dimethylphthalate	131-11-3	n.d.	ug/l	10.
Acenaphthylene	208-96-8	n.d.	ug/l	10.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/l	10.
3-Nitroaniline	99-09-2	n.d.	ug/l	50.
Acenaphthene	83-32-9	n.d.	ug/l	10.
2,4-Dinitrophenol	51-28-5	n.d.	ug/l	50.
4-Nitrophenol	100-02-7	n.d.	ug/l	50.
Dibenzofuran	132-64-9	n.d.	ug/l	10.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/l	10.
Diethylphthalate	84-66-2	n.d.	ug/l	10.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/l	10.
Fluorene	86-73-7	n.d.	ug/l	10.
4-Nitroaniline	100-01-6	n.d.	ug/l	50.
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/l	50.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/l	10.

EPA 625/8270 Semivolatile Organics Water Test Results
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Name Field: 25-3123-1-SB Blank: ^SD730:PASS QaQc File: QS90WM
 Misc Field: 94-07-012-03A
 Instrument: BNA1 Datafile: >SD731 Idfile: ID_B1X Quantfile: ^SD731

Compound Name	CAS Number	Result	Units	Detection Limit
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/l	10.
Hexachlorobenzene	118-74-1	n.d.	ug/l	10.
Pentachlorophenol	87-86-5	n.d.	ug/l	50.
Phenanthrene	85-01-8	n.d.	ug/l	10.
Anthracene	120-12-7	n.d.	ug/l	10.
Carbazole	86-74-8	n.d.	ug/l	10.
Di-n-butylphthalate	84-74-2	n.d.	ug/l	10.
Fluoranthene	206-44-0	n.d.	ug/l	10.
Pyrene	129-00-0	n.d.	ug/l	10.
Butylbenzylphthalate	85-68-7	n.d.	ug/l	10.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/l	20.
Benzo(a)anthracene	56-55-3	n.d.	ug/l	10.
Chrysene	218-01-9	n.d.	ug/l	10.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/l	10.
Di-n-octylphthalate	117-84-0	n.d.	ug/l	10.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/l	10.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/l	10.
Benzo(a)pyrene	50-32-8	n.d.	ug/l	10.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/l	10.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/l	10.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/l	10.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3129-1

Blank:NONE :PASS QaQc File: QS90SM

Misc Field: 94-07-012-17A

Instrument: BNA1

Datafile: >SD756

Idfile: ID_B1X

Quantfile: ^SD756

Injection time: 17:09 on 07-20-94

Quant Time: 17:52 on 07-20-94

Continuing calibration time : 12:47 on 07-20-94

using the file: ^SC313::D5

User dilfac:10000 Quant dilfac:

1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	100000.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	100000.
2-Chlorophenol	95-57-8	n.d.	ug/kg	100000.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	100000.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	100000.
Benzyl alcohol	100-51-6	n.d.	ug/kg	100000.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	100000.
2-Methylphenol	95-48-7	n.d.	ug/kg	100000.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	100000.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	100000.
4-Methylphenol	106-44-5	n.d.	ug/kg	100000.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	100000.
Hexachloroethane	67-72-1	n.d.	ug/kg	100000.
Nitrobenzene	98-95-3	n.d.	ug/kg	100000.
Isophorone	78-59-1	n.d.	ug/kg	100000.
2-Nitrophenol	88-75-5	n.d.	ug/kg	100000.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	100000.
Benzoic acid	65-85-0	n.d.	ug/kg	500000.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	100000.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	100000.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	100000.
Naphthalene	91-20-3	510000.	ug/kg	100000.
4-Chloroaniline	106-47-8	n.d.	ug/kg	100000.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	100000.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	100000.
2-Methylnaphthalene	91-57-6	2800000.	ug/kg	100000.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	100000.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	100000.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	500000.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	100000.
2-Nitroaniline	88-74-4	n.d.	ug/kg	500000.
Dimethylphthalate	131-11-3	n.d.	ug/kg	100000.
Acenaphthylene	208-96-8	n.d.	ug/kg	100000.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	100000.
3-Nitroaniline	99-09-2	n.d.	ug/kg	500000.
Acenaphthene	83-32-9	n.d.	ug/kg	100000.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	500000.
4-Nitrophenol	100-02-7	n.d.	ug/kg	500000.
Dibenzofuran	132-64-9	n.d.	ug/kg	100000.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	100000.
Diethylphthalate	84-66-2	n.d.	ug/kg	100000.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	100000.
Fluorene	86-73-7	n.d.	ug/kg	100000.
4-Nitroaniline	100-01-6	n.d.	ug/kg	500000.

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Name Field: 25-3129-1 Blank:NONE :PASS QaQc File: QS90SM
Misc Field: 94-07-012-17A
Instrument: BNA1 Datafile: >SD756 Idfile: ID_B1X Quantfile: ^SD756

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	500000.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	100000.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	100000.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	100000.
Pentachlorophenol	87-86-5	n.d.	ug/kg	500000.
Phenanthrene	85-01-8	n.d.	ug/kg	100000.
Anthracene	120-12-7	310000.	ug/kg	100000.
Carbazole	86-74-8	n.d.	ug/kg	100000.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	100000.
Fluoranthene	206-44-0	n.d.	ug/kg	100000.
Pyrene	129-00-0	n.d.	ug/kg	100000.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	100000.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	200000.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	100000.
Chrysene	218-01-9	n.d.	ug/kg	100000.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	100000.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	100000.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	100000.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	100000.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	100000.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	100000.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	100000.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	100000.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3129-1 DL Blank:NONE :PASS QaQc File: QS90SM
Misc Field: 94-07-012-17A DLx3
Instrument: BNA1 Datafile: >SD763 Idfile: ID_B1X Quantfile: ^SD763

Injection time: 17:48 on 07-21-94 Quant Time: 18:32 on 07-21-94
Continuing calibration time : 15:58 on 07-21-94 using the file: ^SC314::D5
User dilfac:30000 Quant dilfac: 1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	300000.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	300000.
2-Chlorophenol	95-57-8	n.d.	ug/kg	300000.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	300000.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	300000.
Benzyl alcohol	100-51-6	n.d.	ug/kg	300000.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	300000.
2-Methylphenol	95-48-7	n.d.	ug/kg	300000.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	300000.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	300000.
4-Methylphenol	106-44-5	n.d.	ug/kg	300000.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	300000.
Hexachloroethane	67-72-1	n.d.	ug/kg	300000.
Nitrobenzene	98-95-3	n.d.	ug/kg	300000.
Isophorone	78-59-1	n.d.	ug/kg	300000.
2-Nitrophenol	88-75-5	n.d.	ug/kg	300000.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	300000.
Benzoic acid	65-85-0	n.d.	ug/kg	1500000.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	300000.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	300000.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	300000.
Naphthalene	91-20-3	n.d.	ug/kg	300000.
4-Chloroaniline	106-47-8	n.d.	ug/kg	300000.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	300000.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	300000.
2-Methylnaphthalene	91-57-6	1600000.	ug/kg	300000.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	300000.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	300000.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1500000.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	300000.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1500000.
Dimethylphthalate	131-11-3	n.d.	ug/kg	300000.
Acenaphthylene	208-96-8	n.d.	ug/kg	300000.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	300000.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1500000.
Acenaphthene	83-32-9	n.d.	ug/kg	300000.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1500000.
4-Nitrophenol	100-02-7	n.d.	ug/kg	1500000.
Dibenzofuran	132-64-9	n.d.	ug/kg	300000.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	300000.
Diethylphthalate	84-66-2	n.d.	ug/kg	300000.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	300000.
Fluorene	86-73-7	n.d.	ug/kg	300000.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1500000.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3129-1 DL Blank:NONE :PASS QaQc File: QS90SM
Misc Field: 94-07-012-17A DLx3
Instrument: BNA1 Datafile: >SD763 Idfile: ID_B1X Quantfile: ^SD763

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1500000.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	300000.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	300000.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	300000.
Pentachlorophenol	87-86-5	n.d.	ug/kg	1500000.
Phenanthrene	85-01-8	n.d.	ug/kg	300000.
Anthracene	120-12-7	n.d.	ug/kg	300000.
Carbazole	86-74-8	n.d.	ug/kg	300000.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	300000.
Fluoranthene	206-44-0	n.d.	ug/kg	300000.
Pyrene	129-00-0	n.d.	ug/kg	300000.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	300000.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	600000.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	300000.
Chrysene	218-01-9	n.d.	ug/kg	300000.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	300000.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	300000.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	300000.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	300000.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	300000.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	300000.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	300000.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	300000.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3110-1

Blank:NONE :PASS QaQc File: QS90SM

Misc Field: 94-07-012-31A

Instrument: BNA1

Datafile: >SD761

Idfile: ID_B1X

Quantfile: ^SD761

Injection time: 22:02 on 07-20-94

Quant Time: 22:45 on 07-20-94

Continuing calibration time : 12:47 on 07-20-94

using the file: ^SC313::D5

User dilfac:10000 Quant dilfac:

1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	100000.
bis(2-Chloroethyl) ether	111-44-4	n.d.	ug/kg	100000.
2-Chlorophenol	95-57-8	n.d.	ug/kg	100000.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	100000.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	100000.
Benzyl alcohol	100-51-6	n.d.	ug/kg	100000.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	100000.
2-Methylphenol	95-48-7	n.d.	ug/kg	100000.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	100000.
bis(2-Chloroisopropyl) ether	39638-32-9	n.d.	ug/kg	100000.
4-Methylphenol	106-44-5	n.d.	ug/kg	100000.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	100000.
Hexachloroethane	67-72-1	n.d.	ug/kg	100000.
Nitrobenzene	98-95-3	n.d.	ug/kg	100000.
Isophorone	78-59-1	n.d.	ug/kg	100000.
2-Nitrophenol	88-75-5	n.d.	ug/kg	100000.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	100000.
Benzoic acid	65-85-0	n.d.	ug/kg	500000.
bis(2-Chloroethoxy) methane	111-91-1	n.d.	ug/kg	100000.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	100000.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	100000.
Naphthalene	91-20-3	910000.	ug/kg	100000.
4-Chloroaniline	106-47-8	n.d.	ug/kg	100000.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	100000.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	100000.
2-Methylnaphthalene	91-57-6	1600000.	ug/kg	100000.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	100000.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	100000.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	500000.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	100000.
2-Nitroaniline	88-74-4	n.d.	ug/kg	500000.
Dimethylphthalate	131-11-3	n.d.	ug/kg	100000.
Acenaphthylene	208-96-8	n.d.	ug/kg	100000.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	100000.
3-Nitroaniline	99-09-2	n.d.	ug/kg	500000.
Acenaphthene	83-32-9	n.d.	ug/kg	100000.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	500000.
4-Nitrophenol	100-02-7	n.d.	ug/kg	500000.
Dibenzofuran	132-64-9	n.d.	ug/kg	100000.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	100000.
Diethylphthalate	84-66-2	n.d.	ug/kg	100000.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	100000.
Fluorene	86-73-7	n.d.	ug/kg	100000.
4-Nitroaniline	100-01-6	n.d.	ug/kg	500000.

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Name Field: 25-3110-1 Blank:NONE :PASS QaQc File: QS90SM
Misc Field: 94-07-012-31A
Instrument: BNA1 Datafile: >SD761 Idfile: ID_B1X Quantfile: ^SD761

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	500000.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	100000.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	100000.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	100000.
Pentachlorophenol	87-86-5	n.d.	ug/kg	500000.
Phenanthrene	85-01-8	n.d.	ug/kg	100000.
Anthracene	120-12-7	n.d.	ug/kg	100000.
Carbazole	86-74-8	n.d.	ug/kg	100000.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	100000.
Fluoranthene	206-44-0	n.d.	ug/kg	100000.
Pyrene	129-00-0	n.d.	ug/kg	100000.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	100000.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	200000.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	100000.
Chrysene	218-01-9	n.d.	ug/kg	100000.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	100000.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	100000.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	100000.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	100000.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	100000.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	100000.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	100000.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	100000.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3110-1RE Blank: NONE :PASS QaQc File: QS90SM
Misc Field: 94-07-012-31A
Instrument: BNA1 Datafile: >SD762 Idfile: ID_B1X Quantfile: ^SD762

Injection time: 22:53 on 07-20-94 Quant Time: 23:36 on 07-20-94
Continuing calibration time : 12:47 on 07-20-94 using the file: ^SC313::D5
User dilfac:10000 Quant dilfac: 1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	100000.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	100000.
2-Chlorophenol	95-57-8	n.d.	ug/kg	100000.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	100000.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	100000.
Benzyl alcohol	100-51-6	n.d.	ug/kg	100000.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	100000.
2-Methylphenol	95-48-7	n.d.	ug/kg	100000.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	100000.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	100000.
4-Methylphenol	106-44-5	n.d.	ug/kg	100000.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	100000.
Hexachloroethane	67-72-1	n.d.	ug/kg	100000.
Nitrobenzene	98-95-3	n.d.	ug/kg	100000.
Isophorone	78-59-1	n.d.	ug/kg	100000.
2-Nitrophenol	88-75-5	n.d.	ug/kg	100000.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	100000.
Benzoic acid	65-85-0	n.d.	ug/kg	500000.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	100000.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	100000.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	100000.
Naphthalene	91-20-3	810000.	ug/kg	100000.
4-Chloroaniline	106-47-8	n.d.	ug/kg	100000.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	100000.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	100000.
2-Methylnaphthalene	91-57-6	1400000.	ug/kg	100000.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	100000.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	100000.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	500000.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	100000.
2-Nitroaniline	88-74-4	n.d.	ug/kg	500000.
Dimethylphthalate	131-11-3	n.d.	ug/kg	100000.
Acenaphthylene	208-96-8	n.d.	ug/kg	100000.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	100000.
3-Nitroaniline	99-09-2	n.d.	ug/kg	500000.
Acenaphthene	83-32-9	n.d.	ug/kg	100000.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	500000.
4-Nitrophenol	100-02-7	n.d.	ug/kg	500000.
Dibenzofuran	132-64-9	n.d.	ug/kg	100000.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	100000.
Diethylphthalate	84-66-2	n.d.	ug/kg	100000.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	100000.
Fluorene	86-73-7	n.d.	ug/kg	100000.
4-Nitroaniline	100-01-6	n.d.	ug/kg	500000.

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Name Field: 25-3110-1RE
Misc Field: 94-07-012-31A
Instrument: BNA1

Blank:NONE :PASS QaQc File: QS90SM
Idfile: ID_B1X Quantfile: ^SD762

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	500000.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	100000.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	100000.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	100000.
Pentachlorophenol	87-86-5	n.d.	ug/kg	500000.
Phenanthrene	85-01-8	n.d.	ug/kg	100000.
Anthracene	120-12-7	n.d.	ug/kg	100000.
Carbazole	86-74-8	n.d.	ug/kg	100000.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	100000.
Fluoranthene	206-44-0	n.d.	ug/kg	100000.
Pyrene	129-00-0	n.d.	ug/kg	100000.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	100000.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	200000.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	100000.
Chrysene	218-01-9	n.d.	ug/kg	100000.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	100000.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	100000.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	100000.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	100000.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	100000.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	100000.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	100000.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	100000.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 26-2205-1 Blank:NONE :PASS QaQc File: QS90SM
 Misc Field: 94-07-012-24A
 Instrument: BNA1 Datafile: >SD759 Idfile: ID_B1X Quantfile: ^SD759

Injection time: 20:19 on 07-20-94 Quant Time: 21:02 on 07-20-94
 Continuing calibration time : 12:47 on 07-20-94 using the file: ^SC313::D5
 User diltfac:2000 Quant diltfac: 1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	20000.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	20000.
2-Chlorophenol	95-57-8	n.d.	ug/kg	20000.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	20000.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	20000.
Benzyl alcohol	100-51-6	n.d.	ug/kg	20000.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	20000.
2-Methylphenol	95-48-7	n.d.	ug/kg	20000.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	20000.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	20000.
4-Methylphenol	106-44-5	n.d.	ug/kg	20000.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	20000.
Hexachloroethane	67-72-1	n.d.	ug/kg	20000.
Nitrobenzene	98-95-3	n.d.	ug/kg	20000.
Isophorone	78-59-1	n.d.	ug/kg	20000.
2-Nitrophenol	88-75-5	n.d.	ug/kg	20000.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	20000.
Benzoic acid	65-85-0	n.d.	ug/kg	100000.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	20000.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	20000.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	20000.
Naphthalene	91-20-3	n.d.	ug/kg	20000.
4-Chloroaniline	106-47-8	n.d.	ug/kg	20000.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	20000.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	20000.
2-Methylnaphthalene	91-57-6	27000.	ug/kg	20000.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	20000.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	20000.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	100000.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	20000.
2-Nitroaniline	88-74-4	n.d.	ug/kg	100000.
Dimethylphthalate	131-11-3	n.d.	ug/kg	20000.
Acenaphthylene	208-96-8	n.d.	ug/kg	20000.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	20000.
3-Nitroaniline	99-09-2	n.d.	ug/kg	100000.
Acenaphthene	83-32-9	n.d.	ug/kg	20000.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	100000.
4-Nitrophenol	100-02-7	n.d.	ug/kg	100000.
Dibenzofuran	132-64-9	n.d.	ug/kg	20000.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	20000.
Diethylphthalate	84-66-2	n.d.	ug/kg	20000.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	20000.
Fluorene	86-73-7	n.d.	ug/kg	20000.
4-Nitroaniline	100-01-6	n.d.	ug/kg	100000.

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Name Field: 26-2205-1 Blank:NONE :PASS QaQc File: QS90SM
 Misc Field: 94-07-012-24A
 Instrument: BNA1 Datafile: >SD759 Idfile: ID_B1X Quantfile: ^SD759

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	100000.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	20000.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	20000.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	20000.
Pentachlorophenol	87-86-5	n.d.	ug/kg	100000.
Phenanthrene	85-01-8	n.d.	ug/kg	20000.
Anthracene	120-12-7	n.d.	ug/kg	20000.
Carbazole	86-74-8	n.d.	ug/kg	20000.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	20000.
Fluoranthene	206-44-0	n.d.	ug/kg	20000.
Pyrene	129-00-0	n.d.	ug/kg	20000.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	20000.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	40000.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	20000.
Chrysene	218-01-9	n.d.	ug/kg	20000.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	20000.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	20000.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	20000.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	20000.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	20000.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	20000.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	20000.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	20000.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 26-2205-1RE

Blank:NONE :PASS QaQc File: QS90SM

Misc Field: 94-07-012-24A

Instrument: BNA1

Datafile: >SD760

Idfile: ID_B1X

Quantfile: ^SD760

Injection time: 21:10 on 07-20-94

Quant Time: 21:54 on 07-20-94

Continuing calibration time : 12:47 on 07-20-94 using the file: ^SC313::D5

User dilfac:2000 Quant dilfac: 1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	20000.
bis(2-Chloroethyl) ether	111-44-4	n.d.	ug/kg	20000.
2-Chlorophenol	95-57-8	n.d.	ug/kg	20000.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	20000.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	20000.
Benzyl alcohol	100-51-6	n.d.	ug/kg	20000.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	20000.
2-Methylphenol	95-48-7	n.d.	ug/kg	20000.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	20000.
bis(2-Chloroisopropyl) ether	39638-32-9	n.d.	ug/kg	20000.
4-Methylphenol	106-44-5	n.d.	ug/kg	20000.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	20000.
Hexachloroethane	67-72-1	n.d.	ug/kg	20000.
Nitrobenzene	98-95-3	n.d.	ug/kg	20000.
Isophorone	78-59-1	n.d.	ug/kg	20000.
2-Nitrophenol	88-75-5	n.d.	ug/kg	20000.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	20000.
Benzoic acid	65-85-0	n.d.	ug/kg	100000.
bis(2-Chloroethoxy) methane	111-91-1	n.d.	ug/kg	20000.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	20000.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	20000.
Naphthalene	91-20-3	n.d.	ug/kg	20000.
4-Chloroaniline	106-47-8	n.d.	ug/kg	20000.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	20000.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	20000.
2-Methylnaphthalene	91-57-6	27000.	ug/kg	20000.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	20000.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	20000.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	100000.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	20000.
2-Nitroaniline	88-74-4	n.d.	ug/kg	100000.
Dimethylphthalate	131-11-3	n.d.	ug/kg	20000.
Acenaphthylene	208-96-8	n.d.	ug/kg	20000.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	20000.
3-Nitroaniline	99-09-2	n.d.	ug/kg	100000.
Acenaphthene	83-32-9	n.d.	ug/kg	20000.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	100000.
4-Nitrophenol	100-02-7	n.d.	ug/kg	100000.
Dibenzofuran	132-64-9	n.d.	ug/kg	20000.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	20000.
Diethylphthalate	84-66-2	n.d.	ug/kg	20000.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	20000.
Fluorene	86-73-7	n.d.	ug/kg	20000.
4-Nitroaniline	100-01-6	n.d.	ug/kg	100000.

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Name Field: 26-2205-1RE
Misc Field: 94-07-012-24A

Blank:NONE :PASS QaQc File: QS90SM

Instrument: BNA1 Datafile: >SD760 Idfile: ID_B1X Quantfile: ^SD760

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	100000.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	20000.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	20000.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	20000.
Pentachlorophenol	87-86-5	n.d.	ug/kg	100000.
Phenanthrene	85-01-8	n.d.	ug/kg	20000.
Anthracene	120-12-7	n.d.	ug/kg	20000.
Carbazole	86-74-8	n.d.	ug/kg	20000.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	20000.
Fluoranthene	206-44-0	n.d.	ug/kg	20000.
Pyrene	129-00-0	n.d.	ug/kg	20000.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	20000.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	40000.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	20000.
Chrysene	218-01-9	n.d.	ug/kg	20000.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	20000.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	20000.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	20000.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	20000.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	20000.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	20000.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	20000.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	20000.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Water Test Results
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Name Field: SBLK070794-3 QaQc File: QS90WM
Misc Field: 94-07-012-39A
Instrument: BNA1 Datafile: >SD730 Idfile: ID_B1X Quantfile: ^SD730
Injection time: 13:05 on 07-11-94 Quant Time: 13:48 on 07-11-94
Continuing calibration time : 11:11 on 07-11-94 using the file: ^SC306::D5
User dilfac:1 Quant dilfac: 1. Multi-calibration: 12:33 on 07-07-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/l	10.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/l	10.
2-Chlorophenol	95-57-8	n.d.	ug/l	10.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/l	10.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/l	10.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/l	10.
2-Methylphenol	95-48-7	n.d.	ug/l	10.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/l	10.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/l	10.
4-Methylphenol	106-44-5	n.d.	ug/l	10.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/l	10.
Hexachloroethane	67-72-1	n.d.	ug/l	10.
Nitrobenzene	98-95-3	n.d.	ug/l	10.
Isophorone	78-59-1	n.d.	ug/l	10.
2-Nitrophenol	88-75-5	n.d.	ug/l	10.
2,4-Dimethylphenol	105-67-9	n.d.	ug/l	10.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/l	10.
2,4-Dichlorophenol	120-83-2	n.d.	ug/l	10.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/l	10.
Naphthalene	91-20-3	n.d.	ug/l	10.
4-Chloroaniline	106-47-8	n.d.	ug/l	10.
Hexachlorobutadiene	87-68-3	n.d.	ug/l	10.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/l	10.
2-Methylnaphthalene	91-57-6	n.d.	ug/l	10.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/l	10.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/l	10.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/l	50.
2-Chloronaphthalene	91-58-7	n.d.	ug/l	10.
2-Nitroaniline	88-74-4	n.d.	ug/l	50.
Dimethylphthalate	131-11-3	n.d.	ug/l	10.
Acenaphthylene	208-96-8	n.d.	ug/l	10.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/l	10.
3-Nitroaniline	99-09-2	n.d.	ug/l	50.
Acenaphthene	83-32-9	n.d.	ug/l	10.
2,4-Dinitrophenol	51-28-5	n.d.	ug/l	50.
4-Nitrophenol	100-02-7	n.d.	ug/l	50.
Dibenzofuran	132-64-9	n.d.	ug/l	10.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/l	10.
Diethylphthalate	84-66-2	n.d.	ug/l	10.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/l	10.
Fluorene	86-73-7	n.d.	ug/l	10.
4-Nitroaniline	100-01-6	n.d.	ug/l	50.
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/l	50.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/l	10.

EPA 625/8270 Semivolatile Organics Water Test Results
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Name Field: SBLK070794-3

QaQc File: QS90WM

Misc Field: 94-07-012-39A

Instrument: BNA1

Datafile: >SD730

Idfile: ID_B1X

Quantfile: ^SD730

Compound Name	CAS Number	Result	Units	Detection Limit
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/l	10.
Hexachlorobenzene	118-74-1	n.d.	ug/l	10.
Pentachlorophenol	87-86-5	n.d.	ug/l	50.
Phenanthrene	85-01-8	n.d.	ug/l	10.
Anthracene	120-12-7	n.d.	ug/l	10.
Carbazole	86-74-8	n.d.	ug/l	10.
Di-n-butylphthalate	84-74-2	n.d.	ug/l	10.
Fluoranthene	206-44-0	n.d.	ug/l	10.
Pyrene	129-00-0	n.d.	ug/l	10.
Butylbenzylphthalate	85-68-7	n.d.	ug/l	10.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/l	20.
Benzo(a)anthracene	56-55-3	n.d.	ug/l	10.
Chrysene	218-01-9	n.d.	ug/l	10.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/l	10.
Di-n-octylphthalate	117-84-0	n.d.	ug/l	10.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/l	10.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/l	10.
Benzo(a)pyrene	50-32-8	n.d.	ug/l	10.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/l	10.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/l	10.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/l	10.

n.d. - not detected

Approved by: _____

RC RESULTS

Analytical Services Report

Radioanalytical Quality Control Results

Reported to : D. D. Madsen
 Report No. : FY94-720-01
 Packet No. : Q0082, Q0074

Page : 1 of 2
 Date : 08/05/94
 Program Code : 720
 Sample Delivery Group : S346

QC Sample ID No.	Ref. Packet No.	Sample Type	Analysis Type	Analysis Result Value	Sample % Error 2(Sigma)	Known Value	Known % Error	Units	Spike % Yield	Analysis Date	Detector ID
JA Bkg Water U08 00468	Q0082	Water	Gamma	No Nuclides	N/A	Background	N/A	N/A	N/A	07/11/94	08-01
QA W-8 07/11/94 13165	Q0074	Water	Gamma:								
			AM-241	3.36E-04	8.5	3.05E-04	7	uCi	110	07/11/94	08-01
			Co-60	3.32E-04	8.8	3.22E-04	7	uCi	103		
			Cs-137	2.79E-04	8.3	2.76E-04	7	uCi	101		

Prepared by : Elin W. Vind Date : 8/5/94
 Approved by : Steven J. Bakhtiar Date : 8-8-94

Analytical Services Report

Radioanalytical Analysis Results

Reported to : D. D. Madsen
 Report No. : FY94-720-01
 Packet No. : G0349

Page : 2 of 2
 Date : 08/05/94
 Program Code : 720
 Sample Delivery Group : S346

Sample ID	REECO/ASD Lab ID	Sample Type	Analysis	Analysis Result Value	Sample % Error 2(Sigma)	Units	Analysis Date	Sample Date	Sample Size	Detector ID
25-3110-1	81196	Misc. Liquid	Gamma	No Nuclides Detected	0	pCi/g	07/11/94	07/07/94	292g	08-01
25-3123-1	81193	Misc. Liquid	Gamma	No Nuclides Detected	0	pCi/g	07/11/94	07/06/94	248g	08-01
25-3129-1	81194	Misc. Liquid	Gamma: Pb-212	2.13E-01	64	pCi/g	07/11/94	07/06/94	203g	08-01
26-2205-1	81195	Misc. Liquid	Gamma	No Nuclides Detected	0	pCi/g	07/11/94	07/07/94	227g	08-01

Prepared by : Elin D. Vigil

Date: 8/5/94

Approved by: Steven J. Bakhtin

Date: 8-8-94

SUPPORTING DATA

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-012

CLIENT: ERTD - D. MADSEN

LABORATORY: REECO-ASD

DATE REVIEWED: 7-25-94

REVIEWED BY: *Jeffrey D. Madsen*

VOA:

MATRIX: LIQUID/FUEL/OIL

ARE VOA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	BFB	6-13-94/1041	YES
	BFB	6-14-94/0820	YES
	BFB	7-12-94/0941	YES
	BFB	7-15-94/0853	YES
	BFB	7-18-94/0937	YES
2. CALIBRATION	INITIAL	6-13/14-94	YES
	VSTD050	7-12-94/1055	YES
	INITIAL	7-15-94	YES
	VSTD050	7-18-94/1005	YES
3. METHOD BLANK	VBK5Y	7-18-94/1057	YES
	VBK5Z	7-18-94/1342	YES
4. TRIP BLANK	94TAP0707-1TB	7-12-94/1535	YES
	94JLH0706-1TB	7-12-94/1507	YES
5. SAMPLES	25-3110-1	7-18-94/1904	YES
	25-3123-1	7-18-94/1519	YES
	<i>hw</i> 25-3123-1MS/MSD	7-18-94/1747	YES
	25-3123-1SB	7-18-94/1410	YES
	25-3129-1	7-18-94/1709	YES
	26-2205-1	7-18-94/1630	YES
	6. SURROGATE RECOVERY ACCEPTABLE:	YES	
	7. MS/MSD RECOVERY ACCEPTABLE:	YES	
	8. METHOD BLANK ACCEPTABLE:	YES	
	9. HOLDING TIMES ACCEPTABLE:	YES	

		#DAYS	ACCEPTABLE
a. Date Sampled:	7-6-94	0	0
b. Date ACS Received:	7-7-94	1	YES
c. Date Contract Lab Received:	N/A	N/A	N/A
d. Date Extracted:	N/A	N/A	N/A
e. Date Analyzed	7-18-94	12	14
10. Correct Conc units used:	YES		
11. CALCULATIONS ACCEPTABLE:	YES		
12. IS AREAS ACCEPTABLE:	YES		
13. RRT IS ACCEPTABLE:	YES		
14. FORMS ACCEPTABLE:	YES		
15. Chain-of-Custody agrees:	YES		

COMMENTS: _____

EFRE-2258 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-012

CLIENT: ERTD - D. MADSEN

LABORATORY: REECO-ASD

DATE REVIEWED: 7-26-94

REVIEWED BY: *James J. Mager*

BNA:

MATRIX: LIQUID/FUEL/OIL

ARE BNA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	DFTPP	7-6-94/1700	YES
	DFTPP	7-11-94/1048	YES
	DFTPP	7-20-94/1036	YES
	DFTPP	7-21-94/1536	YES
2. CALIBRATION	INITIAL	7-6-94	YES
	SSTD050	7-11-94/1111	YES
	SSTD050	7-20-94/1247	YES
	SSTD050	7-21-94/1558	YES
3. METHOD BLANK	SBLK070794-3	7-11-94/1305	YES
4. SAMPLES	25-3123-1	7-20-94/1618	6 SURR/1 IS FAILED
	25-3123-1RE	7-20-94/1836	6 SURR/1 IS FAILED
	25-3123-1-SB	7-11-94/1356	YES
	25-3129-1	7-20-94/1709	7 SURR/1 IS FAILED
	25-3129-1DL	7-21-94/1748	ALL SURR/1 IS FAILED
	26-2205-1	7-20-94/2019	ALL SURR FAILED
	26-2205-1RE	7-20-94/2110	ALL SURR FAILED
	25-3110-1	7-20-94/2202	7 SURR/2 IS FAILED
	25-3110-1RE	7-20-94/2253	ALL SURR/2 IS FAILED

5. SURROGATE RECOVERY ACCEPTABLE: SEE COMMENTS

6. MS/MSD RECOVERY ACCEPTABLE: YES

7. METHOD BLANK ACCEPTABLE: YES

8. HOLDING TIMES ACCEPTABLE: YES

		#DAYS	ACCEPTABLE
a. Date Sampled:	<u>7-6-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-7-94</u>	<u>1</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>7-7 & 7-12-94</u>	<u>1-6</u>	<u>14</u>
e. Date Analyzed:	<u>7-20-94</u>	<u>8-13</u>	<u>40</u>
9. Correct conc units used:	<u>YES</u>		
10. CALCULATIONS ACCEPTABLE:	<u>YES</u>		
11. IS AREAS ACCEPTABLE:	<u>YES</u>		
12. RRT IS ACCEPTABLE:	<u>YES</u>		
13. FORMS ACCEPTABLE:	<u>YES</u>		
14. Chain-of-Custody agrees:	<u>YES</u>		

COMMENTS: ALL SAMPLES EXCEPT 25-3123-1SB FAILED SURROGATE AND IS CRITERIA ON THE ORIGINAL ANALYSIS AND REANALYSIS.

EFRE-2260 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-012

CLIENT: ERTD - D. MADSEN

LABORATORY: REECO-ASD

DATE REVIEWED: 7-26-94

REVIEWED BY: *Jimmy Dugan*

PCB:

MATRIX: LIQUID/FUEL/OIL

ARE PCB DATA ACCEPTABLE: YES

1. ANALYSIS SEQUENCE
2. METHOD BLANK
3. MS/MSD RESULTS
4. SURROGATE RECOVERY
5. HOLDING TIMES

ARE CRITERIA MET

<u>YES</u>
<u>YES</u>
<u>YES</u>
<u>N/A</u>
<u>YES</u>

		<u># DAYS</u>	<u>ACCEPTABLE</u>
a. Date Sampled:	<u>7-6-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-7-94</u>	<u>1</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>7-11-94</u>	<u>5</u>	<u>14</u>
e. Date Analyzed:	<u>7-12-94</u>	<u>1</u>	<u>40</u>
6. CONFIRMED BY SECOND COLUMN:	<u>NO</u>		
CONFIRMED BY GC/MS:	<u>NO</u>		
7. CALCULATIONS:	<u>YES</u>		
8. Correct Conc. units used:	<u>YES</u>		
9. FORMS ACCEPTABLE:	<u>YES</u>		
10. Chain-of-Custody agrees:	<u>YES</u>		

COMMENTS: _____

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-012

CLIENT: ERTD - D. MADSEN

LABORATORY: REECO-ASD

DATE REVIEWED: 7-26-94

REVIEWED BY: *James J. Dinger*

TPH (GASOLINE/DIESEL/OIL):

MATRIX: LIQUID/FUEL/OIL

ARE TPH DATA ACCEPTABLE: YES

ARE CRITERIA MET

1. QC SAMPLES ACCEPTABLE	<u>YES</u>
2. MATRIX SPIKE ACCEPTABLE	<u>YES</u>
3. METHOD BLANK ACCEPTABLE	<u>YES</u>
4. HOLDING TIMES ACCEPTABLE	<u>YES</u>

		# DAYS	ACCEPTABLE
a. Date Sampled:	<u>7-6-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-7-94</u>	<u>1</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>7-7 & 7-13-94</u>	<u>1-7</u>	<u>14</u>
e. Date Analyzed:	<u>7-13-94</u>	<u>1-6</u>	<u>40</u>
5. CALCULATIONS ACCEPTABLE:	<u>YES</u>		
6. Correct conc. units used:	<u>YES</u>		
7. FORMS ACCEPTABLE:	<u>YES</u>		
8. Chain-of-Custody Agrees:	<u>YES</u>		

COMMENTS: _____

EFRE-2261 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-012

CLIENT: ERTD - D. MADSEN

LABORATORY: REECO-ASD

DATE REVIEWED: 8-3-94

REVIEWED BY: *Jimmy J. Dugan*

TOTAL METALS:

MATRIX: WATER ARE METALS DATA ACCEPTABLE: YES

1. Are Method Blanks Acceptable: YES
2. Are Matrix Spikes Acceptable: YES
3. Are QC Samples Acceptable: YES
4. Are Holding Times Acceptable: YES

		# DAYS	ACCEPTABLE
a. Sample Date:	<u>7-6-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-7-94</u>	<u>1</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Hg Extracted:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
e. Date Hg Analyzed:	<u>7-28-94</u>	<u>22</u>	<u>28</u>
f. Date Others Extracted:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
g. Date Others Analyzed:	<u>7-27-94</u>	<u>21</u>	<u>180</u>
5. Are Forms correct:	<u>YES</u>		
6. Are correct conc. units used:	<u>YES</u>		
7. Are analyses completed:	<u>YES</u>		
8. Chain-of-Custody agrees:	<u>YES</u>		

COMMENTS: _____

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-012

CLIENT: ERTD - D. MADSEN

LABORATORY: REECO-ASD

DATE REVIEWED: 8-3-94

REVIEWED BY: *Henry J. Dwyer*

OTHER ANALYSES: pH

MATRIX: WATER ARE pH DATA ACCEPTABLE: YES

1. METHOD/TRIP/FIELD BLANK ACCEPTABLE:	<u>N/A</u>
2. QC SAMPLES ACCEPTABLE:	<u>YES</u>
3. SPIKED SAMPLES ACCEPTABLE:	<u>N/A</u>
4. HOLDING TIMES ACCEPTABLE:	<u>YES</u>

		# DAYS	ACCEPTABLE
a. Date Sampled:	<u>7-6-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-7-94</u>	<u>1</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
e. Date Analyzed:	<u>7-7-94</u>	<u>1</u>	<u>IMMEDIATE</u>
5. Chain-of-Custody agrees:	<u>YES</u>		
6. Calculations Acceptable:	<u>YES</u>		
7. Correct conc. units used:	<u>YES</u>		

COMMENTS: _____

EFRE-2259 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-012

CLIENT: ERTD - D. MADSEN

LABORATORY: REECO-ASD

DATE REVIEWED: 8-9-94

REVIEWED BY:

OTHER ANALYSES: FLASHPOINT

MATRIX: WATER ARE FLASHPOINT DATA ACCEPTABLE: YES

1. METHOD/TRIP/FIELD BLANK ACCEPTABLE:	<u>N/A</u>
2. QC SAMPLES ACCEPTABLE:	<u>YES</u>
3. SPIKED SAMPLES ACCEPTABLE:	<u>N/A</u>
4. HOLDING TIMES ACCEPTABLE:	<u>YES</u>

		# DAYS	ACCEPTABLE
a. Date Sampled:	<u>7-6-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-7-94</u>	<u>1</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
e. Date Analyzed:	<u>8-3-94</u>	<u>28</u>	<u>28</u>
5. Chain-of-Custody agrees:	<u>YES</u>		
6. Calculations Acceptable:	<u>YES</u>		
7. Correct conc. units used:	<u>YES</u>		

COMMENTS: _____

EFRE-2259 (03/93)

7/6/94

ASD/Sample Management Section

REYNOLDS ELECTRICAL AND ENGINEERING CO., INC.

