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***PRELIMINARY INVESTIGATION
AREA 12 FLEET OPERATIONS
STEAM CLEANING DISCHARGE AREA
NEVADA TEST SITE***

U. S. DEPARTMENT OF ENERGY

JULY 1996

MASTER

BECHTEL NEVADA

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AREA 12 FLEET OPERATIONS
STEAM CLEANING DISCHARGE AREA
NEVADA TEST SITE***

July 1996

**Prepared for the
U. S. Department of Energy
Environmental Restoration Division and
Environmental Protection Division**

**Prepared by
Bechtel Nevada
Remediation Projects**

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Number of pages in this report: 31 (without Appendices)

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APPENDIX

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ABBREVIATIONS AND ACRONYMS

ASTM	American Society of Testing Materials
BN	Bechtel Nevada
CFR	Code of Federal Regulations
DOE	U. S. Department of Energy
EPA	U. S. Environmental Protection Agency
eV	Electron Volt
MEK	Methyl-ethyl-ketone
MIBK	Methyl-isobutyl-ketone (4-Methyl-2-pentanone)
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
NAC	Nevada Administrative Code
NDEP	Nevada Division of Environmental Protection
NIOSH	National Institute for Occupational Safety and Health
NTS	Nevada Test Site
OVM	Organic Vapor Monitor
pCi/g	picoCuries per gram
pCi/l	picoCuries per liter
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
REEC _o	Reynolds Electrical & Engineering Co., Inc.

RSN	Raytheon Services Nevada
Semi-VOC	semi-volatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
ug/kg	microgram per kilogram
ug/l	microgram per liter
VOC	volatile organic compound

EXECUTIVE SUMMARY

This report documents the characterization activities and findings of a former steam cleaning discharge area at the Nevada Test Site. The former steam cleaning site is located in Area 12 east of Fleet Operations Building 12-16. The characterization project was completed as a required condition of the "Temporary Water Pollution Control Permit for the Discharge From Fleet Operations Steam Cleaning Facility" issued by the Nevada Division of Environmental Protection.

The project objective was to collect shallow soil samples in eight locations in the former surface discharge area. Based upon field observations, twelve locations were sampled on September 6, 1995 to better define the area of potential impact. Samples were collected from the surface to a depth of approximately 0.3 meters (one foot) below land surface.

Discoloration of the surface soil was observed in the area of the discharge pipe and in localized areas in the natural drainage channel. The discoloration appeared to be consistent with the topographically low areas of the site. Hydrocarbon odors were noted in the areas of discoloration only.

Samples collected were analyzed for bulk asbestos, Toxicity Characteristic Leaching Procedure (TCLP) metals, total petroleum hydrocarbons (TPHs), volatile organic compounds (VOCs), semi-volatile organic compounds (Semi-VOCs), and gamma scan.

Results of the sampling activities are as follows:

- Asbestos was not observed above the detection limits of "Trace".
- Barium and cadmium were detected at concentrations well below the TCLP Action Levels of 100 milligram per liter (mg/l) and 1.0 mg/l, respectively.
- TPH as gasoline and diesel were below laboratory detection limits in the samples analyzed. TPH as oil was detected at concentrations ranging from less than 20 milligrams per kilogram (mg/kg) to 8,600 mg/kg. Nine of the 12 samples had TPH concentrations exceeding the Nevada Administrative Code clean up Action Level of 100 mg/kg. These samples were located within the discolored soil areas and within the apparent surface flow areas of the discharge pipe.
- Four soil samples contained acetone, 2-Butanone, 2-Hexanone, 4-Methyl-2-pentanone, and/or methylene chloride. In addition, both trip blanks contained acetone and 2-Butanone. The concentrations of the detected VOCs were well below the proposed 40 CFR 264.521 Subpart S Regulatory Action Levels. In addition, the 2-Butanone concentration is well below the

TCLP Action Level of 200 mg/l. No action levels have been established or proposed for 2-Hexanone. No other VOCs were detected.

- No semi-VOCs were detected in the samples analyzed.
- Low levels of naturally occurring radionuclides were detected in all samples. In addition, low levels of Cesium 137 (a fission product) were detected in 11 of the 12 samples. The Cesium 137 levels were well below the 3.0 picoCuries per gram (pCi/g) level used to determine if materials have added radioactivity.

The following conclusions are based upon the findings of the field investigation and data evaluation:

- Hydrocarbon impacted soils, exceeding NAC Action Levels, appear to be defined by the discolored areas of the site.
- Discharge into the down-gradient arroyo occurred prior to the construction of the soil berm located north of the discharge pipe.
- The discharge area does not appear to have been impacted by asbestos, TCLP metals, semi-VOCs, or elevated levels of radiological constituents. It cannot be concluded that the area was not impacted by VOCs. It is likely that the concentrations of VOCs detected can be attributed to laboratory contamination. However, this needs to be confirmed since, based on process knowledge, the VOCs may have been components of a solvent formerly used at the site.

Additional site characterization is recommended to:

- evaluate and/or confirm the presence and concentration of the VOCs detected (acetone, methylene chloride, 2-Butanone (Methyl-ethyl-ketone [MEK]), 2-Hexanone, and 4-Methyl-2-pentanone (methyl-isobutyl-ketone [MIBK])).
- determine the eastern boundary of the elevated petroleum hydrocarbon concentrations in the arroyo north of the discharge pipe; and
- determine the depth of petroleum hydrocarbon impacted soils at the site.

The list of parameters to be analyzed in the second phase of work can be reduced based upon the gamma scan results and the low or nondetectable concentrations of asbestos, TCLP metals, semi-VOCs, TCLP VOCs, TCLP Semi-VOCs, and TPH (as diesel and gasoline).

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

The purpose of this project was to characterize a former surface steam cleaning discharge area at the Nevada Test Site (NTS). The former steam cleaning site is located in Area 12 at Building 12-16 (Figure 1). The characterization was completed as a required condition of the "Temporary Water Pollution Control Permit for the Discharge From Fleet Operations Steam Cleaning Facility." The permit was issued by the Nevada Division of Environmental Protection (NDEP) in a letter dated July 14, 1992.

The scope of this phase of activity, as indicated in the Work Plan (REECo, 1992), was to collect shallow soil samples in eight locations in the former surface discharge area. Based upon field observations the sampling effort was expanded to twelve locations. Four of the original sample locations were modified from the 1992 Work Plan to better define the area of potential impact.

1.2 BACKGROUND

The former REECo Fleet Operations Building 12-16 was constructed in approximately 1965 and functioned as a maintenance facility for light- and heavy-duty vehicles up to January 1993. Services performed at the Fleet Operations site included steam cleaning, tire service, and preventative maintenance on vehicles and special purpose equipment.

Typical maintenance operations included the use of pressurized high-temperature steam with soap. Solvents may have been used during past operations prior to the steam cleaning activities. Antifreeze, used oil, fuel, grease, and asbestos (from brake linings) may have been present in the waste stream (REECo, 1992). Since 1989, the use of cleaning solvents containing Resource Conservation and Recovery Act (RCRA) constituents has been discontinued (REECo, 1992). Discharge from steam cleaning activities ceased on November 20, 1992 when maintenance activities requiring steam cleaning were transferred to the Area 23 Fleet Operations. The reduced mission at the NTS resulted in the closure of Building 12-16 on January 4, 1993. The NTS maintenance and operations work performed by REECo was rolled into a consolidated Management and Operations contract awarded to Bechtel Nevada (BN) effective January 1, 1996.

Funding to implement the 1992 Work Plan became available in August 1995.

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FIGURE 1 SITE LOCATION

SOURCE: USGS RAINIER MESA, NEV. 7.5' QUADRANGLE 1986

1.3 SITE DESCRIPTION

The Area 12 Fleet Operations site is located in the southeast portion of the Area 12 Camp and support facilities (Figure 1). Water for the site is obtained from Well Number 8 (the closest well), which is located approximately 12 kilometers (7.5 miles) west of the site. Based on available hydrogeologic data (RSN, 1986), the groundwater level at Well Number 8 is estimated to be at a depth of 326 meters (1,068 feet) below the surface. Approximate Nevada Coordinates for the site are N 890,000 and E 650,000 (from NTS Road and Facility Map, Holmes and Narver, 1986 update).

The discharge area for the steam cleaning activities is located approximately 122 meters (400 feet) east of Building 12-16. Physical site boundaries include the Rainier Mesa Road to the south, a helicopter pad to the east, a natural erosional channel (arroyo) to the north, and a topographic high to the west. Surface flow from the discharge pipe appears to follow the native topography which slopes predominantly to the east and northeast.

Soil at the site consists of loosely to moderately consolidated brown to light brown sandy gravels, to gravelly sands with silt and cobbles. Soil moisture ranges from dry to slightly moist. A soil berm, previously constructed at the site, appears to have been built in an effort to prevent releases to the arroyo north of the discharge pipe; however, no records were located indicating the time of construction. Based on field observations of discolored soil, it appears that the arroyo is a natural drainage basin for the area and discharge from the steam cleaning operations may have occurred in the past. (Section 3.1).

2.0 APPROACH

2.1 FIELD ACTIVITIES

The project approach, as indicated in the Work Plan (REECo, 1992), was to collect shallow soil samples in eight locations in the former surface discharge area. Based upon field observations, twelve locations were sampled to better define the area of potential impact. Analytical samples represent the soil depth interval located from the ground surface to approximately 0.3 meters (one foot). Sample locations were chosen in an effort to identify the approximate surface area of impact, the constituents of concern, and the concentrations of those constituents in the impacted area. Sample logic is presented in Table 1 and soil sample locations are provided in Figure 2.

An example of sample nomenclature for this investigation is: B1216-S4 where "B1216" = Building 12-16 (Area 12 Fleet Operations), and "S4" = Sample Point Number 4.

Soil samples were collected on September 6, 1995. All soil samples were collected individually with a previously cleaned stainless steel scoop, placed in a stainless steel bowl and stirred to uniformly mix the sample. To prevent volatilization, the volatile organic compound (VOC) sample from each sample point was not placed into the mixing bowl. The VOC sample was collected by scraping the sidewall of the sample point and immediately placing the soil into a sample container.

Soil samples were placed into clean laboratory-supplied glass jars with Teflon seals, sealed, labeled, placed on ice in an ice chest and cooled to approximately four degrees centigrade (39.2 degrees Fahrenheit). One field replicate, two trip blanks, and one matrix spike/matrix spike duplicate were collected for quality assurance purposes. All samples were transported to the REECo Analytical Services Department Laboratory in Mercury, Nevada following standard chain-of-custody procedures.

In addition, soil from each sample point was placed in ZiplocTM plastic bags and allowed to volatilize for a minimum of 30 minutes for headspace readings. The headspace was then measured using an Organic Vapor Monitor (OVM) Model 580B equipped with an 11.4 electron volt (eV) lamp. The OVM was calibrated to 100 parts per million (ppm) Isobutylene at the beginning of the day. Soil headspace readings were performed by opening a minimal area in the seal area of the bag, inserting the tip of the OVM, closing the seal around the tip of the OVM, and allowing the OVM to withdraw the stabilized atmosphere from the bag for VOC measurement.

TABLE 1 – SAMPLE LOCATION AND LOGIC

SAMPLE NUMBER	LOGIC
B1216-S1	Evaluate conditions in main drainage channel north of the discharge pipe and possible east boundary of impact
B1216-S2	Evaluate conditions in area of small drainage channel (tributary to main drainage channel) and determine if discharge occurred prior to construction of soil berm
B1216-S3	Evaluate conditions in main discharge channel
B1216-S4	Evaluate conditions in area that appears to be outside the area of impact because of topographic slope (main flow is to the north-east rather than east)
B1216-S5	Evaluate conditions in a discolored area not connected to main discolored area
B1216-S6	Evaluate conditions in area of small drainage channel (tributary to main drainage channel) and determine if discharge occurred prior to construction of soil berm
B1216-S7	Evaluate conditions in main discharge channel
B1216-S8	Evaluate conditions in discolored area east of discharge pipe
B1216-S9	Evaluate conditions in discolored area northeast of discharge pipe (Blind duplicate of Sample Number B1216-S11)
B1216-S10	Evaluate conditions northeast of the discharge pipe in area outside of discoloration
B1216-S11	Evaluate conditions in discolored area northeast of discharge pipe (Sample Number B1216-S9 is a blind duplicate)
B1216-S12	Evaluate conditions in discolored area north of the discharge pipe
B1216-S13	Evaluate conditions adjacent to discharge pipe

Note: See Figure 2 for Soil Sample Locations.

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**FIGURE 2
SITE SAMPLE LOCATIONS**

One background soil sample was collected for a headspace reading baseline at an approximate depth of 0.3 meters (one foot) below the surface and approximately 91 meters (300 feet) south of the discharge pipe. The reading attained from the background sample was used as a comparative field tool to evaluate soil headspace readings of samples collected from the site. Soil descriptions were prepared by the on-site geologist using the Unified Soil Classification System for soils and unconsolidated materials in accordance with American Society of Testing Materials (ASTM) standard D2487-92 (ASTM 1993). Soil descriptions, soil moisture, OVM headspace readings, and other pertinent data were recorded in the Field Notes (Appendix A).

2.2 LABORATORY ANALYSES

Soil samples were analyzed for the following parameters:

- Total Petroleum Hydrocarbons (TPH) using EPA Method 8015, Modified;
- VOCs using EPA Method 8240;
- Semi-Volatile Organic Compounds (Semi-VOCs) using EPA Method 8270;
- Toxicity Characteristic Leaching Procedure (TCLP) Metals using EPA Extraction Method 1311 and Method 6010;
- Bulk Asbestos Count using National Institute for Occupational Safety and Health (NIOSH) Method 7400; and
- Gamma Scan using REEC Co Counting & Instrumentation Procedure.

In addition, the sample collected at the discharge point was also analyzed for TCLP VOCs using EPA Method 8240 and TCLP Semi-VOCs using EPA Method 8270.

The parameters were selected based on process knowledge of the types of materials that had been, or potentially could have been, discharged in the area during past operations. Chemical sample analysis was performed by Pace Laboratories in Golden, Colorado. Radiological analysis was performed by the REEC Co Analytical Services Department Laboratory in Mercury, Nevada.

3.0 FINDINGS

3.1 OBSERVATIONS

Moisture or wetness was not observed in the discharge pipe during exploratory field activities on September 6, 1995. The sandbagged berm area around the discharge pipe appears to be in good condition (observations can be found in the Field Notes in Appendix A).

The soils from the surface to a depth of approximately 0.3 meters (one foot) ranged from sandy gravels to gravelly sands with silt and cobbles. The soil moisture, as observed by the site geologist, was predominantly dry; however, in areas of finer grained soils (such as in the main natural drainage channel), the moisture ranged from dry to slightly moist.

Discoloration of the surface soil was observed in the area of the discharge pipe and in localized areas in the natural drainage channel. The discoloration appeared to be consistent with the topographically low areas of the site. Soil discoloration was medium to dark black in color. The impacted area was defined by a thin, oily, crust-like veneer on the surface which extended to a maximum depth of approximately 0.15 meters (0.5 feet). In addition, hydrocarbon odors were noted in the areas of discoloration only. Based upon the discoloration observed in the main natural drainage channel, northeast of the discharge pipe, the soil berm was likely installed after discharge from the pipe was initiated (Figure 3).

3.2 HEADSPACE READINGS

Headspace readings can be found in the Field Notes in Appendix A and are summarized in Table 2. Headspace readings for the soil samples ranged from 0.3 ppm to 56 ppm. The background headspace reading was 1.4 ppm. The background sample was collected approximately 91 meters (300 feet) south of the discharge pipe. The headspace readings for the site in areas of surface soil discoloration ranged from 3.1 ppm to 56 ppm. The low headspace readings are attributed to the low concentrations of volatile compounds detected (see Section 3.3).

3.3 LABORATORY ANALYTICAL RESULTS

Analytical results are summarized in Table 2. Analytical results have also been included in Figure 3 to show the relationship between discoloration, wastewater flow paths, and analytical results. The laboratory analytical data packet is provided in Appendix B.

TABLE 2 -- SUMMARY OF ANALYTICAL RESULTS

SAMPLE NUMBER	ASBESTOS COUNT ⁽¹⁾ (percent)	TCLP METALS ⁽²⁾ (mg/l)	TOTAL PETROLEUM HYDROCARBONS ⁽³⁾ (mg/kg)	VOCS ⁽⁴⁾ (ug/kg or ug/l)	SEMI-VOCS ⁽⁵⁾ (ug/kg or ug/l)	OVM READINGS ⁽⁶⁾ (ppm)	DISTANCE FROM PIPE (meters/feet)	GAMMA ⁽⁷⁾ (pCi/g)
B1216-S1 (Sample Point 1)	ND ⁽⁸⁾	Ba ⁽⁹⁾ 1.7	Diesel <40 Gas <0.05 Oil 3,400	ND	ND	14.6	155/507	¹³⁷ Cs 0.457 ⁴⁰ K 19.1 ²²⁶ Ra 1.27 ²²⁸ Th 2.04 ²³² Th 2.25
B1216-S2 (Sample Point 2)	ND	Ba 1.7	Diesel <40 Gas <0.05 Oil 6,100	ND	ND	21.2	80/261	¹³⁷ Cs 0.592 ⁴⁰ K 17.2 ²²⁶ Ra 1.24 ²²⁸ Th 1.59 ²³² Th 1.64
B1216-S3 (Sample Point 3)	ND	Ba 1.6	Diesel <4 Gas <0.05 Oil 830	ND	ND	3.1	106/348	¹³⁷ Cs 1.21 ⁴⁰ K 24.6 ²²⁶ Ra 1.16 ²²⁸ Th 1.91 ²³² Th 1.04
B1216-S4 (Sample point 4)	ND	Ba 2.2	Diesel <4 Gas <0.05 Oil <20	Acetone 22B Methylene Chloride 6	ND	0.9	68/222	⁴⁰ K 28.9 ²²⁶ Ra 1.21 ²²⁸ Th 2.50 ²³² Th 2.54

SAMPLE NUMBER	ASBESTOS COUNT ⁽¹⁾ (percent)	TCLP METALS ⁽²⁾ (mg/l)	TOTAL PETROLEUM HYDROCARBONS ⁽³⁾ (mg/kg)	VOCS ⁽⁴⁾ (ug/kg or ug/l)	SEMI- VOCS ⁽⁵⁾ (ug/kg or ug/l)	OVM READINGS ⁽⁶⁾ (ppm)	DISTANCE FROM PIPE (meters/feet)	GAMMA ⁽⁷⁾ (pCi/g)
B1216-S5 (Sample Point 5)	ND	Ba 2.3	Diesel < 4 Gas <0.05 Oil 90	ND	ND	1.4	0.6/2	¹³⁷ Cs 0.323 ⁴⁰ K 26.3 ²²⁶ Ra 1.15 ²²⁸ Th 2.50 ²³² Th 2.11
B1216-S6 (Sample Point 6)	ND	Ba 1.9	Diesel <4 Gas <0.05 Oil 490	ND	ND	4.0	71/234	¹³⁷ Cs 0.477 ⁴⁰ K 28.2 ²²⁶ Ra 15.3 ²²⁸ Th 2.46 ²³² Th 3.08
B1216-S7 (Sample Point 7)	ND	Ba 1.1	Diesel <4 Gas <0.05 Oil 84	ND	ND	0.3	91/297	¹³⁷ Cs 0.695 ⁴⁰ K 19.9 ²²⁶ Ra 1.03 ²²⁸ Th 2.04 ²³² Th 1.97
B1216-S8 (Sample Point 8)	ND	Ba 1.7	Diesel <4 Gas <0.05 Oil 1,300	ND	ND	12.5	37/123	¹³⁷ Cs 0.229 ⁴⁰ K 21.1 ²²⁶ Ra 1.02 ²²⁸ Th 2.18 ²³² Th 1.59

SAMPLE NUMBER	ASBESTOS COUNT ⁽¹⁾ (percent)	TCLP METALS ⁽²⁾ (mg/l)	TOTAL PETROLEUM HYDROCARBONS ⁽³⁾ (mg/kg)	VOCS ⁽⁴⁾ (ug/kg or ug/l)	SEMI-VOCS ⁽⁵⁾ (ug/kg or ug/l)	OVM READINGS ⁽⁶⁾ (ppm)	DISTANCE FROM PIPE (meters/feet)	GAMMA ⁽⁷⁾ (pCi/g)
B1216-S9 (Sample Point 9)	ND	Ba 1.7	Diesel <40 Gas <0.05 Oil 4,800	Acetone 42B 2-Butanone 20B 4-Methyl-2-pentanone 10 2-Hexanone 12	ND	19.0	38/126	¹³⁷ Cs 0.49 ⁴⁰ K 18.4 ²²⁶ Ra 0.989 ²²⁸ Th 1.78 ²³² Th 1.99
B1216-S10 (Sample Point 10)	ND	Ba 2.1	Diesel <4 Gas <0.05 Oil <20	ND	ND	0.6	50/164	¹³⁷ Cs 0.447 ⁴⁰ K 24.6 ²²⁶ Ra 1.02 ²²⁸ Th 1.92 ²³² Th 1.84
B1216-S11 (Sample Point 11)	ND	Ba 1.9	Diesel <40 Gas <0.05 Oil 7,200	Acetone 44B Methylene Chloride 6 2-Butanone 21B 4-Methyl-2-pentanone 12	ND	20.1	38/126	¹³⁷ Cs 0.408 ⁴⁰ K 19.9 ²²⁶ Ra 1.06 ²²⁸ Th 1.74 ²³² Th 1.68
B1216-S12 (Sample Point 12)	ND	Ba 1.6 Cd ⁽¹⁰⁾ 0.06	Diesel <40 Gas <0.05 Oil 6,000	Acetone 17B	ND	16.7	13/41	¹³⁷ Cs 0.285 ⁴⁰ K 17.3 ²²⁶ Ra 0.984 ²²⁸ Th 1.66 ²³² Th 1.75

SAMPLE NUMBER	ASBESTOS COUNT ⁽¹⁾ (percent)	TCLP METALS ⁽²⁾ (mg/l)	TOTAL PETROLEUM HYDROCARBONS ⁽³⁾ (mg/kg)	VOCS ⁽⁴⁾ (ug/kg or ug/l)	SEMI-VOCS ⁽⁵⁾ (ug/kg or ug/l)	OVM READINGS ⁽⁶⁾ (ppm)	DISTANCE FROM PIPE (meters/feet)	GAMMA ⁽⁷⁾ (pCi/g)
B1216-S13 (Sample Point 13)	ND	Ba 1.5 Cd 0.09	Diesel <40. Gas <0.05 Oil 8,600	ND <u>TCLP</u> ND	ND <u>TCLP</u> ND	56.0	0.6/2	¹³⁷ Cs 0.149 ⁴⁰ K 14.6 ²²⁶ Ra 0.79 ²²⁸ Th 14.1 ²³² Th 1.50
95DDM 09061 (Trip Blank)	NA ⁽¹¹⁾	NA	NA	Acetone 41 2-Butanone 22	NA	NA	NA	NA
95DDM 09062 (Trip Blank)	NA	NA	NA	Acetone 44 2-Butanone 24	NA	NA	NA	NA

Notes:

- 1 Bulk Asbestos Counting: NIOSH Method 7400 (Polarized Light Microscopy)
 - 2 Toxicity Characteristic Leaching Procedure (TCLP) Metals: Extraction Method 1311 and Methods 6010 and 7470
 - 3 TPH: Method 8015, Modified
 - 4 Volatile Organic Compounds: Method 8240
 - 5 Semi-Volatile Organic Compounds: Method 8270
 - 6 Organic Vapor Monitor (OVM) readings: readings taken a minimum of 30 minutes after collection.
 - 7 20 minute Gamma Scan: REEC Co Counting Procedure
 - 8 Not Detected above method/laboratory detection levels
 - 9 Barium (Ba)
 - 10 Cadmium (Cd)
 - 11 Not analyzed
- B Indicates constituent was found in the associated trip blank.