LABORATORY SERVICES REQUEST

AND CHAIN OF CUSTODY

REV 6/6/94

INSTRUCTIONS ON BACK

PAGE 4 OF 4

PROJECT INFORMATION		REPORT INFORMATION		LAB USE ONLY		SDG #
WORK ORDER 3754-032		DATE DUE 7/27/94		Packet #:		
PROJECT MANAGER DD MADSEN		PRELIMINARY REPORT: Y	QC REQUIREMENTS:	REMARKS:		
PHONE 5-7211		MAIL STOP 969				
LOCATION A25		COPY TO: D.D. MADSEN				
PROJECT MANAGER: JERRY DUGAS M/S 713.				PROJ NO	EVENT	SAMPLER INITIALS:

FIELD SAMPLE ID	V O A	B N A	M E T A L S	T P H	T C A L P	B N A	M E T A L S	P H	C H L O R	F L A S H T	P C B	OTHER			R A M D A	G R O S S	B E T A	A L P H A	H 3	P U	G F P	OTHER			MATRIX	DATE/TIME COLLECTED	REMARKS (PRESERVATIVE, SAMPLE SIZE, SPECIAL ANALYSIS, COUNT TIME, ETC.)
74JLH0706-1	X																								Water	7/6/94/0750	(2) 40ml w/ HCL trip
25-3123-1-SB	X	X	X	X				X																		7/6/94/0900	sample blank
25-3123-1-S	X	X	X	X				X		X	X			X												7/6/94/0940	
25-3129-1	X	X	X	X				X		X	X			X												7/6/94/1445	
25-31205-1	X	X	X	X				X		X	X			X												7/6/94/1605	
25-3110-1	X	X	X	X				X		X	X			X												7/7/94/0900	
WIAPO707-1	X																									7/7/94/0730	Trip Blank
Last Item																											

BY: Wences & Kunkle

RAD
ONLY

DATE/TIME:

070794				
--------	--	--	--	--

07/07/94 1044

RECEIVED BY:

Marlon Withers

RAD
ONLY

Barbara J. Hummel 250

VOA-Ref #9 / BNA, TPH, PCB - A2 / Metals, pH, Kach - D2

7/6/94-7/7/94

From Page No. _____

The report of Don McDermott to ERDP Superiors, Paul Han
 & Thomas Palumbo sent to A25 to sample from underground
 storage tanks. Paul Han left morning after starting
 preparing a new tip blank in the ACS lab @ 9:50 am
 @ 0830 Don McDermott & Perry Borm were assembling
 equipment at this time. Trip Blank labeled 94JCH0706-1.
 Field Equipment Banks were collected using 1 gallon of R.O.
 H₂O from ACS lab. Sample # 25-3123-1-58 collected for
 VOC 3 (40ml) BNA 8270 1L Total water 1L TPH 2L + 120ml
 pH 250ml @ 0900 Sample # 25-3123-1 was collected from
 25-3123 Tech services bldg beginning @ 0940 initial collection
 involved a 1/4" copper tube TAP 4" O.D. copper tube 27' in
 length. The copper tubing ran from the bottom of the tank
 into a mason jar. Attached to the top lid of the mason jar
 was the copper tube and a fitting to attach to a hand pump
 instead a camping type pump was utilized enough people to fill
 VOC 2 (40ml) Semi VOC 8270 40ml TPH 250ml pH 120ml flashpoint 120ml
 was collected without difficulty at that point the sampling stalled
 around 1000 Perry Borm tried to improve the design of the apparatus
 while Don McDermott attached a CO₂ WASH to a wooden pole we
 were able to collect 40ml for Total water and 40ml PCB 500ml G
 Paul Han left very early around 1045 @ 1100 we again attempted to
 sample with Shugo. I suggested using a 1/2" tube with for ins
 of a mason jar. It was agreed that we would meet @ the site
 @ 650 to drill holes in lids and attach proper fittings while there
 also obtaining a bicycle style pump used for obtaining oil in
 soil samples and some "tygon" tubing. (We returned to A25 @ 1
 and attempted to use the new apparatus with the old camping
 pump without success we switched to the bicycle style pump
 and immediately began collecting sample into the 1L jar. 2 G
 were initially collected @ 1445 Sample # 25-3129-1 314ml VOC
 3 40ml BNA 8270 1L for MS 1 for MSD 40ml Total water
 40ml PCB 120ml pH 120ml flashpoint 120ml TPH 500ml Gamma 20min
 Count. Don, Perry & myself returned keys to compound and
 proceeded to A26 2205-1 @ 1605 Sample # 26-2205-1 was sample
 for VOC 2 (40ml) Semi VOC 40ml PCB 40ml Total water 40ml
 TPH 250ml pH 120ml flashpoint 120ml & Gamma 20min count 500ml
 as sample on ice 4:22 returned to A23 @ 1700 To Page No.

Witnessed & Understood by me.

Date

Invented by

Date

Thomas A. Palumbo

TITLE A25 VST

Project No. _____

Bol. No. _____

7/7/94

6

From Page No. _____ Sampling continued @ 7/7/94 tip blank prepared 0730 94TAPC
 left A23 652 @ 07:50 fueled up vehicle left A23 @ 0805 and
 A25 site maintenance @ 0830 met Jerry Bonn/ERTD and traveled
 to A25 25-3110 sampled # 25-3110-1 @ 0900 for VOCs 2/4
 semi VOC (V40ml Total water 40ml TPH 250ml pH 20ml phosphate
 water PCB 40ml and 60min count 500ml. All samples on
 ice @ $4 \pm 2^\circ\text{C}$. Note all samples were ~~tested~~ ^{tested} using a vial of
 20 water to determine if they were non-aqueous and samples of
 non-aqueous due to the results of that determination

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Recorded by _____

Date _____

7/7/94

Reynolds Electrical & Engineering Co., Inc.

MEMORANDUM

Aug 23 4 39 PM '94

To S. J. Nacht
From A. R. Latham *for*
Date August 22, 1994
Subject SAMPLE ANALYTICAL RESULTS

Enclosed are the Analytical Services Department's results, requested by Jerry Bonn, for the volatile organics, semivolatile organics, PCB organics, total petroleum hydrocarbons (gasoline/diesel/oil), total petroleum hydrocarbons (diesel), TCLP metals, flashpoint, and pH analyses of soil samples and the volatile organics analysis of a trip blank collected on July 20, 1994, at the Area 25 Reactor Control Point. The results for the gamma analysis of these samples will be submitted when available.

Please direct any questions you may have to your Client Service Representative, Jerry Dugas at 295-7220.

ARL:447:bv

Enclosure
As stated

cy w/o encl.
Central Files, M/S 530
ACS Packet No. 94-07-053

cy w/encl.
J. F. Bonn, ERTD, M/S 966

REECO ASD/ACS

REECO
BOB DODGE
ENVIRONMENTAL RESTORATION
TECHNOLOGY DEVELOPMENT
Attn: JERRY BONN

Order #: 94-07-053
Date: 08/18/94 13:26
Work ID: VOA,BNA,TPH,TCLP_X,FLASH,PCB
Date Received: 07/21/94
Date Completed: 08/18/94

Purchase Order: 3754-032
Invoice Number:

STD TAT
Client Code: ERTD

REPORT TO JERRY BONN, ERTD

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	25-3129-1/PILE
02	25-3129-1/E
03	25-3129-1/E
04	25-3129-1/E
05	25-3129-1/W
06	25-3129-1/W
07	25-3129-1/W
08	25-3123-1/PILE
09	25-3123-1/S
10	25-3123-1/S
11	25-3123-1/S
12	25-3123-1/N
13	25-3123-1/N
14	25-3123-1/N
15	25-3102-4/PILE
16	25-3102-4/S
17	25-3102-4/S
18	25-3102-4/S
19	25-3102-4/S
20	25-3102-4/S
21	25-3102-4/S
22	25-3102-4/S
23	25-3102-4/N
24	25-3102-4/N
25	25-3102-4/N
26	25-3102-4/N

Sample Number	Sample Description
27	25-3102-4/N
28	25-3102-4/N
29	25-3102-4/N
30	25-3101-1/W
31	25-3101-1/E
32	25-3101-1/S
33	25-3101-1/N
34	25-3101-1/PILE
35	94-07-053-QC1 MS
36	94-07-053-QC2 MB
37	94-07-053-QC3 CAL VER
38	94-07-053-QC4A MS
39	94-07-053-QC5 MB
40	94-07-053-QC6 MS
41	94-07-053-QC7 MSD
42	94-07-053-QC8 MB
43	94-07-053-QC9 DET LIMIT
46	94-07-053-QC12 WINTERGREEN
47	94-07-053-QC13 BUFFERS
48	94-07-053-QC14 DUPLICATE
49	94-07-053-QC15 MB
50	94-07-053-QC16 CAL VER
51	PACKET #G0405
52	PACKET #G0405
53	8.0 HOURS 1.5 UNITS
54	94TAP0720-1 TRIP BLANK

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Certified By

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REECO ASD/ACS

TEST RESULTS BY SAMPLE

Page 3

Sample Description: 25-3129-1/E

Lab No: 04A

Test Description: TCLP RCRA METALS

Method: ICP/COLD VAP Test Code: TCLP_X

Collected: 07/20/94

Category: TCLP_METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3129-1/E	
ARSENIC (As)	1311/6010 ND	07/28/94
BARIUM (Ba)	1311/6010 0.30	07/28/94
CADMIUM (Cd)	1311/6010 ND	07/28/94
CHROMIUM (Cr)	1311/6010 ND	07/28/94
LEAD (Pb)	1311/6010 ND	07/28/94
MERCURY (Hg)	1311/7470-1 ND	07/28/94
SELENIUM (Se)	1311/6010 ND	07/28/94
SILVER (Ag)	1311/6010 ND	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____

UNITS _____ mg/L

PREP_TECH JWB

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TEST RESULTS BY SAMPLE

Sample Description: 25-3129-1/W
Test Description: TCLP RCRA METALS
Collected: 07/20/94

Lab No: 07A
Method: ICP/COLD VAP Test Code: TCLP_X
Category: TCLP_METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3129-1/W	
ARSENIC (As)	1311/6010 ND	07/28/94
BARIUM (Ba)	1311/6010 0.17	07/28/94
CADMIUM (Cd)	1311/6010 ND	07/28/94
CHROMIUM (Cr)	1311/6010 ND	07/28/94
LEAD (Pb)	1311/6010 ND	07/28/94
MERCURY (Hg)	1311/7470-1 < 0.00043	07/28/94
SELENIUM (Se)	1311/6010 ND	07/28/94
SILVER (Ag)	1311/6010 ND	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____
UNITS _____ mg/L
PREP_TECH JWB

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TEST RESULTS BY SAMPLE

Sample Description: 25-3123-1/S

Lab No: 11A

Test Description: TCLP RCRA METALS

Method: ICP/COLD VAP Test Code: TCLP_X

Collected: 07/20/94

Category: TCLP_METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3123-1/S	
ARSENIC (As)	1311/6010 ND	07/28/94
BARIUM (Ba)	1311/6010 0.41	07/28/94
CADMIUM (Cd)	1311/6010 ND	07/28/94
CHROMIUM (Cr)	1311/6010 ND	07/28/94
LEAD (Pb)	1311/6010 ND	07/28/94
MERCURY (Hg)	1311/7470-1 ND	07/28/94
SELENIUM (Se)	1311/6010 ND	07/28/94
SILVER (Ag)	1311/6010 ND	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____
UNITS _____ mg/L
PREP_TECH JWB

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TEST RESULTS BY SAMPLE

Sample Description: 25-3123-1/N

Lab No: 14A

Test Description: TCLP RCRA METALS

Method: ICP/COLD VAP Test Code: TCLP_X

Collected: 07/20/94

Category: TCLP_METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3123-1/N	
ARSENIC (As)	1311/6010 ND	07/28/94
BARIUM (Ba)	1311/6010 0.43	07/28/94
CADMIUM (Cd)	1311/6010 ND	07/28/94
CHROMIUM (Cr)	1311/6010 ND	07/28/94
LEAD (Pb)	1311/6010 ND	07/28/94
MERCURY (Hg)	1311/7470-1 ND	07/28/94
SELENIUM (Se)	1311/6010 ND	07/28/94
SILVER (Ag)	1311/6010 ND	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____
UNITS _____ mg/L
PREP_TECH JWB

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TEST RESULTS BY SAMPLE

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Sample Description: 25-3102-4/S
Test Description: TCLP RCRA METALS
Collected: 07/20/94

Lab No: 19A
Method: ICP/COLD VAP Test Code: TCLP_X
Category: TCLP_METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3102-4/S	
ARSENIC (As)	1311/6010 ND	07/28/94
BARIUM (Ba)	1311/6010 0.82	07/28/94
CADMIUM (Cd)	1311/6010 ND	07/28/94
CHROMIUM (Cr)	1311/6010 ND	07/28/94
LEAD (Pb)	1311/6010 ND	07/28/94
MERCURY (Hg)	1311/7470-1 ND	07/28/94
SELENIUM (Se)	1311/6010 ND	07/28/94
SILVER (Ag)	1311/6010 ND	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____
UNITS _____ mg/L
PREP_TECH JWB

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TEST RESULTS BY SAMPLE

Sample Description: 25-3102-4/N

Lab No: 26A

Test Description: TCLP RCRA METALS

Method: ICP/COLD VAP Test Code: TCLP_X

Collected: 07/20/94

Category: TCLP_METALS

PARAMETER	RESULT	INJECTED
FIELD ID #	25-3102-4/N	
ARSENIC (As)	1311/6010 ND	07/28/94
BARIUM (Ba)	1311/6010 0.23	07/28/94
CADMIUM (Cd)	1311/6010 ND	07/28/94
CHROMIUM (Cr)	1311/6010 ND	07/28/94
LEAD (Pb)	1311/6010 ND	07/28/94
MERCURY (Hg)	1311/7470-1 ND	07/28/94
SELENIUM (Se)	1311/6010 ND	07/28/94
SILVER (Ag)	1311/6010 ND	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____

UNITS _____ mg/L

PREP_TECH JWB

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TEST RESULTS BY SAMPLE

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Sample Description: 94-07-053-QC6 MS

Lab No: 40A

Test Description: TCLP RCRA METALS

Category: TCLP_MTLS_QC Test Code: TCLP_X

PARAMETER	RESULT	INJECTED
FIELD ID #	<u>MATRIX SPIKE</u>	
ARSENIC (As)	1311/6010 110	07/28/94
BARIUM (Ba)	1311/6010 90	07/28/94
CADMIUM (Cd)	1311/6010 95	07/28/94
CHROMIUM (Cr)	1311/6010 95	07/28/94
LEAD (Pb)	1311/6010 95	07/28/94
MERCURY (Hg)	1311/7470-1 120	07/28/94
SELENIUM (Se)	1311/6010 113	07/28/94
SILVER (Ag)	1311/6010 93	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____
UNITS _____ % RECOVERY
PREP_TECH JWB

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TEST RESULTS BY SAMPLE

Sample Description: 94-07-053-QC7 MSD

Lab No: 41A

Test Description: TCLP RCRA METALS

Category: TCLP_MTLS_QC Test Code: TCLP_X

PARAMETER	RESULT	INJECTED
FIELD ID #	M.S.DUPLICATE	
ARSENIC (As)	1311/6010 111	07/28/94
BARIUM (Ba)	1311/6010 92	07/28/94
CADMIUM (Cd)	1311/6010 96	07/28/94
CHROMIUM (Cr)	1311/6010 96	07/28/94
LEAD (Pb)	1311/6010 96	07/28/94
MERCURY (Hg)	1311/7470-1 121	07/28/94
SELENIUM (Se)	1311/6010 110	07/28/94
SILVER (Ag)	1311/6010 95	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____

UNITS _____ % RECOVERY

PREP_TECH JWB

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REECO ASD/ACS
TEST RESULTS BY SAMPLE

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Sample Description: 94-07-053-QC8 MB
Test Description: TCLP RCRA METALS

Lab No: 42A
Category: TCLP_MTLS_QC Test Code: TCLP_X

PARAMETER	RESULT	INJECTED
FIELD ID #	METHOD BLANK	
ARSENIC (As)	1311/6010 ND	07/28/94
BARIUM (Ba)	1311/6010 < 0.0060	07/28/94
CADMIUM (Cd)	1311/6010 ND	07/28/94
CHROMIUM (Cr)	1311/6010 ND	07/28/94
LEAD (Pb)	1311/6010 ND	07/28/94
MERCURY (Hg)	1311/7470-1 < 0.00043	07/28/94
SELENIUM (Se)	1311/6010 ND	07/28/94
SILVER (Ag)	1311/6010 ND	07/28/94

Notes and Definitions for this Report:

EXTRACTED _____
UNITS _____ mg/L
PREP_TECH JWB

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TEST RESULTS BY SAMPLE

Sample Description: 94-07-053-QC9 DET LIMIT Lab No: 43A

Test Description: TCLP RCRA METALS

Category: TCLP_MTLS_QC Test Code: TCLP_X

PARAMETER	RESULT	INJECTED
FIELD ID #	<u>LIMIT OF DET.</u>	
ARSENIC (As)	1311/6010 0.042	
BARIUM (Ba)	1311/6010 0.0018	
CADMIUM (Cd)	1311/6010 0.0042	
CHROMIUM (Cr)	1311/6010 0.0048	
LEAD (Pb)	1311/6010 0.035	
MERCURY (Hg)	1311/7470-1 0.00013	
SELENIUM (Se)	1311/6010 0.050	
SILVER (Ag)	1311/6010 0.0039	

Notes and Definitions for this Report:

EXTRACTED _____

UNITS _____ mg/L

PREP_TECH _____

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REGULAR TEST RESULTS BY TEST

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BNA ORGANICS (EPA 8270)
Method: SW846 8270

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
02A	25-3129-1/E	SEE DATA	PACKAGE				
05A	25-3129-1/W	SEE DATA	PACKAGE				
09A	25-3123-1/S	SEE DATA	PACKAGE				
12A	25-3123-1/N	SEE DATA	PACKAGE				
17A	25-3102-4/S	SEE DATA	PACKAGE				
24A	25-3102-4/N	SEE DATA	PACKAGE				
38A	94-07-053-QC4A MS	SEE DATA	PACKAGE				
38B	94-07-053-QC4B MSD	SEE DATA	PACKAGE				
39A	94-07-053-QC5 MB	SEE DATA	PACKAGE				

EXTRACTION STEP CODE
Method:

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
01A	25-3129-1/PILE	07/25/94	.				EV
02A	25-3129-1/E	07/26/94	.				AGD
03A	25-3129-1/E	07/25/94	.				EV
05A	25-3129-1/W	07/26/94	.				AGD
06A	25-3129-1/W	07/25/94	.				EV
08A	25-3123-1/PILE	07/25/94	.				EV
09A	25-3123-1/S	07/26/94	.				AGD
10A	25-3123-1/S	07/25/94	.				EV
12A	25-3123-1/N	07/16/94	.				AGD
13A	25-3123-1/N	07/25/94	.				EV
15A	25-3102-4/PILE	07/25/94	.				EV
17A	25-3102-4/S	07/26/94	.				AGD
18A	25-3102-4/S	07/25/94	.				EV
22A	25-3102-4/S	07/26/94	.				EV
24A	25-3102-4/N	07/26/94	.				AGD
25A	25-3102-4/N	07/25/94	.				EV
29A	25-3102-4/N	07/26/94	.				EV
30A	25-3101-1/W	07/25/94	.				EV
31A	25-3101-1/E	07/25/94	.				EV
32A	25-3101-1/S	07/25/94	.				EV
33A	25-3101-1/N	07/25/94	.				EV
34A	25-3101-1/PILE	07/25/94	.				EV
35A	94-07-053-QC1 MS	07/25/94	.				EV
35B	94-07-053-QC1 MS	07/25/94	.				EV
36A	94-07-053-QC2 MB	07/25/94	.				EV
37A	94-07-053-QC3 CAL VER	NA	.				EV
38A	94-07-053-QC4A MS	07/26/94	.				AGD
38B	94-07-053-QC4B MSD	07/26/94	.				AGD
39A	94-07-053-QC5 MB	07/26/94	.				AGD
48A	94-07-053-QC14 DUPLICATE	07/26/94	.				EV
49A	94-07-053-QC15 MB	07/26/94	.				EV
50A	94-07-053-QC16 CAL VER	NA	.				EV

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FLASH POINT

Minimum:

Maximum:

Method: PENSKYMARTIN

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
21A	25-3102-4/S	NO FLASH	BOILED @ 211°F			08/03/94	JWB
28A	25-3102-4/N	NO FLASH	BOILED @ 212°F			08/03/94	JWB
46A	94-07-053-QC12 WINTERGREEN	100	% RECOVERY			08/03/94	JWB

PCB 1242

Minimum:

0.0 Maximum: 999999.0

Method: GC_ECD

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
22A	25-3102-4/S	<0.05	PPM			07/27/94	JRW
29A	25-3102-4/N	<0.05	PPM			07/27/94	JRW
48A	94-07-053-QC14 DUPLICATE	<0.05	PPM			07/27/94	JRW
49A	94-07-053-QC15 MB	<0.05	PPM			07/27/94	JRW
50A	94-07-053-QC16 CAL VER	110	% RECOVERY			07/26/94	JRW

PCB 1254

Minimum:

0.0 Maximum: 999999.0

Method: GC_ECD

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
22A	25-3102-4/S	<0.05	PPM			07/27/94	JRW
29A	25-3102-4/N	<0.05	PPM			07/27/94	JRW
48A	94-07-053-QC14 DUPLICATE	<0.05	PPM			07/27/94	JRW
49A	94-07-053-QC15 MB	<0.05	PPM			07/27/94	JRW
50A	94-07-053-QC16 CAL VER	138	% RECOVERY			07/26/94	JRE

PCB 1260

Minimum:

0.0 Maximum: 999999.0

Method: GC_ECD

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
22A	25-3102-4/S	<0.05	PPM			07/27/94	JRW
29A	25-3102-4/N	<0.05	PPM			07/27/94	JRW
48A	94-07-053-QC14 DUPLICATE	<0.05	PPM			07/27/94	JRW
49A	94-07-053-QC15 MB	<0.05	PPM			07/27/94	JRW
50A	94-07-053-QC16 CAL VER	108	% RECOVERY			07/26/94	JRW

RADIOISOTOPE SCREEN

Minimum:

Maximum:

Method:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
51A	PACKET #G0405	SEE DATA	PACKAGE				

RADIONUCLIDE FINAL REPORT

Minimum:

0 Maximum: 999999999

Method:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
52A	PACKET #G0405	SEE DATA	PACKAGE				

SAMPLE TIME
Method:

Minimum:

Maximum:

Samp Sample Description
53A 8.0 HOURS 1.5 UNITS

Result

Units
L2 & L1

Limit Prepared Analyzed By

TPH - DIESEL
Method: GC

Minimum:

0 Maximum: 999999999

Samp	Sample Description	Result	Units	Limit Prepared	Analyzed By
01A	25-3129-1PILE	< 10.0	MG/KG		08/10/94 ABC
03A	25-3129-1/E	< 100	MG/KG		08/10/94 ABC
06A	25-3129-1/W	< 10.0	MG/KG		08/10/94 ABC
08A	25-3123-1/PILE	< 10.0	MG/KG		08/10/94 ABC
10A	25-3123-1/S	120	MG/KG		08/10/94 ABC
13A	25-3123-1/N	< 10.0	MG/KG		08/10/94 ABC
15A	25-3102-4/PILE	< 10.0	MG/KG		08/10/94 ABC
18A	25-3102-4/S	18.4	MG/KG (TEXT)		08/10/94 ABC
25A	25-3102-4/N	126	MG/KG		08/10/94 ABC
30A	25-3101-1/W	< 10.0	MG/KG		08/10/94 ABC
31A	25-3101-1/E	2400	MG/KG		08/12/94 ABC
32A	25-3101-1/S	< 10.0	MG/KG		08/10/94 ABC
33A	25-3101-1/N	< 10.0	MG/KG		08/10/94 ABC
34A	25-3101-1/PILE	983	MG/KG		08/10/94 ABC
35A	94-07-053-QC1 MS	81.0	% RECOVERY		08/10/94 ABC
35B	94-07-053-QC1 MS	92.2	% RECOVERY		08/10/94 ABC
36A	94-07-053-QC2 MB	< 10.0	MG/KG		08/09/94 ABC
37A	94-07-053-QC3 CAL VER	102	% RECOVERY		08/09/94 ABC

TPH - GASOLINE
Method: GC

Minimum:

0 Maximum: 999999999

Samp	Sample Description	Result	Units	Limit Prepared	Analyzed By
01A	25-3129-1PILE	NA			
03A	25-3129-1/E	NA			
06A	25-3129-1/W	NA			
08A	25-3123-1/PILE	NA			
10A	25-3123-1/S	NA			
13A	25-3123-1/N	NA			
15A	25-3102-4/PILE	NA			
18A	25-3102-4/S	< 5.0	MG/KG		07/24/94 ABC
25A	25-3102-4/N	< 5.0	MG/KG		07/24/94 ABC
30A	25-3101-1/W	NA			
31A	25-3101-1/E	NA			
32A	25-3101-1/S	NA			
33A	25-3101-1/N	NA			
34A	25-3101-1/PILE	NA			
35A	94-07-053-QC1 MS	NA			
35B	94-07-053-QC1 MS	NA			
36A	94-07-053-QC2 MB	< 5.0	MG/KG		07/24/94 ABC

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REGULAR TEST RESULTS BY TEST

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<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
37A	94-07-053-QC3 CAL VER	110	% RECOVERY			07/24/94	ABC

TPH - GASOLINE MATRIX SPK Minimum: 0 Maximum: 999999999
Method: GC

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
01A	25-3129-1/PILE	NA					
03A	25-3129-1/E	NA					
06A	25-3129-1/W	NA					
08A	25-3123-1/PILE	NA					
10A	25-3123-1/S	NA					
13A	25-3123-1/N	NA					
15A	25-3102-4/PILE	NA					
18A	25-3102-4/S	157	% RECOVERY			07/24/94	ABC
25A	25-3102-4/N	135	% RECOVERY			07/24/94	ABC
30A	25-3101-1/W	NA					
31A	25-3101-1/E	NA					
32A	25-3101-1/S	NA					
33A	25-3101-1/N	NA					
34A	25-3101-1/PILE	NA					
35A	94-07-053-QC1 MS	NA					
35B	94-07-053-QC1 MS	NA					
36A	94-07-053-QC2 MB	NA					
37A	94-07-053-QC3 CAL VER	NA					

TPH - OIL Minimum: 0 Maximum: 999999999
Method: GC

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
01A	25-3129-1/PILE	NA					
03A	25-3129-1/E	NA					
06A	25-3129-1/W	NA					
08A	25-3123-1/PILE	NA					
10A	25-3123-1/S	NA					
13A	25-3123-1/N	NA					
15A	25-3102-4/PILE	NA					
18A	25-3102-4/S	< 10.0	MG/KG			08/10/94	ABC
25A	25-3102-4/N	< 10.0	MG/KG			08/10/94	ABC
30A	25-3101-1/W	NA					
31A	25-3101-1/E	NA					
32A	25-3101-1/S	NA					
33A	25-3101-1/N	NA					
34A	25-3101-1/PILE	NA					
35A	94-07-053-QC1 MS	127	% RECOVERY			08/10/94	ABC
35B	94-07-053-QC1 MS	122	% RECOVERY			08/10/94	ABC
36A	94-07-053-QC2 MB	< 10.0	MG/KG			08/09/94	ABC
37A	94-07-053-QC3 CAL VER	104	% RECOVERY			08/09/94	ABC

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REGULAR TEST RESULTS BY TEST

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TPH - TOTAL
Method: GC

Minimum: 0 Maximum: 999999999

Samp	Sample Description	Result	Units	Limit	Prepared	Analyzed	By
01A	25-3129-1/PILE	NA					
03A	25-3129-1/E	NA					
06A	25-3129-1/W	NA					
08A	25-3123-1/PILE	NA					
10A	25-3123-1/S	NA					
13A	25-3123-1/N	NA					
15A	25-3102-4/PILE	NA					
18A	25-3102-4/S	18.4	MG/KG				
25A	25-3102-4/N	126	MG/KG				
30A	25-3101-1/W	NA					
31A	25-3101-1/E	NA					
32A	25-3101-1/S	NA					
33A	25-3101-1/N	NA					
34A	25-3101-1/PILE	NA					
35A	94-07-053-QC1 MS	NA					
35B	94-07-053-QC1 MS	NA					
36A	94-07-053-QC2 MB	< 25.0	MG/KG				
37A	94-07-053-QC3 CAL VER	NA					

VOLATILE ORGANIC ANALYSIS
Method: SW846 8260

Minimum: Maximum:

Samp	Sample Description	Result	Units	Limit	Prepared	Analyzed	By
16A	25-3102-4/S	SEE DATA	PACKAGE			07/25/94	TCS
16B	25-3102-4/S MS	SEE DATA	PACKAGE			07/25/94	TCS
23A	25-3102-4/N	SEE DATA	PACKAGE			07/25/94	TCS
54A	94TAP0720-1 TRIP BLANK	SEE DATA	PACKAGE			07/25/94	TCS

pH
Method: METER

Minimum: 0 Maximum: 999999999

Samp	Sample Description	Result	Units	Limit	Prepared	Analyzed	By
20A	25-3102-4/S	6.65	pH UNITS			07/21/94	AJK
27A	25-3102-4/N	7.16	pH UNITS			07/21/94	AJK
47A	94-07-053-QC13 BUFFERS	7.05	pH UNITS			07/21/94	AJK

PCB ANALYST'S NOTES: THE 1254 CALIBRATION VERIFICATION GAVE A HIGH RECOVERY BUT AROCLORS WERE NOT OBSERVED IN THE SAMPLES AND THIS IS NOT VIEWED AS A PROBLEM.

TPH ANALYST'S NOTES: Sample 25-3129-1/E was run at a dilution level of 10 times. This is the reason for the higher than normal reporting limits. The dilution was performed because of coloration and cloudiness indicating that the sample may be heavily contaminated which could possibly cause problems with the GC.

Samples 25-3101-1/E (-31A) and 25-3101-1/PILE (-34A) were initially analyzed at a 50X dilution level because the samples appeared to be heavily contaminated. After this initial analysis it was found that the sample wasn't as contaminated as initially indicated so the samples were reanalyzed at a 10X dilution level on 08/12/94.

VOLATILES DATA

ANALYST NOTES: Volatile Organic Analysis (VOA): METHOD 8240
Date: July 26, 1994
Lab Work Order No.: 94-07-053
Client Sample ID.: 94TAP0720-1, 25-3102-4/S, 25-3102-4/SMS,
25-3102-4/SMSD, 25-3102-4/N

The samples were analyzed on a Hewlett Packard 5890 GC/5970 MSD, with a Tekmar purge and trap connected for direct injection on column. Instrumental parameters used are those specified in SW-846, 3rd Edition, September 1986, METHOD 8240 (for capillary column GC).

The target analytes are listed with their CAS numbers, and the amount of the target compound found in ug/L or ug/Kg, depending on the matrix (water or soil, respectively). If the analyte was not found in the sample, the quantitation limit is reported preceded by an n.d. qualifier in the "result" column. The qualifiers used in this reporting format are:

- n.d.- Indicates compound was analyzed for but not detected.
- J- Indicates an estimated value. Indicates the presence of a compound that meets the identification criteria, but the result is less than the sample quantitation limit but greater than zero.
- B- This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E- This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D- This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- T- This flag is used when the analyte is found in the associated TCLP extraction blank as well as the sample. It indicates possible/probable contamination.
- X- This flag is used when the analyte is found in the associated methanol extraction blank as well as in the sample. It indicates possible/probable contamination.
- MS- This flag indicates a compound that was spiked into the sample, by the analyst, to help determine a possible/probable matrix effect.

The volatile compounds **methylene chloride**, **acetone**, and **2-butanone** are considered to be common laboratory contaminants by the U.S. EPA. The U.S. EPA Contract Laboratory Program (CLP) Statement of Work for Organic Analysis, OLM01.1-.6, dated June 1991, Exhibit D, Section IV, paragraph 10.10

allows concentrations up to five times (5X) the Contract Required Quantitation Limit (CRQL) of 10 ppb (ie 50 ppb is allowed) of the common laboratory contaminants methylene chloride, acetone and 2-butanone to be present in the method blank before reanalysis is required. If these contaminants are found in samples as well as the method blank, they are to be qualified by a "B" to show they are possible laboratory contamination.

PERCENT MOISTURE:

25-3102-4/S

$(5.053\text{g} - 4.792\text{g}) / 5.053\text{g} * 100 = 5\%$

25-3102-4/N

$(5.004\text{g} - 4.700\text{g}) / 5.004\text{g} * 100 = 6\%$

[MS/MSD Recovery Report] : .crix:WATER

QC Target File=QVOLSM

NS Name :25-3102-4/S

Operator: TAMARA

NS Miscel.:94-07-053-16A 5g HTPU

Instrument:VOA1 Datafile: >TD087 Idfile: ID_VM1 Quantfile: ^TD087
Continuing calibration time :10:14 on 07-25-94 using the file: ^HPU02::D3
User dilfac:1.0 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Non-Spiked Sample Report

Name	Sample Result	QC Limits and			MS/MSD Spikes	
		<----QC Limits---->			Spikes	
		Recom.	Recov.	RPD	MS	MSD
1,1-Dichloroethene	n.d.	59.	- 172.	22.	50.	50.
Trichloroethene	n.d.	62.	- 137.	24.	50.	50.
Benzene	n.d.	66.	- 142.	21.	50.	50.
Toluene	n.d.	59.	- 139.	21.	50.	50.
Chlorobenzene	n.d.	60.	- 133.	21.	50.	50.

MS Recovery Report

Instrument:VOA1 Datafile: >TD089 Idfile: ID_VM1 Quantfile: ^TD089

Name	Sample Result	Percent Recovery	Flag
1,1-Dichloroethene	50.	99.	pass
Trichloroethene	48.	96.	pass
Benzene	48.	96.	pass
Toluene	49.	99.	pass
Chlorobenzene	48.	97.	pass

MSD Recovery Report

Instrument:VOA1 Datafile: >TD090 Idfile: ID_VM1 Quantfile: ^TD090

Name	Sample Result	Percent Recovery	Flag	RPD	Flag
1,1-Dichloroethene	49.	98.	pass	1.	pass
Trichloroethene	49.	98.	pass	2.	pass
Benzene	51.	102.	pass	6.	pass
Toluene	51.	101.	pass	3.	pass
Chlorobenzene	49.	97.	pass	1.	pass

EPA 624/8240: REECO ASI LAB Volatile Organics I t Results

Name Field: 94TAP0720-1 Blank:>TD084:PASS QaQc File: QVOLWM
 Misc Field: 94-07-053-54A 5ML HT PU
 Instrument: VOA1 Datafile: >TD088 Idfile: ID_VM1 Quantfile: ^TD088

Injection time: 16:24 on 07-25-94 Quant Time: 16:48 on 07-25-94
 Continuing calibration time : 10:14 on 07-25-94 using the file: ^HPU02::D3
 User dilfac:1 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/L	10.
Bromomethane	74-83-9	n.d.	UG/L	10.
Vinyl Chloride	75-01-4	n.d.	UG/L	10.
Chloroethane	75-00-3	n.d.	UG/L	10.
Methylene Chloride	75-09-2	n.d.	UG/L	5.
Acetone	67-64-1	n.d.	UG/L	10.
Carbon Disulfide	75-15-0	n.d.	UG/L	5.
1,1-Dichloroethene	75-35-4	n.d.	UG/L	5.
1,1-Dichloroethane	75-34-3	n.d.	UG/L	5.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/L	5.
Chloroform	67-66-3	n.d.	UG/L	5.
1,2-Dichloroethane	107-02-2	n.d.	UG/L	5.
2-Butanone	78-93-3	n.d.	UG/L	10.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/L	5.
Carbon Tetrachloride	56-23-5	n.d.	UG/L	5.
Bromodichloromethane	75-27-4	n.d.	UG/L	5.
1,2-Dichloropropane	78-87-5	n.d.	UG/L	5.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/L	5.
Trichloroethene	79-01-6	n.d.	UG/L	5.
Dibromochloromethane	124-48-1	n.d.	UG/L	5.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/L	5.
Benzene	71-43-2	n.d.	UG/L	5.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/L	5.
Bromoform	75-25-2	n.d.	UG/L	5.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/L	10.
2-Hexanone	591-78-6	n.d.	UG/L	10.
Tetrachloroethene	127-18-4	n.d.	UG/L	5.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/L	5.
Toluene	108-88-3	n.d.	UG/L	5.
Chlorobenzene	108-90-7	n.d.	UG/L	5.
Ethylbenzene	100-41-4	n.d.	UG/L	5.
Styrene	100-42-5	n.d.	UG/L	5.
m,p-Xylene	133-02-7	n.d.	UG/L	5.
Xylene (total)	133-02-7	n.d.	UG/L	5.
1,3-Dichlorobenzene	541-73-1	n.d.	UG/L	5.
1,4-Dichlorobenzene	106-46-7	n.d.	UG/L	5.
1,2-Dichlorobenzene	95-50-1	n.d.	UG/L	5.

n.d. - not detected

Approved by: _____

EPA 624/8260 REECO ASD Analytical Chemistry Laboratory, VOA Results

Name Field: 25-3102-4/N Blank:>TD084:PASS QaQc File: QVOLSM
 Misc Field: 94-07-053-23A 5g HTPU
 Instrument: VOA1 Datafile: >TD086 Idfile: ID_VM1 Quantfile: ^TD086

Injection time: 15:24 on 07-25-94 Quant Time: 15:48 on 07-25-94
 Continuing calibration time : 10:14 on 07-25-94 using the file: ^HPU02::D3
 User dilfac:1 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/KG	11.
Bromomethane	74-83-9	n.d.	UG/KG	11.
Vinyl Chloride	75-01-4	n.d.	UG/KG	11.
Chloroethane	75-00-3	n.d.	UG/KG	11.
Methylene Chloride	75-09-2	n.d.	UG/KG	5.
Acetone	67-64-1	n.d.	UG/KG	11.
Carbon Disulfide	75-15-0	n.d.	UG/KG	5.
1,1-Dichloroethene	75-35-4	n.d.	UG/KG	5.
1,1-Dichloroethane	75-34-3	n.d.	UG/KG	5.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/KG	5.
Chloroform	67-66-3	n.d.	UG/KG	5.
1,2-Dichloroethane	107-02-2	n.d.	UG/KG	5.
2-Butanone	78-93-3	n.d.	UG/KG	11.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/KG	5.
Carbon Tetrachloride	56-23-5	n.d.	UG/KG	5.
Vinyl Acetate	108-05-4	n.d.	UG/KG	5.
Bromodichloromethane	75-27-4	n.d.	UG/KG	5.
1,2-Dichloropropane	78-87-5	n.d.	UG/KG	5.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/KG	5.
Trichloroethene	79-01-6	n.d.	UG/KG	5.
Dibromochloromethane	124-48-1	n.d.	UG/KG	5.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/KG	5.
Benzene	71-43-2	n.d.	UG/KG	5.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/KG	5.
Bromoform	75-25-2	n.d.	UG/KG	5.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/KG	11.
2-Hexanone	591-78-6	n.d.	UG/KG	11.
Tetrachloroethene	127-18-4	n.d.	UG/KG	5.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/KG	5.
Toluene	108-88-3	n.d.	UG/KG	5.
Chlorobenzene	108-90-7	n.d.	UG/KG	5.
Ethylbenzene	100-41-4	n.d.	UG/KG	5.
Styrene	100-42-5	n.d.	UG/KG	5.
m,p-Xylene	133-02-7	n.d.	UG/KG	5.
Xylene (total)	133-02-7	n.d.	UG/KG	5.

n.d. - not detected

Approved by: _____

EPA 624/8260 REECO ASD Analytical Chemistry Laboratory, VOA Results

Name Field: 25-3102-4/S Blank:>TD084:PASS QaQc File: QVOLSM
Misc Field: 94-07-053-16A 5g HTPU
Instrument: VOA1 Datafile: >TD087 Idfile: ID_VM1 Quantfile: ^TD087

Injection time: 15:53 on 07-25-94 Quant Time: 16:17 on 07-25-94
Continuing calibration time : 10:14 on 07-25-94 using the file: ^HPU02::D3
User dilfac:1 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/KG	10.
Bromomethane	74-83-9	n.d.	UG/KG	10.
Vinyl Chloride	75-01-4	n.d.	UG/KG	10.
Chloroethane	75-00-3	n.d.	UG/KG	10.
Methylene Chloride	75-09-2	n.d.	UG/KG	5.
Acetone	67-64-1	n.d.	UG/KG	10.
Carbon Disulfide	75-15-0	n.d.	UG/KG	5.
1,1-Dichloroethene	75-35-4	n.d.	UG/KG	5.
1,1-Dichloroethane	75-34-3	n.d.	UG/KG	5.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/KG	5.
Chloroform	67-66-3	n.d.	UG/KG	5.
1,2-Dichloroethane	107-02-2	n.d.	UG/KG	5.
2-Butanone	78-93-3	n.d.	UG/KG	10.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/KG	5.
Carbon Tetrachloride	56-23-5	n.d.	UG/KG	5.
Vinyl Acetate	108-05-4	n.d.	UG/KG	5.
Bromodichloromethane	75-27-4	n.d.	UG/KG	5.
1,2-Dichloropropane	78-87-5	n.d.	UG/KG	5.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/KG	5.
Trichloroethene	79-01-6	n.d.	UG/KG	5.
Dibromochloromethane	124-48-1	n.d.	UG/KG	5.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/KG	5.
Benzene	71-43-2	n.d.	UG/KG	5.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/KG	5.
Bromoform	75-25-2	n.d.	UG/KG	5.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/KG	10.
2-Hexanone	591-78-6	n.d.	UG/KG	10.
Tetrachloroethene	127-18-4	n.d.	UG/KG	5.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/KG	5.
Toluene	108-88-3	n.d.	UG/KG	5.
Chlorobenzene	108-90-7	n.d.	UG/KG	5.
Ethylbenzene	100-41-4	n.d.	UG/KG	5.
Styrene	100-42-5	n.d.	UG/KG	5.
m,p-Xylene	133-02-7	n.d.	UG/KG	5.
Xylene (total)	133-02-7	n.d.	UG/KG	5.

n.d. - not detected

Approved by: _____

EPA 624/8260 REECO ASD Analytical Chemistry Laboratory, VOA Results

Name Field: 25-3102-4/SMS Blank:>TD084:PASS QaQc File: QVOLSM
 Misc Field: 94-07-053-16B 5g HTPU MATRIX SPIKE
 Instrument: VOA1 Datafile: >TD089 Idfile: ID_VM1 Quantfile: ^TD089

Injection time: 16:53 on 07-25-94 Quant Time: 17:18 on 07-25-94
 Continuing calibration time : 10:14 on 07-25-94 using the file: ^HPU02::D3
 User dilfac:1 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/KG	10.
Bromomethane	74-83-9	n.d.	UG/KG	10.
Vinyl Chloride	75-01-4	n.d.	UG/KG	10.
Chloroethane	75-00-3	n.d.	UG/KG	10.
Methylene Chloride	75-09-2	n.d.	UG/KG	5.
Acetone	67-64-1	n.d.	UG/KG	10.
Carbon Disulfide	75-15-0	n.d.	UG/KG	5.
1,1-Dichloroethene	75-35-4	50. MS	UG/KG	5.
1,1-Dichloroethane	75-34-3	n.d.	UG/KG	5.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/KG	5.
Chloroform	67-66-3	n.d.	UG/KG	5.
1,2-Dichloroethane	107-02-2	n.d.	UG/KG	5.
2-Butanone	78-93-3	n.d.	UG/KG	10.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/KG	5.
Carbon Tetrachloride	56-23-5	n.d.	UG/KG	5.
Vinyl Acetate	108-05-4	n.d.	UG/KG	5.
Bromodichloromethane	75-27-4	n.d.	UG/KG	5.
1,2-Dichloropropane	78-87-5	n.d.	UG/KG	5.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/KG	5.
Trichloroethene	79-01-6	48. MS	UG/KG	5.
Dibromochloromethane	124-48-1	n.d.	UG/KG	5.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/KG	5.
Benzene	71-43-2	48. MS	UG/KG	5.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/KG	5.
Bromoform	75-25-2	n.d.	UG/KG	5.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/KG	10.
2-Hexanone	591-78-6	n.d.	UG/KG	10.
Tetrachloroethene	127-18-4	n.d.	UG/KG	5.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/KG	5.
Toluene	108-88-3	49. MS	UG/KG	5.
Chlorobenzene	108-90-7	48. MS	UG/KG	5.
Ethylbenzene	100-41-4	n.d.	UG/KG	5.
Styrene	100-42-5	n.d.	UG/KG	5.
m,p-Xylene	133-02-7	n.d.	UG/KG	5.
Xylene (total)	133-02-7	n.d.	UG/KG	5.

n.d. - not detected

Approved by: _____

EPA 624/8260 REECO ASD Analytical Chemistry Laboratory, VOA Results

Name Field: 25-3102-4/SMSD Blank:>TD084:PASS QaQc File: QVOLSM
 Misc Field: 94-07-053-16C 5g HTPU MATRIX SPIKE DUP
 Instrument: VOA1 Datafile: >TD090 Idfile: ID_VM1 Quantfile: ^TD090

Injection time: 17:23 on 07-25-94 Quant Time: 17:47 on 07-25-94
 Continuing calibration time : 10:14 on 07-25-94 using the file: ^HPU02::D3
 User dilfac:1 Quant dilfac: 1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Units	Detection Limit
Chloromethane	74-87-3	n.d.	UG/KG	10.
Bromomethane	74-83-9	n.d.	UG/KG	10.
Vinyl Chloride	75-01-4	n.d.	UG/KG	10.
Chloroethane	75-00-3	n.d.	UG/KG	10.
Methylene Chloride	75-09-2	n.d.	UG/KG	5.
Acetone	67-64-1	n.d.	UG/KG	10.
Carbon Disulfide	75-15-0	n.d.	UG/KG	5.
1,1-Dichloroethene	75-35-4	49. MS	UG/KG	5.
1,1-Dichloroethane	75-34-3	n.d.	UG/KG	5.
1,2-Dichloroethene (total)	540-59-0	n.d.	UG/KG	5.
Chloroform	67-66-3	n.d.	UG/KG	5.
1,2-Dichloroethane	107-02-2	n.d.	UG/KG	5.
2-Butanone	78-93-3	n.d.	UG/KG	10.
1,1,1-Trichloroethane	71-55-6	n.d.	UG/KG	5.
Carbon Tetrachloride	56-23-5	n.d.	UG/KG	5.
Vinyl Acetate	108-05-4	n.d.	UG/KG	5.
Bromodichloromethane	75-27-4	n.d.	UG/KG	5.
1,2-Dichloropropane	78-87-5	n.d.	UG/KG	5.
cis-1,3-Dichloropropene	10061-01-5	n.d.	UG/KG	5.
Trichloroethene	79-01-6	49. MS	UG/KG	5.
Dibromochloromethane	124-48-1	n.d.	UG/KG	5.
1,1,2-Trichloroethane	79-00-5	n.d.	UG/KG	5.
Benzene	71-43-2	51. MS	UG/KG	5.
trans-1,3-Dichloropropene	10061-02-6	n.d.	UG/KG	5.
Bromoform	75-25-2	n.d.	UG/KG	5.
4-Methyl-2-pentanone	108-10-1	n.d.	UG/KG	10.
2-Hexanone	591-78-6	n.d.	UG/KG	10.
Tetrachloroethene	127-18-4	n.d.	UG/KG	5.
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	UG/KG	5.
Toluene	108-88-3	51. MS	UG/KG	5.
Chlorobenzene	108-90-7	49. MS	UG/KG	5.
Ethylbenzene	100-41-4	n.d.	UG/KG	5.
Styrene	100-42-5	n.d.	UG/KG	5.
m,p-Xylene	133-02-7	n.d.	UG/KG	5.
Xylene (total)	133-02-7	n.d.	UG/KG	5.

n.d. - not detected

Approved by: _____

Blank Run Report

EPA 624/8260 REECO ASD Analytical Chemistry Laboratory VOA Results

Name Field: VBLK6B

QaQc File: QVOLSM

Misc Field: LOW SOIL METH BLK 5g HTPU

Instrument: VOA1

Datafile: >TD084

Idfile: ID_VM1

Quantfile: ^TD084

Injection time: 14:02 on 07-25-94

Quant Time: 14:26 on 07-25-94

Continuing calibration time : 10:14 on 07-25-94

using the file: ^HPU02::D3

User dilfac:1

Quant dilfac:

1. Multi-calibration: 13:17 on 01-19-93

Compound Name	CAS Number	Result	Allowed	Blank Flag
Chloromethane	74-87-3	n.d.	10.0	ok
Bromomethane	74-83-9	n.d.	10.0	ok
Vinyl Chloride	75-01-4	n.d.	10.0	ok
Chloroethane	75-00-3	n.d.	10.0	ok
Methylene Chloride	75-09-2	n.d.	25.0	ok
Acetone	67-64-1	n.d.	50.0	ok
Carbon Disulfide	75-15-0	n.d.	5.0	ok
1,1-Dichloroethene	75-35-4	n.d.	5.0	ok
1,1-Dichloroethane	75-34-3	n.d.	5.0	ok
1,2-Dichloroethene (total)	540-59-0	n.d.	5.0	ok
Chloroform	67-66-3	n.d.	5.0	ok
1,2-Dichloroethane	107-02-2	n.d.	5.0	ok
2-Butanone	78-93-3	n.d.	50.0	ok
1,1,1-Trichloroethane	71-55-6	n.d.	5.0	ok
Carbon Tetrachloride	56-23-5	n.d.	5.0	ok
Vinyl Acetate	108-05-4	n.d.	5.0	ok
Bromodichloromethane	75-27-4	n.d.	5.0	ok
1,2-Dichloropropane	78-87-5	n.d.	5.0	ok
cis-1,3-Dichloropropene	10061-01-5	n.d.	5.0	ok
Trichloroethene	79-01-6	n.d.	5.0	ok
Dibromochloromethane	124-48-1	n.d.	5.0	ok
1,1,2-Trichloroethane	79-00-5	n.d.	5.0	ok
Benzene	71-43-2	n.d.	5.0	ok
trans-1,3-Dichloropropene	10061-02-6	n.d.	5.0	ok
Bromoform	75-25-2	n.d.	5.0	ok
4-Methyl-2-pentanone	108-10-1	n.d.	10.0	ok
2-Hexanone	591-78-6	n.d.	10.0	ok
Tetrachloroethene	127-18-4	n.d.	5.0	ok
1,1,2,2-Tetrachloroethane	79-34-5	n.d.	5.0	ok
Toluene	108-88-3	n.d.	25.0	ok
Chlorobenzene	108-90-7	n.d.	5.0	ok
Ethylbenzene	100-41-4	n.d.	5.0	ok
Styrene	100-42-5	n.d.	5.0	ok
m,p-Xylene	133-02-7	n.d.	5.0	ok
Xylene (total)	133-02-7	n.d.	5.0	ok

n.d. - not detected

Approved by: _____

SEMIVOLATILES DATA

ANALYST NOTES: BNA

Date: August 15, 1994

Lab Work Order No.: 94-07-053

Client Sample ID.: SBLK072694

25-3129-1/E, 25-3129-1/W, -MS, -MSD

25-3123-1/S, -1/N, 25-3102-4/S, -4/N

Analyst:

Phil Briggs

The samples were analyzed on a Hewlett Packard 5890 GC/5970 MSD. Data were collected on an HP 1000/RTE-A data system. Instrumental parameters used are those specified in **SW-846** 3rd edition, September, 1986, METHOD 8270 (for capillary column GC).

The target analytes are listed with their CAS numbers, and the amount of the target compound found in ug/L or ug/kg, depending on the matrix (water or soil, respectively). If the analyte was not found in the sample, the quantitation limit is reported preceded by an n.d. qualifier in the "result" column. The qualifiers used in this reporting format are:

n.d. - Indicates compound was analyzed for but not detected. Indicates an estimated value. Indicates the presence of a compound that meets the identification criteria, but the result is less than the sample quantitation limit but greater than zero.

B- This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.

E- This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D- This flag identifies all compounds identified in an analysis at a secondary dilution factor.

Naming convention changes for the TCLP: Where SW 846 and CLP refer to methylphenols, the TCLP refers to the same compounds as cresols..

Case Narrative:

All QC requirements for internal standard and surrogates passed well for all samples. Matrix spike and matrix spike recoveries were also very good and were reproduceable. These were clean samples: There were no targets, no TICs and no contamination (including hydrocarbons).

NS Name :25-3129-1/W

Operator: PHIL

NS Miscel.:94-07-053-05A

Instrument:BNAl Datafile: >SD799 Idfile: ID_B1X Quantfile: ^SD799

Continuing calibration time :18:31 on 08-09-94 using the file: ^SC392::D5

User dilfac:1 Quant dilfac: 1. Multi-calibration: 14:49 on 08-06-94

Non-Spiked Sample Report

Name	Sample Result	QC Limits and			MS/MSD Spikes	
		<----QC Limits---->			Spikes	
		Recom.	Recov.	RPD	MS	MSD
Phenol	n.d.	26.	- 90.	35.	200.	200.
2-Chlorophenol	n.d.	25.	- 102.	50.	200.	200.
1,4-Dichlorobenzene	n.d.	28.	- 104.	27.	100.	100.
N-Nitroso-di-n-propylamine	n.d.	41.	- 126.	38.	100.	100.
1,2,4-Trichlorobenzene	n.d.	38.	- 107.	23.	100.	100.
4-Chloro-3-methylphenol	n.d.	26.	- 103.	33.	200.	200.
Acenaphthene	n.d.	31.	- 137.	19.	100.	100.
4-Nitrophenol	n.d.	11.	- 114.	50.	200.	200.
2,4-Dinitrotoluene	n.d.	28.	- 89.	47.	100.	100.
Pentachlorophenol	n.d.	17.	- 109.	47.	200.	200.
Pyrene	n.d.	35.	- 142.	36.	100.	100.

MS Recovery Report

Instrument:BNAl Datafile: >SD804 Idfile: ID_B1X Quantfile: ^SD804

Name	Sample Result	Percent Recovery	Flag
Phenol	160.	78.	pass
2-Chlorophenol	170.	84.	pass
1,4-Dichlorobenzene	82.	82.	pass
N-Nitroso-di-n-propylamine	110.	107.	pass
1,2,4-Trichlorobenzene	85.	85.	pass
4-Chloro-3-methylphenol	170.	86.	pass
Acenaphthene	93.	93.	pass
4-Nitrophenol	250.	127.	fail
2,4-Dinitrotoluene	98.	98.	fail
Pentachlorophenol	180.	91.	pass
Pyrene	120.	116.	pass

MSD Recovery Report

Instrument:BNAl Datafile: >SD805 Idfile: ID_B1X Quantfile: ^SD805

Name	Sample Result	Percent Recovery	Flag	RPD	Flag
Phenol	150.	75.	pass	4.	pass
2-Chlorophenol	150.	77.	pass	9.	pass
1,4-Dichlorobenzene	66.	66.	pass	22.	pass
N-Nitroso-di-n-propylamine	100.	101.	pass	6.	pass
1,2,4-Trichlorobenzene	76.	76.	pass	11.	pass
4-Chloro-3-methylphenol	170.	85.	pass	1.	pass
Acenaphthene	92.	92.	pass	1.	pass
4-Nitrophenol	240.	122.	fail	4.	pass
2,4-Dinitrotoluene	94.	94.	fail	4.	pass
Pentachlorophenol	180.	89.	pass	2.	pass
Pyrene	110.	112.	pass	3.	pass

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3129-1/E
 Misc Field: 94-07-053-02A
 Instrument: BNA1

Blank: ^SD797:PASS QaQc File: QS90SM
 Datafile: >SD798 Idfile: ID_B1X Quantfile: ^SD798

Injection time: 21:04 on 08-09-94 Quant Time: 21:47 on 08-09-94
 Continuing calibration time : 18:31 on 08-09-94 using the file: ^SC392::D5
 User dilfac:35.2 Quant dilfac: 1. Multi-calibration: 14:49 on 08-06-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	350.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	350.
2-Chlorophenol	95-57-8	n.d.	ug/kg	350.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	350.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	350.
Benzyl alcohol	100-51-6	n.d.	ug/kg	350.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	350.
2-Methylphenol	95-48-7	n.d.	ug/kg	350.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	350.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	350.
4-Methylphenol	106-44-5	n.d.	ug/kg	350.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	350.
Hexachloroethane	67-72-1	n.d.	ug/kg	350.
Nitrobenzene	98-95-3	n.d.	ug/kg	350.
Isophorone	78-59-1	n.d.	ug/kg	350.
2-Nitrophenol	88-75-5	n.d.	ug/kg	350.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	350.
Benzoic acid	65-85-0	n.d.	ug/kg	1800.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	350.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	350.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	350.
Naphthalene	91-20-3	n.d.	ug/kg	350.
4-Chloroaniline	106-47-8	n.d.	ug/kg	350.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	350.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	350.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	350.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	350.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	350.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1800.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	350.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1800.
Dimethylphthalate	131-11-3	n.d.	ug/kg	350.
Acenaphthylene	208-96-8	n.d.	ug/kg	350.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	350.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1800.
Acenaphthene	83-32-9	n.d.	ug/kg	350.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1800.
4-Nitrophenol	100-02-7	n.d.	ug/kg	1800.
Dibenzofuran	132-64-9	n.d.	ug/kg	350.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	350.
Diethylphthalate	84-66-2	n.d.	ug/kg	350.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	350.
Fluorene	86-73-7	n.d.	ug/kg	350.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1800.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3129-1/E
Misc Field: 94-07-053-02A
Instrument: BNA1

Blank: ^SD797:PASS QaQc File: QS90SM
Datafile: >SD798 Idfile: ID_B1X Quantfile: ^SD798

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1800.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	350.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	350.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	350.
Pentachlorophenol	87-86-5	n.d.	ug/kg	1800.
Phenanthrene	85-01-8	n.d.	ug/kg	350.
Anthracene	120-12-7	n.d.	ug/kg	350.
Carbazole	86-74-8	n.d.	ug/kg	350.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	350.
Fluoranthene	206-44-0	n.d.	ug/kg	350.
Pyrene	129-00-0	n.d.	ug/kg	350.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	350.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	700.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	350.
Chrysene	218-01-9	n.d.	ug/kg	350.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	350.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	350.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	350.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	350.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	350.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	350.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	350.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	350.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3129-1/W

Blank: ^SD797:PASS QaQc File: QS90SM

Misc Field: 94-07-053-05A

Instrument: BNA1

Datafile: >SD799

Idfile: ID_B1X

Quantfile: ^SD799

Injection time: 21:55 on 08-09-94

Quant Time: 22:38 on 08-09-94

Continuing calibration time : 18:31 on 08-09-94

using the file: ^SC392::D5

User dilfac:35.2 Quant dilfac:

1. Multi-calibration: 14:49 on 08-06-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	350.
bis(2-Chloroethyl) ether	111-44-4	n.d.	ug/kg	350.
2-Chlorophenol	95-57-8	n.d.	ug/kg	350.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	350.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	350.
Benzyl alcohol	100-51-6	n.d.	ug/kg	350.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	350.
2-Methylphenol	95-48-7	n.d.	ug/kg	350.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	350.
bis(2-Chloroisopropyl) ether	39638-32-9	n.d.	ug/kg	350.
4-Methylphenol	106-44-5	n.d.	ug/kg	350.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	350.
Hexachloroethane	67-72-1	n.d.	ug/kg	350.
Nitrobenzene	98-95-3	n.d.	ug/kg	350.
Isophorone	78-59-1	n.d.	ug/kg	350.
2-Nitrophenol	88-75-5	n.d.	ug/kg	350.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	350.
Benzoic acid	65-85-0	n.d.	ug/kg	1800.
bis(2-Chloroethoxy) methane	111-91-1	n.d.	ug/kg	350.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	350.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	350.
Naphthalene	91-20-3	n.d.	ug/kg	350.
4-Chloroaniline	106-47-8	n.d.	ug/kg	350.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	350.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	350.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	350.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	350.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	350.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1800.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	350.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1800.
Dimethylphthalate	131-11-3	n.d.	ug/kg	350.
Acenaphthylene	208-96-8	n.d.	ug/kg	350.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	350.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1800.
Acenaphthene	83-32-9	n.d.	ug/kg	350.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1800.
4-Nitrophenol	100-02-7	n.d.	ug/kg	1800.
Dibenzofuran	132-64-9	n.d.	ug/kg	350.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	350.
Diethylphthalate	84-66-2	n.d.	ug/kg	350.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	350.
Fluorene	86-73-7	n.d.	ug/kg	350.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1800.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3129-1/W

Blank: ^SD797:PASS QaQc File: QS90SM

Misc Field: 94-07-053-05A

Instrument: BNA1

Datafile: >SD799

Idfile: ID_B1X

Quantfile: ^SD799

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1800.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	350.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	350.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	350.
Pentachlorophenol	87-86-5	n.d.	ug/kg	1800.
Phenanthrene	85-01-8	n.d.	ug/kg	350.
Anthracene	120-12-7	n.d.	ug/kg	350.
Carbazole	86-74-8	n.d.	ug/kg	350.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	350.
Fluoranthene	206-44-0	n.d.	ug/kg	350.
Pyrene	129-00-0	n.d.	ug/kg	350.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	350.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	700.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	350.
Chrysene	218-01-9	n.d.	ug/kg	350.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	350.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	350.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	350.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	350.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	350.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	350.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	350.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	350.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3129-1/W MS Blank: ^SD797:PASS QaQc File: QS90SM
Misc Field: 94-07-053-38A
Instrument: BNA1 Datafile: >SD804 Idfile: ID_B1X Quantfile: ^SD804

Injection time: 02:11 on 08-10-94 Quant Time: 02:54 on 08-10-94
Continuing calibration time : 18:31 on 08-09-94 using the file: ^SC392::D5
User dilfac:35.2 Quant dilfac: 1. Multi-calibration: 14:49 on 08-06-94

M IS MATRIX SPIKE ADDED TO SAMPLE.

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	5500.M	ug/kg	350.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	350.
2-Chlorophenol	95-57-8	5900.M	ug/kg	350.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	350.
1,4-Dichlorobenzene	106-46-7	2900.M	ug/kg	350.
Benzyl alcohol	100-51-6	n.d.	ug/kg	350.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	350.
2-Methylphenol	95-48-7	n.d.	ug/kg	350.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	350.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	350.
4-Methylphenol	106-44-5	n.d.	ug/kg	350.
N-Nitroso-di-n-propylamine	621-64-7	3800.M	ug/kg	350.
Hexachloroethane	67-72-1	n.d.	ug/kg	350.
Nitrobenzene	98-95-3	n.d.	ug/kg	350.
Isophorone	78-59-1	n.d.	ug/kg	350.
2-Nitrophenol	88-75-5	n.d.	ug/kg	350.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	350.
Benzoic acid	65-85-0	n.d.	ug/kg	1800.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	350.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	350.
1,2,4-Trichlorobenzene	120-82-1	3000.M	ug/kg	350.
Naphthalene	91-20-3	n.d.	ug/kg	350.
4-Chloroaniline	106-47-8	n.d.	ug/kg	350.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	350.
4-Chloro-3-methylphenol	59-50-7	6000.M	ug/kg	350.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	350.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	350.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	350.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1800.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	350.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1800.
Dimethylphthalate	131-11-3	n.d.	ug/kg	350.
Acenaphthylene	208-96-8	n.d.	ug/kg	350.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	350.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1800.
Acenaphthene	83-32-9	3300.M	ug/kg	350.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1800.
4-Nitrophenol	100-02-7	9000.M	ug/kg	1800.
Dibenzofuran	132-64-9	n.d.	ug/kg	350.
2,4-Dinitrotoluene	121-14-2	3400.M	ug/kg	350.
Diethylphthalate	84-66-2	n.d.	ug/kg	350.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	350.
Fluorene	86-73-7	n.d.	ug/kg	350.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1800.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3129-1/W MS Blank: ^SD797:PASS QaQc File: QS90SM
Misc Field: 94-07-053-38A
Instrument: BNA1 Datafile: >SD804 Idfile: ID_B1X Quantfile: ^SD804

M IS MATRIX SPIKE ADDED TO SAMPLE.

Detection

4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1800.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	350.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	350.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	350.
Pentachlorophenol	87-86-5	6400.M	ug/kg	1800.
Phenanthrene	85-01-8	n.d.	ug/kg	350.
Anthracene	120-12-7	n.d.	ug/kg	350.
Carbazole	86-74-8	n.d.	ug/kg	350.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	350.
Fluoranthene	206-44-0	n.d.	ug/kg	350.
Pyrene	129-00-0	4100.M	ug/kg	350.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	350.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	700.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	350.
Chrysene	218-01-9	n.d.	ug/kg	350.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	350.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	350.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	350.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	350.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	350.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	350.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	350.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	350.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3129-1/W MSD

Blank: ^SD797:PASS QaQc File: QS90SM

Misc Field: 94-07-053-38B

Instrument: BNA1

Datafile: >SD805

Idfile: ID_B1X

Quantfile: ^SD805

Injection time: 03:02 on 08-10-94

Quant Time: 03:45 on 08-10-94

Continuing calibration time : 18:31 on 08-09-94

using the file: ^SC392::D5

User dilfac:35.2

Quant dilfac:

1. Multi-calibration: 14:49 on 08-06-94

M IS MATRIX SPIKE ADDED TO SAMPLE.

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	5300.M	ug/kg	350.
bis(2-Chloroethyl) ether	111-44-4	n.d.	ug/kg	350.
2-Chlorophenol	95-57-8	5400.M	ug/kg	350.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	350.
1,4-Dichlorobenzene	106-46-7	2300.M	ug/kg	350.
Benzyl alcohol	100-51-6	n.d.	ug/kg	350.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	350.
2-Methylphenol	95-48-7	n.d.	ug/kg	350.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	350.
bis(2-Chloroisopropyl) ether	39638-32-9	n.d.	ug/kg	350.
4-Methylphenol	106-44-5	n.d.	ug/kg	350.
N-Nitroso-di-n-propylamine	621-64-7	3600.M	ug/kg	350.
Hexachloroethane	67-72-1	n.d.	ug/kg	350.
Nitrobenzene	98-95-3	n.d.	ug/kg	350.
Isophorone	78-59-1	n.d.	ug/kg	350.
2-Nitrophenol	88-75-5	n.d.	ug/kg	350.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	350.
Benzoic acid	65-85-0	n.d.	ug/kg	1800.
bis(2-Chloroethoxy) methane	111-91-1	n.d.	ug/kg	350.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	350.
1,2,4-Trichlorobenzene	120-82-1	2700.M	ug/kg	350.
Naphthalene	91-20-3	n.d.	ug/kg	350.
4-Chloroaniline	106-47-8	n.d.	ug/kg	350.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	350.
4-Chloro-3-methylphenol	59-50-7	6000.M	ug/kg	350.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	350.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	350.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	350.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1800.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	350.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1800.
Dimethylphthalate	131-11-3	n.d.	ug/kg	350.
Acenaphthylene	208-96-8	n.d.	ug/kg	350.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	350.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1800.
Acenaphthene	83-32-9	3200.M	ug/kg	350.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1800.
4-Nitrophenol	100-02-7	8600.M	ug/kg	1800.
Dibenzofuran	132-64-9	n.d.	ug/kg	350.
2,4-Dinitrotoluene	121-14-2	3300.M	ug/kg	350.
Diethylphthalate	84-66-2	n.d.	ug/kg	350.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	350.
Fluorene	86-73-7	n.d.	ug/kg	350.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1800.

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3129-1/W MSD

Blank: ^SD797:PASS QaQc File: QS90SM

Misc Field: 94-07-053-38B

Instrument: BNA1

Datafile: >SD805

Idfile: ID_B1X

Quantfile: ^SD805

M IS MATRIX SPIKE ADDED TO SAMPLE.