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FIGURE 3
DISCOLORED SOIL AREA & ANALYTICAL RESULTS

Bulk Asbestos

Asbestos was not observed above the visual detection limits of "trace" in the thirteen samples (includes the replicate sample B1216-S9). Results indicate that the soil at the site does not contain asbestos above the one percent volume to qualify it as Asbestos Containing Material (ACM).

TCLP Metals

Barium was detected in all samples collected at the site ranging from 1.1 milligram per liter (mg/l) to 2.3 mg/l. These concentrations are considerably below the TCLP Regulatory Limit of 100 mg/l (40 CFR, 261.24).

Cadmium was detected in samples B1216-S12 (0.06 mg/l) and B1216-S13 (0.09 mg/l) at concentrations below the TCLP Regulatory Limit of 1.0 mg/l (40 CFR, 261.24).

Total Petroleum Hydrocarbons (TPHs)

TPH concentrations as diesel ranged from less than 4 milligrams per kilogram (mg/kg) to less than 40 mg/kg which are below the Nevada Administrative Code (NAC) Action Level of 100 mg/kg (NAC, 1992a). The concentrations reported are the detection levels based upon the dilution factors used by the analytical laboratory.

TPH concentrations as gasoline was reported at less than the detection level of 0.05 mg/kg for all samples which is below the NAC Action Level of 100 mg/kg.

TPH as oil results ranged from less than 20 mg/kg to 8,600 mg/kg. TPH analytical results from soil sample locations B1216-S4 (<20 mg/kg), B1216-S5 (90 mg/kg), B1216-S7 (84 mg/kg), and B1216-S10 (<20 mg/kg) were below the NAC Action Level of 100 mg/kg. These samples were located outside of the discolored soil areas and appear to be in areas that did not receive surface flow from the discharge pipe (Figure 3).

The remaining nine samples contained TPHs as oil concentrations in excess of the NAC clean up Action Level of 100 mg/kg. These samples were located within the discolored soil areas and within the apparent surface flow areas of the discharge pipe (Figure 3).

Volatile Organic Compounds

Acetone was detected in soil samples B1216-S4 (22 micrograms per kilogram [ug/kg]), B1216-S9 (42 ug/kg), B1216-S11 (44 ug/kg), and B1216-S12 (17 ug/kg) and in Trip Blanks (provided by Bechtel Nevada Analytical Laboratory) 95DDM090601 (41 ug/l) and 95DDM090602 (44 ug/l). The proposed Subpart S Regulatory Limit for acetone is 8,000 mg/kg which is considerably above the range of concentrations detected (17 ug/kg to 44 ug/kg). 2-Butanone

(Methyl-ethyl-ketone [MEK]) was detected in samples B1216-S9 (20 ug/kg), B1216-S11 (21 ug/kg), and Trip Blanks 95DDM090601 (22 ug/l) and 95DDM090602 (24 ug/l). The concentrations are well below the TCLP Action Level of 200 mg/l (40 CFR 261.24) and the proposed Subpart S Regulatory Limit of 4,000 mg/kg for 2-Butanone (EPA 1990)

Methylene chloride was detected in samples B1216-S4 and B1216-S11, each at concentrations of 6 ug/kg. The proposed Subpart S Regulatory Action Level for methylene chloride is 90 mg/kg (EPA 1990) which is considerably above the 6 ug/kg detected in the two samples.

2-Hexanone was detected in Sample B1216-S9 at 12 ug/kg. A Regulatory Action Level for 2-Hexanone has not been established. 4-Methyl-2-pentanone (methyl-isobutyl-ketone [MIBK]) was detected in sample B1216-S9 (10 ug/kg) and B1216-S11 (12 ug/kg). The proposed Subpart S Regulatory action level for MIBK is 4,000 mg/kg (EPA 1990) which is considerably above the concentration detected in the two samples.

Based upon process knowledge that the VOCs detected may have been components of solvents previously used at the site, verification samples will be collected for VOC analysis during the next phase of the investigation.

Semi-Volatile Organic Compounds

No semi-VOCs were detected above the laboratory/method detection limits. Analytical review notes (Appendix B) indicate Samples B1216-S2, B1216-S3, B1216-S5, B1216-S8, B1216-S9, B1216-S10, B1216-S12, and B1216-S13 were received by the analytical laboratory with cracked lids.

Gamma Scan

Cesium-137 was detected in all samples with the exception of sample B1216-S4. Results ranged from 0.121 picoCuries per gram (pCi/g) to 0.695 pCi/g which is below the 3.0 pCi/g level that is used to determine if materials have added radioactivity (REECo, 1995). Since Cesium-137 is a fission product attributed to worldwide fallout, it is unlikely that the low values detected can be attributed to any of the steam cleaning effluent released in the area.

Potassium-40 was detected in all samples at values ranging from 12.1 pCi/g to 28.9 pCi/g. Radon 226 was detected in all samples at values ranging from 0.79 pCi/g to 15.3 pCi/g. In addition, Thorium-228 and -232 were detected in all samples. Thorium-228 values ranged from 1.66 pCi/g to 17.8 pCi/g, and Thorium-232 values ranged from 1.04 pCi/g to 3.08 pCi/g. Potassium-40, Radon-226, Thorium-228, and Thorium-232 are naturally occurring radionuclides; therefore, the values detected are not attributed to any of the steam cleaning effluent released in the area.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

The following conclusions are based upon the findings of the field investigation and data evaluation:

- Hydrocarbon impacted soils, exceeding NAC action levels, appear to be defined by the discolored areas of the site.
- Discharge into the down-gradient arroyo occurred prior to the construction of the soil berm located north of the discharge pipe.
- The discharge area does not appear to have been impacted by asbestos, TCLP metals, semi-VOCs, or elevated levels of radiological constituents. It cannot be concluded that the area was not impacted by VOCs. It is possible that the concentrations of VOCs detected can be attributed to laboratory contamination. However, this needs to be confirmed since the VOCs may have been components of solvents formerly used at the site based on process knowledge.

4.2 RECOMMENDATIONS

The following recommendations are based upon findings from this phase of activities:

- Additional sampling is required to evaluate and/or confirm the presence and concentration of the VOCs detected (acetone, methylene chloride, 2-Butanone [MEK], 2-Hexanone, and 4-Methyl-2-pentanone [MIBK]).
- Limited additional sampling is required to evaluate the eastern boundary of the elevated petroleum hydrocarbon concentrations in the arroyo north of the discharge pipe.
- Additional sampling is required to evaluate the depth of petroleum hydrocarbon impacted soils at the site.
- The list of parameters to be analyzed in the second phase of work can be reduced based upon gamma scan results and the low or non-detected concentrations of the following: asbestos, TCLP metals, Semi-VOCs, TCLP VOCs, TCLP Semi-VOCs, and TPH (as diesel and gasoline).
- Sampling activities will be conducted as described in the Work Plan (REECo, 1992) and existing instructions for shallow-soil sampling using hand augers, Geoprobe® samplers,

and small drill rigs.

- Field screening of samples for TPHs to evaluate the depth of potential impact is recommended to reduce costs.

Table 3 provides the logic for the proposed sampling locations and activities. Figure 4 provides the proposed locations and depths for additional sampling. The additional sampling will be completed to evaluate site conditions for remaining boundaries, confirmation of the presence of VOCs, and the vertical extent of TPHs as oil above the NAC TPH Action Level. Based on the findings of the Phase 2 Investigation, a report will be prepared discussing closure alternatives and methodology.

TABLE 3 – PROPOSED SAMPLING LOCATIONS AND LOGIC

SAMPLE LOCATION	ANALYTICAL PARAMETER AND LOGIC
Area of B1216-S1	Approximately three samples will be collected to evaluate depth and eastern boundary of petroleum hydrocarbon impact for determination of remedial options. Samples will be collected from an approximate depth of 0.9 meters (3 feet) and analyzed for TPH as oil.
Area of B1216-S2	One additional sample will be collected to evaluate depth of petroleum hydrocarbon impact for determination of remedial options. The sample will be collected from an approximate depth of 0.9 meters (3 feet) and analyzed for TPH as oil.
Area of B1216-S3	Approximately two samples will be collected to evaluate depth and eastern boundary of petroleum hydrocarbon impact for determination of remedial options. Samples will be collected from an approximate depth of 0.9 meters (3 feet) and analyzed for TPH as oil.
Area of B1216-S4	Approximately four samples will be collected to evaluate/confirm the presence of VOCs. Two samples will be collected at the B1216-S4 location, one at the surface and one at a depth of 0.9 meters (3 feet). One additional surface sample will be collected to the east and one to the west of the area.
Area of B1216-S6	One additional sample will be collected to evaluate depth of petroleum hydrocarbon impact for determination of remedial options. The sample will be collected from an approximate depth of 0.9 meters (3 feet) and analyzed for TPH as oil.

SAMPLE LOCATION	ANALYTICAL PARAMETER AND LOGIC
Area of B1216-S9/-S11	<p>One additional sample will be collected to evaluate depth of petroleum hydrocarbon impact for determination of remedial options. The sample will be collected from an approximate depth of 0.9 meters (3 feet) and analyzed for TPH as oil.</p> <p>Approximately five samples will be collected to evaluate/confirm the presence of VOCs. Two samples will be collected at the B1216-S9/-S11 location, one at the surface and one at a depth of 0.9 meters (3 feet). One additional surface sample will be collected to the east, one to the south, and one to the west of the area.</p>
Area of B1216-S13	<p>One additional sample will be collected to evaluate depth of petroleum hydrocarbon impact for determination of remedial options. The sample will be collected from an approximate depth of 0.9 meters (3 feet) and analyzed for TPH as oil.</p>

Note: A total of 18 additional samples are proposed.
Refer to Figure 4 for sampling locations.

Bechtel Nevada

**FIGURE 4
PROPOSED SAMPLING LOCATIONS**

5.0 SCHEDULE

Table 4 provides the proposed schedule for the implementation of the sampling proposed in Section 4.2. Changes to the schedule may be required depending upon weather conditions, availability of personnel and equipment, and/or delays beyond our control or which cannot be anticipated. The DOE/NV Subproject Manager will be informed of any changes to the schedule.

TABLE 4 - PROPOSED SAMPLING SCHEDULE FOR AREA 12 STEAM CLEANING DISCHARGE AREA

CORRECTIVE ACTION UNIT 339

DOE/INDUSTRIAL - DOE/DP STEAM CLEANING EFFLUENT, AREA 12

MILESTONE SCHEDULE	COMPLETION DATE
Complete Phase 2 Investigation (Field Work)	5-Sep-96
Corrective Action Decision Document (CADD) to DOE	29-Nov-96
Corrective Action Decision Document (CADD) to NDEP	20-Jan-97
Corrective Action Plan (CAP) to DOE	30-Mar-97
Corrective Action Plan (CAP) to NDEP	20-May-97
Closure Report to DOE	30-Oct-97
Closure Report to NDEP	15-Dec-97

Note: Phase 2 field sampling is anticipated to begin August 19, 1996.

6.0 REFERENCES

ASTM, 1995, Standard Classification Of Soils For Engineering Purposes (Unified Soil Classification System), American Society For Testing And Materials Method D2487-92, Volume 04.08.

NAC, 1990, Underground Water And Wells: Plugging Wells Drilled for Purposes Other Than Water Wells, Nevada Administrative Code 534.421.

NAC, 1992a, Hazardous Materials: Storage Tanks, Nevada Administrative Code 459.9921 through 459.999.

NAC, 1992b, Water Controls: Air Pollution: Notification of Release of Pollutant, Nevada Administrative Code 445.240.

NDEP, 1992, Temporary Water Pollution Control Permit, Nevada Division of Environmental Protection, July 14, 1992.

REEC Co, 1992, Work Plan - Phase 1 Preliminary Characterization of Building 12-16, Wastewater Discharge Area, Reynolds Electrical and Engineering Company, October 23, 1992.

REEC Co, 1995, Nevada Test Site Performance Objective for Certification of Nonradioactive Waste, Reynolds Electrical and Engineering Company, December 18, 1995.

RSN, 1986, Nevada Site Development Plan, Part I, Raytheon Services Nevada, May 1986.

U.S. EPA, 1990, EPA Proposed Corrective Action Rule For Solid Waste Management Units at Hazardous Waste Facilities, 55 FR 30798, July 27, 1990, proposed rule.

U.S. EPA, 1994, 40 Code of Federal Regulations, Part 261.24, Code of Federal Regulations, July 1, 1994.

APPENDIX A
FIELD NOTES

J. Boone & D. Macken arrived at approx 0845 at the Area 12 Steam Cleaning Effluent area to observe area prior to collecting surface samples next week. No surface moisture or water was observed to indicate flow in the sandbagged area. Small erosion channels (approx 1 ft wide by up to 6 inches deep) are present in the area of the intersection of the shoulder slope of the road and existing haul surface. Other smaller drainages are present but do not appear to have the same developed channeling as along the road.

Adjacent to the helicopter pad area is a slightly low topographic area which appears to have had ponded water in the past by the presence of deposition of silt sized particles in the area. No discoloration was observed in that Area. Between the helicopter pad and sand bagged area, a large

8/31/95

H 12

PROJECT NO.

2,

TITLE

BOOK NO. 63

Work continued from Page 26

- area of surface discoloration (brown to blackish/brown) was observed. Discoloration of vegetation approx. 1/2 to 1 inch above the surface was also observed. Potentially the area could have extended past the soil berm area, but readily observable discoloration was not observed on the other side of the berm. Some dead vegetation was observed in the discolored surface soil area; however, throughout the entire area dead vegetation was observed. Therefore, the dead vegetation observed in the discolored area is not restricted to the site area. No discoloration was observed in the arroyo area.
- 10 - Based upon the arroyo N. of the site this appears to be a physical boundary for surface flow (therefore investigation N. boundary should be slightly north of the arroyo flowline). The southern boundary should be the edge of the shoulder of the road in the area of the small erosion channel (this area appears to be topographically higher than the discharge pipe within the sandbagged area). The eastern boundary will be placed slightly east of the area of potential surface water (run-off) ponding adjacent to the helicopter pad. The western boundary will be between the discharge pipe and the asphalt parking area.
- 15 - An approx 4 inch diameter pipe was observed north of the ~~stems~~^{3m} sand bagged area in the arroyo. No recent or present discharge is suspected because the interior of the pipe is dry and there does not appear to be any moisture or scouring below the pipe. A sample during the first phase of sampling is recommended in the area of this pipe
- 25

8/31/95

Weather - Clear, calm, late morning wind/breeze, temp. 65-90°

0705 - Receive Trip Blanks 95DDMO9061 + 95DDMO9062 from ASD for coolers

0830 - D. Matheson arrives at site and demarcates sample

locations with lath and flagging. Complete installation of

lath at approx. 1000 hrs (all laths marked with sample number)

000 - OVM Model 580B checked with Iso Butylene (leoppr) for accuracy (lithel
lamp) - Begin layout of sampling equipment - stainless steel
bowls for sample containment, stainless steel trowels, and rock

Picks.

The following lab supplied glass jars were provided for each sample:

(1) 240 ml glass - TCEP Metals

(2) 120 ml glass - VOC's

(1) 500 ml glass - Semi VOC's

(1) 240 ml glass - TPH

(1) 500 ml Nalgene - Gamma (20 min. count)

(1) Petri Dish - Plastic - Total Asbestos

1020 - Collect background headspace soil sample approximately 300 ft

south of discharge pipe (S. side of road) in area which appears to
be undisturbed from a depth of approx 6 inches. Place sample in

Ziploc bag.

1030 - Collect sample B1216-S1. Black/dark brown surface discoloration

with hydrocarbon odors. Discoloration from 0 to 0.75 ft. Light brown to

black sand with minor gravel and silt, poorly graded, slightly moist to dry.

From surface to 0.1 ft soil was cakey + layered. Sample collected from

9/6/95

9/6/95

TITLE

Area 12 Stream Cleaning Discharge Area

PROJECT NO

29

Work continued from Page 28.

BOOK NO 63

1050 - Collected sample B1216-S2. Surface discoloration of dark grey to black. Silty sand with minor gravel, soft to medium hard, poorly graded, slightly moist to dry. Discoloration from surface to 0.6 ft. Hydrocarbon odors. [Sample from 0 to 1.0 ft]

5

1100 - H. VanDrielen, C. Gower (NDEP) + S. Nacht (REECO) arrive on-s. show sample locations, and areas of discoloration. Discuss additional samples to be taken than in Work Plan because of surface discoloration observed. Approx 1130 hrs - Harry, Glen, and Steve leave site. [Sample from 0 to 1.0 ft bls]

10

~1130 - J. Smith^{8m} + D. Tobiason^{3m} arrive on site to assist in sample #
~1200 hrs J. Smith + D. Tobiason depart site.

15

1140 - Sample B1216-S3 collected, surface discoloration of dark grey to dark brown. Silty sand, light brown to grey/black, slight moist, soft to medium hard, poorly graded; Silt^{3m} slight hydrocarbon odor. Discolored from surface to approx 0.2 ft. Sampled from 0 to 1.0 ft bls.

20

1140 - Sample B1216-S5 Collected. No discoloration observed. Sand with minor fine gravel and silt, poorly graded, dry, light brown to tan, soft to medium hard. Increase in gravel with depth. Sampled from 0 to 1.0 ft bls. No odors

25

1145 - Sample B1216-S4 Collected. No discoloration observed, no odors. light brown sand with moderate silt, well graded, soft, dry to slightly^{3m} slightly moist. Sampled from surface to 1.0 ft bls

30

SIGNATURE

9/6/95

B1216-S6 collected at 1215 hrs. Brown to gray surface discoloration. Minor hydrocarbon odors. Sand with minor gravel/moderate silt, soft, dry to slightly moist, poorly graded. Sampled from 0 to 1.0 Ft bls

B1216-S7 collected at 1220 hrs. No discoloration or hydrocarbon odor. Gravelly sand to sandy gravel with silt, light brown, dry, medium hard to soft, well graded. Sampled from 0 to 1.0 Ft bls

1230 hrs - Collect Samples B1216-S9 and B1216-S11. B1216-S9 is duplicate of B1216-S11. B1216-S9 submitted under Chain of Custody (COC) as collected @ 1230 hrs. B1216-S11 submitted on COC as collected at 1345 hrs even though sample time was 1230 hrs for sample anonymity to analytical laboratory. Both samples collected from surface to 1.0 Ft bls. Dark brown to black discoloration to 0.8 Ft bls with hydrocarbon odors. Sand with gravel and silt, dry to slight moist, soft, poorly to moderately graded, increase in silt/fine sand with depth. Surface oily to layered with discolored material.

1250 - Collected Sample B1216-S8. Minor discoloration at surface and minor hydrocarbon odor. Gravelly sand to sandy gravel with silt, well graded, light brown to dark brown, dry, soft. Sample from surface to 1.0 Ft bls

1320 Collected sample B1216-S10. Sand with moderate silt, dry to slight moist, light brown to tan, poorly graded to moderately graded, medium hard to soft. Sampled from 0 to 1.0 Ft bls

Work continued from Page 30

— Ran out of room in 2 coolers, thus removed gamma samples since not needed to refrigerate/cool. Removing gamma samples should leave enough room for remaining sample in coolers. In addition, redistributed ice to more completely surround samples (each sample point samples were placed in a plastic bag to assist inventory by ASD personnel upon transfer).

1405 hrs - Collect sample B1216-S12 - dark brown/grey/black surface discoloration with hydrocarbon odors. Surface is cakey and slightly hard. Sand with minor gravel/moderate silt, poorly graded, light brown to grey/black, hydrocarbon odors, moderate to soft. Sampled from surface to 1.0 Ftbls

1425 hrs - Collect sample B1216-S13 - located approx 2 ft from discharge pipe in sand bagged area. Collect double quantity of sample for MB and MSD. light grey to brown surface soils. Sand with silt, light brown to dark brown with grey, moderate to soft, poorly graded, dry to slight moist (with depth) [predominantly dry]. Sampled from surface to 1.0 Ftbls

1500 hrs J. Smith + D. Tobiasson arrive at site to offer further sampling assistance - All personnel leave site

1525 D. Maden arrives at Area 6 HPD for sample green tagging. While waiting for green tagging measure headspace of samples after re-checking OVM with 100 ppm isobutylene. Background Sample = 1.4 ppm

Work continued to Page 32

SIGNATURE

DATE

9/5/95

DATE

Sample # OUV PPM

* see previous pg for Background

B1216-S1 14.6

-S2 21.2

-S3 3.1

-S4 0.9

-S5 1.4

-S6 4.0

-S7 0.3

-S8 12.5

-S9 19.0

-S10 0.6

-S11 20.1

-S12 16.7

-S13 56.0

Turned samples over to ASD at 1655 hrs.

N/A

9/6/95

APPENDIX B

*ANALYTICAL RESULTS AND
CHAIN-OF-CUSTODY FORMS*

Reynolds Electrical & Engineering Co., Inc.

MEMORANDUM

To S. J. Nacht
From A. R. Latham
Date October 31, 1995
Subject SAMPLE ANALYTICAL RESULTS

Enclosed are Pace Laboratories' results, requested by D. D. Madsen, for the following 13 samples and the volatile analysis of two trip blanks, collected on September 6, 1995, at the Steam Cleaning Area in Area 12:

- 1) volatile
- 2) TCLP volatile
- 3) semi-volatile
- 4) TCLP semi-volatile
- 5) total petroleum hydrocarbons (gasoline, diesel, oil)
- 6) TCLP metals
- 7) polarized light microscopy

Also enclosed are the radioanalytical results of the gamma analysis.