				Detection
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1800.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	350.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	350.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	350.
Pentachlorophenol	87-86-5	6300.M	ug/kg	1800.
Phenanthrene	85-01-8	n.d.	ug/kg	350.
Anthracene	120-12-7	n.d.	ug/kg	350.
Carbazole	86-74-8	n.d.	ug/kg	350.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	350.
Fluoranthene	206-44-0	n.d.	ug/kg	350.
Pyrene	129-00-0	4000.M	ug/kg	350.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	350.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	700.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	350.
Chrysene	218-01-9	n.d.	ug/kg	350.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	350.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	350.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	350.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	350.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	350.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	350.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	350.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	350.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3123-1/S

Blank: ^SD797:PASS QaQc File: QS90SM

Misc Field: 94-07-053-09A

Instrument: BNA1

Datafile: >SD800

Idfile: ID_B1X

Quantfile: ^SD800

Injection time: 22:46 on 08-09-94

Quant Time: 23:30 on 08-09-94

Continuing calibration time : 18:31 on 08-09-94

using the file: ^SC392::D5

User dilfac:35.2

Quant dilfac:

1. Multi-calibration: 14:49 on 08-06-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	350.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	350.
2-Chlorophenol	95-57-8	n.d.	ug/kg	350.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	350.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	350.
Benzyl alcohol	100-51-6	n.d.	ug/kg	350.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	350.
2-Methylphenol	95-48-7	n.d.	ug/kg	350.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	350.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	350.
4-Methylphenol	106-44-5	n.d.	ug/kg	350.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	350.
Hexachloroethane	67-72-1	n.d.	ug/kg	350.
Nitrobenzene	98-95-3	n.d.	ug/kg	350.
Isophorone	78-59-1	n.d.	ug/kg	350.
2-Nitrophenol	88-75-5	n.d.	ug/kg	350.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	350.
Benzoic acid	65-85-0	n.d.	ug/kg	1800.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	350.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	350.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	350.
Naphthalene	91-20-3	n.d.	ug/kg	350.
4-Chloroaniline	106-47-8	n.d.	ug/kg	350.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	350.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	350.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	350.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	350.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	350.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1800.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	350.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1800.
Dimethylphthalate	131-11-3	n.d.	ug/kg	350.
Acenaphthylene	208-96-8	n.d.	ug/kg	350.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	350.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1800.
Acenaphthene	83-32-9	n.d.	ug/kg	350.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1800.
4-Nitrophenol	100-02-7	n.d.	ug/kg	1800.
Dibenzofuran	132-64-9	n.d.	ug/kg	350.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	350.
Diethylphthalate	84-66-2	n.d.	ug/kg	350.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	350.
Fluorene	86-73-7	n.d.	ug/kg	350.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1800.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3123-1/S
Misc Field: 94-07-053-09A
Instrument: BNA1

Blank: ^SD797:PASS QaQc File: QS90SM
Datafile: >SD800 Idfile: ID_B1X Quantfile: ^SD800

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1800.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	350.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	350.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	350.
Pentachlorophenol	87-86-5	n.d.	ug/kg	1800.
Phenanthrene	85-01-8	n.d.	ug/kg	350.
Anthracene	120-12-7	n.d.	ug/kg	350.
Carbazole	86-74-8	n.d.	ug/kg	350.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	350.
Fluoranthene	206-44-0	n.d.	ug/kg	350.
Pyrene	129-00-0	n.d.	ug/kg	350.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	350.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	700.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	350.
Chrysene	218-01-9	n.d.	ug/kg	350.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	350.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	350.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	350.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	350.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	350.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	350.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	350.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	350.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results

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Name Field: 25-3123-1/N
Misc Field: 94-07-053-12A

Blank: ^SD797:PASS QaQc File: QS90SM

Instrument: BNA1 Datafile: >SD801 Idfile: ID_B1X Quantfile: ^SD801

Injection time: 23:37 on 08-09-94

Quant Time: 00:21 on 08-10-94

Continuing calibration time : 18:31 on 08-09-94 using the file: ^SC392::D5

User dilfac:43 Quant dilfac: 1. Multi-calibration: 14:49 on 08-06-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	430.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	430.
2-Chlorophenol	95-57-8	n.d.	ug/kg	430.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	430.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	430.
Benzyl alcohol	100-51-6	n.d.	ug/kg	430.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	430.
2-Methylphenol	95-48-7	n.d.	ug/kg	430.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	430.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	430.
4-Methylphenol	106-44-5	n.d.	ug/kg	430.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	430.
Hexachloroethane	67-72-1	n.d.	ug/kg	430.
Nitrobenzene	98-95-3	n.d.	ug/kg	430.
Isophorone	78-59-1	n.d.	ug/kg	430.
2-Nitrophenol	88-75-5	n.d.	ug/kg	430.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	430.
Benzoic acid	65-85-0	n.d.	ug/kg	2200.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	430.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	430.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	430.
Naphthalene	91-20-3	n.d.	ug/kg	430.
4-Chloroaniline	106-47-8	n.d.	ug/kg	430.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	430.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	430.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	430.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	430.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	430.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	2200.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	430.
2-Nitroaniline	88-74-4	n.d.	ug/kg	2200.
Dimethylphthalate	131-11-3	n.d.	ug/kg	430.
Acenaphthylene	208-96-8	n.d.	ug/kg	430.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	430.
3-Nitroaniline	99-09-2	n.d.	ug/kg	2200.
Acenaphthene	83-32-9	n.d.	ug/kg	430.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	2200.
4-Nitrophenol	100-02-7	n.d.	ug/kg	2200.
Dibenzofuran	132-64-9	n.d.	ug/kg	430.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	430.
Diethylphthalate	84-66-2	n.d.	ug/kg	430.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	430.
Fluorene	86-73-7	n.d.	ug/kg	430.
4-Nitroaniline	100-01-6	n.d.	ug/kg	2200.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3123-1/N Blank: ^SD797:PASS QaQc File: QS90SM
Misc Field: 94-07-053-12A
Instrument: BNA1 Datafile: >SD801 Idfile: ID_B1X Quantfile: ^SD801

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	2200.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	430.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	430.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	430.
Pentachlorophenol	87-86-5	n.d.	ug/kg	2200.
Phenanthrene	85-01-8	n.d.	ug/kg	430.
Anthracene	120-12-7	n.d.	ug/kg	430.
Carbazole	86-74-8	n.d.	ug/kg	430.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	430.
Fluoranthene	206-44-0	n.d.	ug/kg	430.
Pyrene	129-00-0	n.d.	ug/kg	430.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	430.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	860.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	430.
Chrysene	218-01-9	n.d.	ug/kg	430.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	430.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	430.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	430.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	430.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	430.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	430.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	430.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	430.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3102-4/S Blank: ^SD797:PASS QaQc File: QS90SM
Misc Field: 94-07-053-17A
Instrument: BNA1 Datafile: >SD802 Idfile: ID_B1X Quantfile: ^SD802

Injection time: 00:29 on 08-10-94 Quant Time: 01:12 on 08-10-94
Continuing calibration time : 18:31 on 08-09-94 using the file: ^SC392::D5
User dilfac:35.2 Quant dilfac: 1. Multi-calibration: 14:49 on 08-06-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	350.
bis(2-Chloroethyl) ether	111-44-4	n.d.	ug/kg	350.
2-Chlorophenol	95-57-8	n.d.	ug/kg	350.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	350.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	350.
Benzyl alcohol	100-51-6	n.d.	ug/kg	350.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	350.
2-Methylphenol	95-48-7	n.d.	ug/kg	350.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	350.
bis(2-Chloroisopropyl) ether	39638-32-9	n.d.	ug/kg	350.
4-Methylphenol	106-44-5	n.d.	ug/kg	350.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	350.
Hexachloroethane	67-72-1	n.d.	ug/kg	350.
Nitrobenzene	98-95-3	n.d.	ug/kg	350.
Isophorone	78-59-1	n.d.	ug/kg	350.
2-Nitrophenol	88-75-5	n.d.	ug/kg	350.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	350.
Benzoic acid	65-85-0	n.d.	ug/kg	1800.
bis(2-Chloroethoxy) methane	111-91-1	n.d.	ug/kg	350.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	350.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	350.
Naphthalene	91-20-3	n.d.	ug/kg	350.
4-Chloroaniline	106-47-8	n.d.	ug/kg	350.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	350.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	350.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	350.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	350.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	350.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1800.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	350.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1800.
Dimethylphthalate	131-11-3	n.d.	ug/kg	350.
Acenaphthylene	208-96-8	n.d.	ug/kg	350.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	350.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1800.
Acenaphthene	83-32-9	n.d.	ug/kg	350.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1800.
4-Nitrophenol	100-02-7	n.d.	ug/kg	1800.
Dibenzofuran	132-64-9	n.d.	ug/kg	350.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	350.
Diethylphthalate	84-66-2	n.d.	ug/kg	350.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	350.
Fluorene	86-73-7	n.d.	ug/kg	350.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1800.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3102-4/S
Misc Field: 94-07-053-17A
Instrument: BNA1

Blank: ^SD797:PASS QaQc File: QS90SM
Datafile: >SD802 Idfile: ID_B1X Quantfile: ^SD802

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1800.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	350.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	350.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	350.
Pentachlorophenol	87-86-5	n.d.	ug/kg	1800.
Phenanthrene	85-01-8	n.d.	ug/kg	350.
Anthracene	120-12-7	n.d.	ug/kg	350.
Carbazole	86-74-8	n.d.	ug/kg	350.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	350.
Fluoranthene	206-44-0	n.d.	ug/kg	350.
Pyrene	129-00-0	n.d.	ug/kg	350.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	350.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	700.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	350.
Chrysene	218-01-9	n.d.	ug/kg	350.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	350.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	350.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	350.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	350.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	350.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	350.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	350.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	350.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3102-4/N Blank: ^SD797:PASS QaQc File: QS90SM
Misc Field: 94-07-053-24A
Instrument: BNA1 Datafile: >SD803 Idfile: ID_B1X Quantfile: ^SD803

Injection time: 01:20 on 08-10-94 Quant Time: 02:03 on 08-10-94
Continuing calibration time : 18:31 on 08-09-94 using the file: ^SC392::D5
User dilfac:35.2 Quant dilfac: 1. Multi-calibration: 14:49 on 08-06-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	350.
bis(2-Chloroethyl)ether	111-44-4	n.d.	ug/kg	350.
2-Chlorophenol	95-57-8	n.d.	ug/kg	350.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	350.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	350.
Benzyl alcohol	100-51-6	n.d.	ug/kg	350.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	350.
2-Methylphenol	95-48-7	n.d.	ug/kg	350.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	350.
bis(2-Chloroisopropyl)ether	39638-32-9	n.d.	ug/kg	350.
4-Methylphenol	106-44-5	n.d.	ug/kg	350.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	350.
Hexachloroethane	67-72-1	n.d.	ug/kg	350.
Nitrobenzene	98-95-3	n.d.	ug/kg	350.
Isophorone	78-59-1	n.d.	ug/kg	350.
2-Nitrophenol	88-75-5	n.d.	ug/kg	350.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	350.
Benzoic acid	65-85-0	n.d.	ug/kg	1800.
bis(2-Chloroethoxy)methane	111-91-1	n.d.	ug/kg	350.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	350.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	350.
Naphthalene	91-20-3	n.d.	ug/kg	350.
4-Chloroaniline	106-47-8	n.d.	ug/kg	350.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	350.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	350.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	350.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	350.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	350.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1800.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	350.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1800.
Dimethylphthalate	131-11-3	n.d.	ug/kg	350.
Acenaphthylene	208-96-8	n.d.	ug/kg	350.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	350.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1800.
Acenaphthene	83-32-9	n.d.	ug/kg	350.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1800.
4-Nitrophenol	100-02-7	n.d.	ug/kg	1800.
Dibenzofuran	132-64-9	n.d.	ug/kg	350.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	350.
Diethylphthalate	84-66-2	n.d.	ug/kg	350.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	350.
Fluorene	86-73-7	n.d.	ug/kg	350.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1800.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: 25-3102-4/N
Misc Field: 94-07-053-24A
Instrument: BNA1

Blank: ^SD797:PASS QaQc File: QS90SM
Idfile: ID_B1X Quantfile: ^SD803

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1800.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	350.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	350.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	350.
Pentachlorophenol	87-86-5	n.d.	ug/kg	1800.
Phenanthrene	85-01-8	n.d.	ug/kg	350.
Anthracene	120-12-7	n.d.	ug/kg	350.
Carbazole	86-74-8	n.d.	ug/kg	350.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	350.
Fluoranthene	206-44-0	n.d.	ug/kg	350.
Pyrene	129-00-0	n.d.	ug/kg	350.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	350.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	700.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	350.
Chrysene	218-01-9	n.d.	ug/kg	350.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	350.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	350.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	350.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	350.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	350.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	350.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	350.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	350.

n.d. - not detected

Approved by: _____

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: SBLK072694 QaQc File: QS90SM
Misc Field: 94-07-053-39A
Instrument: BNA1 Datafile: >SD797 Idfile: ID_B1X Quantfile: ^SD797

Injection time: 20:13 on 08-09-94 Quant Time: 20:56 on 08-09-94
Continuing calibration time : 18:31 on 08-09-94 using the file: ^SC392::D5
User dilfac:35.2 Quant dilfac: 1. Multi-calibration: 14:49 on 08-06-94

Compound Name	CAS Number	Result	Units	Detection Limit
Phenol	108-95-2	n.d.	ug/kg	350.
bis(2-Chloroethyl) ether	111-44-4	n.d.	ug/kg	350.
2-Chlorophenol	95-57-8	n.d.	ug/kg	350.
1,3-Dichlorobenzene	541-73-1	n.d.	ug/kg	350.
1,4-Dichlorobenzene	106-46-7	n.d.	ug/kg	350.
Benzyl alcohol	100-51-6	n.d.	ug/kg	350.
1,2-Dichlorobenzene	95-50-1	n.d.	ug/kg	350.
2-Methylphenol	95-48-7	n.d.	ug/kg	350.
2,2'-oxybis(1-Chloropropane)	108-60-1	n.d.	ug/kg	350.
bis(2-Chloroisopropyl) ether	39638-32-9	n.d.	ug/kg	350.
4-Methylphenol	106-44-5	n.d.	ug/kg	350.
N-Nitroso-di-n-propylamine	621-64-7	n.d.	ug/kg	350.
Hexachloroethane	67-72-1	n.d.	ug/kg	350.
Nitrobenzene	98-95-3	n.d.	ug/kg	350.
Isophorone	78-59-1	n.d.	ug/kg	350.
2-Nitrophenol	88-75-5	n.d.	ug/kg	350.
2,4-Dimethylphenol	105-67-9	n.d.	ug/kg	350.
Benzoic acid	65-85-0	n.d.	ug/kg	1800.
bis(2-Chloroethoxy) methane	111-91-1	n.d.	ug/kg	350.
2,4-Dichlorophenol	120-83-2	n.d.	ug/kg	350.
1,2,4-Trichlorobenzene	120-82-1	n.d.	ug/kg	350.
Naphthalene	91-20-3	n.d.	ug/kg	350.
4-Chloroaniline	106-47-8	n.d.	ug/kg	350.
Hexachlorobutadiene	87-68-3	n.d.	ug/kg	350.
4-Chloro-3-methylphenol	59-50-7	n.d.	ug/kg	350.
2-Methylnaphthalene	91-57-6	n.d.	ug/kg	350.
Hexachlorocyclopentadiene	77-47-4	n.d.	ug/kg	350.
2,4,6-Trichlorophenol	88-06-2	n.d.	ug/kg	350.
2,4,5-Trichlorophenol	95-95-4	n.d.	ug/kg	1800.
2-Chloronaphthalene	91-58-7	n.d.	ug/kg	350.
2-Nitroaniline	88-74-4	n.d.	ug/kg	1800.
Dimethylphthalate	131-11-3	n.d.	ug/kg	350.
Acenaphthylene	208-96-8	n.d.	ug/kg	350.
2,6-Dinitrotoluene	606-20-2	n.d.	ug/kg	350.
3-Nitroaniline	99-09-2	n.d.	ug/kg	1800.
Acenaphthene	83-32-9	n.d.	ug/kg	350.
2,4-Dinitrophenol	51-28-5	n.d.	ug/kg	1800.
4-Nitrophenol	100-02-7	n.d.	ug/kg	1800.
Dibenzofuran	132-64-9	n.d.	ug/kg	350.
2,4-Dinitrotoluene	121-14-2	n.d.	ug/kg	350.
Diethylphthalate	84-66-2	n.d.	ug/kg	350.
4-Chlorophenyl-phenylether	7005-72-3	n.d.	ug/kg	350.
Fluorene	86-73-7	n.d.	ug/kg	350.
4-Nitroaniline	100-01-6	n.d.	ug/kg	1800.

EPA 625/8270 Semivolatile Organics Soil Test Results
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Name Field: SBLK072694 QaQc File: QS90SM
Misc Field: 94-07-053-39A
Instrument: BNA1 Datafile: >SD797 Idfile: ID_B1X Quantfile: ^SD797

Compound Name	CAS Number	Result	Units	Detection Limit
4,6-Dinitro-2-methylphenol	534-52-1	n.d.	ug/kg	1800.
N-Nitrosodiphenylamine	86-30-6	n.d.	ug/kg	350.
4-Bromophenyl-phenylether	101-55-3	n.d.	ug/kg	350.
Hexachlorobenzene	118-74-1	n.d.	ug/kg	350.
Pentachlorophenol	87-86-5	n.d.	ug/kg	1800.
Phenanthrene	85-01-8	n.d.	ug/kg	350.
Anthracene	120-12-7	n.d.	ug/kg	350.
Carbazole	86-74-8	n.d.	ug/kg	350.
Di-n-butylphthalate	84-74-2	n.d.	ug/kg	350.
Fluoranthene	206-44-0	n.d.	ug/kg	350.
Pyrene	129-00-0	n.d.	ug/kg	350.
Butylbenzylphthalate	85-68-7	n.d.	ug/kg	350.
3,3'-Dichlorobenzidine	91-94-1	n.d.	ug/kg	700.
Benzo(a)anthracene	56-55-3	n.d.	ug/kg	350.
Chrysene	218-01-9	n.d.	ug/kg	350.
bis(2-Ethylhexyl)phthalate	117-81-7	n.d.	ug/kg	350.
Di-n-octylphthalate	117-84-0	n.d.	ug/kg	350.
Benzo(b)fluoranthene	205-99-2	n.d.	ug/kg	350.
Benzo(k)fluoranthene	207-08-9	n.d.	ug/kg	350.
Benzo(a)pyrene	50-32-8	n.d.	ug/kg	350.
Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	ug/kg	350.
Dibenzo(a,h)anthracene	53-70-3	n.d.	ug/kg	350.
Benzo(g,h,i)perylene	191-24-2	n.d.	ug/kg	350.

n.d. - not detected

Approved by: _____

SUPPORTING DATA

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-053

CLIENT: ERTD -J. BONN

LABORATORY: REECO-ASD

DATE REVIEWED: 7-26-94

REVIEWED BY: *Jerry J. [Signature]*

VOA:

MATRIX: SOIL

ARE VOA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	BFB	7-25-94/0900	YES
2. CALIBRATION	INITIAL	7-25-94	YES
3. METHOD BLANK	VBLK6B	7-25-94/1402	YES
4. TRIP BLANK	94TAP0720-1TB	7-25-94/1624	YES
5. SAMPLES	25-3102-4/N	7-25-94/1524	YES
	25-3102-4/S	7-25-94/1553	YES
	25-3102-4/SMS	7-25-94/1653	YES
	25-3102-4/SMSD	7-25-94/1723	YES

6. SURROGATE RECOVERY ACCEPTABLE: YES
7. MS/MSD RECOVERY ACCEPTABLE: YES
8. METHOD BLANK ACCEPTABLE: YES
9. HOLDING TIMES ACCEPTABLE: YES

		#DAYS	ACCEPTABLE
a. Date Sampled:	7-20-94	0	0
b. Date ACS Received:	7-20-94	0	YES
c. Date Contract Lab Received:	N/A	N/A	N/A
d. Date Extracted:	N/A	N/A	N/A
e. Date Analyzed	7-25-94	5	14
10. Correct Conc units used:	YES		
11. CALCULATIONS ACCEPTABLE:	YES		
12. IS AREAS ACCEPTABLE:	YES		
13. RRT IS ACCEPTABLE:	YES		
14. FORMS ACCEPTABLE:	YES		
15. Chain-of-Custody agrees:	YES		

COMMENTS: _____

EFRE-2258 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-053

CLIENT: ERTD - JERRY BONN

LABORATORY: REECO-ASD

DATE REVIEWED: 8-9-94

REVIEWED BY: *[Signature]*

OTHER ANALYSES: FLASHPOINT

MATRIX: SOIL ARE FLASHPOINT DATA ACCEPTABLE: YES

1. METHOD/TRIP/FIELD BLANK ACCEPTABLE:	<u>N/A</u>
2. QC SAMPLES ACCEPTABLE:	<u>YES</u>
3. SPIKED SAMPLES ACCEPTABLE:	<u>N/A</u>
4. HOLDING TIMES ACCEPTABLE:	<u>YES</u>

		<u># DAYS</u>	<u>ACCEPTABLE</u>
a. Date Sampled:	<u>7-20-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-20-94</u>	<u>0</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
e. Date Analyzed:	<u>8-3-94</u>	<u>14</u>	<u>28</u>
5. Chain-of-Custody agrees:	<u>YES</u>		
6. Calculations Acceptable:	<u>YES</u>		
7. Correct conc. units used:	<u>YES</u>		

COMMENTS: _____

EFRE-2259 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-053

CLIENT: ERTD - JERRY BONN

LABORATORY: REECO-ASD

DATE REVIEWED: 8-16-94

REVIEWED BY: *[Signature]*

BNA:

MATRIX: SOIL

ARE BNA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	DFTPP	8-9-94/1059	YES
	DFTPP	8-9-94/1812	YES
2. CALIBRATION	INITIAL	8-9-94	YES
	SSTD050	8-9-94/1831	YES
3. METHOD BLANK	SBLK072694	8-9-94/2013	YES
4. SAMPLES	25-3129-1/E	8-9-94/2104	YES
	25-3129-1/W	8-9-94/2155	YES
	25-3129-1/WMS	8-10-94/0211	YES
	25-3129-1/WMSD	8-10-94/0302	YES
	25-3123-1/S	8-9-94/2246	YES
	25-3123-1/N	8-9-94/2337	YES
	25-3102-4/S	8-10-94/0029	YES
	25-3102-4/N	8-10-94/0120	YES
5. SURROGATE RECOVERY ACCEPTABLE:	YES		
6. MS/MSD RECOVERY ACCEPTABLE:	YES		
7. METHOD BLANK ACCEPTABLE:	YES		
8. HOLDING TIMES ACCEPTABLE:	YES		

		#DAYS	ACCEPTABLE
a. Date Sampled:	7-20-94	0	0
b. Date ACS Received:	7-20-94	0	YES
c. Date Cont Lab:	N/A	N/A	N/A
d. Date Extracted:	7-26-94	6	14
e. Date Analyzed:	8-10-94	15	40
9. Correct conc units used:	YES		
10. CALCULATIONS ACCEPTABLE:	YES		
11. IS AREAS ACCEPTABLE:	YES		
12. RRT IS ACCEPTABLE:	YES		
13. FORMS ACCEPTABLE:	YES		
14. Chain-of-Custody agrees:	YES		

COMMENTS:

EFRE-2260 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-053

CLIENT: ERTD - J. BONN

LABORATORY: REECO-ASD

DATE REVIEWED: 8-16-94

REVIEWED BY:

TPH (GASOLINE/DIESEL/OIL) & TPH (DIESEL):

MATRIX: SOIL ARE TPH DATA ACCEPTABLE: YES

ARE CRITERIA MET

1. QC SAMPLES ACCEPTABLE	<u>YES</u>
2. MATRIX SPIKE ACCEPTABLE	<u>YES</u>
3. METHOD BLANK ACCEPTABLE	<u>YES</u>
4. HOLDING TIMES ACCEPTABLE	<u>YES</u>

		<u># DAYS</u>	<u>ACCEPTABLE</u>
a. Date Sampled:	<u>7-20-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-20-94</u>	<u>0</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>7-24 & 7-25-94</u>	<u>4-5</u>	<u>14</u>
e. Date Analyzed:	<u>7-24 & 8-10-94</u>	<u>0-16</u>	<u>40</u>

5. CALCULATIONS ACCEPTABLE:	<u>YES</u>
6. Correct conc. units used:	<u>YES</u>
7. FORMS ACCEPTABLE:	<u>YES</u>
8. Chain-of-Custody Agrees:	<u>YES</u>

COMMENTS: _____

EFRE-2261 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-053

CLIENT: ERTD - JERRY BONN

LABORATORY: REECO-ASD

DATE REVIEWED: 8-9-94

REVIEWED BY: *Jerry Bonn*

TCLP METALS

MATRIX: SOIL ARE METALS DATA ACCEPTABLE: YES

1. Are Method Blanks Acceptable: YES
2. Are Matrix Spikes Acceptable: YES
3. Are QC Samples Acceptable: YES
4. Are Holding Times Acceptable: YES

		# DAYS	ACCEPTABLE
a. Sample Date:	<u>7-20-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-20-94</u>	<u>0</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Hg Extracted:	<u>7-26-94</u>	<u>6</u>	<u>N/A</u>
e. Date Hg Analyzed:	<u>7-28-94</u>	<u>2</u>	<u>28</u>
f. Date Others Extracted:	<u>7-26-94</u>	<u>6</u>	<u>N/A</u>
g. Date Others Analyzed:	<u>7-28-94</u>	<u>2</u>	<u>180</u>

5. Are Forms correct: YES
6. Are correct
conc. units used: YES
7. Are analyses completed: YES
8. Chain-of-Custody agrees: YES

COMMENTS: _____

JOB #:

TODAY'S DATE:

<<DATE>>

REYNOLDS ELECTRICAL AND ENGINEERING CO., INC.

LABORATORY SERVICES REQUEST

AND CHAIN OF CUSTODY

REV 5/12/94

INSTRUCTIONS ON BACK

PAGE 1 OF 2

7/20/94

ASD/Sample Management Section

PROJECT INFORMATION		REPORT INFORMATION		LAB USE ONLY	
WORK ORDER 3754 - 032	PROJ NO ERT0	DATE DUE 8-11-94		Packet #	SDG #
PROJECT MANAGER J Bonn	EVENT 720	PRELIMINARY REPORT: No	QC REQUIREMENTS:	SAMPLER INITIALS:	
PHONE 5-7341	MAIL STOP 969	COPY TO: J Bonn / Dave Madson M/S 969		REMARKS:	
LOCATION M5 RCP		PROJECT MANAGER, JERRY DUGAS M/S713			

FIELD SAMPLE ID	V O A	B N A	M E T A L S	T P H	T V C A L P	B N E T A L S	P H	C H L O R	F L A S H I N T	P C B	OTHER	R A M A D	G R E L O T S	B A L P H A	H 3	P U	G F P	OTHER	MATRIX	DATE/TIME COLLECTED	REMARKS (PRESERVATIVE, SAMPLE SIZE, SPECIAL ANALYSIS, ETC.)	
25-3129-1/pib				X								X								SOIL	07/20/94 09:37	TPH diesel
25-3129-1/E		X		X		X															07/20/94 09:37	TPH diesel
25-3129-1/W		X		X		X															07/20/94 09:37	TPH diesel Semi vial M/S + M/SO 500ml
25-3123-1/pib				X								X									07/20/94 10:32	TPH diesel
25-3123-1/S		X		X		X															07/20/94 10:40	TPH diesel
25-3123-1/W		X		X		X															07/20/94 11:10	TPH diesel
25-3102-4/pib		X		X								X									7/20/94 11:25	TPH diesel
25-3102-4/S	X	X		X		X	X		X	X											7/20/94 11:30	TPH Full Scan
25-3102-4/W	X	X		X		X	X		X	X											7/20/94 11:30	TPH Full Scan
25-3101-4/W				X																	7/20/94 12:25	TPH Diesel

SAMPLED/RELINQUISHED BY: Theresa Polyzou	DATE/TIME: 7/20/94 1642	RECEIVED BY: Marion Withers (Rad only)
Barbara A. Zimmuel	7/20/94 1642	Barbara A. Zimmuel ASD
	07-21-94/1145	TPH, PCB, A-3, Metals, Flashpoint, D-31

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-07-053

CLIENT: ERTD - J. BONN

LABORATORY: REECO-ASD

DATE REVIEWED: 8-2-94

REVIEWED BY: Jerry J. Nargan

PCB

MATRIX: SOIL

ARE PCB DATA ACCEPTABLE: YES

ARE CRITERIA MET

1. ANALYSIS SEQUENCE	<u>YES</u>
2. METHOD BLANK	<u>YES</u>
3. MS/MSD RESULTS	<u>YES</u>
4. SURROGATE RECOVERY	<u>N/A</u>
5. HOLDING TIMES	<u>YES</u>

		# DAYS	ACCEPTABLE
a. Date Sampled:	<u>7-20-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>7-20-94</u>	<u>0</u>	<u>1</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>7-21-94</u>	<u>1</u>	<u>7</u>
e. Date Analyzed:	<u>7-27-94</u>	<u>6</u>	<u>40</u>
6. CONFIRMED BY SECOND COLUMN:	<u>NO</u>		
CONFIRMED BY GC/MS:	<u>NO</u>		
7. CALCULATIONS:	<u>YES</u>		
8. Correct Conc. units used:	<u>YES</u>		
9. FORMS ACCEPTABLE:	<u>YES</u>		
10. Chain-of-Custody agrees:	<u>YES</u>		

COMMENTS: _____

<<DATE>>

REV 5/12/94

REYNOLDS ELECTRICAL AND ENGINEERING CO., INC.

LABORATORY SERVICES REQUEST

AND CHAIN OF CUSTODY

INSTRUCTIONS ON BACK
PAGE 2 OF 2

7/20/94 ASD/Sample Management Section

PROJECT INFORMATION		REPORT INFORMATION	LAB USE ONLY
WORK ORDER <u>3754-032</u>	PROJ NO <u>EPTD</u>	DATE DUE <u>8-11-94</u>	SDG #:
PROJECT MANAGER <u>J. Bonn</u>	EVENT <u>720</u>	PRELIMINARY REPORT: <u>No</u>	SAMPLER INITIALS:
PHONE <u>5-7341</u>	MAIL STOP <u>969</u>	COPY TO: <u>J. Bonn / D. Madsen</u>	REMARKS:
LOCATION <u>425 RCP</u>		PROJECT MANAGER, JERRY DUGAS M/S713	

FIELD SAMPLE ID	V O A	B N A	M E T A L S	T P H	T C A P	B N A	M E T A L S	P H	C H L O R	F L A S H	P C B	O T H E R	R G A M D A	G R O S S	B E L P H A	H 3	P U	G F P	O T H E R	M A T R I X	D A T E / T I M E C O L L E C T E D	R E M A R K S (PRESERVATIVE, SAMPLE SIZE, SPECIAL ANALYSIS, ETC.)
25-3101-1/E				X																Soil	7/20/94 1233	TPH diesel
25-3101-1/S				X																		TPH diesel
25-3101-1/N				X																		TPH diesel
25-3101-1/Pile				X									X									TPH diesel
Decom-River	X	X	X	X																		TPH diesel
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X											TPH Fuel 3000
25-3102-4-River	X	X	X	X		X	X	X	X	X	X		</									

SAMPLED/RETRIEVED BY: <i>Thomas A. Pally</i>	DATE/TIME: <i>7/22/94 1642</i>	RECEIVED BY: <i>Marion Withers (Rad one)</i>
<i>Thomas A. Pally</i>	<i>7/22/94 1642</i>	<i>Barbara A. Hornum ASD</i>

From Page No. _____

@ The request from Bom & D. Madsen / ERTD, Sampler
 Thomas & Paleygo met with Jerry Bom to sample from excavated
 oil piles and under U.S.T. & began labels and voc trip B
 @ 0800 in reemergent H₂O and conc HCl. Left ALB @
 0830 and arrived @ A25 Reactor Control (RCP) @ 0903
 began sampling from pile 592-169 @ 0915 sampled @ 25-312
 for TPH diesel 250ml and Gamma 20ml cont 500ml. The back
 located oil from a depth of 10.5' from the UST @ 25-3129 scot en
 @ 9:37 sample @ 25-3129 1/E was collected for TPH diesel
 250ml TCAP metals 250ml and semi voc 250ml in addition
 soil was collected for headspace reading in 11.7" la
 n-nu reading after at least 30 min was recorded @ 1.6 ppm
 @ 0951 the unit end sampled as 25-3129-VW was sample
 for TPH diesel 250ml TCAP metals 250ml semi voc 500ml for m
 MSD depth @ this site 10.5' h nu = 2.8 ppm. Left ^{TP} before
 taking sample the backhoe bucket was removed with a 500
 cleaner and the residue was collected into a 55 gallon
 less than 10 gallon were collected from 25-3129. We moved
 25-3123 and sampled 25-3123-1/pile @ 1022 for TPH
 diesel 250ml and Gamma 500ml compositing from two sites
 one 4' from the N end with a depth 1'-1.5' the other 3' from south
 end 1'-1.5' depth. Holes were dug using a shovel with the
 sample collected using a stainless steel scoop. The only sample
 also accomplished in this manner as subsoil next pile (stock
 piles were also obtained in this manner. 25-3129-1 pile
 from pile 592-168. Sample 25-3123-1/S was taken @ 10
 250ml for TPH diesel 250ml for TCAP metals 250ml semi voc
 headspace reading taken at least 30 min later were 2.8 ppm
 Sample 25-3123-1/N was sampled @ 1110 for North end for T
 diesel 250ml TCAP metals 250ml ^{TP} Semi Voc 250ml and
 headspace. Headspace reading 2.8 ppm. Sampled for 25-3102
 sample # 25-3102-4/S @ 1150 for TPH full scan 250 TCAP metals
 250ml flush 250ml PCB 250ml voc 2(120ml) semi voc 250
 and pH 250ml, Headspace. Headspace reading taken @ 1400
 60 ppm. Stockpile 592-166 was sampled from 25-3102-4 @
 1135 from two sites each approx 3' from N & S ends and a
 depth of 1'-1.5' composited for TPH full scan 250 and Gamma
 headspace on p. 76

To Page No. _____

Witnessed & Understood by me. _____

Date. _____

Invented by _____

Date _____

Record: _____

Thomas & Paleygo

7/21/94

cont from 75

From Page No. — The North side of 25-3102-4 was sampled @ 1200 and recorded @ 25-3102-4/N sampled for TPH full scan 250ml TCEP while 250ml flush port 250ml PCB 250ml VOC 2(120ml) semi VOC 250ml and pH 250ml dh - doppel was taken. Read @ 1400 h-nw read 50 ppm. 25-3101-1 was sampled from the west end and sampled as 25-3101-1/W sampled for 250ml TPH diesel @ 1225 sample 25-3101-1/E was sampled @ 1235 for TPH diesel 250ml very Request samples taken from the North and South side wells and the samples were labeled 25-3101-1/S taken with backhoe @ 1254 for TPH diesel and 25-3101-1/N taken using a 2' scoop by Borm @ 1254 for TPH diesel 250ml TCEP while Heeloped samples were taken for all designations 25-3101-25-3101-1/E 25-3101-1/S and 25-3101-1/N the readings were made @ 1415 and there as follows W 52 ppm E 24 ppm S 10.6 ppm N 11 Slope 592-167 was sampled from 2 sites and composited using spore procedure @ 1300 250ml TPH diesel and 500g gamma. Left site for lunch. TP Heeloped readings were taken and the deemed was to be sampled. Rmoente from 25-3129-1 25-3123-1 and 25- were combined into one drum and samples for TPH diesel 3L+120ml TCEP while 1L and semi VOC 1L was collected @ 1445 labeled Down-Rise to Second moente drum contained. Only moente from 25-3102-4 and was labeled 25-3102-4 ^{Rmoente} @ 1415 for TPH full scan 3L+12 TCEP while 1L flush port 250ml PCB 1L and VOC 3(40ml) semi VOC 1L and pH 250ml. left A25 @ 1600 and arrived A25 Bldg 652 @ 1630. all samples on ice @ 4° ± 2°C.

Note Jerry Borm called and Rmoente samples were to be returned to respective moente drum, No analysis was requested @ the time. J. Borm removed samples from Bldg 65. Walk for Rmudge and returned them to A25 RCP.

To Page No. _____

Prepared by _____

Date _____

Submitted by _____

Date _____

T J N N 7/21/94

Reynolds Electrical & Engineering Co., Inc.

MEMORANDUM

To S. J. Nacht
From J. L. Cowley *JLC*
Date November 1, 1994
Subject SAMPLE ANALYTICAL RESULTS

Enclosed are Analytical Services Department's results, requested by J. F. Bonn, for the total petroleum hydrocarbons (diesel/oil) of 5 soil samples, collected on October 17, 1994, in Areas 25 and 27.

Please direct any questions you may have to your Client Service Representative, Jerry Dugas, at 295-7220.

JLC:30:bv

Enclosure
As stated

cy w/o encl.

Central Files, M/S 530
A. R. Latham, M/S 708
ACS Packet No. 94-10-049

cy w/encl.

J. F. Bonn, ERTD, M/S 969

REECO ASD/ACS

REECO
BOB DODGE
ENVIRONMENTAL RESTORATION
TECHNOLOGY DEVELOPMENT
Attn: JERRY BONN

Order #: 94-10-049
Date: 10/27/94 12:50
Work ID: TPH(DIESEL)/SOIL; RUSH!!
Date Received: 10/18/94
Date Completed: 10/27/94

Purchase Order: 3754-032-000
Invoice Number:

Client Code: ERTD

REPORT TO JERRY BONN, ERTD.

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	27-5170-SW-118"
02	27-5170-SE-116"
03	25-3102-4/10.5/N
04	25-3123-1/11.5/S
05	25-3129-1/12/E

Sample Number	Sample Description
06	94-10-049-QC1 MS
07	94-10-049-QC2 MB
08	94-10-049-QC3 CAL VER
09	4 HOURS, .10 UNITS
10	DISPOSAL CHARGE

Certified By

Order # 94-10-049
10/27/94 12:50

REECO ASD/ACS
REGULAR TEST RESULTS BY TEST

Page 2

DISPOSAL CHARGE
Method:

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
10A	DISPOSAL CHARGE		L				

EXTRACTION STEP CODE
Method:

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
01A	27-5170-SW-118"	10/18/94	.			10/19/94	EV
02A	27-5170-SE-116"	10/18/94	.			10/19/94	EV
03A	25-3102-4/10.5/N	10/18/94	.			10/19/94	EV
04A	25-3123-1/11.5/S	10/18/94	.			10/19/94	EV
05A	25-3129-1/12/E	10/18/94	.			10/19/94	EV
06A	94-10-049-QC1	MS 10/18/94	.			10/19/94	EV
07A	94-10-049-QC2	MB 10/18/94	.			10/19/94	EV
08A	94-10-049-QC3	CAL VER	.			10/19/94	ABC

SAMPLE TIME
Method:

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
09A	4 HOURS, .10 UNITS		L2				

SAMPLERS SUPPLIES
Method:

Minimum:

Maximum:

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
09A	4 HOURS, .10 UNITS		L1				

TPH - DIESEL
Method: GC

Minimum:

0 Maximum: 999999999

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
01A	27-5170-SW-118"	136	MG/KG			10/19/94	ABC
02A	27-5170-SE-116"	< 10.0	MG/KG			10/19/94	ABC
03A	25-3102-4/10.5/N	< 10.0	MG/KG			10/19/94	ABC
04A	25-3123-1/11.5/S	< 10.0	MG/KG			10/19/94	ABC
05A	25-3129-1/12/E	< 10.0	MG/KG			10/19/94	ABC
06A	94-10-049-QC1	MS 88.9	% RECOVERY			10/19/94	ABC
07A	94-10-049-QC2	MB < 10.0	MG/KG			10/19/94	ABC
08A	94-10-049-QC3	CAL VER 111	% RECOVERY			10/19/94	ABC

TPH - OIL
Method: GC

Minimum:

0 Maximum: 999999999

<u>Samp</u>	<u>Sample Description</u>	<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
05A	25-3129-1/12/E	< 10.0	MG/KG			10/19/94	ABC
06A	94-10-049-QC1	MS 105	% RECOVERY			10/19/94	ABC

Order # 94-10-049
10/27/94 12:50

REECO ASD/ACS
REGULAR TEST RESULTS BY TEST

Page 3

<u>Samp</u>	<u>Sample Description</u>		<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
07A	94-10-049-QC2	MB	< 10.0	MG/KG			10/19/94	ABC
08A	94-10-049-QC3	CAL VER	104	% RECOVERY			10/19/94	ABC

TPH - TOTAL
Method: GC

Minimum:

0 Maximum: 999999999

<u>Samp</u>	<u>Sample Description</u>		<u>Result</u>	<u>Units</u>	<u>Limit</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>By</u>
01A	27-5170-SW-118"		NA	.			10/19/94	ABC
02A	27-5170-SE-116"		NA	.			10/19/94	ABC
03A	25-3102-4/10.5/N		NA	.			10/19/94	ABC
04A	25-3123-1/11.5/S		NA	.			10/19/94	ABC

SUPPORTING DATA

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 94-10-049

CLIENT: ERTD - J. BONN

LABORATORY: REECO-ASD

DATE REVIEWED: 10-25-94

REVIEWED BY: *Jerry J. Dinger*

TPH (DIESEL/OIL)

MATRIX: SOIL

ARE TPH DATA ACCEPTABLE: YES

ARE CRITERIA MET

1. QC SAMPLES ACCEPTABLE	<u>YES</u>
2. MATRIX SPIKE ACCEPTABLE	<u>YES</u>
3. METHOD BLANK ACCEPTABLE	<u>YES</u>
4. HOLDING TIMES ACCEPTABLE	<u>YES</u>

		<u># DAYS</u>	<u>ACCEPTABLE</u>
a. Date Sampled:	<u>10-17-94</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>10-18-94</u>	<u>1</u>	<u>1</u>
c. Date Contract Lab Received:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
d. Date Extracted:	<u>10-18-94</u>	<u>1</u>	<u>14</u>
e. Date Analyzed:	<u>10-19-94</u>	<u>1</u>	<u>40</u>

5. CALCULATIONS ACCEPTABLE:	<u>YES</u>
6. Correct conc. units used:	<u>YES</u>
7. FORMS ACCEPTABLE:	<u>YES</u>
8. Chain-of-Custody Agrees:	<u>YES</u>

COMMENTS: _____

Reynolds Electrical & Engineering Co., Inc.

SAMPLE CHAIN-OF-CUSTODY RECORD

LOCATION OF SAMPLING: A.27, Bldg. 5170, USTex.			WORK ORDER No.: 3754-032		PACKET No.: 94-10-049
ITEM No.	DATE/TIME SAMPLED	FIELD SAMPLE I.D.	LABORATORY SAMPLE I.D.	ANALYSIS REQUESTED	COMMENTS
1	10-17-94/1350	27-5170-SW-118"	-01A	TPH-Diesel	8015 Mod. 250ml Soil
2	10-17-94/1455	27-5170-SE-116"	-02A	TPH-Diesel	8015 Mod. 250ml Soil
3	LAST ITEM				
4					
5					
6					
7					
8					
9					
10					

SAMPLER:

SIGNATURE

Steven A. Bobo

PRINT NAME

ORGANIZATION (PRINT):

REECO ERTOD/ERS

RELINQUISHED BY: (SIGNATURE)	DATE/TIME RELINQUISHED	DATE/TIME RECEIVED	RECEIVED BY: (SIGN, PRINT NAME AND ORGANIZATION)
10/18/94 0735	10/18/94 0735	JERRY F. BORN REECO ERTOD
10/18/94 1315	10/18/94 1315	JAMES P. PROGETT REECO ASD
10/18/94 1645	10/18/94 1645	John W. Burns
10/18/94 1650	10/18/94 1650	John W. Burns ASD
	1 1	1 1	
	1 1	1 1	
	1 1	1 1	
	1 1	1 1	

Y	N	FOR LAB USE ONLY	FINAL DISPOSITION: _____ SIGNATURE: _____ DATE: / /
X		PACKAGES REC'D W/CUSTODY SEAL INTACT?	
X		SAMPLE LABELS AND C-O-C AGREE?	

DISTRIBUTION: White (Original) - retained by laboratory performing final analysis
Yellow - retained by laboratory performing intermediate analysis
Pink - retained by sampler.

RE-2231 (12/89)

Reynolds Electrical & Engineering Co., Inc.

SAMPLE CHAIN-OF-CUSTODY RECORD

LOCATION OF SAMPLING: <u>A25 RCP</u>			WORK ORDER No.: <u>3754-</u>		PACKET No.: <u>94-10-049</u>
ITEM No.	DATE/TIME SAMPLED	FIELD SAMPLE I.D.	LABORATORY SAMPLE I.D.	ANALYSIS REQUESTED	COMMENTS
1	10/18/94 1310	25-3102-4/10.5/N	-03A	TPH diesel	8015 mod.
2	10/18/94 1355	25-3123-1/11.5/S	-04A	TPH diesel	8015 mod.
3	10/18/94 1450	25-3128-1/12/E	-05A	TPH diesel + oil	8015 mod.
4	LAST ITEM				
5					
6					
7					
8					
9					
10					

SAMPLER: [Signature]
SIGNATURE
ORGANIZATION (PRINT): REECO ASD

James P PROGOTT
PRINT NAME

RELINQUISHED BY: (SIGNATURE)	DATE/TIME RELINQUISHED	DATE/TIME RECEIVED	RECEIVED BY: (SIGN, PRINT NAME AND ORGANIZATION)
<u>[Signature]</u>	10/18/94 1645	10/18/94 1645	Catherine D. Castaneda Catherine D. Castaneda ASD
Catherine D. Castaneda	10/18/94 1645	10/18/94 1645	BH
	1 1	1 1	
	1 1	1 1	
	1 1	1 1	
	1 1	1 1	
	1 1	1 1	
	1 1	1 1	

Y N	FOR LAB USE ONLY	FINAL DISPOSITION: _____
☒	PACKAGES REC'D W/CUSTODY SEAL INTACT?	SIGNATURE: _____ DATE: 1 1
☒	SAMPLE LABELS AND C-O-C AGREE?	

Reynolds Electrical and Engineering Co., Inc.

STATEMENT OF WORK/SAMPLE DATA SHEET

I. GENERAL PROJECT INFORMATION

PROJECT NAME: A25 REACTOR CONTROL POINT (RCP)

PROJECT IDENTIFICATION NUMBER:

WORK ORDER NUMBER: 3754-032 Sub&Freq: use lab ACS No.

MEF NUMBER:

Lab Event Code 720

PROJECT MANAGER TELEPHONE: 5-7341

DEPT.: ER&TDD

M/S: 969

WASTE GENERATOR I.D.:

II. PROJECT SITE DESCRIPTION

LOCATION: Area 25

AREA: 25RCP

BUILDING:

N/A

ROOM:

N/A

ON SITE CONTACT: JERRY BONN

PHONE: 295-7341

OFFICE:

DETAILED SITE DESCRIPTION: COLLECT SOIL SAMPLES FROM UST EXCAVATIONS WITHIN RCP COMPOUND. SAMPLES WILL BE COLLECTED FROM BACKHOE AT DEPTHS OF 12+ FEET.

MATERIAL TO BE SAMPLED: SOIL

PROCESS KNOWLEDGE
INFORMATION/SUSPECT
CONTAMINANTS:

DIESEL AND OIL BASED UPON PREVIOUS SITE ANALYTICAL DATA

SAA No: N/A

MSDS(e) INCLUDED:

N/A

DRUM INFORMATION

SAMP. No	DESCRIPTION(SIZE (GAL)BRADY #)	ANALYTICAL METHOD	MATRIX (SOL/LIQ)	PHASE TO SAMPLE	COMMENTS
25-3102- 4/DEPTH	10.5 NA	TPH-DIESEL 8015M	SOIL	SOIL	
25-3101-1/ DEPTH	NA	TPH-DIESEL 8015M	SOIL	SOIL	MS/MSD
25-3123-1/ DEPTH	11.5 NA	TPH-DIESEL 8015M	SOIL	SOIL	
25-3129-1/ DEPTH	12 NA	TPH-DIESEL & OIL 8015M	SOIL	SOIL	MS/MSD
27-5170-	NA	TPH-DIESEL & OIL 8015M	SOIL	SOIL	
27-5170-	NA	TPH-DIESEL & OIL 8015M	SOIL	SOIL	

III. SAMPLING AND ANALYSIS SCHEDULE

DATE & TIME OF SAMPLING: 10-18-94

TOTAL NUMBER OF SAMPLES: 6

SAMPLING AND COC PROCEDURES:

IV. REPORT REQUIREMENTS

DATE FINAL REPORT REQUIRED: 48 HOUR
TURNAROUNDPRELIMINARY REPORT REQUIRED
(Y OR N):

YES

REPORT QC REQUIREMENTS:

V. SAMPLING AND ANALYSIS OBJECTIVES

OVERALL OBJECTIVE:	CONFIRM THE PRESENCE (OR ABSENCE) of HYDROCARBONS AND DISPOSE/RECYCLE THIS MATERIAL ACCORDING TO STATE OF NEVADA AND/OR FEDERAL REGULATIONS. PROCESS KNOWLEDGE MAY BE USED IN CONJUNCTION WITH THE ANALYTICAL RESULTS TO DRAW FINAL CONCLUSIONS.	
PARAMETERS	PARAMETER GOAL	ACHIEVEMENT OF GOAL
PRECISION:	PRECISION IS THE DEGREE OF AGREEMENT AMONG INDIVIDUAL MEASUREMENTS MADE UNDER PRESCRIBED CONDITIONS. REPLICATE MEASUREMENTS WILL HAVE A COEFFICIENT OF VARIATION OF <10.	MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSES WILL BE PERFORMED WITH EACH MATRIX ON EACH SAMPLING EFFORT.
ACCURACY:	ACCURACY IS THE DIFFERENCE BETWEEN AN AVERAGE VALUE AND TRUE VALUE, WHEN THE LATTER IS KNOWN OR ASSUMED. SPIKE RECOVERIES SHOULD BE WITHIN THE METHOD SPECIFIC WINDOWS SPECIFIED IN THE REFERENCE METHOD.	SURROGATE AND OTHER SPIKE SAMPLE RESULTS WILL BE EVALUATED AGAINST SPECIFIC REQUIREMENTS.
REPRESENTATIVENESS:	REPRESENTATIVENESS REFERS TO THE PROPER SELECTION OF SAMPLING LOCATIONS- AND THE DETERMINATION OF A SUFFICIENT NUMBER OF SAMPLES ARE COLLECTED TO REPRESENT AN ENVIRONMENTAL SITUATION, OR CHARACTERISTIC OF A POPULATION.	FOR THIS PROJECT, DATA FROM SINGLE SAMPLES WILL BE ASSUMED TO REPRESENT THE ENTIRE POPULATION.
COMPARABILITY:	COMPARABILITY IS A QUALITATIVE MEASURE IDENTIFYING THE CONFIDENCE WITH WHICH ONE DATA SET CAN BE COMPARED WITH ANOTHER. STANDARD TECHNIQUES FOR SAMPLING AND ANALYSIS ARE USED FOR THIS PURPOSE.	DATA SETS WILL ONLY BE COMPARED WHEN IDENTICAL METHODS OF ANALYSIS ARE USED. EXISTING HISTORICAL DATA AND DATA GENERATED FROM SIMILAR PROJECTS HAS BEEN CONSIDERED WHEN REQUESTING THE SPECIFIC METHODS USED IN THIS PROJECT.
COMPLETENESS:	COMPLETENESS IS THE PERCENTAGE OF MEASUREMENTS MADE WHICH ARE JUDGED TO BE VALID MEASUREMENTS. THE GOAL IS TO HAVE A SUFFICIENT AMOUNT OF VALID DATA.	95% OF THE DATA REQUESTED SHOULD BE JUDGED AS VALID TO BE ACCEPTABLE FOR THIS PROJECT.
SAMPLE JUSTIFICATION:		
VI. REPORT FORMAT:		
<p>THE LABORATORY REPORT SHALL CONTAIN:</p> <p>A COVER PAGE CONTAINING THE SAMPLE DELIVERY GROUP NUMBER AND MANAGEMENT AUTHORIZATION OF THE DATA.</p> <p>RESULTS OF ALL SAMPLE DATA.</p> <p>RESULTS FROM ALL QUALITY CONTROL DATA.</p> <p>A COPY OF THE SAMPLING NOTES TAKEN AT THE TIME OF SAMPLE COLLECTION. THESE MUST INCLUDE : 1) NAME AND LOCATION OF SAMPLES, 2) CROSS REFERENCED CONTAINER AND SAMPLE NUMBERS WHEN SAMPLES COME FROM CONTAINERS, 3) SAMPLE TYPE (COMPOSITE, GRAB, OR DISCRETE), 4) PHYSICAL DESCRIPTION OF ALL SAMPLES, 5) FIELD MEASUREMENTS WITH INSTRUMENT CALIBRATION AND QC DATA, 6) FIELD OBSERVATIONS SUCH AS ENVIRONMENTAL CONDITIONS, 7) ANY DEVIATIONS FROM THE SAMPLING PLAN, 8) SAMPLING EQUIPMENT USED.</p> <p>ALL CHAIN OF CUSTODY RECORDS, BOTH SAMPLING TO LABORATORY, AND INTERNAL WITHIN THE LABORATORY INDICATING SAMPLE VOLUME, AND SIGNATURES OF ALL PERSONNEL SAMPLING, RELINQUISHING OR ACCEPTING CUSTODY OF SAMPLES OR ALIQUATS OF SAMPLES.</p> <p>LABORATORY SIGNATURES INDICATING ANALYSIS COMPLETION, PEER REVIEW, SUPERVISORY REVIEW, AND PROJECT PLAN COMPLIANCE REVIEW WITHIN THE LABORATORY.</p>		

VII. LABORATORY WASTE DISPOSAL

SAMPLING WASTE:	SOLID MATERIALS GENERATED DURING THE SAMPLING PROCESS, SUCH AS GLOVES, CLOTHING, RAGS, AND PLASTIC COVERS WILL BE DISPOSED OF AS UNCONTAMINATED SOLID WASTE.
ALTERED SAMPLE RESIDUE	SAMPLE RESIDUE THAT HAS BEEN CONTAMINATED WITH POTENTIALLY HAZARDOUS COMPONENTS WILL BE DISPOSED OF IN THE ANALYTICAL LABORATORY'S WASTE STREAM.
UNADULTERATED SAMPLE WASTE	SAMPLE RESIDUE IS ROUTINELY KEPT FOR 90 DAYS POST ANALYSIS BY THE ASD FOR REFERENCE AND REPEAT ANALYSIS. TO ENSURE THAT ALL SAMPLES AND SAMPLE BYPRODUCTS ARE PROPERLY DISPOSED, THE PROJECT MANAGER DIRECTS THAT: ALL WASTE WILL BE CHARACTERIZED BY PROCESS KNOWLEDGE AND ANALYSES. A LETTER RECOMMENDING PROPER DISPOSAL METHODS WILL BE SENT TO THE LABORATORY FROM WOD WITHIN 30 DAYS OF COMPLETION OF THE CHARACTERIZATION.

VIII. SITE SAFETY AND HEALTH PLAN

HAZARD TYPE	SPECIFIC HAZARD	HAZARD MITIGATION
RADIOLOGICAL	NO HAZARDS NOTED	NONE REQUIRED
CHEMICAL	NO HAZARDS NOTED	NONE REQUIRED
PHYSICAL	NO HAZARDS NOTED	ALL SITE RELATED JOBS SHOULD EMPLOY THE BUDDY SYSTEM TO GUARD AGAINST INJURY AND INCAPACITATION.

IX. FINAL DISPOSITION

REPORTS TO THE MANAGEMENT:	ON COMPLETION OF THE PROJECT THE PROJECT MANAGER (OR DESIGNEE) WILL REVIEW AND VALIDATE ALL DATA INVOLVED IN THE COMPLETION OF THE PROJECT USING USEPA DATA VALIDATION GUIDELINES. ANY DEVIATION FROM THIS PLAN THAT RESULTS IN DELAY OF PROJECT COMPLETION OR IN PRODUCTION OF UNUSABLE DATA, SHALL BE REPORTED TO THE DEPARTMENT QUALITY COORDINATOR (DQC) FOR REVIEW. AT THE DISCRETION OF THE DQC, A SYSTEM DEFICIENCY REPORT MAY BE FILED TO DOCUMENT THE ERROR AND CORRECTIVE ACTION TAKEN TO PREVENT RECURRENCE OF THE PROBLEM.
LABORATORY RECORDS	ALL LABORATORY RECORDS, INCLUDING SAMPLING NOTES, CHAIN OF CUSTODY DOCUMENTATION, RAW DATA, FINISHED DATA, AND ASSOCIATED CALCULATIONS WILL BE RETAINED IN THE LABORATORY FOR A MINIMUM OF TWO YEARS. AT THE END OF TWO YEARS, THE DATA WILL BE ARCHIVED AND MICROFILMED FOR POSSIBLE RETRIEVAL. ALL DATA WILL BE FILED ACCORDING TO SAMPLE DELIVERY GROUP. ALL SAMPLE DELIVERY GROUPS WILL BE CROSS REFERENCED TO THE PROJECT NAME OR NUMBER.
PROJECT RECORDS	ALL PROJECT RECORDS INCLUDING LABORATORY REPORTS AND CORRESPONDENCE REGARDING THE PROJECT WILL BE FILED IN THE SECTION OF ORIGIN ACCORDING TO PROJECT NUMBER.

X. APPROVALS

TITLE	NAME	SIGNATURES	DATE
SECTION CHIEF WOD/NWS OR ERTDD/WCS	Steve Nacht		10/17/94
PROJECT MANAGER	JERRY BONN		10/17/94
LABORATORY SERVICES SECTION CHIEF	S. N. BAKHTIAR		11
SAMPLE MANAGEMENT SECTION CHIEF	J. L. COWLEY		10/18/94

END OF PLAN

TITLE AREA 25 RCP BACK SOIL

PROJECT NO. _____

Br No. 140From Page No. AREA 26, AREA 25 RCP BACKHOE SOILWORK ORDER # 3574-032 SUB # FREQ: USE LAB. ACS NO.PROJECT ID # NOT PROVIDED DEPT ERTD 1/5 969PROT HGR JERRY CONN PH 295-7341LOCATION AREA 25, AREA 25 RCP, BLOC.REMARKS: WORK REQUEST WAS TO COLLECT SOIL SAMPLES FROM EXCAVATED DIESEL FUEL TANKS & TO ACCEPT CUSTODY OF TWO PREVIOUSLY SAMPLED SOIL SAMPLES FROM A-27 BLOC 5170, USTER WORK ORDER 3754-032.

SAMPLE # & DEPTH	ANALYSIS/METHOD	MATRIX	TIME	COMMENTS
25-3102-4/10.5M	TPH-DIESEL 8015M	SOIL	1310	
25-3123-1/11.5S	" " "	SOIL	1355	
25-3129-1/12F	TPH-DIESEL OIL "	SOIL	1450	HS/MSD
27-5170-SW-118"	TPH-DIESEL 8015M	SOIL	1350	SAMPLED BY STEVE BOBO, TRANSFERRED TO
27-5170-SE-116"	" " "		1455	JERRY CONN: ACCEPTED BY MSD-TRANSFER TO LAB

LEAD SAMPLER JANET HARVEY & PROTEGE DM PADGETT DEPARTED FOR JOB SITE. AREA 27 RCP APPROX 0800L. ARRIVED @ SITE TO BE ADVISED OF NATURE OF WORK INVOLVED IN SAMPLING AND TIME ELEMENT INVOLVED IN SAMPLE PREPARATION PRIOR TO TAKING THE SPECIFIC SAMPLE. PROCEEDED TO NEXT JOB LOCATION TO COORDINATE TIME & LOCATION OF NEXT SAMPLE JOB.

RETURNED TO AREA 25 RCP AFTER LUNCH. AFTER SAMPLE PREP TOOK FIRST SAMPLE FROM BACKHOE SOIL COLLECTED @ 1310. TOOK 3RD SAMPLE @ 1455 & DEPARTED TO NEXT JOB SITE CONTACT @ 1500L. THREE SOIL SAMPLES & TWO ACCEPTED FOR DELIVERY TO MSD LAB WERE PLACED ON ICE FOR TRANSFER TO LAB IN BLOC 652. SAMPLES TURNED IN @ 1650. 10/18/94.

[Signature]
10/18/94

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

Recorded by *[Signature]*

10/18/94

Reynolds Electrical & Engineering Co., Inc.

MEMORANDUM

To S. J. Nacht
From C. J. Slotemaker *CS*
Date June 19, 1995
Subject SAMPLE ANALYTICAL RESULTS

Enclosed are DATACHEM's results for the volatile, semivolatile, polychlorinated biphenyls, total petroleum hydrocarbons (gasoline/diesel/oil), total metals, and flashpoint analyses of five samples, and the volatile analysis of one trip blank. These samples, requested by J. R. Bonn, were collected on April 26, 1995, in Area 9.

Please direct any questions you may have to your Client Service Representative, Ted Redding, at 295-7220.

CJS:262:ds

Enclosures
As stated

cy w/o encls.

Central Files, M/S 530

A. R. Latham, M/S 708

L. S. Sygitowicz, M/S 612

ACS Packet No. FY95-04-029

cy w/encls.

J. F. Bonn, M/S 969

REECO ASD/ACS

REECO
BOB DODGE
ENVIRONMENTAL RESTORATION
TECHNOLOGY DEVELOPMENT
Attn: DAVE MADSEN

Order #: 95-04-029
Date: 06/15/95 12:44
Work ID: VOA,BNA,TOTMTLS,TPH,FLSHP,PCB
Date Received: 04/26/95
Date Completed: 06/14/95

Purchase Order: 3754-032
Invoice Number:

DCL #S95-0418
Client Code: ERTD

REPORT TO DAVE MADSEN COPY TO JERRY BONN, ERTD.
SAMPLES SENT TO DATACHEM FOR ANALYSIS 04/27/95.

SAMPLE IDENTIFICATION

Sample Number	Sample Description	
01	592-210	FUEL RINSATE
02	592-210	FUEL RINSATE
03	592-210	FUEL RINSATE
04	592-210	FUEL RINSATE
05	592-210	FUEL RINSATE
06	592-210	FUEL RINSATE
07	592-208/209	FUEL RINSATE
08	592-208/209	FUEL RINSATE
09	592-208/209	FUEL RINSATE
10	592-208/209	FUEL RINSATE
11	592-208/209	FUEL RINSATE
12	592-208/209	FUEL RINSATE

Sample Number	Sample Description	
13	592-207	FUEL RINSATE
14	592-207	FUEL RINSATE
15	592-207	FUEL RINSATE
16	592-207	FUEL RINSATE
17	592-207	FUEL RINSATE
18	592-207	FUEL RINSATE
19	592-292	FUEL RINSATE
20	592-292	FUEL RINSATE
21	592-296/318	JET FUEL(R)
22	592-296/318	JET FUEL(R)
23	592-296/318	JET FUEL(R)
24	529-209	BLIND QC

Certified By

Order # 95-04-029
06/15/95 12:44

REECO ASD/ACS
TEST RESULTS BY SAMPLE

Page 2

Sample: 01A 592-210 FUEL RINSATE Collected: 04/26/95 Category: VOA

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
VOLATILE ORGANIC ANALYSIS	DATAHEM		#S95-0418-JJ	05/05/95	DCL

Sample: 01B 592-210MS FUEL RINSATE Collected: Category: VOA_MS

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
VOLATILE ORGANIC ANALYSIS	DATAHEM		#S95-0418-JJ	05/05/95	DCL

Sample: 01C 592-210MSD FUEL RINSATE Collected: Category: VOA_MSD

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
VOLATILE ORGANIC ANALYSIS	DATAHEM		#S95-0418-JJ	05/05/95	DCL

Sample: 02A 592-210 FUEL RINSATE Collected: Category: BNA

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BNA ORGANICS (EPA 8270)	DATAHEM		#S95-0418-IJ	05/10/95	DCL

Sample: 04A 592-210 FUEL RINSATE Collected: Category: TPH

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TPH - DIESEL	6400		µg/L	05/09/95	DCL
TPH - GASOLINE	2.0		mg/L	05/08/95	DCL
TPH - OIL	ND		µg/L	05/09/95	DCL

Sample: 05A 592-210 FUEL RINSATE Collected: Category: FLASHP

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
FLASH POINT	>67		°C	05/04/95	DCL

Sample: 06A 592-210 FUEL RINSATE Collected: Category: PCB
Job: PCB_SO POLYCHLORINATED BIPHENYLS

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PCB 1016	ND		µg/L	05/10/95	DCL
PCB 1221	ND		µg/L	05/10/95	DCL
PCB 1232	ND		µg/L	05/10/95	DCL
PCB 1242	ND		µg/L	05/10/95	DCL
PCB 1248	ND		µg/L	05/10/95	DCL
PCB 1254	ND		µg/L	05/10/95	DCL
PCB 1260	ND		µg/L	05/10/95	DCL

Sample: 07A 592-208/209 FUEL RINSATE Collected: Category: VOA

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
VOLATILE ORGANIC ANALYSIS	DATAHEM		#S95-0418-JJ	05/09/95	DCL

Sample: 08A 592-208/209 FUEL RINSATE Collected: Category: BNA

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BNA ORGANICS (EPA 8270)	DATAHEM		#S95-0418-IJ	05/09/95	DCL

Order # 95-04-029
06/15/95 12:44

REECO ASD/ACS
TEST RESULTS BY SAMPLE

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Sample: 10A 592-208/209 FUEL RINSATE Collected: Category: TPH

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TPH - DIESEL	3300000		µg/L	05/09/95	DCL
TPH - GASOLINE	2.1		mg/L	05/09/95	DCL
TPH - OIL	ND		µg/L	05/09/95	DCL

Sample: 11A 592-208/209 FUEL RINSATE Collected: Category: FLASHP

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
FLASH POINT	53		°C	05/04/95	DCL

Sample: 12A 592-208/209 FUEL RINSATE Collected: Category: PCB
Job: PCB_SO POLYCHLORINATED BIPHENYLS

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PCB 1016	ND		µg/L	05/10/95	DCL
PCB 1221	ND		µg/L	05/10/95	DCL
PCB 1232	ND		µg/L	05/10/95	DCL
PCB 1242	ND		µg/L	05/10/95	DCL
PCB 1248	ND		µg/L	05/10/95	DCL
PCB 1254	ND		µg/L	05/10/95	DCL
PCB 1260	ND		µg/L	05/10/95	DCL

Sample: 13A 592-207 FUEL RINSATE Collected: Category: VOA

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
VOLATILE ORGANIC ANALYSIS	DATAHEM		#S95-0418-JJ	05/05/95	DCL

Sample: 14A 592-207 FUEL RINSATE Collected: Category: BNA

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
BNA ORGANICS (EPA 8270)	DATAHEM		#S95-0418-IJ	05/10/95	DCL

Sample: 16A 592-207 FUEL RINSATE Collected: Category: TPH

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TPH - DIESEL	920		µg/L	05/09/95	DCL
TPH - GASOLINE	1.2		mg/L	05/08/95	DCL
TPH - OIL	ND		µg/L	05/09/95	DCL

Sample: 17A 592-207 FUEL RINSATE Collected: Category: FLASHP

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
FLASH POINT	48		°C	05/04/95	DCL

Sample: 18A 592-207 FUEL RINSATE Collected: Category: PCB
Job: PCB_SO POLYCHLORINATED BIPHENYLS

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PCB 1016	ND		µg/L	05/10/95	DCL

Order # 95-04-029
06/15/95 12:44

REECO ASD/ACS
TEST RESULTS BY SAMPLE

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<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PCB 1221	ND		µg/L	05/10/95	DCL
PCB 1232	ND		µg/L	05/10/95	DCL
PCB 1242	ND		µg/L	05/10/95	DCL
PCB 1248	ND		µg/L	05/10/95	DCL
PCB 1254	ND		µg/L	05/10/95	DCL
PCB 1260	ND		µg/L	05/10/95	DCL

Sample: 19A 592-292 FUEL RINSATE Collected: Category: VOA

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
VOLATILE ORGANIC ANALYSIS	DATAHEM		#S95-0418-JJ	05/05/95	DCL

Sample: 20A 592-292 FUEL RINSATE Collected: Category: TPH

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TPH - DIESEL	120000		µg/L	05/09/95	DCL

Sample: 21A 592-296/318 JET FUEL(R) Collected: Category: VOA

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
VOLATILE ORGANIC ANALYSIS	DATAHEM		#S95-0418-JJ	05/05/95	DCL

Sample: 23A 592-296/318 JET FUEL(R) Collected: Category: TPH

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TPH - JET FUEL	160000		µg/L	05/09/95	DCL

VOLATILES RESULTS

MAY 12 1995

Case Narrative

DCL Set ID #(s): S95-0419-II

Reference Packet #: 95-04-030

Client: REECO

Account #: 3018

May 12, 1995

Analysis / Method: Method 8240 is an EPA SW846 method (DCL SOP OV-SW-8240 Revision 2 - herein referred to as the "method") used in the analysis of water samples for volatile organics by GC/MS purge and trap techniques.

General Set Information: Datachem Laboratories received one water sample for VOA analysis. The sample was analyzed within fourteen days of sampling. Recoveries of target analytes are reported on the Sample Analysis Data Sheet in units of ug/L.

Sample Preparation: This method has no extraction procedure for the water matrix. The sample preparation date is the same as the date of analysis. Five milliliters of sample was spiked with 2.5 uL of Internal Standard/Surrogate Solution.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-Bromofluorobenzene as specified in the method, section 9.1. This tune check is valid for 12 hours.

Initial and Continuing Calibration Verification: The five point initial calibration curve which was analyzed prior to sample analysis met the specified criteria in section 9.2 of the method. System performance check compounds (SPCC) are checked for a minimum response factor of 0.300. These compounds are chloromethane, bromoform (can be 0.250), 1,1-dichloroethane, chlorobenzene, and 1,1,2,2-tetrachloroethane. Response factors for the calibration check compounds (toluene, 1,1-dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, and vinyl chloride) from the initial calibration curve are used to calculate percent relative standard deviations (%RSD). For the initial calibration standards, the %RSD for the calibration check compounds (CCC) must be less than 30%.

A continuing calibration standard (CCS) which is used for the quantitation of each target compound was also analyzed prior to sample analysis. The CCS met the method criteria as specified in section 9.3. The response factors of the SPCC's met the minimum criteria of 0.300, except for bromoform at 0.250. The CCC's were less than 25% difference with the average response from the initial calibration curve.

Method Blank Analysis: A method blank (BL-55714-1) was prepared using Barnstead reagent water spiked with 2.5 uL of Internal Standard/Surrogate Solution and analyzed prior to sample analysis. The blank was free of volatile organic contaminants within the specifications of the method, section 13.5.

MS/MSD Analysis: No MS/MSD analysis performed for this set because the sample is a trip blank.

Laboratory Control Sample Analysis: No LCS analysis performed for this set because the sample is a trip blank.

Data Qualifier Codes: The "J" flag indicates a result is greater than the MDL but less than the CRDL. Analytes found in field samples which also appear in the method blanks are reported with a "B" qualifier in the Flag column. Spiked analytes are reported using an "SP" qualifier in the Flag column.

Miscellaneous Comments: All surrogate recoveries were within established QC limits. Instrument designation is HP5972-O. As per customer request, no unknowns were reported.

Christopher Q. Coleman

COVER FORM (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63M-V1.0
05129513115885
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SUMMARY INFORMATION

G9541057

REECO
Attention: Jerry Dugas
P. O. Box 98521, M/S 713
Las Vegas, NV 89193-8521

Date Reported.....:

Date Printed.....: 12-MAY-95 13:11
DCL Client Group...: S95-0419-II

Client Ref Number.: Not Provided
Release Number....: Not Provided

Analysis Method....: EPA 8240

Client Sample ID

95EVO0425-1

Lab Sample ID

EO 3533

Analyst: Christopher Q. Coleman

Reviewer: Thomas J. Masoian

Laboratory Supervisor: Thomas J. Masoian

FORM H (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE GROUP COMMENTS

Form RLIMS63H-V1.0
05129513115885
Page 2

G9541057

Date Printed.....: 12-MAY-95 13:11
DCL Client Group...: S95-0419-II

Client Name.....: REECO

Release Number.....: Not Provided

Sample Group Comments

No MS/MSD analysis performed because the sample is a trip blank.
Surrogate compounds are spiked at 50 ug/L.
The QC and sample data for this set are within acceptable parameters.
The samples were analyzed by GC/MS according to method 8240 (OV-SW-9240 Rev 2).
As per customer request no unknowns were reported.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

Symbol Definitions

- ND - Not Detected above the MDL or IDL (LLD or MDC for radiochemistry).
- B - For organic analysis the qualifier indicates that this analyte was found in the method blank. For inorganic analysis the qualifier signifies the value is between the IDL and PQL.
- J - The qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.0
05129513115885

Page 3

S9541108

Client Name.....: REECO
Client Ref Number.....: Not Provided
Sampling Site.....: A25-RMAD
Release Number.....: Not Provided

Date Received.....: 01-MAY-95 00:00
DCL Client Group.....: S95-0419-II

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume.....: Not Required

Date Printed.....: 12-MAY-95 13:11

Client Sample Name: 95EVO0425-1

DCL Sample Name....: EO 3533

Matrix.....: WATER

Date Sampled.....: 25-APR-95 00:00

Reporting Units....: UG/L

Report Basis.....: ☐ As Received ☐ Dried

DCL Analysis Group: G954C00R

Analysis Method....: EPA 8240

Instrument Type....: GC/MS

Instrument ID.....: 5972-0

Column Type.....: DB 624

☒ Primary

☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Chloromethane	05-MAY-95 10:58	0.24	ND			10
Bromomethane	05-MAY-95 10:58	0.17	ND			10
Vinyl Chloride	05-MAY-95 10:58	0.22	ND			10
Chloroethane	05-MAY-95 10:58	0.28	ND			10
Methylene Chloride	05-MAY-95 10:58	0.17	ND			5
Acetone	05-MAY-95 10:58	3.75	ND			100
Carbon Disulfide	05-MAY-95 10:58	0.31	ND			5
Trichlorofluoromethane	05-MAY-95 10:58	0.41	ND			5
1,1-Dichloroethane	05-MAY-95 10:58	0.17	ND			5
1,1-Dichloroethene	05-MAY-95 10:58	0.40	ND			5
total-1,2-Dichloroethene	05-MAY-95 10:58	0.27	ND			5
Chloroform	05-MAY-95 10:58	0.14	ND			5
1,2-Dichloroethane	05-MAY-95 10:58	0.13	ND			5
Iodomethane	05-MAY-95 10:58	0.13	ND			5
Acrolein	05-MAY-95 10:58	6.32	ND			20
Acrylonitrile	05-MAY-95 10:58	0.66	ND			20
2-Butanone	05-MAY-95 10:58	2.48	ND			100
1,1,1-Trichloroethane	05-MAY-95 10:58	0.23	ND			5
Carbon Tetrachloride	05-MAY-95 10:58	0.28	ND			5
Vinyl Acetate	05-MAY-95 10:58	0.37	ND			5
Bromodichloromethane	05-MAY-95 10:58	0.13	ND			5
1,2-Dichloropropane	05-MAY-95 10:58	0.13	ND			5
cis-1,3-Dichloropropene	05-MAY-95 10:58	0.11	ND			5
Trichloroethene	05-MAY-95 10:58	0.19	ND			5
Benzene	05-MAY-95 10:58	0.13	ND			5
Dibromochloromethane	05-MAY-95 10:58	0.06	ND			5
1,1,2-Trichloroethane	05-MAY-95 10:58	0.20	ND			5
trans-1,3-Dichloropropene	05-MAY-95 10:58	0.10	ND			5
2-Chloroethylvinyl Ether	05-MAY-95 10:58	0.15	ND			10
Bromoform	05-MAY-95 10:58	0.11	ND			5
Dibromomethane	05-MAY-95 10:58	0.14	ND			5
trans-1,4-Dichloro-2-Butene	05-MAY-95 10:58	0.39	ND			5
4-Methyl-2-Pentanone	05-MAY-95 10:58	0.10	ND			50
1,2,3-Trichloropropane	05-MAY-95 10:58	0.31	ND			5
2-Hexanone	05-MAY-95 10:58	0.26	ND			50
1,1,2,2-Tetrachloroethane	05-MAY-95 10:58	0.14	ND			5
Tetrachloroethene	05-MAY-95 10:58	0.17	ND			5
Ethyl Methacrylate	05-MAY-95 10:58	0.28	ND			5
Toluene	05-MAY-95 10:58	0.15	ND			5
Chlorobenzene	05-MAY-95 10:58	0.14	ND			5
Ethylbenzene	05-MAY-95 10:58	0.19	ND			-5

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.0
05129513115885
Page 4

S9541108

Client Name.....: REECO

Date Printed.....: 12-MAY-95 13:11

DCL Sample Name....: EO 3533

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Styrene	05-MAY-95 10:58	0.11	ND			5
Total Xylene	05-MAY-95 10:58	0.37	ND			5
1,2-Dichloroethane-D4	05-MAY-95 10:58		49.			
Toluene-D8	05-MAY-95 10:58		50.			
Bromofluorobenzene	05-MAY-95 10:58		50.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	49.0	50.0	98.0
bromofluorobenzene	50.2	50.0	100.
toluene-d8	50.0	50.0	100.