SPECIFIC:

Volatile Organics

INTERNAL STANDARDS - Recovery of 1,4-difluorobenzene and chlorobenzene-d5 were outside the established control limits (low) for sample B1216-S13, its matrix spike and matrix spike duplicate. Recovery of chlorobenzene-d5 was outside the established control limits (low) for samples B1216-S1, -S8, and -S9. Similar recoveries were obtained upon reanalysis of the samples. Recovery of 1,4-difluorobenzene and chlorobenzene-d5 were outside the established control limits (low) for samples B1216-S11 and -S12. Similar recoveries were obtained upon reanalysis. Since recoveries were in control in the System Blank and the Laboratory Control Sample, the poor recoveries have been attributed to matrix effects.

SURROGATES - Recoveries of toluene-d8 (high) and bromofluorobenzene (low) were outside control limits in sample B1216-S8, -S9, -S11, and -S13. Similar recoveries were seen in the matrix spike and matrix spike duplicate, prepared from sample B1216-S13. Since recoveries were in control in the System Blank and Laboratory Control Sample, the poor recoveries have been attributed to matrix effects.

SPIKED COMPOUNDS - Recoveries of 1,1-dichloroethylene and trichloroethylene were outside (low) the established control limits. Since recoveries were in control in the Laboratory Control Sample, the poor recoveries have been attributed to matrix effects.

TCLP Volatile Organics

SURROGATES - Recovery of toluene-d8 (high) was outside control limits in sample B1216-S13 and the Laboratory Control Sample. Recovery of bromofluorobenzene in the matrix spike duplicate was outside (low) control limits.

SPIKED COMPOUNDS - Recoveries of 1,1-dichloroethylene in the matrix spike (high) and trichloroethylene in the matrix spike duplicate (low) were outside laboratory established control limits. Since recoveries were in control in the Laboratory Control Sample, the poor recoveries have been attributed to matrix effects.

Semi-volatile Organics

DILUTIONS - All samples except B1216-S4 through -S8 and B1216-S10 were diluted prior to analysis due to matrix interference. The reporting limits for all diluted samples have been adjusted accordingly.

BLANK - The method blank demonstrated contamination of di-n-butylphthalate at a level above the reporting limit. Di-n-butylphthalate was not detected in any of the samples.

INTERNAL STANDARDS - The later eluting internal standards were recovered outside the laboratory established control limits (low) in sample B1216-S2 and B1216-S4 through -S9. The probable cause was attributed to matrix effect.

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) - These were prepared from sample B1216-S13. Recoveries of 4-chloro-3-methylphenol, 2,4-dinitrotoluene, and pentachlorophenol were outside (low) control limits in the MS while 2,4-dinitrotoluene and pentachlorophenol were outside (low) in the MSD. The Relative Percent Difference for pyrene was outside acceptable limits. Similar recoveries were seen upon reanalysis of the samples.

TCLP Semi-volatile Organics;

SURROGATES - Phenol-d5 was recovered outside (low) control limits in sample B1216-S13.

Total Petroleum Hydrocarbons;

GASOLINE - The MS and MSD were prepared from sample B1216-S13. Neither was recovered at an acceptable level. All samples exhibited poor (low) recoveries of the bromofluorobenzene surrogate. These recovery outliers have been attributed to matrix effects.

S. J. Nacht
October 31, 1995
SAMPLE ANALYTICAL RESULTS
Page 3

DIESEL/OIL - Samples B1216-S1, -S2, -S9, -S11, -S12, -S13, the MS, and the MSD (prepared from B1216-S13) were diluted prior to analysis due to matrix interference. Reporting limits for these samples have been raised accordingly. The recoveries of the diesel matrix spikes could not be calculated due to the level of oil found in the samples.

TCLP Metals

METALS - All samples were diluted prior to analysis due to the levels of sodium found. Limits have been raised accordingly.

MERCURY - Nothing unusual occurred during analysis.

Polarized Light Microscopy

Nothing unusual occurred during analysis.

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

ARL:30:bv

Enclosures
As stated

cy w/o encls.

Central Files, M/S 530
J. E. Henderson, M/S 580
L. S. Sygitowicz, M/S 612
ACS Packet No. 95-09-004
ACS Packet No. 95-09-005

cy w/encls.

D. D. Madsen, M/S 969

REECO ASD/ACS

REECO
BOB DODGE
ENVIRONMENTAL RESTORATION
TECHNOLOGY DEVELOPMENT
Attn: DAVE MADSEN

Order #: 95-09-004
Date: 10/30/95 14:15
Work ID: VOA,BNA,TPH/SOIL;A12
Date Received: 09/06/95
Date Completed: 10/30/95

Purchase Order: A076-A120
Invoice Number:

#D50909.501A

Client Code: ERTD

REPORT TO DAVE MADSEN, ERTD.
SAMPLES SENT TO PACE FOR ANALYSIS 09/08/95.
TCLP METALS & PLM LOGGED IN PACKET #95-09-005.

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	95DDM09061 TRIP BLANK	24	B1216-S8
02	95DDM09062 TRIP BLANK	25	B1216-S8
03	B1216-S1	26	B1216-S8
04	B1216-S1	27	B1216-S9
05	B1216-S1	28	B1216-S9
06	B1216-S2	29	B1216-S9
07	B1216-S2	30	B1216-S10
08	B1216-S2	31	B1216-S10
09	B1216-S3	32	B1216-S10
10	B1216-S3	33	B1216-S11
11	B1216-S3	34	B1216-S11
12	B1216-S4	35	B1216-S11
13	B1216-S4	36	B1216-S12
14	B1216-S4	37	B1216-S12
15	B1216-S5	38	B1216-S12
16	B1216-S5	39	B1216-S13
17	B1216-S5	40	B1216-S13
18	B1216-S6	41	B1216-S13
19	B1216-S6	42	B1216-S13
20	B1216-S6	43	B1216-S13
21	B1216-S7	44	PACKET #G3230
22	B1216-S7	45	PACKET #G3230
23	B1216-S7		

Order # 95-09-004
10/30/95 14:15

REECO ASD/ACS

Page 2

Certified By

REECO ASD/ACS

REECO
BOB DODGE
ENVIRONMENTAL RESTORATION
TECHNOLOGY DEVELOPMENT
Attn: DAVE MADSEN

Order #: 95-09-005
Date: 10/30/95 14:18
Work ID: TCLP METALS, PLM/SOIL;A12
Date Received: 09/06/95
Date Completed: 10/03/95

Purchase Order: 1196-600

#D50919.300

Invoice Number:

Client Code: ERTD

REPORT TO DAVE MADSEN, ERTD.
SAMPLES SENT TO PACE FOR ANALYSIS 09/08/95.
PART OF PACKET #95-09-004.

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	B1216-S1
02	B1216-S1
03	B1216-S2
04	B1216-S2
05	B1216-S3
06	B1216-S3
07	B1216-S4
08	B1216-S4
09	B1216-S5
10	B1216-S5
11	B1216-S6
12	B1216-S6
13	B1216-S7

<u>Sample Number</u>	<u>Sample Description</u>
14	B1216-S7
15	B1216-S8
16	B1216-S8
17	B1216-S9
18	B1216-S9
19	B1216-S10
20	B1216-S10
21	B1216-S11
22	B1216-S11
23	B1216-S12
24	B1216-S12
25	B1216-S13
26	B1216-S13

Certified By

**LABORATORY
NARRATIVE
SUMMARY**

October 17, 1995

Mr. Ted Redding
Reynolds Electrical & Engineering Co., Inc.
P.O. Box 98521, M/S 713
Las Vegas, NV 89193-8521

Client Reference: REECO-1005-CUC-01-5
PACE Project No. D50909.501
Client Packets: 95-09-004 and 95-09-005

Dear Mr. Redding:

Enclosed is the report of the laboratory analyses for samples received September 09, 1995. With the exception of the nonconformances described below no problems were encountered with the analysis of either the environmental or QC samples for the analytical methods requested.

SAMPLE RECEIPT

Sample jars containing samples B1216-S2,-S3,-S5,-S8,-S9,-S10,-S12, and -S13 for BNA analysis were received with broken and/or cracked lids. Upon notification of this transit problem on September 09, 1995, the client advised PACE laboratory to proceed with the requested analysis.

METHOD 8015M TOTAL EXTRACTABLE HYDROCARBONS-OIL

Samples in analytical batch 65 28137 were analyzed for the presence of oil by method 8015M. Samples 65 109160, 65 109178, 65 109240, 65 109267, 65 109275, 65 109283, and 65 11040 were diluted due to matrix interference. The reporting limits for these samples were raised accordingly.

METHOD 8015M TOTAL EXTRACTABLE HYDROCARBONS-DIESEL

Samples in analytical batch 65 28132 were analyzed for the presence of diesel oil by method 8015M. Samples 65 109160, 65 109178, 65 109240, 65 109267, 65 109275, 65 109283, 65 109283 MS, 65 109283 MSD, and 65 11040 were diluted due to matrix interference. The reporting limits for these samples were raised accordingly. Sample 65 109283 was chosen as the MS/MSD for the analytical batch. The results for the matrix spike sample have been reported as noncalculated ("NC"). The amount of oil native to the sample prevented the quantitation of diesel oil.

Mr. Ted Redding
Page 2

METHOD 8015M TOTAL VOLATILE HYDROCARBONS-GASOLINE

Samples in analytical batch 65 28192 were analyzed for the presence of gasoline by method 8015M. The surrogate recoveries for all samples associated with the batch were recovered outside the established control limits (low). Sample 65 109283 was specified as the MS/MSD sample. The spike recoveries for both the MS and MSD samples were recovered outside the established control limits (low). The probable cause has been attributed to matrix effect. All samples have been reported as "ND" for gasoline. As no quantitations are compromised and the reporting limits are defensible, data are reported.

Sample 65 11040 was diluted because of matrix interference. The reporting limit was raised accordingly.

METHOD 8240 VOLATILE ORGANICS

Samples in analytical batch 65 28218 were analyzed for volatile organic compounds by EPA method 8240. The recovery of the internal standards 1,4-difluorobenzene and chlorobenzene-d5 were recovered outside the established control limits (low) for sample 65 109283. Similar recoveries were obtained in the MS/MSD samples (65 109283 MS and 65 109283 MSD). The recovery of the internal standard chlorobenzene-d5 was recovered outside the established control limits (low) for samples 65 10899160, 65 109232, and 65 109240. Similar recoveries were obtained during the reanalysis of these samples. The recovery of the internal standards 1,4-difluorobenzene and chlorobenzene-d5 were recovered outside the established control limits (low) for samples 65 109267 and 65 109275. Similar recoveries were obtained during the reanalysis of these samples. The probable cause has been attributed to matrix effect. As no quantitations are compromised and the reporting limits are defensible, data are reported.

The recovery of two surrogates in sample 65 109283 were outside the established control limits: Bromofluorobenzene was recovered low and toluene-d8 was recovered high. Similar recoveries were obtained in samples 65 109283 MS and 65 109283 MSD. Bromofluorobenzene was recovered low and 1,2-dichloroethane-d4 was recovered high in samples 65 109232, 65 109240, and 65 109267. Similar recoveries were obtained during the reanalysis of these samples. Bromofluorobenzene was recovered low in sample 65 109275. A similar recovery was obtained during the reanalysis of these samples.

During the analysis of 65 109283 MS and 65 109283 MSD the compounds 1,1 dichloroethylene and trichlorethylene were recovered outside the established control limits (low). The probable cause has been attributed to matrix effect. As no

Mr Ted Redding
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quantitations are compromised and the reporting limits are defensible, data are reported.

TCLP METHOD 8240 VOLATILE ORGANICS

Samples in analytical batch 65 28250 were analyzed for volatile organic compounds by EPA method 8240 after being extracted according to EPA method 1311. The recovery of the surrogate toluene-d8 in sample 65 109410 and the LCS sample was outside the established control limits (high). Sample 65 109410 was chosen as the MS/MSD sample for the analytical batch. The surrogate, bromofluorobenzene, was recovered outside the established control limits (low) in the MSD sample. No target analytes were detected in sample 65 10941. The spike recovery of 1,1-dichloroethylene was recovered outside the laboratory control limits (high) in the MS sample. The spike recovery of trichloroethylene was recovered outside the laboratory established control limits (low) in the MSD sample. The probable cause has been attributed to matrix effect. As no quantitations are compromised and the reporting limits are defensible, data are reported.

METHOD 8270 SEMI-VOLATILE ORGANICS

Samples in analytical batch 65 28357 were analyzed for semi-volatile organics by EPA method 8270. The later eluting internal standards were recovered outside the laboratory established control limits (low) in samples 65 109178, 65 109194, 65 109208, 65 109216, 65 109224, 65 109232, and 65 109240. The probable cause was attributed to matrix effect. All samples except 65 109194, 65 109208, 65 109216, 65 109224, 65 109232, and 65 109259 were diluted due to matrix interference. The reporting limits for all diluted samples were raised accordingly. The method blank demonstrated contamination of di-n-butylphthalate at a level above the reporting limit. Di-n-butylphthalate was not detected in any of the samples. Sample 65 109283 was chosen as the MS/MSD sample for analytical batch 65 28357. The spike recoveries for 4-chloro-3-methylphenol, 2,4-dinitrotoluene, and pentachlorophenol were outside the laboratory established control limits (low) in the MS sample. The spike recoveries for 2,4-dinitrotoluene and pentachlorophenol were outside the laboratory established control limits (low) in the MSD sample. Similar spike recoveries were obtained during the reanalysis of the MS/MSD samples. Precision as measured by the relative percent difference (RPD) was outside the established control limit for pyrene. The probable cause has been attributed to matrix effect. As no quantitations are compromised and the reporting limits are defensible, data are reported.

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TCLP METHOD 8270 SEMI-VOLATILE ORGANICS

Samples in analytical batch 65 28153 were analyzed for semi-volatile organics by EPA method 8270 after being extracted according to EPA method 1311. One surrogate, phenol-d5, was recovered outside the established control limits (low) in sample 65 109410. The probable cause has been attributed to matrix effect. As no quantitations are compromised and the reporting limits are defensible, data are reported.

TCLP METHOD 6010A METALS BY ICP

Samples in analytical batch 65 28255 were analyzed for metals by EPA method 6010A after being extracted according to EPA method 1311. All samples were diluted because of the presence of high quantities of a nontarget compound (Na). The reporting limits were raised accordingly.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely yours,

Kent A. Oakes
Project Manager

Enclosures

SAMPLE 95DDM09061 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109143
Date Collected: 09/06/95
Time Collected: 07:05
Date Received: 09/09/95
Client Sample ID: 95DDM09061

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Parameter	Units	MDL	091395	DATE ANALYZED
Date Analyzed				09/13/95
Chloromethane	ug/L	10	ND	09/13/95
Vinyl chloride	ug/L	10	ND	09/13/95
Bromomethane	ug/L	10	ND	09/13/95
Chloroethane	ug/L	10	ND	09/13/95
1,1-Dichloroethylene	ug/L	5	ND	09/13/95
Acetone	ug/L	10	41	09/13/95
Carbon disulfide	ug/L	5	ND	09/13/95
Methylene chloride	ug/L	5	ND	09/13/95
Trans-1,2-dichloroethylene	ug/L	5	ND	09/13/95
Vinyl acetate	ug/L	10	ND	09/13/95
Cis-1,2-dichloroethylene	ug/L	5	ND	09/13/95
1,1-Dichloroethane	ug/L	5	ND	09/13/95
2-Butanone (MEK)	ug/L	10	22	09/13/95
Chloroform	ug/L	5	ND	09/13/95
1,2-Dichloroethane	ug/L	5	ND	09/13/95
1,1,1-Trichloroethane	ug/L	5	ND	09/13/95
Carbon tetrachloride	ug/L	5	ND	09/13/95
Benzene	ug/L	5	ND	09/13/95
Trichloroethylene	ug/L	5	ND	09/13/95
1,2-Dichloropropane	ug/L	5	ND	09/13/95
Bromodichloromethane	ug/L	5	ND	09/13/95
Cis-1,3-dichloropropene	ug/L	5	ND	09/13/95
Trans-1,3-dichloropropene	ug/L	5	ND	09/13/95
1,1,2-Trichloroethane	ug/L	5	ND	09/13/95
Dibromochloromethane	ug/L	5	ND	09/13/95
Bromoform	ug/L	5	ND	09/13/95
4-Methyl-2-pentanone (MIBK)	ug/L	10	ND	09/13/95
Toluene	ug/L	5	ND	09/13/95
Tetrachloroethylene	ug/L	5	ND	09/13/95
2-Hexanone	ug/L	10	ND	09/13/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109143
Date Collected: 09/06/95
Time Collected: 07:05
Date Received: 09/09/95
Client Sample ID: 95DDM09061

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Chlorobenzene	ug/L	5	ND	09/13/95
Ethyl benzene	ug/L	5	ND	09/13/95
Xylene, total	ug/L	5	ND	09/13/95
Styrene	ug/L	5	ND	09/13/95
1,1,2,2-Tetrachloroethane	ug/L	5	ND	09/13/95
1,2-Dichloroethane-d4	% Recovery		94	09/13/95
Toluene-d8	% Recovery		102	09/13/95
p-Bromofluorobenzene	% Recovery		100	09/13/95

SAMPLE 95DDM09062 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109151
Date Collected: 09/06/95
Time Collected: 07:05
Date Received: 09/09/95
Client Sample ID: 95DDM09062

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Parameter	Units	MDL	DATE ANALYZED
Date Analyzed		091395	09/13/95
Chloromethane	ug/L	10	ND
Vinyl chloride	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
1,1-Dichloroethylene	ug/L	5	ND
Acetone	ug/L	10	44
Carbon disulfide	ug/L	5	ND
Methylene chloride	ug/L	5	ND
Trans-1,2-dichloroethylene	ug/L	5	ND
Vinyl acetate	ug/L	10	ND
Cis-1,2-dichloroethylene	ug/L	5	ND
1,1-Dichloroethane	ug/L	5	ND
2-Butanone (MEK)	ug/L	10	24
Chloroform	ug/L	5	ND
1,2-Dichloroethane	ug/L	5	ND
1,1,1-Trichloroethane	ug/L	5	ND
Carbon tetrachloride	ug/L	5	ND
Benzene	ug/L	5	ND
Trichloroethylene	ug/L	5	ND
1,2-Dichloropropane	ug/L	5	ND
Bromodichloromethane	ug/L	5	ND
Cis-1,3-dichloropropene	ug/L	5	ND
Trans-1,3-dichloropropene	ug/L	5	ND
1,1,2-Trichloroethane	ug/L	5	ND
Dibromochloromethane	ug/L	5	ND
Bromoform	ug/L	5	ND
4-Methyl-2-pentanone (MIBK)	ug/L	10	ND
Toluene	ug/L	5	ND
Tetrachloroethylene	ug/L	5	ND
2-Hexanone	ug/L	10	ND

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109151

Date Collected:

09/06/95

Time Collected:

07:05

Date Received:

09/09/95

Client Sample ID:

95DDM09062

Parameter

Units

MDL

METHOD DATE ANALYZED

ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Chlorobenzene	ug/L	5	ND	09/13/95
Ethyl benzene	ug/L	5	ND	09/13/95
Xylene, total	ug/L	5	ND	09/13/95
Styrene	ug/L	5	ND	09/13/95
1,1,2,2-Tetrachloroethane	ug/L	5	ND	09/13/95
1,2-Dichloroethane-d4	% Recovery		95	09/13/95
Toluene-d8	% Recovery		100	09/13/95
p-Bromofluorobenzene	% Recovery		101	09/13/95

SAMPLE B1216-S1 RESULTS

REPORT OF LABORATORY ANALYSIS

Reynolds Electrical & Engineering Co Inc
P.O. Box 98521
M/S 713
Las Vegas, NV 89193-8521

September 28, 1995
PACE Project Number: D50909501

Attn: Mr. Ted Redding

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109160
Date Collected: 09/06/95
Time Collected: 10:30
Date Received: 09/09/95
B1216-S1

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	200	3400	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Date Analyzed			091295	EPA 8240	09/12/95
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Chloromethane	ug/kg	10	ND		09/12/95
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Vinyl chloride	ug/kg	10	ND		09/12/95
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Bromomethane	ug/kg	10	ND		09/12/95
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Chloroethane	ug/kg	10	ND		09/12/95
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1,1-Dichloroethylene	ug/kg	5	ND		09/12/95
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Acetone	ug/kg	10	ND		09/12/95
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Carbon disulfide	ug/kg	5	ND		09/12/95
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Methylene Chloride	ug/kg	5	ND		09/12/95
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Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
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Vinyl acetate	ug/kg	10	ND		09/12/95
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Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
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1,1-Dichloroethane	ug/kg	5	ND		09/12/95
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2-Butanone (MEK)	ug/kg	10	ND		09/12/95
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Chloroform	ug/kg	5	ND		09/12/95
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1,2-Dichloroethane	ug/kg	5	ND		09/12/95
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1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
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Carbon tetrachloride	ug/kg	5	ND		09/12/95
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Benzene	ug/kg	5	ND		09/12/95
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Trichloroethylene	ug/kg	5	ND		09/12/95
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1,2-Dichloropropane	ug/kg	5	ND		09/12/95
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Bromodichloromethane	ug/kg	5	ND		09/12/95
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Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
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Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95
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1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
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REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109160
Date Collected: 09/06/95
Time Collected: 10:30
Date Received: 09/09/95
Client Sample ID: B1216-S1

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Dibromochloromethane	ug/kg	5	ND	09/12/95
Bromoform	ug/kg	5	ND	09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND	09/12/95
Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95
Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		96	09/12/95
Toluene-d8	% Recovery		117	09/12/95
p-Bromofluorobenzene	% Recovery		87	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted		091295	09/12/95
Grams Extracted - TCLP	g	20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	40	ND HB	09/18/95
Surrogate Recovery	% Recovery		95	09/18/95
Date Extracted			091695	09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		36 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed			092695	09/26/95
Date Extracted			091995	09/19/95
N-nitrosodimethylamine	ug/kg	3300	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109160
Date Collected: 09/06/95
Time Collected: 10:30
Date Received: 09/09/95
Client Sample ID: B1216-S1

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Phenol	ug/kg	3300	ND	09/26/95
2-Chlorophenol	ug/kg	3300	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	3300	ND	09/26/95
1,4-Dichlorobenzene	ug/kg	3300	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	3300	ND	09/26/95
benzyl alcohol	ug/kg	6600	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	3300	ND	09/26/95
2-Methylphenol	ug/kg	3300	ND	09/26/95
Hexachloroethane	ug/kg	3300	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	3300	ND	09/26/95
4-Methylphenol	ug/kg	3300	ND	09/26/95
Nitrobenzene	ug/kg	3300	ND	09/26/95
Isophorone	ug/kg	3300	ND	09/26/95
2-Nitrophenol	ug/kg	3300	ND	09/26/95
2,4-Dimethylphenol	ug/kg	3300	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	3300	ND	09/26/95
2,4-Dichlorophenol	ug/kg	3300	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	3300	ND	09/26/95
Naphthalene	ug/kg	3300	ND	09/26/95
Benzoic acid	ug/kg	16000	ND	09/26/95
4-Chloroaniline	ug/kg	6600	ND	09/26/95
Hexachlorobutadiene	ug/kg	3300	ND	09/26/95
2-Methylnaphthalene	ug/kg	3300	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	6600	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	3300	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	3300	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	3300	ND	09/26/95
2-Chloronaphthalene	ug/kg	3300	ND	09/26/95
2-Nitroaniline	ug/kg	16000	ND	09/26/95
Acenaphthylene	ug/kg	3300	ND	09/26/95
Dimethyl phthalate	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109160
09/06/95
10:30
09/09/95
B1216-S1

Units MDL METHOD DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,6-Dinitrotoluene	ug/kg	3300	ND	09/26/95
Acenaphthene	ug/kg	3300	ND	09/26/95
3-Nitroaniline	ug/kg	16000	ND	09/26/95
2,4-Dinitrophenol	ug/kg	16000	ND	09/26/95
Dibenzofuran	ug/kg	3300	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	3300	ND	09/26/95
4-Nitrophenol	ug/kg	16000	ND	09/26/95
Fluorene	ug/kg	3300	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	3300	ND	09/26/95
Diethyl phthalate	ug/kg	3300	ND	09/26/95
4-Nitroaniline	ug/kg	16000	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	16000	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	3300	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	3300	ND	09/26/95
Hexachlorobenzene	ug/kg	3300	ND	09/26/95
Pentachlorophenol	ug/kg	16000	ND	09/26/95
Phenanthrene	ug/kg	3300	ND	09/26/95
Anthracene	ug/kg	3300	ND	09/26/95
Carbazol	ug/kg	3300	ND	09/26/95
Di-n-butyl phthalate	ug/kg	3300	ND	09/26/95
Fluoranthene	ug/kg	3300	ND	09/26/95
Pyrene	ug/kg	3300	ND	09/26/95
Butyl benzyl phthalate	ug/kg	3300	ND	09/26/95
Benzo(a)anthracene	ug/kg	3300	ND	09/26/95
Chrysene	ug/kg	3300	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	6600	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	3300	ND	09/26/95
Di-n-octyl phthalate	ug/kg	3300	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	3300	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	3300	ND	09/26/95
Benzo(a)pyrene	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109160
09/06/95
10:30
09/09/95
B1216-S1

Units MDL METHOD DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

	Units	MDL		EPA 8270	DATE ANALYZED
Ideno(1,2,3-c,d)pyrene	ug/kg	3300	ND		09/26/95
Dibenz(a,h)anthracene	ug/kg	3300	ND		09/26/95
Benzo(g,h,i)perylene	ug/kg	3300	ND		09/26/95
2-Fluorophenol	% Recovery		58		09/26/95
Phenol-d5	% Recovery		56		09/26/95
Nitrobenzene-d5	% Recovery		52		09/26/95
2-Fluorobiphenyl	% Recovery		61		09/26/95
2,4,6-Tribromophenol	% Recovery		38		09/26/95
Terphenyl-d14	% Recovery		52		09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109291
Date Collected: 09/06/95
Time Collected: 10:30
Date Received: 09/09/95
Client Sample ID: B1216-S1

Parameter	Units	MDL		METHOD	DATE ANALYZED
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.7		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S2 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109178
Date Collected: 09/06/95
Time Collected: 10:50
Date Received: 09/09/95
Client Sample ID: B1216-S2

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	200	6100	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Date Analyzed			091595	EPA 8240	09/15/95
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Chloromethane	ug/kg	10	ND		09/15/95
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Vinyl chloride	ug/kg	10	ND		09/15/95
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Bromomethane	ug/kg	10	ND		09/15/95
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Chloroethane	ug/kg	10	ND		09/15/95
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1,1-Dichloroethylene	ug/kg	5	ND		09/15/95
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Acetone	ug/kg	10	ND		09/15/95
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Carbon disulfide	ug/kg	5	ND		09/15/95
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Methylene Chloride	ug/kg	5	ND		09/15/95
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Trans-1,2-dichloroethylene	ug/kg	5	ND		09/15/95
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Vinyl acetate	ug/kg	10	ND		09/15/95
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Cis-1,2-dichloroethylene	ug/kg	5	ND		09/15/95
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1,1-Dichloroethane	ug/kg	5	ND		09/15/95
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2-Butanone (MEK)	ug/kg	10	ND		09/15/95
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Chloroform	ug/kg	5	ND		09/15/95
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1,2-Dichloroethane	ug/kg	5	ND		09/15/95
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1,1,1-Trichloroethane	ug/kg	5	ND		09/15/95
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Carbon tetrachloride	ug/kg	5	ND		09/15/95
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Benzene	ug/kg	5	ND		09/15/95
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Trichloroethylene	ug/kg	5	ND		09/15/95
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1,2-Dichloropropane	ug/kg	5	ND		09/15/95
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Bromodichloromethane	ug/kg	5	ND		09/15/95
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Cis-1,3-dichloropropene	ug/kg	5	ND		09/15/95
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Trans-1,3-dichloropropene	ug/kg	5	ND		09/15/95
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1,1,2-Trichloroethane	ug/kg	5	ND		09/15/95
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Dibromochloromethane	ug/kg	5	ND		09/15/95
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Bromoform	ug/kg	5	ND		09/15/95
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4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND		09/15/95
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REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D509095C

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109178
Date Collected: 09/06/95
Time Collected: 10:50
Date Received: 09/09/95
Client Sample ID: B1216-S2

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/15/95
Tetrachloroethylene	ug/kg	5	ND	09/15/95
2-Hexanone	ug/kg	10	ND	09/15/95
Chlorobenzene	ug/kg	5	ND	09/15/95
Ethyl benzene	ug/kg	5	ND	09/15/95
Xylenes, (total)	ug/kg	5	ND	09/15/95
Styrene	ug/kg	5	ND	09/15/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/15/95
1,2-Dichloroethane-d4	% Recovery		88	09/15/95
Toluene-d8	% Recovery		103	09/15/95
p-Bromofluorobenzene	% Recovery		85	09/15/95

TCLP EXTRACTION

EPA 1311

Date Extracted		091295	09/12/95
Grams Extracted - TCLP	g	20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	40	ND HB	09/18/95
Surrogate Recovery	% Recovery		87	09/18/95
Date Extracted		091695		09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		19 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed		092695	09/26/95	
Date Extracted		091995	09/19/95	
N-nitrosodimethylamine	ug/kg	3300	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	3300	ND	09/26/95
Phenol	ug/kg	3300	ND	09/26/95
2-Chlorophenol	ug/kg	3300	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109178
Date Collected: 09/06/95
Time Collected: 10:50
Date Received: 09/09/95
Client Sample ID: B1216-S2

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	3300	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	3300	ND	09/26/95
benzyl alcohol	ug/kg	6600	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	3300	ND	09/26/95
2-Methylphenol	ug/kg	3300	ND	09/26/95
Hexachloroethane	ug/kg	3300	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	3300	ND	09/26/95
4-Methylphenol	ug/kg	3300	ND	09/26/95
Nitrobenzene	ug/kg	3300	ND	09/26/95
Isophorone	ug/kg	3300	ND	09/26/95
2-Nitrophenol	ug/kg	3300	ND	09/26/95
2,4-Dimethylphenol	ug/kg	3300	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	3300	ND	09/26/95
2,4-Dichlorophenol	ug/kg	3300	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	3300	ND	09/26/95
Naphthalene	ug/kg	3300	ND	09/26/95
Benzoic acid	ug/kg	16000	ND	09/26/95
4-Chloroaniline	ug/kg	6600	ND	09/26/95
Hexachlorobutadiene	ug/kg	3300	ND	09/26/95
2-Methylnaphthalene	ug/kg	3300	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	6600	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	3300	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	3300	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	3300	ND	09/26/95
2-Chloronaphthalene	ug/kg	3300	ND	09/26/95
2-Nitroaniline	ug/kg	16000	ND	09/26/95
Acenaphthylene	ug/kg	3300	ND	09/26/95
Dimethyl phthalate	ug/kg	3300	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	3300	ND	09/26/95
Acenaphthene	ug/kg	3300	ND	09/26/95
3-Nitroaniline	ug/kg	16000	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109178
Date Collected: 09/06/95
Time Collected: 10:50
Date Received: 09/09/95
Client Sample ID: B1216-S2
Parameter Units MDL METHOD DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	16000	ND	09/26/95
Dibenzofuran	ug/kg	3300	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	3300	ND	09/26/95
4-Nitrophenol	ug/kg	16000	ND	09/26/95
Fluorene	ug/kg	3300	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	3300	ND	09/26/95
Diethyl phthalate	ug/kg	3300	ND	09/26/95
4-Nitroaniline	ug/kg	16000	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	16000	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	3300	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	3300	ND	09/26/95
Hexachlorobenzene	ug/kg	3300	ND	09/26/95
Pentachlorophenol	ug/kg	16000	ND	09/26/95
Phenanthrene	ug/kg	3300	ND	09/26/95
Anthracene	ug/kg	3300	ND	09/26/95
Carbazol	ug/kg	3300	ND	09/26/95
Di-n-butyl phthalate	ug/kg	3300	ND	09/26/95
Fluoranthene	ug/kg	3300	ND	09/26/95
Pyrene	ug/kg	3300	ND	09/26/95
Butyl benzyl phthalate	ug/kg	3300	ND	09/26/95
Benzo(a)anthracene	ug/kg	3300	ND	09/26/95
Chrysene	ug/kg	3300	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	6600	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	3300	ND	09/26/95
Di-n-octyl phthalate	ug/kg	3300	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	3300	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	3300	ND	09/26/95
Benzo(a)pyrene	ug/kg	3300	ND	09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	3300	ND	09/26/95
Dibenz(a,h)anthracene	ug/kg	3300	ND	09/26/95
Benzo(g,h,i)perylene	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109178
Date Collected: 09/06/95
Time Collected: 10:50
Date Received: 09/09/95
Client Sample ID: B1216-S2

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol	% Recovery	53		09/26/95
Phenol-d5	% Recovery	50		09/26/95
Nitrobenzene-d5	% Recovery	49		09/26/95
2-Fluorobiphenyl	% Recovery	61		09/26/95
2,4,6-Tribromophenol	% Recovery	35		09/26/95
Terphenyl-d14	% Recovery	46		09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109305
09/06/95
10:50
09/09/95
B1216-S2

Units MDL METHOD DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.7		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S3 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109186
Date Collected: 09/06/95
Time Collected: 11:40
Date Received: 09/09/95
Client Sample ID: B1216-S3

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	20	830	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Parameter	Units	MDL		METHOD	DATE ANALYZED
Date Analyzed			091295	EPA 8240	09/12/95
Chloromethane	ug/kg	10	ND		09/12/95
Vinyl chloride	ug/kg	10	ND		09/12/95
Bromomethane	ug/kg	10	ND		09/12/95
Chloroethane	ug/kg	10	ND		09/12/95
1,1-Dichloroethylene	ug/kg	5	ND		09/12/95
Acetone	ug/kg	10	ND		09/12/95
Carbon disulfide	ug/kg	5	ND		09/12/95
Methylene Chloride	ug/kg	5	ND		09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
Vinyl acetate	ug/kg	10	ND		09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
1,1-Dichloroethane	ug/kg	5	ND		09/12/95
2-Butanone (MEK)	ug/kg	10	ND		09/12/95
Chloroform	ug/kg	5	ND		09/12/95
1,2-Dichloroethane	ug/kg	5	ND		09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
Carbon tetrachloride	ug/kg	5	ND		09/12/95
Benzene	ug/kg	5	ND		09/12/95
Trichloroethylene	ug/kg	5	ND		09/12/95
1,2-Dichloropropane	ug/kg	5	ND		09/12/95
Bromodichloromethane	ug/kg	5	ND		09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95
1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
Dibromochloromethane	ug/kg	5	ND		09/12/95
Bromoform	ug/kg	5	ND		09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND		09/12/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding

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September 28, 1995

PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109186

Date Collected:

09/06/95

Time Collected:

11:40

Date Received:

09/09/95

Client Sample ID:

B1216-S3

Parameter

Units

MDL

METHOD

DATE ANALYZED

ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95
Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		96	09/12/95
Toluene-d8	% Recovery		116	09/12/95
p-Bromofluorobenzene	% Recovery		90	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted			091295	09/12/95
Grams Extracted - TCLP	g		20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	4	ND HB	09/18/95
Surrogate Recovery	% Recovery		86	09/18/95
Date Extracted			091695	09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		17 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed			092695	09/26/95
Date Extracted			091995	09/19/95
N-nitrosodimethylamine	ug/kg	3300	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	3300	ND	09/26/95
Phenol	ug/kg	3300	ND	09/26/95
2-Chlorophenol	ug/kg	3300	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109186

Date Collected:

09/06/95

Time Collected:

11:40

Date Received:

09/09/95

Client Sample ID:

B1216-S3

Parameter

Units

MDL

METHOD DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	3300	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	3300	ND	09/26/95
benzyl alcohol	ug/kg	6600	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	3300	ND	09/26/95
2-Methylphenol	ug/kg	3300	ND	09/26/95
Hexachloroethane	ug/kg	3300	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	3300	ND	09/26/95
4-Methylphenol	ug/kg	3300	ND	09/26/95
Nitrobenzene	ug/kg	3300	ND	09/26/95
Isophorone	ug/kg	3300	ND	09/26/95
2-Nitrophenol	ug/kg	3300	ND	09/26/95
2,4-Dimethylphenol	ug/kg	3300	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	3300	ND	09/26/95
2,4-Dichlorophenol	ug/kg	3300	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	3300	ND	09/26/95
Naphthalene	ug/kg	3300	ND	09/26/95
Benzoic acid	ug/kg	16000	ND	09/26/95
4-Chloroaniline	ug/kg	6600	ND	09/26/95
Hexachlorobutadiene	ug/kg	3300	ND	09/26/95
2-Methylnaphthalene	ug/kg	3300	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	6600	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	3300	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	3300	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	3300	ND	09/26/95
2-Chloronaphthalene	ug/kg	3300	ND	09/26/95
2-Nitroaniline	ug/kg	16000	ND	09/26/95
Acenaphthylene	ug/kg	3300	ND	09/26/95
Dimethyl phthalate	ug/kg	3300	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	3300	ND	09/26/95
Acenaphthene	ug/kg	3300	ND	09/26/95
3-Nitroaniline	ug/kg	16000	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:

65 0109186
09/06/95
11:40
09/09/95
B1216-S3

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	16000	ND		09/26/95
Dibenzofuran	ug/kg	3300	ND		09/26/95
2,4-Dinitrotoluene	ug/kg	3300	ND		09/26/95
4-Nitrophenol	ug/kg	16000	ND		09/26/95
Fluorene	ug/kg	3300	ND		09/26/95
4-Chlorophenyl phenyl ether	ug/kg	3300	ND		09/26/95
Diethyl phthalate	ug/kg	3300	ND		09/26/95
4-Nitroaniline	ug/kg	16000	ND		09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	16000	ND		09/26/95
N-nitrosodiphenylamine	ug/kg	3300	ND		09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	3300	ND		09/26/95
Hexachlorobenzene	ug/kg	3300	ND		09/26/95
Pentachlorophenol	ug/kg	16000	ND		09/26/95
Phenanthrene	ug/kg	3300	ND		09/26/95
Anthracene	ug/kg	3300	ND		09/26/95
Carbazol	ug/kg	3300	ND		09/26/95
Di-n-butyl phthalate	ug/kg	3300	ND		09/26/95
Fluoranthene	ug/kg	3300	ND		09/26/95
Pyrene	ug/kg	3300	ND		09/26/95
Butyl benzyl phthalate	ug/kg	3300	ND		09/26/95
Benzo(a)anthracene	ug/kg	3300	ND		09/26/95
Chrysene	ug/kg	3300	ND		09/26/95
3,3-Dichlorobenzidine	ug/kg	6600	ND		09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	3300	ND		09/26/95
Di-n-octyl phthalate	ug/kg	3300	ND		09/26/95
Benzo(b)fluoranthene	ug/kg	3300	ND		09/26/95
Benzo(k)fluoranthene	ug/kg	3300	ND		09/26/95
Benzo(a)pyrene	ug/kg	3300	ND		09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	3300	ND		09/26/95
Dibenz(a,h)anthracene	ug/kg	3300	ND		09/26/95
Benzo(g,h,i)perylene	ug/kg	3300	ND		09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109186
Date Collected: 09/06/95
Time Collected: 11:40
Date Received: 09/09/95
Client Sample ID: B1216-S3

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol	% Recovery	59		09/26/95
Phenol-d5	% Recovery	56		09/26/95
Nitrobenzene-d5	% Recovery	54		09/26/95
2-Fluorobiphenyl	% Recovery	62		09/26/95
2,4,6-Tribromophenol	% Recovery	39		09/26/95
Terphenyl-d14	% Recovery	50		09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109313
Date Collected: 09/06/95
Time Collected: 11:40
Date Received: 09/09/95
Client Sample ID: B1216-S3

Parameter	Units	MDI		METHOD	DATE ANALYZED
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.6		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S4 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109194
Date Collected: 09/06/95
Time Collected: 11:45
Date Received: 09/09/95
Client Sample ID: B1216-S4

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	20	ND	8015	09/17/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Date Analyzed			091295	EPA 8240	09/12/95
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Chloromethane	ug/kg	10	ND		09/12/95
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Vinyl chloride	ug/kg	10	ND		09/12/95
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Bromomethane	ug/kg	10	ND		09/12/95
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Chloroethane	ug/kg	10	ND		09/12/95
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1,1-Dichloroethylene	ug/kg	5	ND		09/12/95
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Acetone	ug/kg	10	22		09/12/95
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Carbon disulfide	ug/kg	5	ND		09/12/95
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Methylene Chloride	ug/kg	5	6		09/12/95
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Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
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Vinyl acetate	ug/kg	10	ND		09/12/95
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Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
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1,1-Dichloroethane	ug/kg	5	ND		09/12/95
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2-Butanone (MEK)	ug/kg	10	ND		09/12/95
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Chloroform	ug/kg	5	ND		09/12/95
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1,2-Dichloroethane	ug/kg	5	ND		09/12/95
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1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
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Carbon tetrachloride	ug/kg	5	ND		09/12/95
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Benzene	ug/kg	5	ND		09/12/95
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Trichloroethylene	ug/kg	5	ND		09/12/95
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1,2-Dichloropropane	ug/kg	5	ND		09/12/95
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Bromodichloromethane	ug/kg	5	ND		09/12/95
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Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
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Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95
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1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
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Dibromochloromethane	ug/kg	5	ND		09/12/95
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Bromoform	ug/kg	5	ND		09/12/95
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4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND		09/12/95
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REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109194
Date Collected: 09/06/95
Time Collected: 11:45
Date Received: 09/09/95
Client Sample ID: B1216-S4

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95

Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		94	09/12/95
Toluene-d8	% Recovery		101	09/12/95
p-Bromofluorobenzene	% Recovery		96	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted		091295	09/12/95
Grams Extracted - TCLP	g	20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	4	ND	09/17/95
Surrogate Recovery	% Recovery		87	09/17/95
Date Extracted		091695		09/17/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		85	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed		092695	09/26/95	
Date Extracted		091995	09/19/95	
N-nitrosodimethylamine	ug/kg	330	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	330	ND	09/26/95
Phenol	ug/kg	330	ND	09/26/95
2-Chlorophenol	ug/kg	330	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:

65 0109194
09/06/95
11:45
09/09/95
B1216-S4

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	330	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	330	ND	09/26/95
benzyl alcohol	ug/kg	660	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	330	ND	09/26/95
2-Methylphenol	ug/kg	330	ND	09/26/95
Hexachloroethane	ug/kg	330	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	330	ND	09/26/95
4-Methylphenol	ug/kg	330	ND	09/26/95
Nitrobenzene	ug/kg	330	ND	09/26/95
Isophorone	ug/kg	330	ND	09/26/95
2-Nitrophenol	ug/kg	330	ND	09/26/95
2,4-Dimethylphenol	ug/kg	330	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	330	ND	09/26/95
2,4-Dichlorophenol	ug/kg	330	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	330	ND	09/26/95
Naphthalene	ug/kg	330	ND	09/26/95
Benzoic acid	ug/kg	1600	ND	09/26/95
4-Chloroaniline	ug/kg	660	ND	09/26/95
Hexachlorobutadiene	ug/kg	330	ND	09/26/95
2-Methylnaphthalene	ug/kg	330	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	660	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	330	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	330	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	330	ND	09/26/95
2-Chloronaphthalene	ug/kg	330	ND	09/26/95
2-Nitroaniline	ug/kg	1600	ND	09/26/95
Acenaphthylene	ug/kg	330	ND	09/26/95
Dimethyl phthalate	ug/kg	330	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	330	ND	09/26/95
Acenaphthene	ug/kg	330	ND	09/26/95
3-Nitroaniline	ug/kg	1600	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109194
Date Collected: 09/06/95
Time Collected: 11:45
Date Received: 09/09/95
Client Sample ID: B1216-S4

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	1600	ND	09/26/95
Dibenzofuran	ug/kg	330	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	330	ND	09/26/95
4-Nitrophenol	ug/kg	1600	ND	09/26/95
Fluorene	ug/kg	330	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	330	ND	09/26/95
Diethyl phthalate	ug/kg	330	ND	09/26/95
4-Nitroaniline	ug/kg	1600	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	1600	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	330	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	330	ND	09/26/95
Hexachlorobenzene	ug/kg	330	ND	09/26/95
Pentachlorophenol	ug/kg	1600	ND	09/26/95
Phenanthrene	ug/kg	330	ND	09/26/95
Anthracene	ug/kg	330	ND	09/26/95
Carbazol	ug/kg	330	ND	09/26/95
Di-n-butyl phthalate	ug/kg	330	ND	09/26/95
Fluoranthene	ug/kg	330	ND	09/26/95
Pyrene	ug/kg	330	ND	09/26/95
Butyl benzyl phthalate	ug/kg	330	ND	09/26/95
Benzo(a)anthracene	ug/kg	330	ND	09/26/95
Chrysene	ug/kg	330	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	660	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	330	ND	09/26/95
Di-n-octyl phthalate	ug/kg	330	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(a)pyrene	ug/kg	330	ND	09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	330	ND	09/26/95
Dibenz(a,h)anthracene	ug/kg	330	ND	09/26/95
Benzo(g,h,i)perylene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109194
Date Collected: 09/06/95
Time Collected: 11:45
Date Received: 09/09/95
Client Sample ID: B1216-S4