FORM B (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63B-V1.0
05129513115885

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QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

S954C03V

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....: UG/L

LCS Source.....:

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

Date Printed.....: 12-MAY-95 13:11

DCL Sample Name....: QC-55714-1

DCL Analysis Group: G954C00R
Analysis Method...: EPA 8240
Instrument Type...: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

- Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 10:28	50.0	48.6	97.1	66.5/127.	
benzene	05-MAY-95 10:28	50.0	48.8	97.7	75.9/117.	
chlorobenzene	05-MAY-95 10:28	50.0	49.0	97.9	79.1/119.	
toluene	05-MAY-95 10:28	50.0	49.3	98.7	78.4/119.	
trichloroethene	05-MAY-95 10:28	50.0	46.1	92.2	74.1/112.

FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

Form RLIMS63C-V1.0
05129513115885
Page 6

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....:

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

Date Printed.....: 12-MAY-95 13:11
DCL Sample Name....: BL-55714-1

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	Result	CRDL
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FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

Form RLIMS63C-V1.0
05129513115885

Page 7

S954C03T

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....:

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

Date Printed.....: 12-MAY-95 13:11

DCL Sample Name....: BL-55714-2

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	Result	CRDL
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FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

Form RLIMS63F-V1.0
05129513115885
Page 8

S9541105

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: OIL
Reporting Units.....: UG/L

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable

Date Printed.....: 12-MAY-95 13:11
DCL Sample Name....: EO 3532MS

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8260
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 18:40	ND	48.2	50.0	96.3	64.8/122.	
benzene	05-MAY-95 18:40	ND	52.5	50.0	105.	79.2/111.	
chlorobenzene	05-MAY-95 18:40	ND	53.0	50.0	106.	78.0/117.	
toluene	05-MAY-95 18:40	ND	52.1	50.0	104.	78.6/117.	
trichloroethene	05-MAY-95 18:40	ND	48.4	50.0	96.8	74.9/107.

S9541106

DCL Sample Name....: EO 3532MSD

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 19:10	46.1	92.1	47.1	2.11	4.5	0.000/17.1	
benzene	05-MAY-95 19:10	49.9	99.8	51.2	2.63	5.1	0.000/13.3	
chlorobenzene	05-MAY-95 19:10	51.0	102.	52.0	2.06	4.0	0.000/15.5	
toluene	05-MAY-95 19:10	49.4	98.8	50.8	2.73	5.4	0.000/15.7	
trichloroethene	05-MAY-95 19:10	45.3	90.7	46.9	3.06	6.5	0.000/13.7

FORM F (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

Form RLIMS63F-V1.0
05129513115885
Page 9

S954C03W

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....: UG/L

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable

Date Printed.....: 12-MAY-95 13:11
DCL Sample Name....: EO 3526MS

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 17:40	ND	50.9	50.0	102.	64.8/122.	
benzene	05-MAY-95 17:40	ND	52.6	50.0	105.	79.2/111.	
chlorobenzene	05-MAY-95 17:40	ND	53.9	50.0	108.	78.0/117.	
toluene	05-MAY-95 17:40	ND	53.7	50.0	107.	78.6/117.	
trichloroethene	05-MAY-95 17:40	ND	49.7	50.0	99.4	74.9/107.

S954C03X

DCL Sample Name....: EO 3526MSD

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 18:10	46.5	93.1	48.7	4.34	8.9	0.000/17.1	
benzene	05-MAY-95 18:10	49.4	98.7	51.0	3.27	6.4	0.000/13.3	
chlorobenzene	05-MAY-95 18:10	50.5	101.	52.2	3.43	6.6	0.000/15.5	
toluene	05-MAY-95 18:10	49.9	99.8	51.8	3.78	7.3	0.000/15.7	
trichloroethene	05-MAY-95 18:10	46.4	92.8	48.0	3.31	6.9	0.000/13.7

FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

Form RLIMS63G-V1.0
05129513115885
Page 10

G954C00R

Date Printed.....: 12-MAY-95 13:11

Client Name.....: REECO
Release Number.....: Not Provided

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240

Matrix.....: WATER
Reporting Units.....: UG/L

DCL Prep Group.....: Not Applicable
Preparation Method: Not Applicable

Surrogate Recoveries

Surr. ID	1,2-dichloroethane-d4			bromofluorobenzene			toluene-d8		
QC Limits	81.8/110.			87.2/114.			95.5/108.		
DCL Sample Number	Analyte Result	Spiked Amount	% Rec. Q	Analyte Result	Spiked Amount	% Rec. Q	Analyte Result	Spiked Amount	% Rec. Q
BL-55714-1	47.8	50.0	95.7	50.4	50.0	101.	49.7	50.0	99.4
BL-55714-2	47.8	50.0	95.5	49.9	50.0	99.7	49.3	50.0	98.5
EO 3526	46.2	50.0	92.4	50.6	50.0	101.	49.7	50.0	99.5
EO 3526MS	47.1	50.0	94.2	50.8	50.0	102.	49.9	50.0	99.9
EO 3526MSD	47.7	50.0	95.4	51.3	50.0	103.	50.1	50.0	100.
EO 3527	45.4	50.0	90.8	48.7	50.0	97.3	49.8	50.0	99.6
EO 3528	47.3	50.0	94.6	50.1	50.0	100.	49.9	50.0	99.7
EO 3529	47.1	50.0	94.2	50.3	50.0	101.	50.2	50.0	100.
EO 3530	46.9	50.0	93.8	49.7	50.0	99.3	50.2	50.0	100.
EO 3532	49.5	50.0	98.9	51.1	50.0	102.	49.2	50.0	98.4
EO 3532MS	48.5	50.0	97.0	51.0	50.0	102.	49.5	50.0	99.1
EO 3532MSD	47.9	50.0	95.7	51.5	50.0	103.	49.8	50.0	99.6
EO 3533	49.0	50.0	98.0	50.2	50.0	100.	50.0	50.0	100.
QC-55714-1	45.8	50.0	91.6	50.2	50.0	100.	50.3	50.0	101.

MAY 12 1995

Case Narrative
DCL Set ID #(s): S95-0418-JJ
Reference Packet #: 95-04-029
Client: REECO
Account #: 3018
May 12, 1995

This report is 39
total pages.

Analysis / Method : Method 8240 is an EPA SW846 method (DCL SOP OV-SW-8240 Revision 2 - herein referred to as the "method") used in the analysis of water samples for volatile organics by GC/MS purge and trap techniques.

General Set Information: Datachem Laboratories received five fuel samples for VOA analysis. The samples were analyzed within fourteen days of sampling. Recoveries of target analytes are reported on the Sample Analysis Data Sheet in units of ug/L.

Sample Preparation: This method has no extraction procedure for the water matrix. The sample preparation date is the same as the date of analysis. Five milliliters of sample was spiked with 2.5 uL of Internal Standard/Surrogate Solution.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-Bromofluorobenzene as specified in the method, section 9.1. This tune check is valid for 12 hours.

Initial and Continuing Calibration Verification: The five point initial calibration curve which was analyzed prior to sample analysis met the specified criteria in section 9.2 of the method. System performance check compounds (SPCC) are checked for a minimum response factor of 0.300. These compounds are chloromethane, bromoform (can be 0.250), 1,1-dichloroethane, chlorobenzene, and 1,1,2,2-tetrachloroethane. Response factors for the calibration check compounds (toluene, 1,1-dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, and vinyl chloride) from the initial calibration curve are used to calculate percent relative standard deviations (%RSD). For the initial calibration standards, the %RSD for the calibration check compounds (CCC) must be less than 30%.

A continuing calibration standard (CCS) which is used for the quantitation of each target compound was also analyzed prior to sample analysis. The CCS met the method criteria as specified in section 9.3. The response factors of the SPCC's met the minimum criteria of 0.300, except for bromoform at 0.250. The CCC's were less than 25% difference with the average response from the initial calibration curve.

Method Blank Analysis: Two method blanks (BL-55714-1,2) were prepared using Barnstead reagent water spiked with 2.5 uL of Internal Standard/Surrogate Solution and analyzed prior to sample analysis. The blanks were free of volatile organic contaminants within the specifications of the method, section 13.5.

MS / MSD Analysis: Matrix spike and matrix spike duplicate analyses were performed for sample EO 3526 (592-210). All recoveries were within QC limits.

Laboratory Control Sample Analysis: A laboratory control sample (QC-55714-1) was analyzed once for each analytical batch. All recoveries were within established QC limits.

Data Qualifier Codes: The "J" flag indicates a result is greater than the MDL but less than the CRDL. Analytes found in field samples which also appear in the method blanks are reported with a "B" qualifier in the Flag column. Spiked analytes are reported using an "SP" qualifier in the Flag column.

Miscellaneous Comments: All surrogate recoveries were within established QC limits. Instrument designation is HP5972-O. As per customer request, no unknowns were reported. Sample EO 3530 (592-296/318) was analyzed only at a 1:5 dilution in order to protect the integrity of the instrument.

Christopher Q. Coleman

COVER FORM (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63M-V1.0
05129512540855
Page 1

SUMMARY INFORMATION

G954105F

REECO
Attention: Jerry Dugas
P. O. Box 98521, M/S 713
Las Vegas, NV 89193-8521

Date Reported.....:

Date Printed.....: 12-MAY-95 12:54
DCL Client Group...: S95-0418-JJ

Client Ref Number.: Not Provided
Release Number....: Not Provided

Analysis Method....: EPA 8240

<u>Client Sample ID</u>	<u>Lab Sample ID</u>
BL-55714-1	BL-55714-1
BL-55714-2	BL-55714-2
QC-55714-1	QC-55714-1
592-210	EO 3526
592-210	EO 3526MS
592-210	EO 3526MSD
592-208/209	EO 3527
592-207	EO 3528
592-292	EO 3529
592-296/318	EO 3530

Analyst: Christopher O. Coleman

Reviewer: Thomas J. Masolian

Laboratory Supervisor: Thomas J. Masolian

003

FORM H (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63H-V1.0
05129512540855

Page 2

SAMPLE GROUP COMMENTS

G954105F

Date Printed.....: 12-MAY-95 12:54

DCL Client Group...: S95-0418-JJ

Client Name.....: REECO

Release Number....: Not Provided

Sample Group Comments

QC and LCS data included in set S95-0418-JJ.

Surrogate and matrix spike compounds are spiked at 50 ug/L.

The QC and sample data for this set are within acceptable parameters.

The samples were analyzed by GC/MS according to method 8240 (OV-SW-8240 Rev 2).

SP - Spiked analyte.

As per customer request no unknowns were reported.

Sample EO 3530 (592-296/318) was analyzed only at a 1:5 dilution in order to protect the integrity of the instrument.

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

Symbol Definitions

- ND - Not Detected above the MDL or IDL (LLD or MDC for radiochemistry).
- B - For organic analysis the qualifier indicates that this analyte was found in the method blank. For inorganic analysis the qualifier signifies the value is between the IDL and PQL.
- J - The qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

004

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.0
05129512540855
Page 3

8954C03S

Client Name..... REECO
Client Ref Number..... Not Provided
Sampling Site..... Not Applicable
Release Number..... Not Provided

Date Received..... Not Applicable
DCL Client Group..... S95-0418-JJ

DCL Preparation Group: Not Applicable
Date Prepared..... Not Applicable
Preparation Method.... Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume..... Not Required

Date Printed..... 12-MAY-95 12:54
Client Sample Name: BL-55714-1
DCL Sample Name.... BL-55714-1

Matrix..... FUEL
Date Sampled..... Not Applicable
Reporting Units.... UG/L
☐ As Received ☒ Dried

DCL Analysis Group: G954C00R
Analysis Method.... EPA 8240
Instrument Type.... GC/MS
Instrument ID..... 5972-0
Column Type..... DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Chloromethane	05-MAY-95 09:56	0.24	ND			10
Bromomethane	05-MAY-95 09:56	0.17	ND			10
Vinyl Chloride	05-MAY-95 09:56	0.22	ND			10
Chloroethane	05-MAY-95 09:56	0.28	ND			10
Methylene Chloride	05-MAY-95 09:56	0.17	ND			5
Acetone	05-MAY-95 09:56	3.75	ND			100
Carbon Disulfide	05-MAY-95 09:56	0.31	ND			5
Trichlorofluoromethane	05-MAY-95 09:56	0.41	ND			5
1,1-Dichloroethane	05-MAY-95 09:56	0.17	ND			5
1,1-Dichloroethene	05-MAY-95 09:56	0.40	ND			5
total-1,2-Dichloroethene	05-MAY-95 09:56	0.27	ND			5
Chloroform	05-MAY-95 09:56	0.14	ND			5
1,2-Dichloroethane	05-MAY-95 09:56	0.13	ND			5
Iodomethane	05-MAY-95 09:56	0.13	ND			5
Acrolein	05-MAY-95 09:56	6.32	ND			20
Acrylonitrile	05-MAY-95 09:56	0.66	ND			20
2-Butanone	05-MAY-95 09:56	2.48	ND			100
1,1,1-Trichloroethane	05-MAY-95 09:56	0.23	ND			5
Carbon Tetrachloride	05-MAY-95 09:56	0.28	ND			5
Vinyl Acetate	05-MAY-95 09:56	0.37	ND			5
Bromodichloromethane	05-MAY-95 09:56	0.13	ND			5
1,2-Dichloropropane	05-MAY-95 09:56	0.13	ND			5
cis-1,3-Dichloropropene	05-MAY-95 09:56	0.11	ND			5
Trichloroethene	05-MAY-95 09:56	0.19	ND			5
Benzene	05-MAY-95 09:56	0.13	ND			5
Dibromochloromethane	05-MAY-95 09:56	0.06	ND			5
1,1,2-Trichloroethane	05-MAY-95 09:56	0.20	ND			5
trans-1,3-Dichloropropene	05-MAY-95 09:56	0.10	ND			5
2-Chloroethylvinyl Ether	05-MAY-95 09:56	0.15	ND			10
Bromoform	05-MAY-95 09:56	0.11	ND			5
Dibromomethane	05-MAY-95 09:56	0.14	ND			5
trans-1,4-Dichloro-2-Butene	05-MAY-95 09:56	0.39	ND			5
4-Methyl-2-Pentanone	05-MAY-95 09:56	0.10	ND			50
1,2,3-Trichloropropane	05-MAY-95 09:56	0.31	ND			5
2-Hexanone	05-MAY-95 09:56	0.26	ND			50
1,1,2,2-Tetrachloroethane	05-MAY-95 09:56	0.14	ND			5
Tetrachloroethene	05-MAY-95 09:56	0.17	ND			5
Ethyl Methacrylate	05-MAY-95 09:56	0.28	ND			5
Toluene	05-MAY-95 09:56	0.15	ND			5
Chlorobenzene	05-MAY-95 09:56	0.14	ND			5
Ethylbenzene	05-MAY-95 09:56	0.19	ND			5

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SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET

S954C03S

Client Name.....: REECO

Date Printed.....: 12-MAY-95 12:54

DCL Sample Name....: BL-55714-1

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Styrene	05-MAY-95 09:56	0.11	ND			5
Total Xylene	05-MAY-95 09:56	0.37	ND			5
1,2-Dichloroethane-D4	05-MAY-95 09:56		48.			
Toluene-D8	05-MAY-95 09:56		50.			
Bromofluorobenzene	05-MAY-95 09:56		50.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	47.8	50.0	95.7
bromofluorobenzene	50.4	50.0	101.
toluene-d8	49.7	50.0	99.4

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S954C03T

Client Name.....: REECO
Client Ref Number.....: Not Provided
Sampling Site.....: Not Applicable
Release Number.....: Not Provided

Date Received.....: Not Applicable
DCL Client Group.....: S95-0418-JJ

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume.....: Not Required

Date Printed.....: 12-MAY-95 12:54
Client Sample Name: BL-55714-2
DCL Sample Name....: BL-55714-2

Matrix.....: FUEL
Date Sampled.....: Not Applicable
Reporting Units....: UG/L
☐ As Received ☐ Dried

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-O
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Chloromethane	09-MAY-95 10:20	0.24	ND			10
Bromomethane	09-MAY-95 10:20	0.17	ND			10
Vinyl Chloride	09-MAY-95 10:20	0.22	ND			10
Chloroethane	09-MAY-95 10:20	0.28	ND			10
Methylene Chloride	09-MAY-95 10:20	0.17	ND			5
Acetone	09-MAY-95 10:20	3.75	ND			100
Carbon Disulfide	09-MAY-95 10:20	0.31	ND			5
Trichlorofluoromethane	09-MAY-95 10:20	0.41	ND			5
1,1-Dichloroethane	09-MAY-95 10:20	0.17	ND			5
1,1-Dichloroethene	09-MAY-95 10:20	0.40	ND			5
total-1,2-Dichloroethene	09-MAY-95 10:20	0.27	ND			5
Chloroform	09-MAY-95 10:20	0.14	ND			5
1,2-Dichloroethane	09-MAY-95 10:20	0.13	ND			5
Iodomethane	09-MAY-95 10:20	0.13	ND			5
Acrolein	09-MAY-95 10:20	6.32	ND			20
Acrylonitrile	09-MAY-95 10:20	0.66	ND			20
2-Butanone	09-MAY-95 10:20	2.48	ND			100
1,1,1-Trichloroethane	09-MAY-95 10:20	0.23	ND			5
Carbon Tetrachloride	09-MAY-95 10:20	0.28	ND			5
Vinyl Acetate	09-MAY-95 10:20	0.37	ND			5
Bromodichloromethane	09-MAY-95 10:20	0.13	ND			5
1,2-Dichloropropane	09-MAY-95 10:20	0.13	ND			5
cis-1,3-Dichloropropene	09-MAY-95 10:20	0.11	ND			5
Trichloroethene	09-MAY-95 10:20	0.19	ND			5
Benzene	09-MAY-95 10:20	0.13	ND			5
Dibromochloromethane	09-MAY-95 10:20	0.06	ND			5
1,1,2-Trichloroethane	09-MAY-95 10:20	0.20	ND			5
trans-1,3-Dichloropropene	09-MAY-95 10:20	0.10	ND			5
2-Chloroethylvinyl Ether	09-MAY-95 10:20	0.15	ND			10
Bromoform	09-MAY-95 10:20	0.11	ND			5
Dibromomethane	09-MAY-95 10:20	0.14	ND			5
trans-1,4-Dichloro-2-Butene	09-MAY-95 10:20	0.39	ND			5
4-Methyl-2-Pentanone	09-MAY-95 10:20	0.10	ND			50
1,2,3-Trichloropropane	09-MAY-95 10:20	0.31	ND			5
2-Hexanone	09-MAY-95 10:20	0.26	ND			50
1,1,2,2-Tetrachloroethane	09-MAY-95 10:20	0.14	ND			5
Tetrachloroethene	09-MAY-95 10:20	0.17	ND			5
Ethyl Methacrylate	09-MAY-95 10:20	0.28	ND			5
Toluene	09-MAY-95 10:20	0.15	ND			5
Chlorobenzene	09-MAY-95 10:20	0.14	ND			5
Ethylbenzene	09-MAY-95 10:20	0.19	ND			5

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SAMPLE ANALYSIS DATA SHEET

S954C03T

Client Name.....: REECO

Date Printed.....: 12-MAY-95 12:54

DCL Sample Name....: BL-55714-2

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Styrene	09-MAY-95 10:20	0.11	ND			5
Total Xylene	09-MAY-95 10:20	0.37	ND			5
1,2-Dichloroethane-D4	09-MAY-95 10:20		48.			
Toluene-D8	09-MAY-95 10:20		49.			
Bromofluorobenzene	09-MAY-95 10:20		50.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	47.8	50.0	95.5
bromofluorobenzene	49.9	50.0	99.7
toluene-d8	49.3	50.0	98.5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S954C03V

Client Name.....: REECO
Client Ref Number.....: Not Provided
Sampling Site.....: Not Applicable
Release Number.....: Not Provided

Date Received.....: Not Applicable
DCL Client Group.....: S95-0418-JJ

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume.....: Not Required

Date Printed.....: 12-MAY-95 12:54

Client Sample Name: QC-55714-1

DCL Sample Name....: QC-55714-1

Matrix.....: FUEL

Date Sampled.....: Not Applicable

Reporting Units....: UG/L

☐ As Received ☐ Dried

DCL Analysis Group: G954C00R

Analysis Method....: EPA 8240

Instrument Type....: GC/MS

Instrument ID.....: 5972-0

Column Type.....: DB 624

☒ Primary

☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
1,1-Dichloroethene	05-MAY-95 10:28	0.40	48.	SP		5
Trichloroethene	05-MAY-95 10:28	0.19	46.	SP		5
Benzene	05-MAY-95 10:28	0.13	49.	SP		5
Toluene	05-MAY-95 10:28	0.15	49.	SP		5
Chlorobenzene	05-MAY-95 10:28	0.14	49.	SP		5
1,2-Dichloroethane-D4	05-MAY-95 10:28		46.			
Toluene-D8	05-MAY-95 10:28		50.			
Bromofluorobenzene	05-MAY-95 10:28		50.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	45.8	50.0	91.6
bromofluorobenzene	50.2	50.0	100.
toluene-d8	50.3	50.0	101.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S9541111

Client Name.....: REECO
Client Ref Number.....: Not Provided
Sampling Site.....: A-9
Release Number.....: Not Provided

Date Received.....: 01-MAY-95 00:00
DCL Client Group.....: S95-0418-JJ

DCL Preparation Group: Not Applicable
Date Prepared.....: 03-APR-95 00:00
Preparation Method....: Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume.....: Not Required

Date Printed.....: 12-MAY-95 12:54
Client Sample Name: 592-210
DCL Sample Name....: EO 3526

Matrix.....: FUEL
Date Sampled.....: 26-APR-95 00:00
Reporting Units....: UG/L
Report Basis.....: ☐ As Received ☐ Dried

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Chloromethane	05-MAY-95 15:04	0.24	ND			10
Bromomethane	05-MAY-95 15:04	0.17	ND			10
Vinyl Chloride	05-MAY-95 15:04	0.22	ND			10
Chloroethane	05-MAY-95 15:04	0.28	ND			10
Methylene Chloride	05-MAY-95 15:04	0.17	ND			5
Acetone	05-MAY-95 15:04	3.75	ND			100
Carbon Disulfide	05-MAY-95 15:04	0.31	ND			5
Trichlorofluoromethane	05-MAY-95 15:04	0.41	ND			5
1,1-Dichloroethane	05-MAY-95 15:04	0.17	ND			5
1,1-Dichloroethene	05-MAY-95 15:04	0.40	ND			5
total-1,2-Dichloroethene	05-MAY-95 15:04	0.27	ND			5
Chloroform	05-MAY-95 15:04	0.14	ND			5
1,2-Dichloroethane	05-MAY-95 15:04	0.13	ND			5
Iodomethane	05-MAY-95 15:04	0.13	ND			5
Acrolein	05-MAY-95 15:04	6.32	ND			20
Acrylonitrile	05-MAY-95 15:04	0.66	ND			20
2-Butanone	05-MAY-95 15:04	2.48	ND			100
1,1,1-Trichloroethane	05-MAY-95 15:04	0.23	ND			5
Carbon Tetrachloride	05-MAY-95 15:04	0.28	ND			5
Vinyl Acetate	05-MAY-95 15:04	0.37	ND			5
Bromodichloromethane	05-MAY-95 15:04	0.13	ND			5
1,2-Dichloropropane	05-MAY-95 15:04	0.13	ND			5
cis-1,3-Dichloropropene	05-MAY-95 15:04	0.11	ND			5
Trichloroethene	05-MAY-95 15:04	0.19	ND			5
Benzene	05-MAY-95 15:04	0.13	ND			5
Dibromochloromethane	05-MAY-95 15:04	0.06	ND			5
1,1,2-Trichloroethane	05-MAY-95 15:04	0.20	ND			5
trans-1,3-Dichloropropene	05-MAY-95 15:04	0.10	ND			5
2-Chloroethylvinyl Ether	05-MAY-95 15:04	0.15	ND			10
Bromoform	05-MAY-95 15:04	0.11	ND			5
Dibromomethane	05-MAY-95 15:04	0.14	ND			5
trans-1,4-Dichloro-2-Butene	05-MAY-95 15:04	0.39	ND			5
4-Methyl-2-Pentanone	05-MAY-95 15:04	0.10	ND			50
1,2,3-Trichloropropane	05-MAY-95 15:04	0.31	ND			5
2-Hexanone	05-MAY-95 15:04	0.26	ND			50
1,1,2,2-Tetrachloroethane	05-MAY-95 15:04	0.14	ND			5
Tetrachloroethene	05-MAY-95 15:04	0.17	ND			5
Ethyl Methacrylate	05-MAY-95 15:04	0.28	ND			5
Toluene	05-MAY-95 15:04	0.15	ND			5
Chlorobenzene	05-MAY-95 15:04	0.14	ND			5
Ethylbenzene	05-MAY-95 15:04	0.19	ND			5

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S9541111

Client Name.....: REECO

Date Printed.....: 12-MAY-95 12:54

DCL Sample Name....: EO 3526

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Styrene	05-MAY-95 15:04	0.11	ND			5
Total Xylene	05-MAY-95 15:04	0.37	ND			5
1,2-Dichloroethane-D4	05-MAY-95 15:04		46.			
Toluene-D8	05-MAY-95 15:04		50.			
Bromofluorobenzene	05-MAY-95 15:04		51.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	46.2	50.0	92.4
bromofluorobenzene	50.6	50.0	101.
toluene-d8	49.7	50.0	99.5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET

S954C03W

Client Name..... REECO
Client Ref Number..... Not Provided
Sampling Site..... A-9
Release Number..... Not Provided

Date Received..... 01-MAY-95 00:00
DCL Client Group..... S95-0418-JJ

DCL Preparation Group: Not Applicable
Date Prepared..... Not Applicable
Preparation Method.... Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume..... Not Required

Date Printed..... 12-MAY-95 12:54
Client Sample Name: 592-210
DCL Sample Name.... EO 3526MS
Matrix..... FUEL
Date Sampled..... Not Provided
Reporting Units.... UG/L
Report Basis..... ☐ As Received ☐ Dried

DCL Analysis Group: G954C00R
Analysis Method.... EPA 8240
Instrument Type.... GC/MS
Instrument ID..... 5972-0
Column Type..... DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
1,1-Dichloroethene	05-MAY-95 17:40	0.40	51.	SP		5
Trichloroethene	05-MAY-95 17:40	0.19	50.	SP		5
Benzene	05-MAY-95 17:40	0.13	53.	SP		5
Toluene	05-MAY-95 17:40	0.15	54.	SP		5
Chlorobenzene	05-MAY-95 17:40	0.14	54.	SP		5
1,2-Dichloroethane-D4	05-MAY-95 17:40		47.			
Toluene-D8	05-MAY-95 17:40		50.			
Bromofluorobenzene	05-MAY-95 17:40		51.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	47.1	50.0	94.2
bromofluorobenzene	50.8	50.0	102.
toluene-d8	49.9	50.0	99.9

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S954C03X

Client Name..... REECO
Client Ref Number..... Not Provided
Sampling Site..... A-9
Release Number..... Not Provided

Date Received..... 01-MAY-95 00:00
DCL Client Group..... S95-0418-JJ

DCL Preparation Group: Not Applicable
Date Prepared..... Not Applicable
Preparation Method.... Not Applicable
- Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume..... Not Required

Date Printed..... 12-MAY-95 12:54
Client Sample Name: 592-210
DCL Sample Name.... EO 3526MSD

Matrix..... FUEL
Date Sampled..... Not Provided
Reporting Units.... UG/L
Report Basis..... ☐ As Received ☐ Dried

DCL Analysis Group: G954C00R
Analysis Method.... EPA 8240
Instrument Type.... GC/MS
Instrument ID..... 5972-0
Column Type..... DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
1,1-Dichloroethene	05-MAY-95 18:10	0.40	46.	SP		5
Trichloroethene	05-MAY-95 18:10	0.19	46.	SP		5
Benzene	05-MAY-95 18:10	0.13	49.	SP		5
Toluene	05-MAY-95 18:10	0.15	50.	SP		5
Chlorobenzene	05-MAY-95 18:10	0.14	50.	SP		5
1,2-Dichloroethane-D4	05-MAY-95 18:10		48.			
Toluene-D8	05-MAY-95 18:10		50.			
Bromofluorobenzene	05-MAY-95 18:10		51.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	47.7	50.0	95.4
bromofluorobenzene	51.3	50.0	103.
toluene-d8	50.1	50.0	100.

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SAMPLE ANALYSIS DATA SHEET

S9541112

Client Name.....: REECO
Client Ref Number.....: Not Provided
Sampling Site.....: A-9
Release Number.....: Not Provided

Date Received.....: 01-MAY-95 00:00
DCL Client Group.....: S95-0418-JJ

Date Printed.....: 12-MAY-95 12:54
Client Sample Name: 592-208/209
DCL Sample Name....: EO 3527

Matrix.....: FUEL
Date Sampled.....: 26-APR-95 00:00
Reporting Units....: UG/L
Report Basis.....: ☐ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: 03-APR-95 00:00
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Chloromethane	09-MAY-95 15:32	0.24	ND			10
Bromomethane	09-MAY-95 15:32	0.17	ND			10
Vinyl Chloride	09-MAY-95 15:32	0.22	ND			10
Chloroethane	09-MAY-95 15:32	0.28	ND			10
Methylene Chloride	09-MAY-95 15:32	0.17	ND			5
Acetone	09-MAY-95 15:32	3.75	150			100
Carbon Disulfide	09-MAY-95 15:32	0.31	ND			5
Trichlorofluoromethane	09-MAY-95 15:32	0.41	ND			5
1,1-Dichloroethane	09-MAY-95 15:32	0.17	ND			5
1,1-Dichloroethene	09-MAY-95 15:32	0.40	ND			5
total-1,2-Dichloroethene	09-MAY-95 15:32	0.27	ND			5
Chloroform	09-MAY-95 15:32	0.14	ND			5
1,2-Dichloroethane	09-MAY-95 15:32	0.13	ND			5
Iodomethane	09-MAY-95 15:32	0.13	ND			5
Acrolein	09-MAY-95 15:32	6.32	ND			20
Acrylonitrile	09-MAY-95 15:32	0.66	ND			20
2-Butanone	09-MAY-95 15:32	2.48	16.	J		100
1,1,1-Trichloroethane	09-MAY-95 15:32	0.23	ND			5
Carbon Tetrachloride	09-MAY-95 15:32	0.28	ND			5
Vinyl Acetate	09-MAY-95 15:32	0.37	ND			5
Bromodichloromethane	09-MAY-95 15:32	0.13	ND			5
1,2-Dichloropropane	09-MAY-95 15:32	0.13	ND			5
cis-1,3-Dichloropropene	09-MAY-95 15:32	0.11	ND			5
Trichloroethene	09-MAY-95 15:32	0.19	ND			5
Benzene	09-MAY-95 15:32	0.13	2.3	J		5
Dibromochloromethane	09-MAY-95 15:32	0.06	ND			5
1,1,2-Trichloroethane	09-MAY-95 15:32	0.20	ND			5
trans-1,3-Dichloropropene	09-MAY-95 15:32	0.10	ND			5
2-Chloroethylvinyl Ether	09-MAY-95 15:32	0.15	ND			10
Bromoform	09-MAY-95 15:32	0.11	ND			5
Dibromomethane	09-MAY-95 15:32	0.14	ND			5
trans-1,4-Dichloro-2-Butene	09-MAY-95 15:32	0.39	ND			5
4-Methyl-2-Pentanone	09-MAY-95 15:32	0.10	ND			50
1,2,3-Trichloropropane	09-MAY-95 15:32	0.31	ND			5
2-Hexanone	09-MAY-95 15:32	0.26	ND			50
1,1,2,2-Tetrachloroethane	09-MAY-95 15:32	0.14	ND			5
Tetrachloroethene	09-MAY-95 15:32	0.17	ND			5
Ethyl Methacrylate	09-MAY-95 15:32	0.28	ND			5
Toluene	09-MAY-95 15:32	0.15	13.			5
Chlorobenzene	09-MAY-95 15:32	0.14	ND			5
Ethylbenzene	09-MAY-95 15:32	0.19	3.7	J		5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S9541112

Client Name.....: REECO

Date Printed.....: 12-MAY-95 12:54
DCL Sample Name....: EO 3527

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Styrene	09-MAY-95 15:32	0.11	ND			5
Total Xylene	09-MAY-95 15:32	0.37	23.			5
1,2-Dichloroethane-D4	09-MAY-95 15:32		45.			
Toluene-D8	09-MAY-95 15:32		50.			
Bromofluorobenzene	09-MAY-95 15:32		49.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	45.4	50.0	90.8
bromofluorobenzene	48.7	50.0	97.3
toluene-d8	49.8	50.0	99.6

FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET

89541113

Client Name..... REECO
Client Ref Number..... Not Provided
Sampling Site..... A-9
Release Number..... Not Provided

Date Received..... 01-MAY-95 00:00
DCL Client Group..... S95-0418-JJ

DCL Preparation Group: Not Applicable
Date Prepared..... 03-APR-95 00:00
Preparation Method.... Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume..... Not Required

Date Printed..... 12-MAY-95 12:54
Client Sample Name: 592-207
DCL Sample Name.... EO 3528

Matrix..... FUEL
Date Sampled..... 26-APR-95 00:00
Reporting Units.... UG/L
Report Basis..... ☐ As Received ☐ Dried