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol	% Recovery	56		09/26/95
Phenol-d5	% Recovery	61		09/26/95
Nitrobenzene-d5	% Recovery	54		09/26/95
2-Fluorobiphenyl	% Recovery	69		09/26/95
2,4,6-Tribromophenol	% Recovery	42		09/26/95
Terphenyl-d14	% Recovery	72		09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding

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September 25, 1995

PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109321

Date Collected:

09/06/95

Time Collected:

11:45

Date Received:

09/09/95

Client Sample ID:

B1216-S4

Parameter

Units

MDL

METHOD

DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury

ug/L

0.50

ND

7470

09/21/95

Metals Prep: ICP (SW846)

092195

09/21/95

METALS: TCLP

Arsenic

mg/L

0.5

ND

09/22/95

Barium

mg/L

0.05

2.2

09/22/95

Cadmium

mg/L

0.05

ND

09/22/95

Chromium

mg/L

0.1

ND

09/22/95

Lead

mg/L

0.5

ND

09/22/95

Selenium

mg/L

0.5

ND

09/22/95

Silver

mg/L

0.1

ND

09/22/95

SAMPLE B1216-S5 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109208
Date Collected: 09/06/95
Time Collected: 11:40
Date Received: 09/09/95
Client Sample ID: B1216-S5

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	20	90	8015	09/17/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Parameter	Units	MDL	METHOD	DATE ANALYZED
Date Analyzed			091295	09/12/95
Chloromethane	ug/kg	10	ND	09/12/95
Vinyl chloride	ug/kg	10	ND	09/12/95
Bromomethane	ug/kg	10	ND	09/12/95
Chloroethane	ug/kg	10	ND	09/12/95
1,1-Dichloroethylene	ug/kg	5	ND	09/12/95
Acetone	ug/kg	10	ND	09/12/95
Carbon disulfide	ug/kg	5	ND	09/12/95
Methylene Chloride	ug/kg	5	ND	09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND	09/12/95
Vinyl acetate	ug/kg	10	ND	09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND	09/12/95
1,1-Dichloroethane	ug/kg	5	ND	09/12/95
2-Butanone (MEK)	ug/kg	10	ND	09/12/95
Chloroform	ug/kg	5	ND	09/12/95
1,2-Dichloroethane	ug/kg	5	ND	09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND	09/12/95
Carbon tetrachloride	ug/kg	5	ND	09/12/95
Benzene	ug/kg	5	ND	09/12/95
Trichloroethylene	ug/kg	5	ND	09/12/95
1,2-Dichloropropane	ug/kg	5	ND	09/12/95
Bromodichloromethane	ug/kg	5	ND	09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND	09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND	09/12/95
1,1,2-Trichloroethane	ug/kg	5	ND	09/12/95
Dibromochloromethane	ug/kg	5	ND	09/12/95
Bromoform	ug/kg	5	ND	09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND	09/12/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109208

Date Collected:

09/06/95

Time Collected:

11:40

Date Received:

09/09/95

Client Sample ID:

B1216-S5

Parameter

Units

MDL

METHOD DATE ANALYZED

ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95
Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		94	09/12/95
Toluene-d8	% Recovery		100	09/12/95
p-Bromofluorobenzene	% Recovery		94	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted			091295	09/12/95
Grams Extracted - TCLP	g		20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	4	ND HB	09/17/95
Surrogate Recovery	% Recovery		89	09/17/95
Date Extracted			091695	09/17/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		77 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed			092695	09/26/95
Date Extracted			091995	09/19/95
N-nitrosodimethylamine	ug/kg	330	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	330	ND	09/26/95
Phenol	ug/kg	330	ND	09/26/95
2-Chlorophenol	ug/kg	330	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109208
Date Collected: 09/06/95
Time Collected: 11:40
Date Received: 09/09/95
Client Sample ID: B1216-S5

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	330	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	330	ND	09/26/95
benzyl alcohol	ug/kg	660	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	330	ND	09/26/95
2-Methylphenol	ug/kg	330	ND	09/26/95
Hexachloroethane	ug/kg	330	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	330	ND	09/26/95
4-Methylphenol	ug/kg	330	ND	09/26/95
Nitrobenzene	ug/kg	330	ND	09/26/95
Isophorone	ug/kg	330	ND	09/26/95
2-Nitrophenol	ug/kg	330	ND	09/26/95
2,4-Dimethylphenol	ug/kg	330	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	330	ND	09/26/95
2,4-Dichlorophenol	ug/kg	330	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	330	ND	09/26/95
Naphthalene	ug/kg	330	ND	09/26/95
Benzoic acid	ug/kg	1600	ND	09/26/95
4-Chloroaniline	ug/kg	660	ND	09/26/95
Hexachlorobutadiene	ug/kg	330	ND	09/26/95
2-Methylnaphthalene	ug/kg	330	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	660	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	330	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	330	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	330	ND	09/26/95
2-Chloronaphthalene	ug/kg	330	ND	09/26/95
2-Nitroaniline	ug/kg	1600	ND	09/26/95
Acenaphthylene	ug/kg	330	ND	09/26/95
Dimethyl phthalate	ug/kg	330	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	330	ND	09/26/95
Acenaphthene	ug/kg	330	ND	09/26/95
3-Nitroaniline	ug/kg	1600	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:

65 0109208
09/06/95
11:40
09/09/95
B1216-S5

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	1600	ND	09/26/95
Dibenzofuran	ug/kg	330	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	330	ND	09/26/95
4-Nitrophenol	ug/kg	1600	ND	09/26/95
Fluorene	ug/kg	330	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	330	ND	09/26/95
Diethyl phthalate	ug/kg	330	ND	09/26/95
4-Nitroaniline	ug/kg	1600	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	1600	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	330	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	330	ND	09/26/95
Hexachlorobenzene	ug/kg	330	ND	09/26/95
Pentachlorophenol	ug/kg	1600	ND	09/26/95
Phenanthrene	ug/kg	330	ND	09/26/95
Anthracene	ug/kg	330	ND	09/26/95
Carbazol	ug/kg	330	ND	09/26/95
Di-n-butyl phthalate	ug/kg	330	ND	09/26/95
Fluoranthene	ug/kg	330	ND	09/26/95
Pyrene	ug/kg	330	ND	09/26/95
Butyl benzyl phthalate	ug/kg	330	ND	09/26/95
Benzo(a)anthracene	ug/kg	330	ND	09/26/95
Chrysene	ug/kg	330	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	660	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	330	ND	09/26/95
Di-n-octyl phthalate	ug/kg	330	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(a)pyrene	ug/kg	330	ND	09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	330	ND	09/26/95
Dibenz(a,h)anthracene	ug/kg	330	ND	09/26/95
Benzo(g,h,i)perylene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109208

Date Collected:

09/06/95

Time Collected:

11:40

Date Received:

09/09/95

Client Sample ID:

B1216-S5

Parameter

Units

MDL

METHOD DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol

% Recovery

63

09/26/95

Phenol-d5

% Recovery

67

09/26/95

Nitrobenzene-d5

% Recovery

57

09/26/95

2-Fluorobiphenyl

% Recovery

75

09/26/95

2,4,6-Tribromophenol

% Recovery

43

09/26/95

Terphenyl-d14

% Recovery

81

09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109330
Date Collected: 09/06/95
Time Collected: 11:40
Date Received: 09/09/95
Client Sample ID: B1216-S5

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	2.3		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S6 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109216
Date Collected: 09/06/95
Time Collected: 12:15
Date Received: 09/09/95
Client Sample ID: B1216-S6

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	20	490	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Date Analyzed			091295		09/12/95
Chloromethane	ug/kg	10	ND		09/12/95
Vinyl chloride	ug/kg	10	ND		09/12/95
Bromomethane	ug/kg	10	ND		09/12/95
Chloroethane	ug/kg	10	ND		09/12/95
1,1-Dichloroethylene	ug/kg	5	ND		09/12/95
Acetone	ug/kg	10	ND		09/12/95
Carbon disulfide	ug/kg	5	ND		09/12/95
Methylene Chloride	ug/kg	5	ND		09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
Vinyl acetate	ug/kg	10	ND		09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
1,1-Dichloroethane	ug/kg	5	ND		09/12/95
2-Butanone (MEK)	ug/kg	10	ND		09/12/95
Chloroform	ug/kg	5	ND		09/12/95
1,2-Dichloroethane	ug/kg	5	ND		09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
Carbon tetrachloride	ug/kg	5	ND		09/12/95
Benzene	ug/kg	5	ND		09/12/95
Trichloroethylene	ug/kg	5	ND		09/12/95
1,2-Dichloropropane	ug/kg	5	ND		09/12/95
Bromodichloromethane	ug/kg	5	ND		09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95
1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
Dibromochloromethane	ug/kg	5	ND		09/12/95
Bromoform	ug/kg	5	ND		09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND		09/12/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D509095C

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109216
Date Collected: 09/06/95
Time Collected: 12:15
Date Received: 09/09/95
Client Sample ID: B1216-S6

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95

Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		91	09/12/95
Toluene-d8	% Recovery		107	09/12/95
p-Bromofluorobenzene	% Recovery		86	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted		091295	09/12/95
Grams Extracted - TCLP	g	20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	4	ND HB	09/18/95
Surrogate Recovery	% Recovery		88	09/18/95
Date Extracted			091695	09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		55 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed			092695	09/26/95
Date Extracted			091995	09/19/95
N-nitrosodimethylamine	ug/kg	330	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	330	ND	09/26/95
Phenol	ug/kg	330	ND	09/26/95
2-Chlorophenol	ug/kg	330	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109216
Date Collected: 09/06/95
Time Collected: 12:15
Date Received: 09/09/95
Client Sample ID: B1216-S6

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	330	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	330	ND	09/26/95
benzyl alcohol	ug/kg	660	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	330	ND	09/26/95
2-Methylphenol	ug/kg	330	ND	09/26/95
Hexachloroethane	ug/kg	330	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	330	ND	09/26/95
4-Methylphenol	ug/kg	330	ND	09/26/95
Nitrobenzene	ug/kg	330	ND	09/26/95
Isophorone	ug/kg	330	ND	09/26/95
2-Nitrophenol	ug/kg	330	ND	09/26/95
2,4-Dimethylphenol	ug/kg	330	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	330	ND	09/26/95
2,4-Dichlorophenol	ug/kg	330	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	330	ND	09/26/95
Naphthalene	ug/kg	330	ND	09/26/95
Benzoic acid	ug/kg	1600	ND	09/26/95
4-Chloroaniline	ug/kg	660	ND	09/26/95
Hexachlorobutadiene	ug/kg	330	ND	09/26/95
2-Methylnaphthalene	ug/kg	330	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	660	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	330	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	330	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	330	ND	09/26/95
2-Chloronaphthalene	ug/kg	330	ND	09/26/95
2-Nitroaniline	ug/kg	1600	ND	09/26/95
Acenaphthylene	ug/kg	330	ND	09/26/95
Dimethyl phthalate	ug/kg	330	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	330	ND	09/26/95
Acenaphthene	ug/kg	330	ND	09/26/95
3-Nitroaniline	ug/kg	1600	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109216
Date Collected: 09/06/95
Time Collected: 12:15
Date Received: 09/09/95
Client Sample ID: B1216-S6

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	1600	ND	09/26/95
Dibenzofuran	ug/kg	330	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	330	ND	09/26/95
4-Nitrophenol	ug/kg	1600	ND	09/26/95
Fluorene	ug/kg	330	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	330	ND	09/26/95
Diethyl phthalate	ug/kg	330	ND	09/26/95
4-Nitroaniline	ug/kg	1600	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	1600	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	330	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	330	ND	09/26/95
Hexachlorobenzene	ug/kg	330	ND	09/26/95
Pentachlorophenol	ug/kg	1600	ND	09/26/95
Phenanthrene	ug/kg	330	ND	09/26/95
Anthracene	ug/kg	330	ND	09/26/95
Carbazol	ug/kg	330	ND	09/26/95
Di-n-butyl phthalate	ug/kg	330	ND	09/26/95
Fluoranthene	ug/kg	330	ND	09/26/95
Pyrene	ug/kg	330	ND	09/26/95
Butyl benzyl phthalate	ug/kg	330	ND	09/26/95
Benzo(a)anthracene	ug/kg	330	ND	09/26/95
Chrysene	ug/kg	330	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	660	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	330	ND	09/26/95
Di-n-octyl phthalate	ug/kg	330	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(a)pyrene	ug/kg	330	ND	09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	330	ND	09/26/95
Dibenz(a,h)anthracene	ug/kg	330	ND	09/26/95
Benzo(g,h,i)perylene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:

65 0109216
09/06/95
12:15
09/09/95
B1216-S6

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol	% Recovery	60		09/26/95
Phenol-d5	% Recovery	62		09/26/95
Nitrobenzene-d5	% Recovery	59		09/26/95
2-Fluorobiphenyl	% Recovery	75		09/26/95
2,4,6-Tribromophenol	% Recovery	43		09/26/95
Terphenyl-d14	% Recovery	62		09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109348
09/06/95
12:15
09/09/95
B1216-S6

Units MDL METHOD DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.9		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S7 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109224
Date Collected: 09/06/95
Time Collected: 12:20
Date Received: 09/09/95
Client Sample ID: B1216-S7

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	20	84	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Date Analyzed	091295	09/12/95
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Chloromethane	ug/kg	10	ND	09/12/95
Vinyl chloride	ug/kg	10	ND	09/12/95
Bromomethane	ug/kg	10	ND	09/12/95
Chloroethane	ug/kg	10	ND	09/12/95
1,1-Dichloroethylene	ug/kg	5	ND	09/12/95

Acetone	ug/kg	10	ND	09/12/95
Carbon disulfide	ug/kg	5	ND	09/12/95
Methylene Chloride	ug/kg	5	ND	09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND	09/12/95
Vinyl acetate	ug/kg	10	ND	09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND	09/12/95

1,1-Dichloroethane	ug/kg	5	ND	09/12/95
2-Butanone (MEK)	ug/kg	10	ND	09/12/95
Chloroform	ug/kg	5	ND	09/12/95
1,2-Dichloroethane	ug/kg	5	ND	09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND	09/12/95
Carbon tetrachloride	ug/kg	5	ND	09/12/95

Benzene	ug/kg	5	ND	09/12/95
Trichloroethylene	ug/kg	5	ND	09/12/95
1,2-Dichloropropane	ug/kg	5	ND	09/12/95
Bromodichloromethane	ug/kg	5	ND	09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND	09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND	09/12/95

1,1,2-Trichloroethane	ug/kg	5	ND	09/12/95
Dibromochloromethane	ug/kg	5	ND	09/12/95
Bromoform	ug/kg	5	ND	09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND	09/12/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:

65 0109224
09/06/95
12:20
09/09/95
B1216-S7

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95
Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		95	09/12/95
Toluene-d8	% Recovery		108	09/12/95
p-Bromofluorobenzene	% Recovery		85	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted		091295	09/12/95
Grams Extracted - TCLP	g	20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	4	ND HB	09/18/95
Surrogate Recovery	% Recovery		80	09/18/95
Date Extracted			091695	09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		52 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed			092695	09/26/95
Date Extracted			091995	09/19/95
N-nitrosodimethylamine	ug/kg	330	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	330	ND	09/26/95
Phenol	ug/kg	330	ND	09/26/95
2-Chlorophenol	ug/kg	330	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109224
Date Collected: 09/06/95
Time Collected: 12:20
Date Received: 09/09/95
Client Sample ID: B1216-S7

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	330	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	330	ND	09/26/95
benzyl alcohol	ug/kg	660	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	330	ND	09/26/95
2-Methylphenol	ug/kg	330	ND	09/26/95
Hexachloroethane	ug/kg	330	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	330	ND	09/26/95
4-Methylphenol	ug/kg	330	ND	09/26/95
Nitrobenzene	ug/kg	330	ND	09/26/95
Isophorone	ug/kg	330	ND	09/26/95
2-Nitrophenol	ug/kg	330	ND	09/26/95
2,4-Dimethylphenol	ug/kg	330	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	330	ND	09/26/95
2,4-Dichlorophenol	ug/kg	330	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	330	ND	09/26/95
Naphthalene	ug/kg	330	ND	09/26/95
Benzoic acid	ug/kg	1600	ND	09/26/95
4-Chloroaniline	ug/kg	660	ND	09/26/95
Hexachlorobutadiene	ug/kg	330	ND	09/26/95
2-Methylnaphthalene	ug/kg	330	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	660	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	330	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	330	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	330	ND	09/26/95
2-Chloronaphthalene	ug/kg	330	ND	09/26/95
2-Nitroaniline	ug/kg	1600	ND	09/26/95
Acenaphthylene	ug/kg	330	ND	09/26/95
Dimethyl phthalate	ug/kg	330	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	330	ND	09/26/95
Acenaphthene	ug/kg	330	ND	09/26/95
3-Nitroaniline	ug/kg	1600	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109224
09/06/95
12:20
09/09/95
B1216-S7

Units MDL METHOD DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	1600	ND	09/26/95
Dibenzofuran	ug/kg	330	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	330	ND	09/26/95
4-Nitrophenol	ug/kg	1600	ND	09/26/95
Fluorene	ug/kg	330	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	330	ND	09/26/95
Diethyl phthalate	ug/kg	330	ND	09/26/95
4-Nitroaniline	ug/kg	1600	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	1600	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	330	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	330	ND	09/26/95
Hexachlorobenzene	ug/kg	330	ND	09/26/95
Pentachlorophenol	ug/kg	1600	ND	09/26/95
Phenanthrene	ug/kg	330	ND	09/26/95
Anthracene	ug/kg	330	ND	09/26/95
Carbazol	ug/kg	330	ND	09/26/95
Di-n-butyl phthalate	ug/kg	330	ND	09/26/95
Fluoranthene	ug/kg	330	ND	09/26/95
Pyrene	ug/kg	330	ND	09/26/95
Butyl benzyl phthalate	ug/kg	330	ND	09/26/95
Benzo(a)anthracene	ug/kg	330	ND	09/26/95
Chrysene	ug/kg	330	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	660	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	330	ND	09/26/95
Di-n-octyl phthalate	ug/kg	330	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(a)pyrene	ug/kg	330	ND	09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	330	ND	09/26/95
Dibenz(a,h)anthracene	ug/kg	330	ND	09/26/95
Benzo(g,h,i)perylene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109224
Date Collected: 09/06/95
Time Collected: 12:20
Date Received: 09/09/95
Client Sample ID: B1216-S7

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol	% Recovery	61		09/26/95
Phenol-d5	% Recovery	64		09/26/95
Nitrobenzene-d5	% Recovery	56		09/26/95
2-Fluorobiphenyl	% Recovery	74		09/26/95
2,4,6-Tribromophenol	% Recovery	46		09/26/95
Terphenyl-d14	% Recovery	68		09/26/95

REPORT OF LABORATORY ANALYSIS

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September 25, 1995
PACE Project Number: D509095C

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109356

Date Collected:

09/06/95

Time Collected:

12:20

Date Received:

09/09/95

Client Sample ID:

B1216-S7

Parameter

Units

MDI

METHOD DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.1		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S8 RESULTS

REPORT OF LABORATORY ANALYSIS

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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109232
Date Collected: 09/06/95
Time Collected: 12:50
Date Received: 09/09/95
Client Sample ID: B1216-S8

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	20	1300	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Date Analyzed				EPA 8240	
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Chloromethane	ug/kg	10	ND		09/12/95
Vinyl chloride	ug/kg	10	ND		09/12/95
Bromomethane	ug/kg	10	ND		09/12/95
Chloroethane	ug/kg	10	ND		09/12/95
1,1-Dichloroethylene	ug/kg	5	ND		09/12/95

Acetone	ug/kg	10	ND		09/12/95
Carbon disulfide	ug/kg	5	ND		09/12/95
Methylene Chloride	ug/kg	5	ND		09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
Vinyl acetate	ug/kg	10	ND		09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95

1,1-Dichloroethane	ug/kg	5	ND		09/12/95
2-Butanone (MEK)	ug/kg	10	ND		09/12/95
Chloroform	ug/kg	5	ND		09/12/95
1,2-Dichloroethane	ug/kg	5	ND		09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
Carbon tetrachloride	ug/kg	5	ND		09/12/95

Benzene	ug/kg	5	ND		09/12/95
Trichloroethylene	ug/kg	5	ND		09/12/95
1,2-Dichloropropane	ug/kg	5	ND		09/12/95
Bromodichloromethane	ug/kg	5	ND		09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95

1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
Dibromochloromethane	ug/kg	5	ND		09/12/95
Bromoform	ug/kg	5	ND		09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND		09/12/95

REPORT OF LABORATORY ANALYSIS

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September 28, 1995
PACE Project Number: D509095C

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109232
Date Collected: 09/06/95
Time Collected: 12:50
Date Received: 09/09/95
Client Sample ID: B1216-S8

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95

Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		92	09/12/95
Toluene-d8	% Recovery		118 T1	09/12/95
p-Bromofluorobenzene	% Recovery		76 T1	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted			091295	09/12/95
Grams Extracted - TCLP	g		20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	4	ND HB	09/18/95
Surrogate Recovery	% Recovery		89	09/18/95
Date Extracted			091695	09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		33 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed			092695	09/26/95
Date Extracted			091995	09/19/95
N-nitrosodimethylamine	ug/kg	330	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	330	ND	09/26/95
Phenol	ug/kg	330	ND	09/26/95
2-Chlorophenol	ug/kg	330	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109232
Date Collected: 09/06/95
Time Collected: 12:50
Date Received: 09/09/95
Client Sample ID: B1216-S8

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	330	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	330	ND	09/26/95
benzyl alcohol	ug/kg	660	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	330	ND	09/26/95
2-Methylphenol	ug/kg	330	ND	09/26/95
Hexachloroethane	ug/kg	330	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	330	ND	09/26/95
4-Methylphenol	ug/kg	330	ND	09/26/95
Nitrobenzene	ug/kg	330	ND	09/26/95
Isophorone	ug/kg	330	ND	09/26/95
2-Nitrophenol	ug/kg	330	ND	09/26/95
2,4-Dimethylphenol	ug/kg	330	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	330	ND	09/26/95
2,4-Dichlorophenol	ug/kg	330	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	330	ND	09/26/95
Naphthalene	ug/kg	330	ND	09/26/95
Benzoic acid	ug/kg	1600	ND	09/26/95
4-Chloroaniline	ug/kg	660	ND	09/26/95
Hexachlorobutadiene	ug/kg	330	ND	09/26/95
2-Methylnaphthalene	ug/kg	330	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	660	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	330	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	330	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	330	ND	09/26/95
2-Chloronaphthalene	ug/kg	330	ND	09/26/95
2-Nitroaniline	ug/kg	1600	ND	09/26/95
Acenaphthylene	ug/kg	330	ND	09/26/95
Dimethyl phthalate	ug/kg	330	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	330	ND	09/26/95
Acenaphthene	ug/kg	330	ND	09/26/95
3-Nitroaniline	ug/kg	1600	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109232
09/06/95
12:50
09/09/95
B1216-S8

Units MDL METHOD DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	1600	ND	09/26/95
Dibenzofuran	ug/kg	330	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	330	ND	09/26/95
4-Nitrophenol	ug/kg	1600	ND	09/26/95
Fluorene	ug/kg	330	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	330	ND	09/26/95
Diethyl phthalate	ug/kg	330	ND	09/26/95
4-Nitroaniline	ug/kg	1600	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	1600	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	330	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	330	ND	09/26/95
Hexachlorobenzene	ug/kg	330	ND	09/26/95
Pentachlorophenol	ug/kg	1600	ND	09/26/95
Phenanthrene	ug/kg	330	ND	09/26/95
Anthracene	ug/kg	330	ND	09/26/95
Carbazol	ug/kg	330	ND	09/26/95
Di-n-butyl phthalate	ug/kg	330	ND	09/26/95
Fluoranthene	ug/kg	330	ND	09/26/95
Pyrene	ug/kg	330	ND	09/26/95
Butyl benzyl phthalate	ug/kg	330	ND	09/26/95
Benzo(a)anthracene	ug/kg	330	ND	09/26/95
Chrysene	ug/kg	330	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	660	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	330	ND	09/26/95
Di-n-octyl phthalate	ug/kg	330	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	330	ND	09/26/95
Benzo(a)pyrene	ug/kg	330	ND	09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	330	ND	09/26/95
Dibenz(a,h)anthracene	ug/kg	330	ND	09/26/95
Benzo(g,h,i)perylene	ug/kg	330	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: .65 0109232
Date Collected: 09/06/95
Time Collected: 12:50
Date Received: 09/09/95
Client Sample ID: B1216-S8

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol	% Recovery	65		09/26/95
Phenol-d5	% Recovery	63		09/26/95
Nitrobenzene-d5	% Recovery	64		09/26/95
2-Fluorobiphenyl	% Recovery	82		09/26/95
2,4,6-Tribromophenol	% Recovery	41		09/26/95
Terphenyl-d14	% Recovery	63		09/26/95

REPORT OF LABORATORY ANALYSIS

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September 25, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109364
09/06/95
12:50
09/09/95
B1216-S8

Units MDI METHOD DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.7		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S9 RESULTS

REPORT OF LABORATORY ANALYSIS

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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109240
Date Collected: 09/06/95
Time Collected: 12:30
Date Received: 09/09/95
Client Sample ID: B1216-S9

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	200	4800	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Date Analyzed	Units	MDL	METHOD	DATE ANALYZED
Chloromethane	ug/kg	10	091295	09/12/95
Vinyl chloride	ug/kg	10	ND	09/12/95
Bromomethane	ug/kg	10	ND	09/12/95
Chloroethane	ug/kg	10	ND	09/12/95
1,1-Dichloroethylene	ug/kg	5	ND	09/12/95
Acetone	ug/kg	10	42	09/12/95
Carbon disulfide	ug/kg	5	ND	09/12/95
Methylene Chloride	ug/kg	5	ND	09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND	09/12/95
Vinyl acetate	ug/kg	10	ND	09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND	09/12/95
1,1-Dichloroethane	ug/kg	5	ND	09/12/95
2-Butanone (MEK)	ug/kg	10	20	09/12/95
Chloroform	ug/kg	5	ND	09/12/95
1,2-Dichloroethane	ug/kg	5	ND	09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND	09/12/95
Carbon tetrachloride	ug/kg	5	ND	09/12/95
Benzene	ug/kg	5	ND	09/12/95
Trichloroethylene	ug/kg	5	ND	09/12/95
1,2-Dichloropropane	ug/kg	5	ND	09/12/95
Bromodichloromethane	ug/kg	5	ND	09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND	09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND	09/12/95
1,1,2-Trichloroethane	ug/kg	5	ND	09/12/95
Dibromochloromethane	ug/kg	5	ND	09/12/95
Bromoform	ug/kg	5	ND	09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	10	09/12/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109240
Date Collected: 09/06/95
Time Collected: 12:30
Date Received: 09/09/95
Client Sample ID: B1216-S9

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	12	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95
Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		99	09/12/95
Toluene-d8	% Recovery		134 T1	09/12/95
p-Bromofluorobenzene	% Recovery		81 T1	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted			091295	09/12/95
Grams Extracted - TCLP	g		20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	40	ND HB	09/18/95
Surrogate Recovery	% Recovery		84	09/18/95
Date Extracted			091695	09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		40 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed			092695	09/26/95
Date Extracted			091995	09/19/95
N-nitrosodimethylamine	ug/kg	3300	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	3300	ND	09/26/95
Phenol	ug/kg	3300	ND	09/26/95
2-Chlorophenol	ug/kg	3300	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109240
Date Collected: 09/06/95
Time Collected: 12:30
Date Received: 09/09/95
Client Sample ID: B1216-S9

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	3300	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	3300	ND	09/26/95
benzyl alcohol	ug/kg	6600	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	3300	ND	09/26/95
2-Methylphenol	ug/kg	3300	ND	09/26/95
Hexachloroethane	ug/kg	3300	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	3300	ND	09/26/95
4-Methylphenol	ug/kg	3300	ND	09/26/95
Nitrobenzene	ug/kg	3300	ND	09/26/95
Isophorone	ug/kg	3300	ND	09/26/95
2-Nitrophenol	ug/kg	3300	ND	09/26/95
2,4-Dimethylphenol	ug/kg	3300	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	3300	ND	09/26/95
2,4-Dichlorophenol	ug/kg	3300	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	3300	ND	09/26/95
Naphthalene	ug/kg	3300	ND	09/26/95
Benzoic acid	ug/kg	16000	ND	09/26/95
4-Chloroaniline	ug/kg	6600	ND	09/26/95
Hexachlorobutadiene	ug/kg	3300	ND	09/26/95
2-Methylnaphthalene	ug/kg	3300	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	6600	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	3300	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	3300	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	3300	ND	09/26/95
2-Chloronaphthalene	ug/kg	3300	ND	09/26/95
2-Nitroaniline	ug/kg	16000	ND	09/26/95
Acenaphthylene	ug/kg	3300	ND	09/26/95
Dimethyl phthalate	ug/kg	3300	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	3300	ND	09/26/95
Acenaphthene	ug/kg	3300	ND	09/26/95
3-Nitroaniline	ug/kg	16000	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109240

Date Collected:

09/06/95

Time Collected:

12:30

Date Received:

09/09/95

Client Sample ID:

B1216-S9

Parameter

Units

MDL

METHOD DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	16000	ND	09/26/95
Dibenzofuran	ug/kg	3300	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	3300	ND	09/26/95
4-Nitrophenol	ug/kg	16000	ND	09/26/95
Fluorene	ug/kg	3300	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	3300	ND	09/26/95
Diethyl phthalate	ug/kg	3300	ND	09/26/95
4-Nitroaniline	ug/kg	16000	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	16000	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	3300	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	3300	ND	09/26/95
Hexachlorobenzene	ug/kg	3300	ND	09/26/95
Pentachlorophenol	ug/kg	16000	ND	09/26/95
Phenanthrene	ug/kg	3300	ND	09/26/95
Anthracene	ug/kg	3300	ND	09/26/95
Carbazol	ug/kg	3300	ND	09/26/95
Di-n-butyl phthalate	ug/kg	3300	ND	09/26/95
Fluoranthene	ug/kg	3300	ND	09/26/95
Pyrene	ug/kg	3300	ND	09/26/95
Butyl benzyl phthalate	ug/kg	3300	ND	09/26/95
Benzo(a)anthracene	ug/kg	3300	ND	09/26/95
Chrysene	ug/kg	3300	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	6600	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	3300	ND	09/26/95
Di-n-octyl phthalate	ug/kg	3300	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	3300	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	3300	ND	09/26/95
Benzo(a)pyrene	ug/kg	3300	ND	09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	3300	ND	09/26/95
Dibenz(a,h)anthracene	ug/kg	3300	ND	09/26/95
Benzo(g,h,i)perylene	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109240
Date Collected: 09/06/95
Time Collected: 12:30
Date Received: 09/09/95
Client Sample ID: B1216-S9

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

			EPA 8270
2-Fluorophenol	% Recovery	59	09/26/95
Phenol-d5	% Recovery	57	09/26/95
Nitrobenzene-d5	% Recovery	58	09/26/95
2-Fluorobiphenyl	% Recovery	68	09/26/95
2,4,6-Tribromophenol	% Recovery	33	09/26/95
Terphenyl-d14	% Recovery	51	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D509095C

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109372
09/06/95
12:30
09/09/95
B1216-S9

Units MDI METHOD DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.7		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S10 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109259
Date Collected: 09/06/95
Time Collected: 13:20
Date Received: 09/09/95
Client Sample ID: B1216-S10

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	20	ND	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Parameter	Units	MDL		METHOD	DATE ANALYZED
Date Analyzed			091295	EPA 8240	09/12/95
Chloromethane	ug/kg	10	ND		09/12/95
Vinyl chloride	ug/kg	10	ND		09/12/95
Bromomethane	ug/kg	10	ND		09/12/95
Chloroethane	ug/kg	10	ND		09/12/95
1,1-Dichloroethylene	ug/kg	5	ND		09/12/95
Acetone	ug/kg	10	ND		09/12/95
Carbon disulfide	ug/kg	5	ND		09/12/95
Methylene Chloride	ug/kg	5	ND		09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
Vinyl acetate	ug/kg	10	ND		09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
1,1-Dichloroethane	ug/kg	5	ND		09/12/95
2-Butanone (MEK)	ug/kg	10	ND		09/12/95
Chloroform	ug/kg	5	ND		09/12/95
1,2-Dichloroethane	ug/kg	5	ND		09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
Carbon tetrachloride	ug/kg	5	ND		09/12/95
Benzene	ug/kg	5	ND		09/12/95
Trichloroethylene	ug/kg	5	ND		09/12/95
1,2-Dichloropropane	ug/kg	5	ND		09/12/95
Bromodichloromethane	ug/kg	5	ND		09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95
1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
Dibromochloromethane	ug/kg	5	ND		09/12/95
Bromoform	ug/kg	5	ND		09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND		09/12/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109259
09/06/95
13:20
09/09/95
B1216-S10

Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95
Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		92	09/12/95
Toluene-d8	% Recovery		103	09/12/95
p-Bromofluorobenzene	% Recovery		87	09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted		091295	09/12/95
Grams Extracted - TCLP	g	20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	4	ND	09/18/95
Surrogate Recovery	% Recovery		90	09/18/95
Date Extracted		091695	09/18/95	

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		62 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed		092795	09/27/95	
Date Extracted		091995	09/19/95	
N-nitrosodimethylamine	ug/kg	330	ND	09/27/95
bis(2-Chloroethyl)ether	ug/kg	330	ND	09/27/95
Phenol	ug/kg	330	ND	09/27/95
2-Chlorophenol	ug/kg	330	ND	09/27/95
1,3-Dichlorobenzene	ug/kg	330	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109259
Date Collected: 09/06/95
Time Collected: 13:20
Date Received: 09/09/95
Client Sample ID: B1216-S10

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	330	ND	09/27/95
1,2-Dichlorobenzene	ug/kg	330	ND	09/27/95
benzyl alcohol	ug/kg	660	ND	09/27/95
bis(2-Chloroisopropyl)ether	ug/kg	330	ND	09/27/95
2-Methylphenol	ug/kg	330	ND	09/27/95
Hexachloroethane	ug/kg	330	ND	09/27/95
N-Nitroso-di-n-propylamine	ug/kg	330	ND	09/27/95
4-Methylphenol	ug/kg	330	ND	09/27/95
Nitrobenzene	ug/kg	330	ND	09/27/95
Isophorone	ug/kg	330	ND	09/27/95
2-Nitrophenol	ug/kg	330	ND	09/27/95
2,4-Dimethylphenol	ug/kg	330	ND	09/27/95
bis(2-Chloroethoxy)methane	ug/kg	330	ND	09/27/95
2,4-Dichlorophenol	ug/kg	330	ND	09/27/95
1,2,4-Trichlorobenzene	ug/kg	330	ND	09/27/95
Naphthalene	ug/kg	330	ND	09/27/95
Benzoic acid	ug/kg	1600	ND	09/27/95
4-Chloroaniline	ug/kg	660	ND	09/27/95
Hexachlorobutadiene	ug/kg	330	ND	09/27/95
2-Methylnaphthalene	ug/kg	330	ND	09/27/95
4-Chloro-3-methylphenol	ug/kg	660	ND	09/27/95
Hexachlorocyclopentadiene	ug/kg	330	ND	09/27/95
2,4,6-Trichlorophenol	ug/kg	330	ND	09/27/95
2,4,5-Trichlorophenol	ug/kg	330	ND	09/27/95
2-Chloronaphthalene	ug/kg	330	ND	09/27/95
2-Nitroaniline	ug/kg	1600	ND	09/27/95
Acenaphthylene	ug/kg	330	ND	09/27/95
Dimethyl phthalate	ug/kg	330	ND	09/27/95
2,6-Dinitrotoluene	ug/kg	330	ND	09/27/95
Acenaphthene	ug/kg	330	ND	09/27/95
3-Nitroaniline	ug/kg	1600	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109259
Date Collected: 09/06/95
Time Collected: 13:20
Date Received: 09/09/95
Client Sample ID: B1216-S10

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	1600	ND	09/27/95
Dibenzofuran	ug/kg	330	ND	09/27/95
2,4-Dinitrotoluene	ug/kg	330	ND	09/27/95
4-Nitrophenol	ug/kg	1600	ND	09/27/95
Fluorene	ug/kg	330	ND	09/27/95
4-Chlorophenyl phenyl ether	ug/kg	330	ND	09/27/95
Diethyl phthalate	ug/kg	330	ND	09/27/95
4-Nitroaniline	ug/kg	1600	ND	09/27/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	1600	ND	09/27/95
N-nitrosodiphenylamine	ug/kg	330	ND	09/27/95
4-Bromophenyl Phenyl Ether	ug/kg	330	ND	09/27/95
Hexachlorobenzene	ug/kg	330	ND	09/27/95
Pentachlorophenol	ug/kg	1600	ND	09/27/95
Phenanthrene	ug/kg	330	ND	09/27/95
Anthracene	ug/kg	330	ND	09/27/95
Carbazol	ug/kg	330	ND	09/27/95
Di-n-butyl phthalate	ug/kg	330	ND	09/27/95
Fluoranthene	ug/kg	330	ND	09/27/95
Pyrene	ug/kg	330	ND	09/27/95
Butyl benzyl phthalate	ug/kg	330	ND	09/27/95
Benzo(a)anthracene	ug/kg	330	ND	09/27/95
Chrysene	ug/kg	330	ND	09/27/95
3,3-Dichlorobenzidine	ug/kg	660	ND	09/27/95
bis(2-Ethylhexyl)phthalate	ug/kg	330	ND	09/27/95
Di-n-octyl phthalate	ug/kg	330	ND	09/27/95
Benzo(b)fluoranthene	ug/kg	330	ND	09/27/95
Benzo(k)fluoranthene	ug/kg	330	ND	09/27/95
Benzo(a)pyrene	ug/kg	330	ND	09/27/95
Ideno(1,2,3-c,d)pyrene	ug/kg	330	ND	09/27/95
Dibenz(a,h)anthracene	ug/kg	330	ND	09/27/95
Benzo(g,h,i)perylene	ug/kg	330	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109259

Date Collected:

09/06/95

Time Collected:

13:20

Date Received:

09/09/95

Client Sample ID:

B1216-S10

Parameter

Units

MDL

METHOD

DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol

% Recovery

76

09/27/95

Phenol-d5

% Recovery

69

09/27/95

Nitrobenzene-d5

% Recovery

57

09/27/95

2-Fluorobiphenyl

% Recovery

58

09/27/95

2,4,6-Tribromophenol

% Recovery

72

09/27/95

Terphenyl-d14

% Recovery

69

09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109380
Date Collected: 09/06/95
Time Collected: 13:20
Date Received: 09/09/95
Client Sample ID: B1216-S10

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	2.1		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S11 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109267
Date Collected: 09/06/95
Time Collected: 13:45
Date Received: 09/09/95
Client Sample ID: B1216-S11

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	200	7200	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Date Analyzed			091295	EPA 8240	
Chloromethane	ug/kg	10	ND		09/12/95
Vinyl chloride	ug/kg	10	ND		09/12/95
Bromomethane	ug/kg	10	ND		09/12/95
Chloroethane	ug/kg	10	ND		09/12/95
1,1-Dichloroethylene	ug/kg	5	ND		09/12/95
Acetone	ug/kg	10	44		09/12/95
Carbon disulfide	ug/kg	5	ND		09/12/95
Methylene Chloride	ug/kg	5	6		09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
Vinyl acetate	ug/kg	10	ND		09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
1,1-Dichloroethane	ug/kg	5	ND		09/12/95
2-Butanone (MEK)	ug/kg	10	21		09/12/95
Chloroform	ug/kg	5	ND		09/12/95
1,2-Dichloroethane	ug/kg	5	ND		09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
Carbon tetrachloride	ug/kg	5	ND		09/12/95
Benzene	ug/kg	5	ND		09/12/95
Trichloroethylene	ug/kg	5	ND		09/12/95
1,2-Dichloropropane	ug/kg	5	ND		09/12/95
Bromodichloromethane	ug/kg	5	ND		09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95
1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
Dibromochloromethane	ug/kg	5	ND		09/12/95
Bromoform	ug/kg	5	ND		09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	12		09/12/95

REPORT OF LABORATORY ANALYSIS

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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109267

Date Collected: 09/06/95

Time Collected: 13:45

Date Received: 09/09/95

Client Sample ID: B1216-S11

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

Parameter	Units	MDL	METHOD	DATE ANALYZED
Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95

Parameter	Units	MDL	METHOD	DATE ANALYZED
Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		93	09/12/95
Toluene-d8	% Recovery		127 T1	09/12/95
p-Bromofluorobenzene	% Recovery		79 T1	09/12/95

TCLP EXTRACTION

Parameter	Units	MDL	METHOD	DATE ANALYZED
Date Extracted			091295	09/12/95
Grams Extracted - TCLP	g		20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

Parameter	Units	MDL	METHOD	DATE ANALYZED
Heavy Hydrocarbons	mg/kg	40	ND HB	09/18/95
Surrogate Recovery	% Recovery		84	09/18/95
Date Extracted			091695	09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

Parameter	Units	MDL	METHOD	DATE ANALYZED
Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		38 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

Parameter	Units	MDL	METHOD	DATE ANALYZED
Date Analyzed			092795	09/27/95
Date Extracted			091995	09/19/95
N-nitrosodimethylamine	ug/kg	3300	ND	09/27/95
bis(2-Chloroethyl)ether	ug/kg	3300	ND	09/27/95
Phenol	ug/kg	3300	ND	09/27/95
2-Chlorophenol	ug/kg	3300	ND	09/27/95
1,3-Dichlorobenzene	ug/kg	3300	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109267
Date Collected: 09/06/95
Time Collected: 13:45
Date Received: 09/09/95
Client Sample ID: B1216-S11

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	3300	ND	09/27/95
1,2-Dichlorobenzene	ug/kg	3300	ND	09/27/95
benzyl alcohol	ug/kg	6600	ND	09/27/95
bis(2-Chloroisopropyl)ether	ug/kg	3300	ND	09/27/95
2-Methylphenol	ug/kg	3300	ND	09/27/95
Hexachloroethane	ug/kg	3300	ND	09/27/95
N-Nitroso-di-n-propylamine	ug/kg	3300	ND	09/27/95
4-Methylphenol	ug/kg	3300	ND	09/27/95
Nitrobenzene	ug/kg	3300	ND	09/27/95
Isophorone	ug/kg	3300	ND	09/27/95
2-Nitrophenol	ug/kg	3300	ND	09/27/95
2,4-Dimethylphenol	ug/kg	3300	ND	09/27/95
bis(2-Chloroethoxy)methane	ug/kg	3300	ND	09/27/95
2,4-Dichlorophenol	ug/kg	3300	ND	09/27/95
1,2,4-Trichlorobenzene	ug/kg	3300	ND	09/27/95
Naphthalene	ug/kg	3300	ND	09/27/95
Benzoic acid	ug/kg	16000	ND	09/27/95
4-Chloroaniline	ug/kg	6600	ND	09/27/95
Hexachlorobutadiene	ug/kg	3300	ND	09/27/95
2-Methylnaphthalene	ug/kg	3300	ND	09/27/95
4-Chloro-3-methylphenol	ug/kg	6600	ND	09/27/95
Hexachlorocyclopentadiene	ug/kg	3300	ND	09/27/95
2,4,6-Trichlorophenol	ug/kg	3300	ND	09/27/95
2,4,5-Trichlorophenol	ug/kg	3300	ND	09/27/95
2-Chloronaphthalene	ug/kg	3300	ND	09/27/95
2-Nitroaniline	ug/kg	16000	ND	09/27/95
Acenaphthylene	ug/kg	3300	ND	09/27/95
Dimethyl phthalate	ug/kg	3300	ND	09/27/95
2,6-Dinitrotoluene	ug/kg	3300	ND	09/27/95
Acenaphthene	ug/kg	3300	ND	09/27/95
3-Nitroaniline	ug/kg	16000	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109267
Date Collected: 09/06/95
Time Collected: 13:45
Date Received: 09/09/95
Client Sample ID: B1216-S11

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	16000	ND	09/27/95
Dibenzofuran	ug/kg	3300	ND	09/27/95
2,4-Dinitrotoluene	ug/kg	3300	ND	09/27/95
4-Nitrophenol	ug/kg	16000	ND	09/27/95
Fluorene	ug/kg	3300	ND	09/27/95
4-Chlorophenyl phenyl ether	ug/kg	3300	ND	09/27/95
Diethyl phthalate	ug/kg	3300	ND	09/27/95
4-Nitroaniline	ug/kg	16000	ND	09/27/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	16000	ND	09/27/95
N-nitrosodiphenylamine	ug/kg	3300	ND	09/27/95
4-Bromophenyl Phenyl Ether	ug/kg	3300	ND	09/27/95
Hexachlorobenzene	ug/kg	3300	ND	09/27/95
Pentachlorophenol	ug/kg	16000	ND	09/27/95
Phenanthrene	ug/kg	3300	ND	09/27/95
Anthracene	ug/kg	3300	ND	09/27/95
Carbazol	ug/kg	3300	ND	09/27/95
Di-n-butyl phthalate	ug/kg	3300	ND	09/27/95
Fluoranthene	ug/kg	3300	ND	09/27/95
Pyrene	ug/kg	3300	ND	09/27/95
Butyl benzyl phthalate	ug/kg	3300	ND	09/27/95
Benzo(a)anthracene	ug/kg	3300	ND	09/27/95
Chrysene	ug/kg	3300	ND	09/27/95
3,3-Dichlorobenzidine	ug/kg	6600	ND	09/27/95
bis(2-Ethylhexyl)phthalate	ug/kg	3300	ND	09/27/95
Di-n-octyl phthalate	ug/kg	3300	ND	09/27/95
Benzo(b)fluoranthene	ug/kg	3300	ND	09/27/95
Benzo(k)fluoranthene	ug/kg	3300	ND	09/27/95
Benzo(a)pyrene	ug/kg	3300	ND	09/27/95
Ideno(1,2,3-c,d)pyrene	ug/kg	3300	ND	09/27/95
Dibenz(a,h)anthracene	ug/kg	3300	ND	09/27/95
Benzo(g,h,i)perylene	ug/kg	3300	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109267
Date Collected: 09/06/95
Time Collected: 13:45
Date Received: 09/09/95
Client Sample ID: B1216-S11