DCL Analysis Group: G954C00R
Analysis Method.... EPA 8240
Instrument Type.... GC/MS
Instrument ID..... 5972-0
Column Type..... DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Chloromethane	05-MAY-95 15:34	0.24	ND			10
Bromomethane	05-MAY-95 15:34	0.17	ND			10
Vinyl Chloride	05-MAY-95 15:34	0.22	ND			10
Chloroethane	05-MAY-95 15:34	0.28	ND			10
Methylene Chloride	05-MAY-95 15:34	0.17	ND			5
Acetone	05-MAY-95 15:34	3.75	ND			100
Carbon Disulfide	05-MAY-95 15:34	0.31	ND			5
Trichlorofluoromethane	05-MAY-95 15:34	0.41	ND			5
1,1-Dichloroethane	05-MAY-95 15:34	0.17	ND			5
1,1-Dichloroethene	05-MAY-95 15:34	0.40	ND			5
total-1,2-Dichloroethene	05-MAY-95 15:34	0.27	ND			5
Chloroform	05-MAY-95 15:34	0.14	ND			5
1,2-Dichloroethane	05-MAY-95 15:34	0.13	ND			5
Iodomethane	05-MAY-95 15:34	0.13	ND			5
Acrolein	05-MAY-95 15:34	6.32	ND			20
Acrylonitrile	05-MAY-95 15:34	0.66	ND			20
2-Butanone	05-MAY-95 15:34	2.48	ND			100
1,1,1-Trichloroethane	05-MAY-95 15:34	0.23	ND			5
Carbon Tetrachloride	05-MAY-95 15:34	0.28	ND			5
Vinyl Acetate	05-MAY-95 15:34	0.37	ND			5
Bromodichloromethane	05-MAY-95 15:34	0.13	ND			5
1,2-Dichloropropane	05-MAY-95 15:34	0.13	ND			5
cis-1,3-Dichloropropene	05-MAY-95 15:34	0.11	ND			5
Trichloroethene	05-MAY-95 15:34	0.19	ND			5
Benzene	05-MAY-95 15:34	0.13	ND			5
Dibromochloromethane	05-MAY-95 15:34	0.06	ND			5
1,1,2-Trichloroethane	05-MAY-95 15:34	0.20	ND			5
trans-1,3-Dichloropropene	05-MAY-95 15:34	0.10	ND			5
2-Chloroethylvinyl Ether	05-MAY-95 15:34	0.15	ND			10
Bromoform	05-MAY-95 15:34	0.11	ND			5
Dibromomethane	05-MAY-95 15:34	0.14	ND			5
trans-1,4-Dichloro-2-Butene	05-MAY-95 15:34	0.39	ND			5
4-Methyl-2-Pentanone	05-MAY-95 15:34	0.10	ND			50
1,2,3-Trichloropropane	05-MAY-95 15:34	0.31	ND			5
2-Hexanone	05-MAY-95 15:34	0.26	ND			50
1,1,2,2-Tetrachloroethane	05-MAY-95 15:34	0.14	ND			5
Tetrachloroethene	05-MAY-95 15:34	0.17	ND			5
Ethyl Methacrylate	05-MAY-95 15:34	0.28	ND			5
Toluene	05-MAY-95 15:34	0.15	ND			5
Chlorobenzene	05-MAY-95 15:34	0.14	ND			5
Ethylbenzene	05-MAY-95 15:34	0.19	ND			5

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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89541113

Client Name.....: REECO

Date Printed.....: 12-MAY-95 12:54

DCL Sample Name....: EO 3528

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Styrene	05-MAY-95 15:34	0.11	ND			5
Total Xylene	05-MAY-95 15:34	0.37	ND			5
1,2-Dichloroethane-D4	05-MAY-95 15:34		47.			
Toluene-D8	05-MAY-95 15:34		50.			
Bromofluorobenzene	05-MAY-95 15:34		50.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	47.3	50.0	94.6
bromofluorobenzene	50.1	50.0	100.
toluene-d8	49.9	50.0	99.7

017

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S9541114

Client Name.....: REECO
Client Ref Number.....: Not Provided
Sampling Site.....: A-9
Release Number.....: Not Provided

Date Received.....: 01-MAY-95 00:00
DCL Client Group.....: S95-0418-JJ

DCL Preparation Group: Not Applicable
Date Prepared.....: 03-APR-95 00:00
Preparation Method....: Not Applicable
Aliquot Weight/Volume: 5.0 mL
Net Weight/Volume.....: Not Required

Date Printed.....: 12-MAY-95 12:54
Client Sample Name: 592-292
DCL Sample Name....: EO 3529

Matrix.....: FUEL
Date Sampled.....: 26-APR-95 00:00
Reporting Units....: UG/L
Report Basis.....: ☐ As Received ☐ Dried

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Chloromethane	05-MAY-95 16:05	0.24	ND			10
Bromomethane	05-MAY-95 16:05	0.17	ND			10
Vinyl Chloride	05-MAY-95 16:05	0.22	ND			10
Chloroethane	05-MAY-95 16:05	0.28	ND			10
Methylene Chloride	05-MAY-95 16:05	0.17	ND			5
Acetone	05-MAY-95 16:05	3.75	67.	J		100
Carbon Disulfide	05-MAY-95 16:05	0.31	ND			5
Trichlorofluoromethane	05-MAY-95 16:05	0.41	ND			5
1,1-Dichloroethane	05-MAY-95 16:05	0.17	ND			5
1,1-Dichloroethene	05-MAY-95 16:05	0.40	ND			5
total-1,2-Dichloroethene	05-MAY-95 16:05	0.27	ND			5
Chloroform	05-MAY-95 16:05	0.14	0.84	J		5
1,2-Dichloroethane	05-MAY-95 16:05	0.13	ND			5
Iodomethane	05-MAY-95 16:05	0.13	ND			5
Acrolein	05-MAY-95 16:05	6.32	ND			20
Acrylonitrile	05-MAY-95 16:05	0.66	ND			20
2-Butanone	05-MAY-95 16:05	2.48	24.	J		100
1,1,1-Trichloroethane	05-MAY-95 16:05	0.23	ND			5
Carbon Tetrachloride	05-MAY-95 16:05	0.28	ND			5
Vinyl Acetate	05-MAY-95 16:05	0.37	ND			5
Bromodichloromethane	05-MAY-95 16:05	0.13	ND			5
1,2-Dichloropropane	05-MAY-95 16:05	0.13	ND			5
cis-1,3-Dichloropropene	05-MAY-95 16:05	0.11	ND			5
Trichloroethene	05-MAY-95 16:05	0.19	ND			5
Benzene	05-MAY-95 16:05	0.13	3.4	J		5
Dibromochloromethane	05-MAY-95 16:05	0.06	ND			5
1,1,2-Trichloroethane	05-MAY-95 16:05	0.20	ND			5
trans-1,3-Dichloropropene	05-MAY-95 16:05	0.10	ND			5
2-Chloroethylvinyl Ether	05-MAY-95 16:05	0.15	ND			10
Bromoform	05-MAY-95 16:05	0.11	ND			5
Dibromomethane	05-MAY-95 16:05	0.14	ND			5
trans-1,4-Dichloro-2-Butene	05-MAY-95 16:05	0.39	ND			5
4-Methyl-2-Pentanone	05-MAY-95 16:05	0.10	1.7	J		50
1,2,3-Trichloropropane	05-MAY-95 16:05	0.31	ND			5
2-Hexanone	05-MAY-95 16:05	0.26	7.5	J		50
1,1,2,2-Tetrachloroethane	05-MAY-95 16:05	0.14	ND			5
Tetrachloroethene	05-MAY-95 16:05	0.17	ND			5
Ethyl Methacrylate	05-MAY-95 16:05	0.28	ND			5
Toluene	05-MAY-95 16:05	0.15	19.			5
Chlorobenzene	05-MAY-95 16:05	0.14	ND			5
Ethylbenzene	05-MAY-95 16:05	0.19	12.			5

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S9541114

Client Name.....: REECO

Date Printed.....: 12-MAY-95 12:54
DCL Sample Name....: EO 3529

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Styrene	05-MAY-95 16:05	0.11	ND			5
Total Xylene	05-MAY-95 16:05	0.37	96.			5
1,2-Dichloroethane-D4	05-MAY-95 16:05		47.			
Toluene-D8	05-MAY-95 16:05		50.			
Bromofluorobenzene	05-MAY-95 16:05		50.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	47.1	50.0	94.2
bromofluorobenzene	50.3	50.0	101.
toluene-d8	50.2	50.0	100.

FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET

59541115

Client Name..... REECO
Client Ref Number..... Not Provided
Sampling Site..... A-9
Release Number..... Not Provided

Date Received..... 01-MAY-95 00:00
DCL Client Group..... S95-0418-JJ

Date Printed..... 12-MAY-95 13:37
Client Sample Name: 592-296/318
DCL Sample Name.... EO 3530

Matrix..... FUEL
Date Sampled..... 26-APR-95 00:00
Reporting Units.... UG/L
Report Basis..... ☐ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared..... 03-APR-95 00:00
Preparation Method.... Not Applicable
Aliquot Weight/Volume: 1.0 mL
Net Weight/Volume..... Not Required

DCL Analysis Group: G954C00R
Analysis Method.... EPA 8240
Instrument Type.... GC/MS
Instrument ID..... 5972-0
Column Type..... DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Chloromethane	05-MAY-95 16:40	0.24	ND		5	10
Bromomethane	05-MAY-95 16:40	0.17	ND		5	10
Vinyl Chloride	05-MAY-95 16:40	0.22	ND		5	10
Chloroethane	05-MAY-95 16:40	0.28	ND		5	10
Methylene Chloride	05-MAY-95 16:40	0.17	ND		5	5
Acetone	05-MAY-95 16:40	3.75	31.	J	5	100
Carbon Disulfide	05-MAY-95 16:40	0.31	ND		5	5
Trichlorofluoromethane	05-MAY-95 16:40	0.41	ND		5	5
1,1-Dichloroethane	05-MAY-95 16:40	0.17	ND		5	5
1,1-Dichloroethene	05-MAY-95 16:40	0.40	ND		5	5
total-1,2-Dichloroethene	05-MAY-95 16:40	0.27	ND		5	5
Chloroform	05-MAY-95 16:40	0.14	ND		5	5
1,2-Dichloroethane	05-MAY-95 16:40	0.13	ND		5	5
Iodomethane	05-MAY-95 16:40	0.13	ND		5	5
Acrolein	05-MAY-95 16:40	6.32	ND		5	20
Acrylonitrile	05-MAY-95 16:40	0.66	ND		5	20
2-Butanone	05-MAY-95 16:40	2.48	ND		5	100
1,1,1-Trichloroethane	05-MAY-95 16:40	0.23	ND		5	5
Carbon Tetrachloride	05-MAY-95 16:40	0.28	ND		5	5
Vinyl Acetate	05-MAY-95 16:40	0.37	ND		5	5
Bromodichloromethane	05-MAY-95 16:40	0.13	ND		5	5
1,2-Dichloropropane	05-MAY-95 16:40	0.13	ND		5	5
cis-1,3-Dichloropropene	05-MAY-95 16:40	0.11	ND		5	5
Trichloroethene	05-MAY-95 16:40	0.19	ND		5	5
Benzene	05-MAY-95 16:40	0.13	ND		5	5
Dibromochloromethane	05-MAY-95 16:40	0.06	ND		5	5
1,1,2-Trichloroethane	05-MAY-95 16:40	0.20	ND		5	5
trans-1,3-Dichloropropene	05-MAY-95 16:40	0.10	ND		5	5
2-Chloroethylvinyl Ether	05-MAY-95 16:40	0.15	ND		5	10
Bromoform	05-MAY-95 16:40	0.11	ND		5	5
Dibromomethane	05-MAY-95 16:40	0.14	ND		5	5
trans-1,4-Dichloro-2-Butene	05-MAY-95 16:40	0.39	ND		5	5
4-Methyl-2-Pentanone	05-MAY-95 16:40	0.10	ND		5	50
1,2,3-Trichloropropane	05-MAY-95 16:40	0.31	ND		5	5
2-Hexanone	05-MAY-95 16:40	0.26	ND		5	50
1,1,2,2-Tetrachloroethane	05-MAY-95 16:40	0.14	ND		5	5
Tetrachloroethene	05-MAY-95 16:40	0.17	ND		5	5
Ethyl Methacrylate	05-MAY-95 16:40	0.28	ND		5	5
Toluene	05-MAY-95 16:40	0.15	14.	J	5	5
Chlorobenzene	05-MAY-95 16:40	0.14	ND		5	5
Ethylbenzene	05-MAY-95 16:40	0.19	31.		5	5

FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET

Client Name.....: REECO

Date Printed.....: 12-MAY-95 13:37

DCL Sample Name....: EO 3530

Analytical Results

Analyte	Date Analyzed	MDL	Result	Flag	Dilution	CRDL
Styrene	05-MAY-95 16:40	0.11	ND		5	5
Total Xylene	05-MAY-95 16:40	0.37	330		5	5
1,2-Dichloroethane-D4	05-MAY-95 16:40		47.			
Toluene-D8	05-MAY-95 16:40		50.			
Bromofluorobenzene	05-MAY-95 16:40		50.			

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
1,2-dichloroethane-d4	46.9	50.0	93.8
bromofluorobenzene	49.7	50.0	99.3
toluene-d8	50.2	50.0	100.

Sample Comments

MDL and CRDL values must be multiplied by the dilution factor.

FORM B (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

Form RLIMS63B-V1.0
05129512540855

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S954C03V

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....: UG/L

LCS Source.....:

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable

Date Printed.....: 12-MAY-95 12:54

DCL Sample Name....: QC-55714-1

DCL Analysis Group: G954C90R

Analysis Method....: EPA 8240

Instrument Type....: GC/MS

Instrument ID.....: 5972-0

Column Type.....: DB 624

☒ Primary

☐ Confirmation

- Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 10:28	50.0	48.6	97.1	66.5/127.	
benzene	05-MAY-95 10:28	50.0	48.8	97.7	75.9/117.	
chlorobenzene	05-MAY-95 10:28	50.0	49.0	97.9	79.1/119.	
toluene	05-MAY-95 10:28	50.0	49.3	98.7	78.4/119.	
trichloroethene	05-MAY-95 10:28	50.0	46.1	92.2	74.1/112.	

022

FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

Form RLIMS63C-V1.0
0512951254085
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S954C03S

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....:

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

Date Printed.....: 12-MAY-95 12:54
DCL Sample Name....: BL-55714-1

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	Result	CRDL
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FORM C (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
BLANK SAMPLE

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Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....:

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable

Date Printed.....: 12-MAY-95 12:54
DCL Sample Name....: BL-55714-2

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624

☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	Result	CRDL
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024

FORM F (TYPE I)
SINGLE METHOD ANALYSES
QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

Form RLIMS63F-V1.0
0512951254085

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S9541105

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: OIL
Reporting Units.....: UG/L

Date Printed.....: 12-MAY-95 12:54
DCL Sample Name....: EO 3532MS

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8260
Instrument Type....: GC/MS
Instrument ID.....:
Column Type.....: Not Applicable

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 18:40	ND	48.2	50.0	96.3	64.8/122.	
benzene	05-MAY-95 18:40	ND	52.5	50.0	105.	79.2/111.	
chlorobenzene	05-MAY-95 18:40	ND	53.0	50.0	106.	78.0/117.	
toluene	05-MAY-95 18:40	ND	52.1	50.0	104.	78.6/117.	
trichloroethene	05-MAY-95 18:40	ND	48.4	50.0	96.8	74.9/107.

S9541106

DCL Sample Name....: EO 3532MSD

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 19:10	46.1	92.1	47.1	2.11	4.5	0.000/17.1	
benzene	05-MAY-95 19:10	49.9	99.8	51.2	2.63	5.1	0.000/13.3	
chlorobenzene	05-MAY-95 19:10	51.0	102.	52.0	2.06	4.0	0.000/15.5	
toluene	05-MAY-95 19:10	49.4	98.8	50.8	2.73	5.4	0.000/15.7	
trichloroethene	05-MAY-95 19:10	45.3	90.7	46.9	3.06	6.5	0.000/13.7	

025

FORM F (TYPE I)
SINGLE METHOD ANALYSES
QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE

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05129512540855
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S954C03W

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....: UG/L

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable

Date Printed.....: 12-MAY-95 12:54
DCL Sample Name....: EO 3526MS

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240
Instrument Type....: GC/MS
Instrument ID.....: 5972-0
Column Type.....: DB 624
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 17:40	ND	50.9	50.0	102.	64.8/122.	
benzene	05-MAY-95 17:40	ND	52.6	50.0	105.	79.2/111.	
chlorobenzene	05-MAY-95 17:40	ND	53.9	50.0	108.	78.0/117.	
toluene	05-MAY-95 17:40	ND	53.7	50.0	107.	78.6/117.	
trichloroethene	05-MAY-95 17:40	ND	49.7	50.0	99.4	74.9/107.

S954C03X

DCL Sample Name....: EO 3526MSD

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
1,1-dichloroethene	05-MAY-95 18:10	46.5	93.1	48.7	4.34	8.9	0.000/17.1	
benzene	05-MAY-95 18:10	49.4	98.7	51.0	3.27	6.4	0.000/13.3	
chlorobenzene	05-MAY-95 18:10	50.5	101.	52.2	3.43	6.6	0.000/15.5	
toluene	05-MAY-95 18:10	49.9	99.8	51.8	3.78	7.3	0.000/15.7	
trichloroethene	05-MAY-95 18:10	46.4	92.8	48.0	3.31	6.9	0.000/13.7

FORM G (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
SURROGATE SUMMARY

Form RLIMS63G-V1.0
05129512540855
Page 25

G954C00R

Client Name.....: REECO
Release Number.....: Not Provided

Matrix.....: FUEL
Reporting Units.....: UG/L

Date Printed.....: 12-MAY-95 12:54

DCL Analysis Group: G954C00R
Analysis Method....: EPA 8240

DCL Prep Group.....: Not Applicable
Preparation Method: Not Applicable

Surrogate Recoveries

Surr. ID	1,2-dichloroethane-d4			bromofluorobenzene			toluene-d8		
QC Limits	81.8/110.			87.2/114.			95.5/108.		
DCL Sample Number	Analyte Result	Spiked Amount	% Rec. Q	Analyte Result	Spiked Amount	% Rec. Q	Analyte Result	Spiked Amount	% Rec. Q
BL-55714-1	47.8	50.0	95.7	50.4	50.0	101.	49.7	50.0	99.4
BL-55714-2	47.8	50.0	95.5	49.9	50.0	99.7	49.3	50.0	98.5
EO 3526	46.2	50.0	92.4	50.6	50.0	101.	49.7	50.0	99.5
EO 3526MS	47.1	50.0	94.2	50.8	50.0	102.	49.9	50.0	99.9
EO 3526MSD	47.7	50.0	95.4	51.3	50.0	103.	50.1	50.0	100.
EO 3527	45.4	50.0	90.8	48.7	50.0	97.3	49.8	50.0	99.6
EO 3528	47.3	50.0	94.6	50.1	50.0	100.	49.9	50.0	99.7
EO 3529	47.1	50.0	94.2	50.3	50.0	101.	50.2	50.0	100.
EO 3530	46.9	50.0	93.8	49.7	50.0	99.3	50.2	50.0	100.
EO 3532	49.5	50.0	98.9	51.1	50.0	102.	49.2	50.0	98.4
EO 3532MS	48.5	50.0	97.0	51.0	50.0	102.	49.5	50.0	99.1
EO 3532MSD	47.9	50.0	95.7	51.5	50.0	103.	49.8	50.0	99.6
EO 3533	49.0	50.0	98.0	50.2	50.0	100.	50.0	50.0	100.
QC-55714-1	45.8	50.0	91.6	50.2	50.0	100.	50.3	50.0	101.

SUPPORTING DATA

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-04-029

CLIENT: ERTD - JERRY BONN

LABORATORY: DATACHEM

DATE REVIEWED: 5-16-95

REVIEWED BY:

VOA:

MATRIX: FUEL

ARE VOA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	BFB	3-6-95/0903	YES
	BFB	5-5-95/0900	YES
	BFB	5-9-95/0922	YES
2. CALIBRATION	INITIAL	3-6-95	YES
	VSTD050	5-5-95/1002	YES
	VSTD050	5-9-95/1019	YES
3. METHOD BLANK	BL-55714-1	5-5-95/0956	YES
	BL-55714-2	5-9-95/1020	YES
	QC-55714-1	5-5-95/1028	YES
4. TRIP BLANK	95EV00425-1TB	5-05-95/1058	YES
5. SAMPLES	592-210	5-05-95/1504	YES
	592-210MS	5-05-95/1740	YES
	592-210MSD	5-05-95/1810	YES
	592-208/209	5-09-95/1532	YES
	592-207	5-05-95/1534	YES
	592-292	5-05-95/1605	YES
	592-296/318	5-05-95/1640	YES
6. SURROGATE RECOVERY ACCEPTABLE:	YES		
7. MS/MSD RECOVERY ACCEPTABLE:	YES		
8. METHOD BLANK ACCEPTABLE:	YES		
9. HOLDING TIMES ACCEPTABLE:	YES		

		#DAYS	ACCEPTABLE
a. Date Sampled:	4-26-95	0	0
b. Date ACS Received:	4-26-95	0	YES
c. Date Contract Lab Received:	5-1-95	4	YES
d. Date Extracted:	N/A	N/A	N/A
e. Date Analyzed	5-5-95	9	14
10. Correct Conc units used:	YES		
11. CALCULATIONS ACCEPTABLE:	YES		
12. IS AREAS ACCEPTABLE:	YES		
13. RRT IS ACCEPTABLE:	YES		
14. FORMS ACCEPTABLE:	YES		
15. Chain-of-Custody agrees:	YES		

COMMENTS:

EFRE-2258 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-05-029

CLIENT: ERTD - JERRY BONN

LABORATORY: DATA CHEM

DATE REVIEWED: 06-13-95

REVIEWED BY:

TPH (GASOLINE/DIESEL/OIL):

MATRIX: OIL

ARE TPH DATA ACCEPTABLE: YES

ARE CRITERIA MET

1. QC SAMPLES ACCEPTABLE	<u>YES</u>
2. MATRIX SPIKE ACCEPTABLE	<u>YES</u>
3. METHOD BLANK ACCEPTABLE	<u>YES</u>
4. HOLDING TIMES ACCEPTABLE	<u>YES</u>

		<u># DAYS</u>	<u>ACCEPTABLE</u>
a. Date Sampled:	<u>04-26-95</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>04-26-95</u>	<u>0</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>05-01-95</u>	<u>5</u>	<u>YES</u>
d. Date Extracted:	<u>05-03-95</u>	<u>7</u>	<u>14</u>
e. Date Analyzed:	<u>05-12-95</u>	<u>9</u>	<u>40</u>

5. CALCULATIONS ACCEPTABLE:	<u>YES</u>
6. Correct conc. units used:	<u>YES</u>
7. FORMS ACCEPTABLE:	<u>YES</u>
8. Chain-of-Custody Agrees:	<u>YES</u>

COMMENTS: _____

EFRE-2261 (03/93)

JOB #:

TODAY'S DATE:

4-26-95

REYNOLDS ELECTRICAL AND ENGINEERING CO., INC.

SMS LABORATORY REQUEST

AND CHAIN OF CUSTODY

REV 10/4/94

ASD/Sample Management Section

INSTRUCTIONS ON BACK

PAGE 4 OF 7

PROJECT INFORMATION		REPORT INFORMATION		LAB USE ONLY	
WORK ORDER <u>3754-032</u> PROJECT MANAGER <u>DAVE MADSEN</u> PHONE <u>523-1115</u> MAIL STOP <u>969</u> LOCATION <u>Area 9-VIOL</u>		DATE DUE <u>Normal</u> PRELIMINARY REPORT: _____ QC REQUIREMENTS: _____ COPY TO: <u>JERRY BORN</u> PROJECT MANAGER: _____		SDG #: _____ Packet #: <u>95-04-029</u> REMARKS: _____ _____ _____ _____ _____ PROJ NO <u>720</u> EVENT <u>720</u> SAMPLER INITIALS: <u>SAB</u>	

FIELD SAMPLE ID	V O A	B N A	M E T A L S	T P H	T V C A L P	B N A	M E T A L S	P H	C H L O R	F L A S H	P C B	OTHER	R A M D A	G R E S A S	B A L P H A	H 3	P U	G P P	OTHER	MATRIX	DATE/TIME COLLECTED	REMARKS (PRESERVATIVE, SAMPLE SIZE, SPECIAL ANALYSIS, COUNT TIME, ETC.)
592-210	X	X	X	X						X	X									Fuel (Einsate)	4-26-95/0920	TPH - fuel metals as PCRA
592-208/209																				Fuel (Einsate)	4-26-95/0950	
592-207																				Fuel (Einsate)	4-26-95/1040	
592-292	X			X																Fuel (Einsate)	4-26-95/1055	TPH - Diesel
592-294/313	X		X	X																Jet Fuel	4-26-95/1115	TPH - JFS; METALS as PCRA
529-209			X																	Water	4-26-95/1205	Metals as PCRA TPH Blank w/3754-032
																						TPH Blank w/3754-032

SAMPLED/INQUIRED BY: <u>[Signature]</u> <u>[Signature]</u> <u>CD Cantaneda</u>	RAD ONLY	DATE/TIME: <u>4-26-95/1410</u>	RECEIVED BY: <u>CD Cantaneda</u>	RAD ONLY
		<u>4-26-95/1410</u>	<u>CD Cantaneda</u>	
		<u>4/27/95 @ 1200</u>	<u>Federal Express</u>	
		<u>5-1-95 1000</u>	<u>Mark Winderhall</u>	

4-26-95 CLEAR, WIND 0-5 mph, ~65°F

0900 ARRIVE @ UIC LAGOON TO SAMPLE DRAIN RESIDUALS
STORED AT UPPER PAD AREA.

0930: SAMPLED DRAIN 592-210 "F494 VST RIN" 25 GALLONS
OF CLEAR RINSEWATER. SHEEN NOTED. ANALYZED FOR TPH (LIQ);
VOCs, BNA, TOTAL METALS, PCBs, FLASH POINT. Sample ID "592-210".

0950: COLLECTED COMPOSITE SAMPLES OF DRAINS 592-208 &
592-209, SAMPLE ID. 592-208/209. RINSE FROM
26-2102-1; 26-2205-1; 25-3102-4; 25-3101-1. SAMPLES
COLLECTED FOR TPH (LIQ); VOCs, BNA, TOTAL METALS, PCBs,
FLASH POINT. DRAINS CONTAIN ~35 & 45 GALLONS OF DK
BROWN OILY WATER/TANK RESIDUAL RESPECTIVELY.

1040: COLLECTED SAMPLE FROM 592-207 I.D. "592-207". PUMLED
RAINWATER LT BROWN TO CLEAR ~30 GALLONS. SAMPLES
COLLECTED FOR TPH (LIQ); VOCs, BNA, PCBs, TOTAL METALS
& FLASH POINT.

1055: COLLECTED 592-292 "RINSE FROM 25-3123-1 LT BROWN
CLOUDY WATER WITH SOME OIL ON TOP. SAMPLES COLLECTED
FOR TPH (DIESEL) & VOCs

1115: COLLECTED COMPOSITE SAMPLE FROM DRAINS 592-296
& 592-318. CONTENTS WERE DRAIN RINSEWATER FROM
SPS STORAGE DRAINS. CONTENTS WERE CLEAR WATER
WITH PRODUCT ON SURFACE. EACH DRAIN CONTAINS ~30-35
GALLONS & SAMPLES WERE COLLECTED FOR TPH-SPS, VOCs, &
TOTAL METALS. DRAIN I.D. 592-296/318.

- ALL SAMPLES WERE COLLECTED USING A COLLASSA (ONE FOR EACH
SAMPLE). SAMPLES WERE PLACED INTO CLEAN LABORATORY CONTAINERS
GLASS CONTAINERS.

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

TITLE

PROJECT

7

Work continued from Page

BOOK NO.

1300 RETURN TO MERCURY - PREPARE CHAIN OF CUSTODY FOR
SAMPLES SUBMITTER TO ASD.

- REMAINING DRUMS TO BE SAMPLED EARLY NEXT
WEEK (Wk of 5/12).

5

10

15

20

25

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 Made in USA

Work continued to Page

SIGNATURE		DATE	
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

APPENDIX C

FIELD NOTES

From Page No. _____

7-14-94

9:30 ARRIVE @ UST 25-3123-1. BACKHILL EXPOSING TANK. AUGER & HOOPER (LABORERS) ALSO AT SITE. SOILS REMOVED ARE SAND, SILTY SAND, GRAVELLY SAND, FINE TO COARSE GRAVEL W/ GIBBLE TO 1/2" DIAM. ASPHALT ~ 3-4" THICK. NO HYDROCARBON ODORS NOTED AT THIS TIME. MINOR SOIL STAINING BEHIND FILL PUMP AREA.

10:40 MAJORITY OF TANK EXPOSED ON TOP & SIDES. NO ODORS NOTED & NO SIDEWALL STAINING. MINOR RUST NOTED. SOIL 2 LINES ~ 1" DIAMETER BUNKER EXPOSED BY HOLE (FILL & RETURN LINE?). TANK CAPACITY ESTIMATED @ 2,500 GALLONS.

11:45 MILIPSTATE AT SITE REVIEW TANK EXCAVATION PROGRESS. ANDERSON STATES THE SAMPLING OF THESE TANKS NEXT TUESDAY. MIKE PREVIOUSLY MET W/ LER O2 METER.

EQUIP. OPER. GETS BACKHILL BACKHILL DELIVERY - CHANGE OUT BACKHILL. M. LIPSTATE UFGS. AT 11:55

12:00 REVIEWED 25-3102-4 TANK EXCAVATION. NORTHERN TANK TOP EXPOSED & 22" MAXIMUM RUST. TANK & MAXIMUM RUST APPEAR VERT RUSTING. MINOR SOIL STAINING AROUND RISER. LEL & O2 O.K. CROWN PLASTICS FOR LIFT

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

Recorded by _____

From Page No. _____

12:30 Return from lunch. Continue on 25-3123-1 w/ BACKHOE
Hand large container on 25-3102-4.

1:30 PM Finish exposing 25-3123-1. Dig to Tank Bottom - 9' BGS.
APPROX Tank Dimensions 5' W X 6' L. Top of Tank ~ 5' BGS.
TANK EXCAVATION FINISH OFF & STOCKPILE COARSE
Below BACKHOE EXCAVATION OF 25-3102-4.

APPROX. TANK EXCAVATION 10' X 10'.

14:35 EXPOSING 25-³¹⁰²~~3102~~-4. TANK APPEARS TO BE ~ 560 GAL
VERY CLOSE TO FENCE LINE OF SUBSTATION, WILL NEED TO
ADDRESS SUPPORTING OF SUBSTATION FENCE PRIOR TO PULLING TANK.

- EXPOSED PORTION OF TANK APPEARS RUSTED; SLIGHT FUEL OIL LEAK NOTICED

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

Recorded by _____

7/14/94

Date _____

11/21/64

Recorded by

To Page No.

From Page No. —

~~1440 Sec 250 25301-1 TRAIL EXCAVATION WILL MOVE TO 25-329-1~~

Hand & footed Red Dye 70 WARDEN GREEN / WICK FARM 5 / 10000

15:00 Leaving Site 1.5 at 25-3101-1

~~15.30 Leave Site - Winkles Lill. 50mE from Dike #6 Road. ZC 31.2.84~~

Washco Dept to Talk Broom. (10' 10/2" of Pavers 15mm)

16/10 Transfer to Malaysia
Anwarul Haq
3127 Sube MS 3123

Scir
TPH-Discu

TPH-D, 23a } Consistent from 2 inlets

- No Difficulties

- Lowest / max spike for Bank

12:00 Arrived @ 15-3129-1 - Thank Express. Front noted on Streets

But overall, Mark Ingram's Apples Corp. 2015 consists of

~~Chamberlain School, 51 City School, George Avenue & Cobble to 8th Ave.~~

Also check notes, no significant findings. GAST found at

THANK STILL BONE EXCAVATION (EXPOSURE)

From Page No. _____

12:20 NITROGEN TRUCK 3101 TANK

12:25 SPOKE TO M. LIPSON ASKED IF I COULD MANITRE (ER) W/ NITROGEN TRUCK. HE HAS TO LEAVE BUT WILL RETURN LATER.

NITROGEN WILL BE PUMPED INTO TANK 3101 FIRST

13:00 TANK 25-3101-1 INJECTED W/ NITROGEN TO 5% O_2 13:25 TANK 25-3102-4 INJECTED W/ NITROGEN TO 5% O_2 13:50 TANK 25-3123 INJECTED W/ NITROGEN TO 6% O_2 14:21 TANK 25-3124-1 INJECTED W/ NITROGEN TO 7% O_2

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Witnessed & Understood by me,

Date

Invented by

Date

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7/20/94

8:30 Arrive @ A25 CP Contained Crane Set up on US-253129-1.
 M.LIPSTATE VERIFIED O₂ & LEL (7% O₂, 0% LEL)
 SPEC WORKERS Hook up to tank
 Difficult to Remove Tank Due to 2" LINE ACROSS EXHAUSTION

8:50 Tank Removal ~~was~~ Rust noted on tank BUT NOT SIGNIFICANT
 NO HOLES NOTED NO DIVES NOTED. Tank Dimensions 6'x6'x9'

9:15 Tank # Painted, Tank Gen Tagged BY RANSAFE
 WITH PASPASS TO COLLECT SOIL SAMPLES

9:25 Collecting Soil/Pit Samples from 3129 Stick Pile
 Samples Compositions from 2 Locations & Analyzed for
 TPH-Distill & Chlorine. ITH VERIFIED O₂ 9.1% TANDED < 7%
 NOTE: RANSAFE "GREEN TAGGED" TANKS. PRIOR TO HAVING.

9:30 Backhoe Bucket Strain cleaned - Collection 25-3129-1/E @ 10.5' BGS

9:37 Last Sample Collected @ 10'

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Witnessed & Understood by me,

Date

Invented by

Date

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TITLE

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45

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9:47 DECON BUCKET IN PREPARATION OF 25-3123-1/S SAMPLE SAMPLE
DEPTH FROM 10.5' SOIL AT EXCAVATION BOTTOM GRAVELLY SAND
9:51 SAMPLE COLLECTED

10:10 UST 25-3123-1 REMOVED, TANK RUSTY NOTED. ~~NO~~ NO
HOLES NOTED TANK NUMBER PAINTED ON TANK TANK INTEGRITY GOOD
DECON (NDEP) ON SITE, WITNESSES DECON DRAIN DROPPED
WHILE BACKHOLE BROUGHT TO FRONT, MOST OF SPILLAGE ON
ASPHALT & CAUGHT BY SAND BAGS WITH SAFETY NET INSIDE
DIRT & SAND BAGS INTO STOCKPILE ~10 GALLONS SPILLED

10:20 - COLLECTING SAMPLE FROM 25-3123-1 STOCKPILE

10:22 TANK 25-3101-1 BEING PULLED ODOOR NOTED UST TANK REMOVED
NDEP REQUESTED THAT N.E.S. SIDEWALK SAMPLES BE COLLECTED
TANK PULSED - NO HOLES VISIBLE - TANK INTEGRITY MARGINAL

10:37 PREPARING TO DECON BUCKET TO SAMPLE 25-3123-1/S SAMPLE
SAMPLE DEPTH @ ~10.0'

[Signature]

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Witnessed & Understood by me,

Date

Invented by

Date

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11:09 SAMPLE 3123/N B.S.W. COLLECTED @ ~10' BGS
POLLER 25-3102-4 EAST WALL INTACT. HYDROCARBONS
ODORS NOTED. WILL COLLECT N.E.S. TANK BOTTOM
SAMPLES AS CONFIRMED BY NDEP

11.50 South Sample collected BUCKLE PLEASANT
USED SEPARATE DISC DRUM FOR THIS SAMPLE
DUE TO UNKNOWN

12:00 No net sample collected bucket DECONT.