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol	% Recovery	66		09/27/95
Phenol-d5	% Recovery	58		09/27/95
Nitrobenzene-d5	% Recovery	59		09/27/95
2-Fluorobiphenyl	% Recovery	39		09/27/95
2,4,6-Tribromophenol	% Recovery	45		09/27/95
Terphenyl-d14	% Recovery	44		09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109399
Date Collected: 09/06/95
Time Collected: 13:45
Date Received: 09/09/95
Client Sample ID: B1216-S11

Parameter	Units	MDL		METHOD	DATE ANALYZED
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.9		09/22/95
Cadmium	mg/L	0.05	ND		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S12 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109275
Date Collected: 09/06/95
Time Collected: 14:05
Date Received: 09/09/95
Client Sample ID: B1216-S12

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	200	6000	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Date Analyzed			091295		09/12/95
Chloromethane	ug/kg	10	ND		09/12/95
Vinyl chloride	ug/kg	10	ND		09/12/95
Bromomethane	ug/kg	10	ND		09/12/95
Chloroethane	ug/kg	10	ND		09/12/95
1,1-Dichloroethylene	ug/kg	5	ND		09/12/95
Acetone	ug/kg	10	17		09/12/95
Carbon disulfide	ug/kg	5	ND		09/12/95
Methylene Chloride	ug/kg	5	ND		09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
Vinyl acetate	ug/kg	10	ND		09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
1,1-Dichloroethane	ug/kg	5	ND		09/12/95
2-Butanone (MEK)	ug/kg	10	ND		09/12/95
Chloroform	ug/kg	5	ND		09/12/95
1,2-Dichloroethane	ug/kg	5	ND		09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
Carbon tetrachloride	ug/kg	5	ND		09/12/95
Benzene	ug/kg	5	ND		09/12/95
Trichloroethylene	ug/kg	5	ND		09/12/95
1,2-Dichloropropane	ug/kg	5	ND		09/12/95
Bromodichloromethane	ug/kg	5	ND		09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95
1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
Dibromochloromethane	ug/kg	5	ND		09/12/95
Bromoform	ug/kg	5	ND		09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND		09/12/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109275
Date Collected: 09/06/95
Time Collected: 14:05
Date Received: 09/09/95
Client Sample ID: B1216-S12

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

EPA 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95

Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery	94		09/12/95
Toluene-d8	% Recovery	117		09/12/95
p-Bromofluorobenzene	% Recovery	77 T1		09/12/95

TCLP EXTRACTION

EPA 1311

Date Extracted		091295	09/12/95
Grams Extracted - TCLP	g	20.0	09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

8015

Heavy Hydrocarbons	mg/kg	40	ND HB	09/18/95
Surrogate Recovery	% Recovery	86		09/18/95
Date Extracted		091695		09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

MOD. 8015

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery	33 T1		09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

Date Analyzed		092795	09/27/95	
Date Extracted		091995	09/19/95	
N-nitrosodimethylamine	ug/kg	3300	ND	09/27/95
bis(2-Chloroethyl)ether	ug/kg	3300	ND	09/27/95
Phenol	ug/kg	3300	ND	09/27/95
2-Chlorophenol	ug/kg	3300	ND	09/27/95
1,3-Dichlorobenzene	ug/kg	3300	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109275

Date Collected:

09/06/95

Time Collected:

14:05

Date Received:

09/09/95

Client Sample ID:

B1216-S12

Parameter

Units

MDL

METHOD

DATE ANALYZED

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270.

EPA 8270

1,4-Dichlorobenzene	ug/kg	3300	ND	09/27/95
1,2-Dichlorobenzene	ug/kg	3300	ND	09/27/95
benzyl alcohol	ug/kg	6600	ND	09/27/95
bis(2-Chloroisopropyl)ether	ug/kg	3300	ND	09/27/95
2-Methylphenol	ug/kg	3300	ND	09/27/95
Hexachloroethane	ug/kg	3300	ND	09/27/95
N-Nitroso-di-n-propylamine	ug/kg	3300	ND	09/27/95
4-Methylphenol	ug/kg	3300	ND	09/27/95
Nitrobenzene	ug/kg	3300	ND	09/27/95
Isophorone	ug/kg	3300	ND	09/27/95
2-Nitrophenol	ug/kg	3300	ND	09/27/95
2,4-Dimethylphenol	ug/kg	3300	ND	09/27/95
bis(2-Chloroethoxy)methane	ug/kg	3300	ND	09/27/95
2,4-Dichlorophenol	ug/kg	3300	ND	09/27/95
1,2,4-Trichlorobenzene	ug/kg	3300	ND	09/27/95
Naphthalene	ug/kg	3300	ND	09/27/95
Benzoic acid	ug/kg	16000	ND	09/27/95
4-Chloroaniline	ug/kg	6600	ND	09/27/95
Hexachlorobutadiene	ug/kg	3300	ND	09/27/95
2-Methylnaphthalene	ug/kg	3300	ND	09/27/95
4-Chloro-3-methylphenol	ug/kg	6600	ND	09/27/95
Hexachlorocyclopentadiene	ug/kg	3300	ND	09/27/95
2,4,6-Trichlorophenol	ug/kg	3300	ND	09/27/95
2,4,5-Trichlorophenol	ug/kg	3300	ND	09/27/95
2-Chloronaphthalene	ug/kg	3300	ND	09/27/95
2-Nitroaniline	ug/kg	16000	ND	09/27/95
Acenaphthylene	ug/kg	3300	ND	09/27/95
Dimethyl phthalate	ug/kg	3300	ND	09/27/95
2,6-Dinitrotoluene	ug/kg	3300	ND	09/27/95
Acenaphthene	ug/kg	3300	ND	09/27/95
3-Nitroaniline	ug/kg	16000	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109275
Date Collected: 09/06/95
Time Collected: 14:05
Date Received: 09/09/95
Client Sample ID: B1216-S12

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	16000	ND	09/27/95
Dibenzofuran	ug/kg	3300	ND	09/27/95
2,4-Dinitrotoluene	ug/kg	3300	ND	09/27/95
4-Nitrophenol	ug/kg	16000	ND	09/27/95
Fluorene	ug/kg	3300	ND	09/27/95
4-Chlorophenyl phenyl ether	ug/kg	3300	ND	09/27/95
Diethyl phthalate	ug/kg	3300	ND	09/27/95
4-Nitroaniline	ug/kg	16000	ND	09/27/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	16000	ND	09/27/95
N-nitrosodiphenylamine	ug/kg	3300	ND	09/27/95
4-Bromophenyl Phenyl Ether	ug/kg	3300	ND	09/27/95
Hexachlorobenzene	ug/kg	3300	ND	09/27/95
Pentachlorophenol	ug/kg	16000	ND	09/27/95
Phenanthrene	ug/kg	3300	ND	09/27/95
Anthracene	ug/kg	3300	ND	09/27/95
Carbazol	ug/kg	3300	ND	09/27/95
Di-n-butyl phthalate	ug/kg	3300	ND	09/27/95
Fluoranthene	ug/kg	3300	ND	09/27/95
Pyrene	ug/kg	3300	ND	09/27/95
Butyl benzyl phthalate	ug/kg	3300	ND	09/27/95
Benzo(a)anthracene	ug/kg	3300	ND	09/27/95
Chrysene	ug/kg	3300	ND	09/27/95
3,3-Dichlorobenzidine	ug/kg	6600	ND	09/27/95
bis(2-Ethylhexyl)phthalate	ug/kg	3300	ND	09/27/95
Di-n-octyl phthalate	ug/kg	3300	ND	09/27/95
Benzo(b)fluoranthene	ug/kg	3300	ND	09/27/95
Benzo(k)fluoranthene	ug/kg	3300	ND	09/27/95
Benzo(a)pyrene	ug/kg	3300	ND	09/27/95
Ideno(1,2,3-c,d)pyrene	ug/kg	3300	ND	09/27/95
Dibenz(a,h)anthracene	ug/kg	3300	ND	09/27/95
Benzo(g,h,i)perylene	ug/kg	3300	ND	09/27/95

REPORT OF LABORATORY ANALYSIS

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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109275
Date Collected: 09/06/95
Time Collected: 14:05
Date Received: 09/09/95
Client Sample ID: B1216-S12

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2-Fluorophenol	% Recovery	53		09/27/95
Phenol-d5	% Recovery	48		09/27/95
Nitrobenzene-d5	% Recovery	45		09/27/95
2-Fluorobiphenyl	% Recovery	35		09/27/95
2,4,6-Tribromophenol	% Recovery	28		09/27/95
Terphenyl-d14	% Recovery	34		09/27/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:
Date Collected:
Time Collected:
Date Received:
Client Sample ID:
Parameter

65 0109402
09/06/95
14:05
09/09/95
B1216-S12

Units MDL METHOD DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.6		09/22/95
Cadmium	mg/L	0.05	0.06		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

SAMPLE B1216-S13 RESULTS

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109283
Date Collected: 09/06/95
Time Collected: 14:25
Date Received: 09/09/95
Client Sample ID: B1216-S13

Parameter	Units	MDL		METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Heavy Hydrocarbons (Oil)	mg/kg	200	8600	8015	09/18/95
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VOLATILE ORGANICS BY SW-846 METHOD 8240

Date Analyzed				EPA 8240	
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Chloromethane	ug/kg	10	ND	091295	09/12/95
Vinyl chloride	ug/kg	10	ND		09/12/95
Bromomethane	ug/kg	10	ND		09/12/95
Chloroethane	ug/kg	10	ND		09/12/95
1,1-Dichloroethylene	ug/kg	5	ND		09/12/95

Acetone	ug/kg	10	ND		09/12/95
Carbon disulfide	ug/kg	5	ND		09/12/95
Methylene Chloride	ug/kg	5	ND		09/12/95
Trans-1,2-dichloroethylene	ug/kg	5	ND		09/12/95
Vinyl acetate	ug/kg	10	ND		09/12/95
Cis-1,2-dichloroethylene	ug/kg	5	ND		09/12/95

1,1-Dichloroethane	ug/kg	5	ND		09/12/95
2-Butanone (MEK)	ug/kg	10	ND		09/12/95
Chloroform	ug/kg	5	ND		09/12/95
1,2-Dichloroethane	ug/kg	5	ND		09/12/95
1,1,1-Trichloroethane	ug/kg	5	ND		09/12/95
Carbon tetrachloride	ug/kg	5	ND		09/12/95

Benzene	ug/kg	5	ND		09/12/95
Trichloroethylene	ug/kg	5	ND		09/12/95
1,2-Dichloropropane	ug/kg	5	ND		09/12/95
Bromodichloromethane	ug/kg	5	ND		09/12/95
Cis-1,3-dichloropropene	ug/kg	5	ND		09/12/95
Trans-1,3-dichloropropene	ug/kg	5	ND		09/12/95

1,1,2-Trichloroethane	ug/kg	5	ND		09/12/95
Dibromochloromethane	ug/kg	5	ND		09/12/95
Bromoform	ug/kg	5	ND		09/12/95
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND		09/12/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D509095C

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109283
Date Collected: 09/06/95
Time Collected: 14:25
Date Received: 09/09/95
Client Sample ID: B1216-S13

Parameter	Units	MDL	METHOD	DATE ANALYZED
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ORGANIC ANALYSIS

VOLATILE ORGANICS BY SW-846 METHOD 8240

Toluene	ug/kg	5	ND	09/12/95
Tetrachloroethylene	ug/kg	5	ND	09/12/95
2-Hexanone	ug/kg	10	ND	09/12/95
Chlorobenzene	ug/kg	5	ND	09/12/95
Ethyl benzene	ug/kg	5	ND	09/12/95
Xylenes, (total)	ug/kg	5	ND	09/12/95

Styrene	ug/kg	5	ND	09/12/95
1,1,2,2-Tetrachloroethane	ug/kg	5	ND	09/12/95
1,2-Dichloroethane-d4	% Recovery		94	09/12/95
Toluene-d8	% Recovery		118 T1	09/12/95
p-Bromofluorobenzene	% Recovery		75 T1	09/12/95

TCLP EXTRACTION

Date Extracted		091295	EPA 1311	09/12/95
Grams Extracted - TCLP	g	20.0		09/12/95

EXTRACTABLE HYDROCARBONS AS DIESEL

Heavy Hydrocarbons	mg/kg	40	ND HB	09/18/95
Surrogate Recovery	% Recovery		82	09/18/95
Date Extracted		091695		09/18/95

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	09/16/95
Surrogate Recovery	% Recovery		13 T1	09/16/95

SEMI-VOLATILE ORGANICS BY METHOD 8270

Date Analyzed		092695	EPA 8270	09/26/95
Date Extracted		091995		09/19/95
N-nitrosodimethylamine	ug/kg	3300	ND	09/26/95
bis(2-Chloroethyl)ether	ug/kg	3300	ND	09/26/95
Phenol	ug/kg	3300	ND	09/26/95
2-Chlorophenol	ug/kg	3300	ND	09/26/95
1,3-Dichlorobenzene	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109283
Date Collected: 09/06/95
Time Collected: 14:25
Date Received: 09/09/95
Client Sample ID: B1216-S13

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

1,4-Dichlorobenzene	ug/kg	3300	ND	09/26/95
1,2-Dichlorobenzene	ug/kg	3300	ND	09/26/95
benzyl alcohol	ug/kg	6600	ND	09/26/95
bis(2-Chloroisopropyl)ether	ug/kg	3300	ND	09/26/95
2-Methylphenol	ug/kg	3300	ND	09/26/95
Hexachloroethane	ug/kg	3300	ND	09/26/95
N-Nitroso-di-n-propylamine	ug/kg	3300	ND	09/26/95
4-Methylphenol	ug/kg	3300	ND	09/26/95
Nitrobenzene	ug/kg	3300	ND	09/26/95
Isophorone	ug/kg	3300	ND	09/26/95
2-Nitrophenol	ug/kg	3300	ND	09/26/95
2,4-Dimethylphenol	ug/kg	3300	ND	09/26/95
bis(2-Chloroethoxy)methane	ug/kg	3300	ND	09/26/95
2,4-Dichlorophenol	ug/kg	3300	ND	09/26/95
1,2,4-Trichlorobenzene	ug/kg	3300	ND	09/26/95
Naphthalene	ug/kg	3300	ND	09/26/95
Benzoic acid	ug/kg	16000	ND	09/26/95
4-Chloroaniline	ug/kg	6600	ND	09/26/95
Hexachlorobutadiene	ug/kg	3300	ND	09/26/95
2-Methylnaphthalene	ug/kg	3300	ND	09/26/95
4-Chloro-3-methylphenol	ug/kg	6600	ND	09/26/95
Hexachlorocyclopentadiene	ug/kg	3300	ND	09/26/95
2,4,6-Trichlorophenol	ug/kg	3300	ND	09/26/95
2,4,5-Trichlorophenol	ug/kg	3300	ND	09/26/95
2-Chloronaphthalene	ug/kg	3300	ND	09/26/95
2-Nitroaniline	ug/kg	16000	ND	09/26/95
Acenaphthylene	ug/kg	3300	ND	09/26/95
Dimethyl phthalate	ug/kg	3300	ND	09/26/95
2,6-Dinitrotoluene	ug/kg	3300	ND	09/26/95
Acenaphthene	ug/kg	3300	ND	09/26/95
3-Nitroaniline	ug/kg	16000	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109283
Date Collected: 09/06/95
Time Collected: 14:25
Date Received: 09/09/95
Client Sample ID: B1216-S13

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

EPA 8270

2,4-Dinitrophenol	ug/kg	16000	ND	09/26/95
Dibenzofuran	ug/kg	3300	ND	09/26/95
2,4-Dinitrotoluene	ug/kg	3300	ND	09/26/95
4-Nitrophenol	ug/kg	16000	ND	09/26/95
Fluorene	ug/kg	3300	ND	09/26/95
4-Chlorophenyl phenyl ether	ug/kg	3300	ND	09/26/95
Diethyl phthalate	ug/kg	3300	ND	09/26/95
4-Nitroaniline	ug/kg	16000	ND	09/26/95
4,6-Dinitrophenol-2-methylphenol	ug/kg	16000	ND	09/26/95
N-nitrosodiphenylamine	ug/kg	3300	ND	09/26/95
4-Bromophenyl Phenyl Ether	ug/kg	3300	ND	09/26/95
Hexachlorobenzene	ug/kg	3300	ND	09/26/95
Pentachlorophenol	ug/kg	16000	ND	09/26/95
Phenanthrene	ug/kg	3300	ND	09/26/95
Anthracene	ug/kg	3300	ND	09/26/95
Carbazol	ug/kg	3300	ND	09/26/95
Di-n-butyl phthalate	ug/kg	3300	ND	09/26/95
Fluoranthene	ug/kg	3300	ND	09/26/95
Pyrene	ug/kg	3300	ND	09/26/95
Butyl benzyl phthalate	ug/kg	3300	ND	09/26/95
Benzo(a)anthracene	ug/kg	3300	ND	09/26/95
Chrysene	ug/kg	3300	ND	09/26/95
3,3-Dichlorobenzidine	ug/kg	6600	ND	09/26/95
bis(2-Ethylhexyl)phthalate	ug/kg	3300	ND	09/26/95
Di-n-octyl phthalate	ug/kg	3300	ND	09/26/95
Benzo(b)fluoranthene	ug/kg	3300	ND	09/26/95
Benzo(k)fluoranthene	ug/kg	3300	ND	09/26/95
Benzo(a)pyrene	ug/kg	3300	ND	09/26/95
Ideno(1,2,3-c,d)pyrene	ug/kg	3300	ND	09/26/95
Dibenz(a,h)anthracene	ug/kg	3300	ND	09/26/95
Benzo(g,h,i)perylene	ug/kg	3300	ND	09/26/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number: 65 0109283
Date Collected: 09/06/95
Time Collected: 14:25
Date Received: 09/09/95
Client Sample ID: B1216-S13

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>METHOD</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

SEMI-VOLATILE ORGANICS BY METHOD 8270

Compound	% Recovery	MDL	EPA 8270	Date Analyzed
2-Fluorophenol	36			09/26/95
Phenol-d5	35			09/26/95
Nitrobenzene-d5	32			09/26/95
2-Fluorobiphenyl	39			09/26/95
2,4,6-Tribromophenol	32			09/26/95
Terphenyl-d14	29			09/26/95

ZHE EXTRACTION

Parameter	Units	MDL	EPA 1311	Date Analyzed
Date Extracted		091895		09/18/95
Grams Extracted - ZHE	g	5		09/18/95

REPORT OF LABORATORY ANALYSIS

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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:	65 0109410
Date Collected:	09/06/95
Time Collected:	14:25
Date Received:	09/09/95
Client Sample ID:	B1216-S13
Parameter	Units MDL METHOD DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Mercury	ug/L	0.50	ND	7470	09/21/95
Metals Prep: ICP (SW846)			092195		09/21/95

METALS: TCLP

Arsenic	mg/L	0.5	ND		09/22/95
Barium	mg/L	0.05	1.5		09/22/95
Cadmium	mg/L	0.05	0.09		09/22/95
Chromium	mg/L	0.1	ND		09/22/95
Lead	mg/L	0.5	ND		09/22/95
Selenium	mg/L	0.5	ND		09/22/95
Silver	mg/L	0.1	ND		09/22/95

ORGANIC ANALYSIS

TCLP SEMIVOLATILES

Date Analyzed		091995	TCLP SEMI	09/19/95
Date Extracted		091495		09/14/95
Pyridine	ug/L	5000	ND	09/19/95
1,4-Dichlorobenzene	ug/L	1000	ND	09/19/95
o-Cresol	ug/L	1000	ND	09/19/95
Hexachloroethane	ug/L	1000	ND	09/19/95

m & p-Cresol	ug/L	1000	ND	09/19/95
Nitrobenzene	ug/L	1000	ND	09/19/95
Hexachloro-1,3-butadiene	ug/L	1000	ND	09/19/95
2,4,6-Trichlorophenol	ug/L	1000	ND	09/19/95
2,4,5-Trichlorophenol	ug/L	1000	ND	09/19/95
2,4-Dinitrotoluene	ug/L	1000	ND	09/19/95

Hexachlorobenzene	ug/L	1000	ND	09/19/95
Pentachlorophenol	ug/L	5000	ND	09/19/95
2-Fluorophenol	% Recovery		32	09/19/95
Phenol-d5	% Recovery		12 T1	09/19/95
Nitrobenzene-d5	% Recovery		68	09/19/95

REPORT OF LABORATORY ANALYSIS

Mr. Ted Redding
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September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

PACE Sample Number:

65 0109410

Date Collected:

09/06/95

Time Collected:

14:25

Date Received:

09/09/95

Client Sample ID:

B1216-S13

Parameter

Units

MDI

METHOD DATE ANALYZED

ORGANIC ANALYSIS

TCLP SEMIVOLATILES

2-Fluorobiphenyl

% Recovery

73

TCLP SEMI

09/19/95

2,4,6-Tribromophenol

% Recovery

70

09/19/95

Terphenyl-d14

% Recovery

72

09/19/95

Concentrated

091895

09/18/95

TCLP VOLATILES

Date Analyzed

092295

TCLP VOA

09/22/95

Vinyl chloride (TCLP Regulatory List)

ug/L

200

ND

09/22/95

1,1-Dichloroethylene (TCLP Reg. List)

ug/L

100

ND

09/22/95

2-Butanone (MEK) (TCLP Regulatory List)

ug/L

200

ND

09/22/95

Chloroform (TCLP Regulatory List)

ug/L

100

ND

09/22/95

1,2-Dichloroethane (TCLP Regulatory List)

ug/L

100

ND

09/22/95

Carbon tetrachloride (TCLP Reg. List)

ug/L

100

ND

09/22/95

Benzene (TCLP Regulatory List)

ug/L

100

ND

09/22/95

Trichloroethylene (TCLP Regulatory List)

ug/L

100

ND

09/22/95

Tetrachloroethylene (TCLP Reg. List)

ug/L

100

ND

09/22/95

Chlorobenzene (TCLP Regulatory List)

ug/L

100

ND

09/22/95

1,2-Dichloroethane-d4

% Recovery

96

09/22/95

Toluene-d8

% Recovery

111 T1

09/22/95

p-Bromofluorobenzene

% Recovery

95

09/22/95

These data have been reviewed and are approved for release.