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12:21 Collect 25-3101-1 - W @ 9.5' Decon Bucket

12:37 " 25-3101-1 - E @ 9.5' Decon Bucket

12:45 Collect S LAM SAMPLE ~3' BGS

" N LAM " ~3' BGS w/ PLASTIC SCOOP

13:00 NDEP off SITE

Collected Soil Stockpile Samples from N & S
End of Stockpile 25-3101-1

13:05 Crew Breaks for Lunch

13:30 Begin to Secure Kettle & Take Drum Samples & Preserve
Bottle capsNOTE: HEADSPACE from samples measured by piercing soil
in baggy & allow to volatilize. HEADSPACE MEASURED
w/ HNU.A25RCP ~206m
Decon Rinse
BRADIE
#592-164Will collect Rinsate Samples from Bucket Decon
1 Drum from UST's 3129, 3101, & 3123 will
Analyze for TPH Diesel, TCLP metals, SemiVocs3102 ~76m
Decon Rinse
BRADIE
#592-165Rinsate
1 Drum Collected from 3102 will BE ANALYZED
for TPH-fuel scan, TCLP metals, Lead Pb, PCBs,
VOC's - Semi VOCs, PH. Samples will BE put
on Hand Pending Confirmation for Complete Parameter
to be RunONLY ~2 GM
Left After
Sampling

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

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~ 22 cys BRADIE # 592-166 for 25-3102-4 Stock Pile
 ~ 25 " " " 592-167 " 25-3101-1 "
 ~ 40 " " " 592-168 " 25-3123-1 "
 ~ 33 cys " " 592-169 " 25-3129-1 "

15:50 Completed BRADIE LABELING. SAMPLES COMPLETED
 SAMPLES WESITE. DST EXCAVATIONS ARE SCENES
 & STOCK PILE COVERED. PEA GRAVEL WAS PLACED
 INTO 3102-4 & 3101-1 DUE TO POSITION
 CAUSE IN & SAFETY CONCERNS

16:00 OFFICE LABORERS W/ CONTINUE TO SCENE AREA
 & LOCK UP FACILITY

17:00 VERIFICATION W/ DAVE MADSEN THAT DRUMS SHOULD NOT HAVE
 BEEN SAMPLED. THEY WILL BE TAKEN TO LOC TO
 CONTAIN TANK EVIDENCE. NOTIFIED LABS & WILL PICK
 UP SAMPLES IN A.M. TO RETURN TO DRUMS

17:15 Completed TIME SHEET & WEBSITE REPORT

[Signature] 1.20.94

To Page No. _____

Witnessed & Understood by me,

Date

Invented by

Date

Witne

TITLE _____

From Page No. _____

7/21/94

9:00 ARRIVE @ A75 CP. HOOPER STATED THAT ONE CREW WILL BE IN COMPANY EXCAVATION FENCES & COORDINATING FOR CONCRETE & ASPHALT DISPOSAL. SECOND CREW WILL BE EXCAVATING TANKS IN A26 AND @ R-MAN (A25).

I REVIEWED RADIATION SAMPLES TO APPROPRIATE DRUMS IN COMPANY DRUMS WILL BE TRANSPORTED TO 105 TO CONTAIN TANK FENCING NEXT WEEK. ONCE TANKS ARE PULSED SAMPLES WILL BE COLLECTED FOR ANALYSIS.

CHECKED IN W/LABOR CREW IN C.P. THEY WILL FINISH SECURING AREA & WAIT FOR DEBRIS DISPOSAL.

WENT TO AREA 26 - CONCRETE BROKEN UP OVER TANKS. ~~POWER~~ POWER WIRES WILL NEED TO BE PROVIDED TO ALLOW ACCESS FOR EQUIPMENT EXCAVATIONS. MAY ALSO HAVE TO BE EXTENDED TO ALLOW TANKS TO BE PULLED CLEAR OF POWER SUPPLY AREAS.

~ 10:40 TOP LOADER TRUCK ARRIVED @ A26. LABORERS WILL TAKE LOADER TRUCK TO A25 CP TO LOAD UP DEBRIS. HOOPER ASKED IF GREEN TAG WOULD BE NECESSARY. I SAID I WILL NEED TO CHECK W/D. MASON.

13:00 HOOPER CALLED FROM A25. I TOLD HIM GREEN TAG WOULD BE REQUIRED & THAT THE TRUCK COULD GO THROUGH AREA 6 FOR TAG. HOOPER SAID HE WOULD RELAY MESSAGE & ASKED IF I COULD SCHEDULE PADS CASE MANDAT MORNING FOR A26 DEBRIS. CALLED PATRICK - COULD NOT SET UP DISGNITE SCHEDULE FOR MANDAT BECAUSE KAREN PATTIN WAS OUT BUT SET UP TENTATIVE FOR 8:30 A.M.

NOTE: TOLD HOOPER THAT ANY EXCAVATION WORK DONE TODAY WILL NEED TO BE PROTECTED FROM UTILITY INTRUSION.

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

7/1/1

Project No. _____

Book No. _____

TITLE _____

From Page No. _____

TUESDAY

10-18-94

0825 ARRIVE @ H25RCP AWAITING G. HANSEN. CONFERENCE SUBSOLUS W/ LABS/RES
TO ARRIVE AFTER SAFETY MEETING

0840 BACKLOG ARRIVE

0900 JAN ASD ARRIVE

0930 OBTAINED KEY FROM CHRIS (CNC?) ELEM. SUPERVISOR - SINCE HANSEN HADN'T SIGNED AT
SITE

1000 BEGIN GRAVEL REMOVAL FROM 25-3101-1 UST. LABS/RES STILL NOT IN SITE.
STEAM CLEANING (TUESDAY) AT SITE

1030 NIEL CAMPBELL @ SITE - COORDINATING ACTIVITIES FOR THIS WEEK & POTENTIALLY
NEXT WEEK

1130 MOVE TO 25-3102-4 SINCE TIME IS CRITICAL FOR OBTAINING
SAMPLES FOR 48HR PUSH. 25-3101-1 @ ~12' ON EAST END STILL HAS
STEEL H.C. WORK WILL COME BACK TO IT LATER BUT DOESN'T SEEM
CRITICAL FOR 48HR TURNAROUND ADDL ~7 cu yds REMOVED FROM 3102-4

— STEAM CLEANING BUCKET - DUMPED FUEL OIL INTO ALT-3102-4 REMOVED
DRUM BRNOY 592-165 ALREADY ASSIGNED TO DRUM

1130 LABS/RES ARRIVE

1200 LUNCH BEGIN TO 1230

1230 CONTINUE ON 25-3102-4 - NORTH END OF EXCAVATION DEEPENED - NO H.C. OILS OR SUBMERS

1300 DECON BACKLOG BUCKET SAMPLES WILL BE COLLECTED @ NORTH END
OF EXCAVATION @ 10.5' BGL 25-3102-4/12.5' ANA 1230 FOR
8015 M AS DIESEL. BUCKET DUMPED INTO SAME DRUM
BRNOY 592-165

1310 SAMPLES COLLECTED - NO H.C. OILS NOTED SOIL ALSO BROWN, DARK,
SILTY SAND, GRAYISH SAND W/ SILT. VERY HARD DIGGING

1320 MOVE TO 25-3123-1 - WILL EXCAVATE S. END

[NOTE 25-3102-3 STOCKPILING ON SITE ~ 25 cu yds - NEED TO INCLUDE FOR DISPOSAL]

1345 DECON BUCKETS INTO 592-165 DRUM

PREPARE TO COLLECT 25-3123-1/11.5' SAMPLE FOR 8015 M DIESEL
VERY HARD (DIFFICULT DIGGING) ~ 5 ADDL cu yds REMOVED

1355 SAMPLE COLLECTED 25-3123-1/11.5' IN 60 BAG, DARK, GRAYISH SAND; NO H.C. OILS
NOTED OR SUBMERS NOTED

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

TITLE _____

Project No. _____

Book No. _____

117

From Page No. _____

14:35 DEEPEN BUCKET FOR 25-3129-1 @ 12' EAST SIDE OF EXCAVATION

14:50 COVERED 25-3129-1/12/E MICH BENT, DAMP; A.C.H.C. WORK
COASTAL SAND, VERY DIFFICULT TO DIG

15:05 SAND PILE & SPILL CLEANSE OFF SITE 3 SAMPLES FROM TODAY'S ACTIVITIES TURNED IN

16:15 COVER SPILL PILES & SECURE AREA

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

From Pa

: To Page No. _____

Witness

TITLE _____

Project No. _____

Book No. _____

121

From Page No. _____

10/27/94 THURSDAY

0830 meets up w/ crew @ A25C.P. - FIVE DOGS WILL BE STRAY AFTER LUNCH. MUST
 CROW TO A26 26-2205-1 TO BACKHILL A25 PROSAGE: BACKHILL IN HALL
 FINDING HINTS TO GET RESULT OF ADDITIONAL SAMPLES WILL COLLECT
 FIVE DOGS DRUMS FROM ALL SITES & RETURN THEM TO A25C.P. FOR
 PICKUP BY GARDEN TO TAKE TO IDC.

NO GRAVEL @ 2205-1 TO USE FOR BACKHILL. TRUCK MUST HAVE DUMPED
 GRAVEL @ LAST GARDEN FRONT. LONG DRUM (REVISOR) FROM 2205 & WENT
 TO PACE GARDEN TO LONG DRUMS & FENCE.

10:05 8 DRUMS of DEER BUSHES FROM A25 & A26 UST'S READY FOR TRANSPORT
 TO IDC

10:30 EXPOSED DRUM LINE 25-3102-3. LINE DRY BUT NOT GROUNDED
 GROUND LINES (22" O.D.) & REVISOR W/ GRAVEL, PLASTIC & SAND BAGS

13:00 BACKHILL A25 PROSAGE EXCAVATION - REMOVED FENCE & STAKED TRAIL
 LOCATION

13:45 BACKHILL A25 PROSAGE EXCAVATION - REMOVED FENCE & STAKED TRAIL

14:00 FURTHER @ SITES

BEACH #S ON DAM'S 92-164, 165, 172, 175, 178, 181, 171

15:15 MATERIALS & DRUMS LOADED SITE WORK COMPLETE CREW WENT TO
 UNLOAD IN MERCURY

[Signature]
 10/27/94

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

APPENDIX D

SPILL NOTIFICATION REPORT

NV-230
12/91

DOE/NV

DOE Nevada Field Office
SPILL NOTIFICATION REPORT

Sections A, L, and M are to be completed by DOE/NV.

A. REPORTER	1. DOE Staff Member Reporting: <u>Peter Sanders</u>						2. Phone: <u>(702) 295-1037</u>				
	3. Organization Name: <u>DOE Nevada Field Office</u>										
	Organization: ☐ 4. Discharger ☐ 5. Public ☐ 6. State ☐ 7. Local ☒ 8. Federal										
B. DISCHARGER	9. Address: <u>P. O. Box 98518</u>										
	10. City: <u>Las Vegas</u>		11. County: <u>Clark</u>		12. State: <u>NV</u>		13. Zip: <u>89193-8518</u>				
	14. ☐ As above in A if it applies ☐ 15. Private ☐ 16. Public ☐ 17. Local ☐ 18. State ☒ 19. Federal Contractor										
	20. Discharger Name: <u>Reynolds Electrical & Engineering Co., Inc.</u>										
C. INCIDENT LOCATION	21. Address: <u>Post Office Box 98521</u>										
	22. City: <u>Las Vegas</u>		23. County: <u>Clark</u>		24. State: <u>NV</u>		25. Zip: <u>89193-8521</u>				
	26. Person Notifying DOE: <u>Dave Madsen (REECO/ERTOD)</u>						27. Phone: <u>(702) 295-7211</u>				
	28. ☐ As Above in B 29. Street or Approx. Location: <u>Nevada Test Site (Area 25- Bldg. 25-3123)</u>										
D. DATE	30. Township, Range, and Section (or NV coordinates): <u>Approx. N 748.000 and E 815.000</u>										
	31. City: <u>N/A</u>		32. County: <u>Nye</u>		33. State: <u>NV</u>		34. Zip: <u>N/A</u>				
E. MATERIAL	35. Spill Date (mm/dd/yy): <u>Not Determined (see 84)</u>						36. Spill Time: <u>Not Determined (see 84)</u>				
	37. Material: ☐ Unknown ☒ X = Other		38. Material Type: ☐ () H = Hazardous Material ☐ O = Oil		CHRB Code		UN/ DOT No.		CAS No.	Quantity Released	Units (Circle 1)
	Material Type (Name): <u>Diesel</u>						40. <u>ODS</u>		41. <u>3.1/41.1270</u>	42. <u>Not Avail</u>	43. <u>Not Avail</u>
	44. <u>bbl</u> oth						45. ☐				
	46. <u>lbs</u> gal						47. <u>48.</u>		49. <u>50.</u>		
	48. <u>lbs</u> gal						49. <u>50.</u>		51. <u>bbl</u> oth		
F. SOURCE	Source of Spill: ☐ 60. Highway ☐ 61. Air Transport ☐ 62. Railway ☐ 63. Vessel ☒ 64. Pipeline ☐ 65. UST ☐ 66. Fixed Facility ☐ 67. Offshore ☐ 68. Unknown										
	69. Source Description: <u>UST No. 25-3123-1 (abandoned)</u>						70. Vehicle ID or Carrier No.: <u>N/A</u>				
G. MEDIUM	71. Air ☒ 72. Land ☐ 73. Water ☐ 74. Groundwater ☐ 75. Within Facility Only										
	76. Nearest well or reservoir used for drinking purposes: <u>Well J-11, Approx. 1 mile SE of site</u>										
H. CAUSE	Reported Cause: ☐ 77. Transportation Accident ☐ 78. Equipment Failure ☐ 79. Operational Error ☐ 80. Natural Phenomenon ☒ 81. Dumping ☐ 82. Unknown										
	84. Description: <u>UST Number 25-3123-1 was removed on July 20, 1994 under the DOE/NV Environmental Restoration Program Abandoned UST Project (Fiscal Year 1994). Analytical results for soil samples collected approximately 1 to 1.5 feet below the bottom ends of the tank indicate Total Petroleum Hydrocarbon concentrations from less than 10 mg/kg to 120 mg/kg which exceeds the NAC 459.999 through 459.9921 Action Level of 100 mg/kg TPH. The time and date of release is not available (the tank was abandoned)</u>										
I. DAM	Damages: <u>85. No. of Injuries: N/A</u> <u>86. No. of Deaths: N/A</u> ☐ 87. Property Damage: <u>\$50,000</u>										
J. ACTIONS	88. Response Action Taken: <u>Additional Soil sampling is required at the site to evaluate site conditions. The tank was emptied of contents prior to removal. The tank was transported to the NTS U10c Tank Cleaning and Segmentation Pad on July 20, 1994. The excavated soil was placed on and covered with plastic at the site and labelled with NTS "Brady Labels". Analytical results for the excavated soil will be evaluated to determine the appropriate method of disposal.</u>										
K. REPORTER NOTIFICATIONS	89. ☐ Call Notification: Nevada Occurrence Reporting System Operations Center, 295-1422 or 295-1248.										
	90. Person Contacted:						91. Date:				
	92. Case Number:						93. Time:				
	94. ☒ Call Notification: DOE/NV Line Manager.						95. Date: <u>8/25/94</u>				
	96. Person Contacted: <u>J. Appenzeller-Wing</u>						97. Time: <u>0830</u>		98. Phone: <u>(702) 295-0461</u>		
	99. ☐ Call Notification: DOE/NV/Environmental Protection Division, 295-1433.						100. Date: <u>8/25/94</u>				
	101. Person Contacted: <u>P. Sanders</u>						102. Time: <u>0920</u>		103. Phone: <u>(702) 295-1037</u>		
	104. ☒ Call Notification: Nevada Division of Environmental Protection, (702) 687-5572.						105. Date: <u>8/25/94</u>				
	106. Person Contacted: <u>Yana Ling</u>						107. Time: <u>4:50 pm</u>		108. Case Number: <u>NA</u>		
	109. ☒ Call Notification: Nevada Division of Emergency Management, (702) 687-4240.						110. Date: <u>8/25/94</u>				
111. Person Contacted: <u>Fran V. Siracusa</u>						112. Time: <u>4:22 pm</u>		113. Case Number: <u>4940825 D</u>			
114. ☐ Call Notification: National Response Center, (800) 424-8808; when applicable.						115. Date: <u>NA</u>					
116. Person Contacted: <u>NA</u>						117. Time: <u>NA</u>		118. Case Number: <u>NA</u>			
120. Signature: <u>Peter Sanders</u>						119. Date: <u>8/25/94</u>		121. Time:

APPENDIX E

LANDFILL DISPOSAL DOCUMENTATION

SOIL DISPOSAL

AREA 6 HYDROCARBON LANDFILL ACCEPTANCE CHECKLIST

Packet Ident. 1107

1. Package will include the following items:

	Brady # <u>592-166-169</u>		Brady #		Brady #		Brady #	
	YES	NO	YES	NO	YES	NO	YES	NO
b. Characterisation letter	X							
c. Analytical Results	X							
d. Process Knowledge	X							
e. Is the package complete?	X							
f. Basic Description	Diesel UST							

2. SCHEDULE A DATE AND TIME FOR DISPOSAL

a. Date Scheduled: OCT. 25, 1995 C. Load Number 10 Mt 8

b. Brady Numbers: 592-166, 167, 168, 169

Start Date: 10/25/96 End Date: 10/26/96

3. AT THE LANDFILL, THE GENERATOR MUST HAVE:

	YES	NO		
a. Bill of landing	X		WEIGHT TOTAL	<u>424,300</u> lbs.
b. Rad Sticker	✓		WORK ORDER #	<u>3754-032</u>
c. Weight ticket	✓		SUB/ACCT.	FREQ.
d. Work Order Number	X			

4. COMPLETE PACKAGE

	YES	NO
a. Weight entered into database	X	
b. Enter weight for monthly ATV	X	
c. Filed in sequence	X	
d. File in Storage Cabinet	X	

USTs 25-3123-1
 25-3102-4
 25-3129-1
 25-3101-1
 25-3102-3

Signature/Date: [Signature] 10/31/94

DATE: 02/04 NO. A 1822

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: 14116
ORGANIZATION: REEL
SURVEY LOCATION: A25
FROM: A25
TO: UNOC

☒ UNRESTRICTED

- ☐ OFF-SITE
☒ ON-SITE
☐ SALVAGE
☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL
K/

☐ CONTROLLED

DESCRIPTION:

1 LOR HYDROCARBON
CONTAMINATED

802
[Handwritten signature]

REMARKS:

4/1 10-21-94

DATE: 02/04 NO. A 1817

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: 14116
ORGANIZATION: REEL
SURVEY LOCATION: A25
FROM: A25
TO: UNOC

☒ UNRESTRICTED

- ☐ OFF-SITE
☒ ON-SITE
☐ SALVAGE
☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL
K/

☐ CONTROLLED

DESCRIPTION:

1 LOR HYDROCARBON
CONTAMINATED
IN WATER

[Handwritten signature]

REMARKS:

4/1 10-21-94

DATE: 10-21-04 NO. A 1823

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: LADICIG
ORGANIZATION: REEL
SURVEY LOCATION: 105
FROM: 105
TO: UIC

- ☒ UNRESTRICTED
- ☐ OFF-SITE
 - ☒ ON-SITE
 - ☐ SALVAGE
 - ☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL

TH

☐ CONTROLLED

DESCRIPTION:

1 Lot HYDRO CARBON
CONTAMINATED
SOIL

REMARKS:

EXP 10-21-04

DATE: 10-21-04 NO. A 1825

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: LADICIG
ORGANIZATION: REEL
SURVEY LOCATION: 105
FROM: 105
TO: UIC

- ☒ UNRESTRICTED
- ☐ OFF-SITE
 - ☒ ON-SITE
 - ☐ SALVAGE
 - ☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL

TH

☐ CONTROLLED

DESCRIPTION:

1 Lot HYDRO
CARBON
CONTAMINATED
SOIL

REMARKS:

EXP 10-21-04

DATE: 10/24/04 NO. A 1820

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: ADK1162
ORGANIZATION: REEG
SURVEY LOCATION: ADS
FROM: ADS
TO: WICC

☒ UNRESTRICTED

- ☐ OFF-SITE
☒ ON-SITE
☐ SALVAGE
☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL
ad

☐ CONTROLLED

DESCRIPTION:

1 box Hydrocarbon
CONTAMINATED
SOIL

REMARKS: 10/31/04

DATE: 10/24/04 NO. A 1824

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: ADK1162
ORGANIZATION: REEG
SURVEY LOCATION: ADS
FROM: ADS
TO: WICC

☒ UNRESTRICTED

- ☐ OFF-SITE
☒ ON-SITE
☐ SALVAGE
☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL
ad

☐ CONTROLLED

DESCRIPTION:

1 box Hydrocarbon
CONTAMINATED
SOIL

REMARKS: 10/31/04

DATE: 02/04/94 NO. A 1821

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: LAMCUB
ORGANIZATION: Reels
SURVEY LOCATION: A25
FROM: A25
TO: H10C

☒ UNRESTRICTED

- ☐ OFF-SITE
☒ ON-SITE
☐ SALVAGE
☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL

☐ CONTROLLED

DESCRIPTION:

1 Lb HYDRO-
CARBON CONTAM-
INATED
SOIL

REMARKS:

EXP
0.31 CF

DATE: 02/04/94 NO. A 1819

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: LAMCUB
ORGANIZATION: Reels
SURVEY LOCATION: A25
FROM: A25
TO: H10C

☒ UNRESTRICTED

- ☐ OFF-SITE
☒ ON-SITE
☐ SALVAGE
☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL

☐ CONTROLLED

DESCRIPTION:

1 Lb HYDROCARBON
CONTAMINATED SOIL

REMARKS:

EXP 10.31 CF

☆ U.S. GPO: 1994 - 583-986

A-25
LOCATION

Gross
82620
Tare
34140
Net
48480

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521

94169

Commodity _____ Date 10-26-94
From _____ Carrier _____
To Landfill Driver _____
Vehicle License Nos. 81946 34
TRUCK TRAILERS By RH
RE-6200 (12/88) WEIGHER

☆ U.S. GPO: 1994 - 583-986

A-25
LOCATION

Gross
95280
Tare
38260
Net
57020

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521

94170

Commodity _____ Date 10-26-94
From _____ Carrier _____
To Landfill Driver _____
Vehicle License Nos. 84677 495
TRUCK TRAILERS By RH
RE-6200 (12/88) WEIGHER

☆ U.S. GPO: 1994 - 583-986

A-25
LOCATION

Gross
87640
Tare
36300
Net
51340

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521

94178

Commodity _____ Date 10-26-94
From _____ Carrier _____
To Landfill Driver _____
Vehicle License Nos. 81548 75
TRUCK TRAILERS By RH
RE-6200 (12/88) WEIGHER

☆ U.S. GPO: 1994 - 583-986

A-25
LOCATION

Gross
93280
Tare
34140
Net
59140

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521

94154

Commodity _____ Date 10-25-94
From _____ Carrier _____
To Land fill Driver _____
Vehicle License Nos. 81946 35
TRUCK TRAILERS By RH
RE-6200 (12/88) WEIGHER

☆ U.S. GPO: 1994 - 583-986

A-25
LOCATION

Gross
85380
Tare
36300
Net
49080

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521

94161

Commodity _____ Date 10-25-94
From _____ Carrier _____
To Land fill Driver _____
Vehicle License Nos. 81948 35
TRUCK TRAILERS By RH
RE-6200 (12/88) WEIGHER

☆ U.S. GPO: 1994 - 583-986

A-25
LOCATION

Gross
91820
Tare
36300
Net
55520

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521

94153

Commodity _____ Date 10-25-94
From _____ Carrier _____
To Land fill Driver _____
Vehicle License Nos. 81948 35
TRUCK TRAILERS By RH
RE-6200 (12/88) WEIGHER

☆ U.S. GPO: 1994 - 583-986

A-25
LOCATION

Gross
85320
Tare
34140
Net
50180

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521

94162

Commodity _____ Date 10-25-94
From _____ Carrier _____
To Land fill Driver _____
Vehicle License Nos. 81946 34
TRUCK TRAILERS By RH
RE-6200 (12/88) WEIGHER

☆ U.S. GPO: 1994 - 583-986

A-25
LOCATION

Gross
89840
Tare
36300
Net
53540

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521

94168

Commodity _____ Date 10-26-94
From _____ Carrier _____
To Land fill Driver _____
Vehicle License Nos. 81948 35
TRUCK TRAILERS By RH
RE-6200 (12/88) WEIGHER

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL — NOT NEGOTIABLE

Shipper's No. _____

Carrier's Name: _____

Carrier's No. _____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at AREA 25 RCP (Date) 10-25 19 84 FROM J. Bonn LOAD 8
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO Ron Harz (Mail or street address for purposes of notification only.)
 On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.
 Destination AG A.C. LADGE Street _____ City _____
 _____ County _____ State _____ Zip _____
 Route _____ Delivery Address ★ _____
 (*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)
 Delivering Carrier _____ Car or Vehicle Initials and No. _____
 Collect on Delivery \$ _____ And Remit to _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

[Signature]
 (Signature of consignor.)

C. O. D. Charges to be
 Paid by
☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

No Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
1		<u>Hydrocarbon Containers 500 lbs. 2000 lbs.</u>			
		<u>GREEN MC A1825</u>			
		<u>USTS 25-3129-1</u>			
		<u>BRAD 592-169</u>			
		<u>W.O. #3754-032</u>			

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advanced:

\$ _____
 1 "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 6 of the National Motor Freight Classification."

1 Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight.
 NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Shipper, Per _____

Agent _____

Permanent post-office address of shipper, _____

Per _____

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL — NOT NEGOTIABLE

Shipper's No. _____

Carrier's Name: _____

Carrier's No. _____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading.

at Atosa 25 RCP (Date) 10-26 1994 FROM J. Bann Load 7
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO Kan Hanc (Mail or street address for purposes of notification only.)
 On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.
 Destination Atosa 25 RCP Street _____ City _____
 County _____ State _____ Zip _____
 Route _____ Delivery Address ★ _____
 (*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)
 Delivering Carrier _____ Car or Vehicle Initials and No. _____
 Collect on Delivery \$ _____ And Remit to _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

J. Bann
 (Signature of consignor.)

C. O. D. Charges to be
 Paid by
☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
1		Hydrocarbon Carman. nansa Sou - 20m yk			
		Green tag A1824			
		USTI 25-3129-1			
		BRADY 592-169			
		W.O. # 3754-032			

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advanced:

\$ _____
 *The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 6 of the National Motor Freight Classification.

† Shipper's Imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight.
 NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per _____

Agent

Permanent post-office address of shipper.

Per _____

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL — NOT NEGOTIABLE

Shipper's No. _____

Carrier's Name: _____

Carrier's No. _____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading.

at Mesa 25 P.C.P. (Date) 10-26 19 94 FROM J. Burns Long
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO Ken Hume
On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.
 Destination ALB H.C. LAUREL Street _____ City _____
 County _____ State _____ Zip _____
 Route _____ Delivery Address ★ _____
(★ To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)
 Delivering Carrier _____ Car or Vehicle Initials and No. _____
 Collect on Delivery \$ _____ And Remit to _____

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
1		HYDROCARBON CONTAINERS Sec 2200000			
		GREEN TAG A1823			
		USIS 25-3101-1			
		BRAD 582-167			
		W.O. # 3754-032			

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

J. Burns
 (Signature of consignor.)

C. O. D. Charges to be

Paid by

☐ Shipper☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advanced:

1 "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 6 of the National Motor Freight Classification."

1 Shipper's imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight.
 NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per _____

Agent _____

Permanent post-office address of shipper.

Per _____

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL — NOT NEGOTIABLE

Shipper's No. _____

Carrier's Name: _____

Carrier's No. _____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading.

at APR 25 RCP (Date) 10-26 1994 FROM J. B. Co. Line 5
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO Ken Hine (Mail or street address for purposes of notification only.)
 On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.
 Destination A. G. H. Co. London Street _____ City _____
 County _____ State _____ Zip _____
 Route _____ Delivery Address ★ _____
 (* To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)
 Delivering Carrier _____ Car or Vehicle Initials and No. _____
 Collect on Delivery \$ _____ And Remit to _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

J. B. Co.
 (Signature of consignor.)

C. O. D. Charges to be

Paid by
☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
1		Hydrocarbon Condensates Sock - Zebra yoke			
		GREEN TAG A1822			
		USTS 25-31234, 25-3101-1			
		BERRY LAGER 592-168, 592-167			
		U. O. # 5754-032			

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advanced:

\$ _____

1 "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification."

1 Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight.
 NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per _____

Agent _____

Permanent post-office
 address of shipper, _____

Per _____

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL — NOT NEGOTIABLE

Shipper's No. _____

Carrier's Name: _____

Carrier's No. _____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading.

at AGSA 25 RCP (Date) 10-25 1984 FROM J. Bonn 1000 4
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO KEW HOME (Mail or street address for purposes of notification only.)
 On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.
 Destination AG H.C. LINDEN Street _____ City _____
 County _____ State _____ Zip _____
 Route _____ Delivery Address ★ _____
 (*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)
 Delivering Carrier _____ Car or Vehicle Initials and No. _____
 Collect on Delivery \$ _____ And Remit to _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Jerry Bonn
 (Signature of consignor.)

C. O. D. Charges to be
 Paid by
☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
1		HYDROCARBON CONTAMINATED SOLID ~20 cu yds			
		GREEN INC A1821			
		UST'S 25-3102-3, 25-3102-4, 25-3125-1			
		BRAOT # 592-166, 592-168, 592-072			
		W.O. # 3754-032			

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advanced:

\$ _____

*The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification.

† Shipper's imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight.
 NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per _____

Agent

Permanent post-office address of shipper,

Per

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL — NOT NEGOTIABLE

Shipper's No. _____

Carrier's Name: _____

Carrier's No. _____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading.

at Acad 25 RCP (Date) 10-25 1974 FROM J. B. ... Case 3
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO K. G. H. ...
On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination A6 ... H.C. Street _____ City _____
 _____ County _____ State _____ Zip _____

Route _____ Delivery Address ★
(★ To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier _____ Car or Vehicle Initials and No. _____

Collect on Delivery \$ _____ And Remit to _____

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
1		<u>HYDROCARBON CONTAINERS ... ~20 ...</u>			
		<u>Gross wt 41820</u>			
		<u>USTS 25-3102-3, 25-3102-4,</u>			
		<u>25-3123-1</u>			
		<u>Benor #5 592-166, 592-168, 592-072</u>			
		<u>W.O. # 3754-C 32</u>			

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight.
 NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Shipper, Per _____

Agent _____

Permanent post-office address of shipper.

Per _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

[Signature]
 (Signature of consignor.)

C. O. D. Charges to be
 Paid by
☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier _____

Per _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advanced: _____

\$ _____

* The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 6 of the National Motor Freight Classification.

† Shipper's imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission.

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL — NOT NEGOTIABLE

Shipper's No. _____

Carrier's Name: _____

Carrier's No. _____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at ARPA 25 RCP (Date) 10-25 1994 FROM J. B. Lora LOA 2
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO Kew Hare

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination AG LINDSEY (H.C.)

Street _____

City _____

County _____

State _____

Zip _____

Route _____

Delivery Address ★

(*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier _____

Car or Vehicle Initials and No. _____

Collect on Delivery \$ _____

And Remit to _____

Street _____

City _____

State _____

No Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
1		<u>HYDRA-CON QUANTITIES SILL ~ 200 yds</u>			
		<u>GAS TAC A1819</u>			
		<u>UITS 25-3123-1 & 25-3102-3</u>			
		<u>WOT# 3754-032</u>			

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight.
 NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

per _____

Shipper, Per _____

Agent _____

Permanent post-office address of shipper, _____

Per _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Jerry B. Lora
 (Signature of consignor.)

C. O. D. Charges to be

Paid by

☐ Shipper☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier _____

Per _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advanced: _____

\$ _____

*The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 6 of the National Motor Freight Classification.

† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL — NOT NEGOTIABLE

Shipper's No. _____

Carrier's Name: _____

Carrier's No. 62401

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at AREA 25 RCP (Date) 10-25 1994 FROM JERRY BROWN
 the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO Ken Hume

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination AREA 6 HYDROCARBON CANOGUA Street _____ City _____County NYE State NV Zip _____

Route _____ Delivery Address ★ _____

(*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier _____ Car or Vehicle Initials and No. _____

Collect on Delivery \$ _____ And Remit to _____

Street _____ City _____ State _____

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
1		HYDROCARBON COMMUNISTO SUE - 20 cnyds			
		GREEN TAG A1817			
		USTS 2T-3123-1			
		W.O. #3754-032			

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight.
 NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Shipper, Per _____

Agent _____

Permanent post-office address of shipper, _____

Per _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Jerry Brown
 (Signature of consignor.)

C. O. D. Charges to be

Paid by

☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier _____

For _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advanced: _____

\$ _____
 1 "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification."

1 Shipper's imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission.

DRUM DISPOSAL

Package will include the following items:

Brady # 592-293, 294, 297, 298, 299, 300, 301, 302, 303, 304, 305	YES	NO
Generator label	X	
Generator Serials	X	
Generator Knowledge		X
Is the package complete?	X	
Generator for	(6) 556 Drum of SOIL	

Brady # 592-398	YES	NO
	X	
		X
	X	
	X	
(1) 556 Drum of SOIL		

Brady # 592-164, 165, 166	YES	NO
	X	
		X
	X	
	X	
(5) 556 Drums of SOIL		

Brady # 592-187	YES	NO
	X	
	X	
		X
(1) 556 Drum of SOIL		

ENTER DATE AND TIME FOR DISPOSAL

OCTOBER 10, 1995

C. Load Number

Brady Numbers

592-293, 294, 297-323, 324, 295, 398, 164, 165, 181, 211, 187, 292, 296 & 318

Start Date:

End Date:

ENTER DATA FROM THE GENERATOR MUST HAVE:

	YES	NO
Generator label	✓	
Generator Serials	✓	
Generator Knowledge	✓	
Is the package complete?	✓	

WEIGHT TOTAL 4,720 lbs.

WORK ORDER # 0013-0540 SUB/ACCT. FREQ.

ENTER DATA FROM STORAGE

	YES	NO
Generator entered into database	✓	
Enter weight for monthly ATV	✓	
Filed in sequence	✓	
Generator Storage Cabinet	✓	

Signature/Date: W. J. Baker 10/10/95

Following items:

Brady #592-292, -296
YES ☒ NO ☒

☒

☒

☒

☒

(3) 556. DRUMS OF SOIL

Brady #
YES NO

Brady #
YES NO

Brady #
YES NO

SCHEDULE A DATE AND TIME FOR DISPOSAL

A. Date Disposed: OCTOBER 10, 1995

C. Load Number

B. Brady Numbers: SEE FRONT PAGE

Start Date:

End Date:

THE LANDFILL THE GENERATOR MUST HAVE:

YES NO

WEIGHT TOTAL

lbs.

WORK ORDER #

SUB/ACCT. FREQ.

YES NO

Signature/Date:

3-PART STOCK FORM NO. B-3876

THIS SHIPPING ORDER must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

Shipper's No. _____

Carrier's Name: _____

Carrier's No. _____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading.

(Date) _____ 19 _____ FROM _____

property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO _____

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination _____ Street _____ City _____

County _____ State _____ Zip _____

Route _____ Delivery Address ★
(*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier _____ Car or Vehicle Initials and No. _____

Collect on Delivery \$ _____ And Remit to _____

Street _____ City _____ State _____

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
3		55-Gallon Drums of Solid Fuel Waste (Non-Hazardous) The Following Bunch #s are covered 592-164, -165, -181, -187, -211, -242, -243, -294, -295, -296, -297, -318, -323, -324, -398. 15 original drums were solidified in the 13 shipped. [Green Tag A 5902] [MAY 20 1965]			

the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shippers weight. TE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Shipper, Per _____

Permanent post-office address of shipper, _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor.) _____

C. O. D. Charges to be

Paid by

☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier _____

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges Advanced: _____

\$ _____

† The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification.

† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

☆ U.S. GPO: 1994-583-986

LOCATION
Gross 1994
Tare 15220
Net 4720

REYNOLDS ELECTRICAL & ENGINEERING CO., INC.
Post Office Box 98521
Las Vegas, NV 89193-8521
90748
Commodity _____
From _____ Date 10-16-95
To _____ Carrier _____
Vehicle License Nos. _____ Driver _____
83363
TRUCK TRAILERS By *RA*
RE-6200 (12/88) WEIGHER

DATE: 10-2-95 NO. A 5902

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: *M. Closkey*
ORGANIZATION: *Reeco*
SURVEY LOCATION: *U10C*
FROM: *U10C*
TO: *A-6*

☒ UNRESTRICTED
☐ OFF-SITE
☒ ON-SITE
☐ SALVAGE
☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC
USE

INITIAL
gpc

CONTROLLED

DESCRIPTION:

*15 EA SOLIDIFIED WASTE
BARRELS*

*592-164, 592-165, 592-181
592-187, 592-292, 592-211
592-293, 592-294, 592-295
592-296, 592-297, 592-318
592-323, 592-324, 592-398*

REMARKS: *EXP 10-15-95*

☆ U.S. GPO: 1994-584-857

RE-1581 (06/93)

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Office of Scientific and Technical Information
175 Oak Ridge Turnpike
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Oak Ridge, Tennessee 37831

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Las Vegas, NV 89193-8521

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