Robert P. DiRienzo
Operations Manager

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FOOTNOTES
for pages 1 through 83

September 25, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

\$ Analytical results are not available.
HB High boiling point hydrocarbons are present in sample.
MDL Method Detection Limit
ND Not detected at or above the MDL.
T1 Surrogate recovery is outside the reporting limit.

QUALITY CONTROL DATA

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

Mercury

Batch: 65 28229

Samples: 65 0109291, 65 0109305, 65 0109313, 65 0109321, 65 0109330
65 0109348, 65 0109356, 65 0109364, 65 0109372, 65 0109380
65 0109399, 65 0109402, 65 0109410

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method	650109410 Blank	Duplicate of 65 0109410 B1216-S13	RPD
Mercury	ug/L	0.50	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	650109410 B1216-S13	Spike	Spike Recv	Dupl Recv	RPD
Mercury	ug/L	0.50	ND	12.5	106%	110%	4%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Mercury	ug/L	0.50	12.6	102%

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

METALS: TCLP

Batch: 65 28255

Samples: 65 0109291, 65 0109305, 65 0109313, 65 0109321, 65 0109330
65 0109348, 65 0109356, 65 0109364, 65 0109372, 65 0109380
65 0109399, 65 0109402, 65 0109410

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	650109356 B1216-S7	Duplicate of 65 0109356	RPC
Arsenic	mg/L	0.5	ND	ND	ND	NC
Barium	mg/L	0.05	ND	1.1	1.1	0%
Cadmium	mg/L	0.05	ND	ND	ND	NC
Chromium	mg/L	0.1	ND	ND	ND	NC
Lead	mg/L	0.5	ND	ND	ND	NC
Selenium	mg/L	0.5	ND	ND	ND	NC
Silver	mg/L	0.1	ND	ND	ND	NC

SPIKE:

Parameter	Units	MDL	650109364 B1216-S8	Spike	Spike Recv
Arsenic	mg/L	0.5	ND	8.00	96%
Barium	mg/L	0.05	1.7	8.00	96%
Cadmium	mg/L	0.05	ND	0.200	105%
Chromium	mg/L	0.1	ND	0.800	95%
Lead	mg/L	0.5	ND	2.00	100%
Selenium	mg/L	0.5	ND	8.00	96%
Silver	mg/L	0.1	ND	0.200	91%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Arsenic	mg/L	0.1	2.00	95%
Barium	mg/L	0.01	2.00	97%
Cadmium	mg/L	0.01	0.050	92%
Chromium	mg/L	0.02	0.200	95%
Lead	mg/L	0.1	0.500	100%
Selenium	mg/L	0.1	2.00	96%
Silver	mg/L	0.02	0.050	96%

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

EXTRACTABLE HYDROCARBONS AS DIESEL

Batch: 65 28132

Samples: 65 0109160, 65 0109178, 65 0109186, 65 0109194, 65 0109208
65 0109216, 65 0109224, 65 0109232, 65 0109240, 65 0109259
65 0109267, 65 0109275, 65 0109283

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Heavy Hydrocarbons	mg/kg	4	ND
Surrogate Recovery	% Recovery		80
Date Extracted			091695

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	650109283 <u>B1216-S13</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Heavy Hydrocarbons	mg/kg	40	ND HB	200	N	N	

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Heavy Hydrocarbons	mg/kg	4	200	113%

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

SEMI-VOLATILE ORGANICS BY METHOD 8270

Batch: 65 28357

Samples: 65 0109160, 65 0109178, 65 0109186, 65 0109194, 65 0109208
65 0109216, 65 0109224, 65 0109232, 65 0109240, 65 0109259
65 0109267, 65 0109275, 65 0109283

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Date Analyzed			092695
N-nitrosodimethylamine	ug/kg	330	ND
bis(2-Chloroethyl)ether	ug/kg	330	ND
Phenol	ug/kg	330	ND
2-Chlorophenol	ug/kg	330	ND
1,3-Dichlorobenzene	ug/kg	330	ND
1,4-Dichlorobenzene	ug/kg	330	ND
1,2-Dichlorobenzene	ug/kg	330	ND
benzyl alcohol	ug/kg	660	ND
bis(2-Chloroisopropyl)ether	ug/kg	330	ND
2-Methylphenol	ug/kg	330	ND
Hexachloroethane	ug/kg	330	ND
N-Nitroso-di-n-propylamine	ug/kg	330	ND
4-Methylphenol	ug/kg	330	ND
Nitrobenzene	ug/kg	330	ND
Isophorone	ug/kg	330	ND
2-Nitrophenol	ug/kg	330	ND
2,4-Dimethylphenol	ug/kg	330	ND
bis(2-Chloroethoxy)methane	ug/kg	330	ND
2,4-Dichlorophenol	ug/kg	330	ND
1,2,4-Trichlorobenzene	ug/kg	330	ND
Naphthalene	ug/kg	330	ND
Benzoic acid	ug/kg	1600	ND
4-Chloroaniline	ug/kg	660	ND
Hexachlorobutadiene	ug/kg	330	ND
2-Methylnaphthalene	ug/kg	330	ND
4-Chloro-3-methylphenol	ug/kg	660	ND
Hexachlorocyclopentadiene	ug/kg	330	ND
2,4,6-Trichlorophenol	ug/kg	330	ND
2,4,5-Trichlorophenol	ug/kg	330	ND
2-Chloronaphthalene	ug/kg	330	ND

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

SEMI-VOLATILE ORGANICS BY METHOD 8270

Batch: 65 28357

Samples: 65 0109160, 65 0109178, 65 0109186, 65 0109194, 65 0109208
65 0109216, 65 0109224, 65 0109232, 65 0109240, 65 0109259
65 0109267, 65 0109275, 65 0109283

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
2-Nitroaniline	ug/kg	1600	ND
Acenaphthylene	ug/kg	330	ND
Dimethyl phthalate	ug/kg	330	ND
2,6-Dinitrotoluene	ug/kg	330	ND
Acenaphthene	ug/kg	330	ND
3-Nitroaniline	ug/kg	1600	ND
2,4-Dinitrophenol	ug/kg	1600	ND
Dibenzofuran	ug/kg	330	ND
2,4-Dinitrotoluene	ug/kg	330	ND
4-Nitrophenol	ug/kg	1600	ND
Fluorene	ug/kg	330	ND
4-Chlorophenyl phenyl ether	ug/kg	330	ND
Diethyl phthalate	ug/kg	330	ND
4-Nitroaniline	ug/kg	1600	ND
4,6-Dinitrophenol-2-methylphenol	ug/kg	1600	ND
N-nitrosodiphenylamine	ug/kg	330	ND
4-Bromophenyl Phenyl Ether	ug/kg	330	ND
Hexachlorobenzene	ug/kg	330	ND
Pentachlorophenol	ug/kg	1600	ND
Phenanthrene	ug/kg	330	ND
Anthracene	ug/kg	330	ND
Carbazol	ug/kg	330	ND
Di-n-butyl phthalate	ug/kg	330	1000
Fluoranthene	ug/kg	330	ND
Pyrene	ug/kg	330	ND
Butyl benzyl phthalate	ug/kg	330	ND
Benzo(a)anthracene	ug/kg	330	ND
Chrysene	ug/kg	330	ND
3,3-Dichlorobenzidine	ug/kg	660	ND
bis(2-Ethylhexyl)phthalate	ug/kg	330	ND
Di-n-octyl phthalate	ug/kg	330	ND

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

SEMI-VOLATILE ORGANICS BY METHOD 8270

Batch: 65 28357

Samples: 65 0109160, 65 0109178, 65 0109186, 65 0109194, 65 0109208
65 0109216, 65 0109224, 65 0109232, 65 0109240, 65 0109259
65 0109267, 65 0109275, 65 0109283

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Benzo(b)fluoranthene	ug/kg	330	ND
Benzo(k)fluoranthene	ug/kg	330	ND
Benzo(a)pyrene	ug/kg	330	ND
Ideno(1,2,3-c,d)pyrene	ug/kg	330	ND
Dibenz(a,h)anthracene	ug/kg	330	ND
Benzo(g,h,i)perylene	ug/kg	330	ND
2-Fluorophenol	% Recovery		62
Phenol-d5	% Recovery		62
Nitrobenzene-d5	% Recovery		54
2-Fluorobiphenyl	% Recovery		62
2,4,6-Tribromophenol	% Recovery		74
Terphenyl-d14	% Recovery		71

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	650109283 B1216-S13	Spike	Spike Recv	Spike Dupl Recv	RP
Phenol	ug/kg	330.0	ND DS				
Phenol	ug/kg	3300		6670	31%	42%	30
2-Chlorophenol	ug/kg	330.0	ND DS				
2-Chlorophenol	ug/kg	3300		6670	31%	39%	23%
1,4-Dichlorobenzene	ug/kg	330.0	ND DS				
1,4-Dichlorobenzene	ug/kg	3300		3330	31%	38%	20
N-Nitroso-di-n-propylamine	ug/kg	330.0	ND DS				
N-Nitroso-di-n-propylamine	ug/kg	3300		3330	39%	45%	14
1,2,4-Trichlorobenzene	ug/kg	330.0	ND DS				
1,2,4-Trichlorobenzene	ug/kg	3300		3330	32%	38%	17%
4-Chloro-3-methylphenol	ug/kg	660.0	ND DS				
4-Chloro-3-methylphenol	ug/kg	6700		6670	31%	38%	20
N							
Acenaphthene	ug/kg	330.0	ND DS				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

SEMI-VOLATILE ORGANICS BY METHOD 8270

Batch: 65 28357

Samples: 65 0109160, 65 0109178, 65 0109186, 65 0109194, 65 0109208
65 0109216, 65 0109224, 65 0109232, 65 0109240, 65 0109259
65 0109267, 65 0109275, 65 0109283

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	650109283 B1216-S13	Spike	Spike Recv	Spike Dupl Recv	RPD
Acenaphthene	ug/kg	3300		3330	34%	41%	19%
2,4-Dinitrotoluene	ug/kg	330.0	ND DS				
2,4-Dinitrotoluene	ug/kg	3300		3330	27%	32%	17%
					N	N	
4-Nitrophenol	ug/kg	1600.0	ND DS				
4-Nitrophenol	ug/kg	16000		6670	32%	32%	0%
Pentachlorophenol	ug/kg	1600.0	ND DS				
Pentachlorophenol	ug/kg	16000		6670	23%	27%	16%
					N	N	
Pyrene	ug/kg	330.0	ND DS				
Pyrene	ug/kg	3300		3330	26%	38%	38%
					01	01	

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Phenol	ug/kg	3300	6670	57%
2-Chlorophenol	ug/kg	3300	6670	51%
1,4-Dichlorobenzene	ug/kg	3300	3330	50%
N-Nitroso-di-n-propylamine	ug/kg	3300	3330	50%
1,2,4-Trichlorobenzene	ug/kg	3300	3330	52%
4-Chloro-3-methylphenol	ug/kg	6700	6670	54%
Acenaphthene	ug/kg	3300	3330	52%
2,4-Dinitrotoluene	ug/kg	3300	3330	57%
4-Nitrophenol	ug/kg	16000	6670	56%
Pentachlorophenol	ug/kg	16000	6670	66%
Pyrene	ug/kg	3300	3330	56%

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

TCLP SEMIVOLATILES
Batch: 65 28153
Samples: 65 0109410

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Date Analyzed			091995
Pyridine	ug/L	500	ND
1,4-Dichlorobenzene	ug/L	100	ND
o-Cresol	ug/L	100	ND
Hexachloroethane	ug/L	100	ND
m & p-Cresol	ug/L	100	ND
Nitrobenzene	ug/L	100	ND
Hexachloro-1,3-butadiene	ug/L	100	ND
2,4,6-Trichlorophenol	ug/L	100	ND
2,4,5-Trichlorophenol	ug/L	100	ND
2,4-Dinitrotoluene	ug/L	100	ND
Hexachlorobenzene	ug/L	100	ND
Pentachlorophenol	ug/L	500	ND
2-Fluorophenol	% Recovery		41
Phenol-d5	% Recovery		79
Nitrobenzene-d5	% Recovery		73
2-Fluorobiphenyl	% Recovery		80
2,4,6-Tribromophenol	% Recovery		64
Terphenyl-d14	% Recovery		81

SPIKE:

Parameter	Units	MDL	650109410 B1216-S13	Spike	Spike Recv
Pyridine	ug/L	500.0	ND DS		
Pyridine	ug/L	500		1000	65%
1,4-Dichlorobenzene	ug/L	100.0	ND DS		
1,4-Dichlorobenzene	ug/L	100		1000	75%
o-Cresol	ug/L	100.0	ND DS		
o-Cresol	ug/L	100		1000	85%
Hexachloroethane	ug/L	100.0	ND DS		
Hexachloroethane	ug/L	100		1000	78%
m & p-Cresol	ug/L	100.0	ND DS

ENVIRONMENTAL LABORATORIES

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

TCLP SEMIVOLATILES

Batch: 65 28153
Samples: 65 0109410

SPIKE:

Parameter	Units	MDL	650109410 B1216-S13	Spike	Spike Recv
m & p-Cresol	ug/L	100		2000	87%
Nitrobenzene	ug/L	100.0	ND DS		
Nitrobenzene	ug/L	100		1000	77%
Hexachloro-1,3-butadiene	ug/L	100.0	ND DS		
Hexachloro-1,3-butadiene	ug/L	100		1000	66%
2,4,6-Trichlorophenol	ug/L	100.0	ND DS		
2,4,6-Trichlorophenol	ug/L	100		1000	92%
2,4,5-Trichlorophenol	ug/L	100.0	ND DS		
2,4,5-Trichlorophenol	ug/L	100		1000	82%
2,4-Dinitrotoluene	ug/L	100.0	ND DS		
2,4-Dinitrotoluene	ug/L	100		1000	77%
Hexachlorobenzene	ug/L	100.0	ND DS		
Hexachlorobenzene	ug/L	100		1000	66%
Pentachlorophenol	ug/L	500.0	ND DS		
Pentachlorophenol	ug/L	500		1000	78%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Pyridine	ug/L	500	100	68%
1,4-Dichlorobenzene	ug/L	100	100	75%
o-Cresol	ug/L	100	100	89%
Hexachloroethane	ug/L	100	100	74%
m & p-Cresol	ug/L	100	200	89%
Nitrobenzene	ug/L	100	100	83%
Hexachloro-1,3-butadiene	ug/L	100	100	63%
2,4,6-Trichlorophenol	ug/L	100	100	85%
2,4,5-Trichlorophenol	ug/L	100	100	80%
2,4-Dinitrotoluene	ug/L	100	100	83%
Hexachlorobenzene	ug/L	100	100	65%
Pentachlorophenol	ug/L	500	100	56%

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D5090950

Client Reference: REECO-1005-CUC-01-5

TCLP VOLATILES

Batch: 65 28250
Samples: 65 0109410

METHOD BLANK:

Parameter	Units	MDL	Method Blank 092295
Date Analyzed			
Vinyl chloride (TCLP Regulatory List)	ug/L	200	ND
1,1-Dichloroethylene (TCLP Reg. List)	ug/L	100	ND
2-Butanone (MEK) (TCLP Regulatory List)	ug/L	200	ND
Chloroform (TCLP Regulatory List)	ug/L	100	ND
1,2-Dichloroethane(TCLP Regulatory List)	ug/L	100	ND
Carbon tetrachloride (TCLP Reg. List)	ug/L	100	ND
Benzene (TCLP Regulatory List)	ug/L	100	ND
Trichloroethylene (TCLP Regulatory List)	ug/L	100	ND
Tetrachloroethylene (TCLP Reg. List)	ug/L	100	ND
Chlorobenzene (TCLP Regulatory List)	ug/L	100	ND
1,2-Dichloroethane-d4	% Recovery		97
Toluene-d8	% Recovery		93
p-Bromofluorobenzene	% Recovery		102

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	650109410 B1216-S13	Spike	Spike Recv	Spike Dupl Recv	RPD
Vinyl chloride (TCLP Regulatory List)	ug/L	10.0	ND DS				
Vinyl chloride (TCLP Regulatory List)	ug/L	200		1000	115%	93%	21%
1,1-Dichloroethylene (TCLP Reg. List)	ug/L	5.00	ND DS				
1,1-Dichloroethylene (TCLP Reg. List)	ug/L	100		1000	117% N	96%	20%
2-Butanone (MEK) (TCLP Regulatory List)	ug/L	10.0	ND DS				
2-Butanone (MEK) (TCLP Regulatory List)	ug/L	200		5000	77%	76%	1%
Chloroform (TCLP Regulatory List)	ug/L	5.00	ND DS				
Chloroform (TCLP Regulatory List)	ug/L	100		1000	93%	93%	0%
1,2-Dichloroethane(TCLP Regulatory List)	ug/L	5.00	ND DS				
1,2-Dichloroethane(TCLP Regulatory List)	ug/L	100		1000	91%	89%	2%
Carbon tetrachloride (TCLP Reg. List)	ug/L	5.00	ND DS				
Carbon tetrachloride (TCLP Reg. List)	ug/L	100		1000	90%	88%	2%
Benzene (TCLP Regulatory List)	ug/L	5.00	ND DS				

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

TCLP VOLATILES

Batch: 65 28250
Samples: 65 0109410

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	650109410 B1216-S13	Spike	Spike Recv	Spike Dupl Recv	RPD
Benzene (TCLP Regulatory List)	ug/L	100		1000	92%	90%	2%
Trichloroethylene (TCLP Regulatory List)	ug/L	5.00	ND DS				
Trichloroethylene (TCLP Regulatory List)	ug/L	100		1000	91%	87%	4%
						N	
Tetrachloroethylene (TCLP Reg. List)	ug/L	5.00	ND DS				
Tetrachloroethylene (TCLP Reg. List)	ug/L	100		1000	84%	83%	1%
Chlorobenzene (TCLP Regulatory List)	ug/L	5.00	ND DS				
Chlorobenzene (TCLP Regulatory List)	ug/L	100		1000	92%	88%	4%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Vinyl chloride (TCLP Regulatory List)	ug/L	10	50	99%
1,1-Dichloroethylene (TCLP Reg. List)	ug/L	5	50	99%
2-Butanone (MEK) (TCLP Regulatory List)	ug/L	10	250	82%
Chloroform (TCLP Regulatory List)	ug/L	5	50	99%
1,2-Dichloroethane (TCLP Regulatory List)	ug/L	5	50	97%
Carbon tetrachloride (TCLP Reg. List)	ug/L	5	50	91%
Benzene (TCLP Regulatory List)	ug/L	5	50	99%
Trichloroethylene (TCLP Regulatory List)	ug/L	5	50	95%
Tetrachloroethylene (TCLP Reg. List)	ug/L	5	50	103%
Chlorobenzene (TCLP Regulatory List)	ug/L	5	50	94%

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

TOTAL VOLATILE HYDROCARBONS AS GASOLINE

Batch: 65 28192

Samples: 65 0109160, 65 0109178, 65 0109186, 65 0109194, 65 0109208
65 0109216, 65 0109224, 65 0109232, 65 0109240, 65 0109259
65 0109267, 65 0109275, 65 0109283

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Light Hydrocarbons as Gasoline	ug/kg	50	ND
Surrogate Recovery	% Recovery		101

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	650109283 <u>B1216-S13</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPI</u>
Light Hydrocarbons as Gasoline	ug/kg	50	ND HB	1000	5%	5%	0%
					N	N	

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Light Hydrocarbons as Gasoline	ug/kg	50	1000	101%

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

VOLATILE ORGANICS BY SW-846 METHOD 8240

Batch: 65 28033

Samples: 65 0109143, 65 0109151

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Date Analyzed			091395
Chloromethane	ug/L	10	ND
Vinyl chloride	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
1,1-Dichloroethylene	ug/L	5	ND
Acetone	ug/L	10	ND
Carbon disulfide	ug/L	5	ND
Methylene chloride	ug/L	5	ND
Trans-1,2-dichloroethylene	ug/L	5	ND
Vinyl acetate	ug/L	10	ND
Cis-1,2-dichloroethylene	ug/L	5	ND
1,1-Dichloroethane	ug/L	5	ND
2-Butanone (MEK)	ug/L	10	ND
Chloroform	ug/L	5	ND
1,2-Dichloroethane	ug/L	5	ND
1,1,1-Trichloroethane	ug/L	5	ND
Carbon tetrachloride	ug/L	5	ND
Benzene	ug/L	5	ND
Trichloroethylene	ug/L	5	ND
1,2-Dichloropropane	ug/L	5	ND
Bromodichloromethane	ug/L	5	ND
Cis-1,3-dichloropropene	ug/L	5	ND
Trans-1,3-dichloropropene	ug/L	5	ND
1,1,2-Trichloroethane	ug/L	5	ND
Dibromochloromethane	ug/L	5	ND
Bromoform	ug/L	5	ND
4-Methyl-2-pentanone (MIBK)	ug/L	10	ND
Toluene	ug/L	5	ND
Tetrachloroethylene	ug/L	5	ND
2-Hexanone	ug/L	10	ND
Chlorobenzene	ug/L	5	ND

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

VOLATILE ORGANICS BY SW-846 METHOD 8240

Batch: 65 28033

Samples: 65 0109143, 65 0109151

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Ethyl benzene	ug/L	5	ND
Xylene, total	ug/L	5	ND
Styrene	ug/L	5	ND
1,1,2,2-Tetrachloroethane	ug/L	5	ND
1,2-Dichloroethane-d4	% Recovery		94
Toluene-d8	% Recovery		104
p-Bromofluorobenzene	% Recovery		107

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	650081737	Spike	Spike Recv	Spike Dupl Recv	RPI
1,1-Dichloroethylene	ug/L	5	ND	50.0	105%	107%	2%
Benzene	ug/L	5	ND	50.0	98%	101%	3%
Trichloroethylene	ug/L	5	ND	50.0	96%	99%	3%
Toluene	ug/L	5	ND	50.0	103%	106%	3%
Chlorobenzene	ug/L	5	ND	50.0	108%	110%	2%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
1,1-Dichloroethylene	ug/L	5	50.0	103%
Benzene	ug/L	5	50.0	94%
Trichloroethylene	ug/L	5	50.0	93%
Toluene	ug/L	5	50.0	100%
Chlorobenzene	ug/L	5	50.0	107%

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

VOLATILE ORGANICS BY SW-846 METHOD 8240

Batch: 65 28218

Samples: 65 0109160, 65 0109178, 65 0109186, 65 0109194, 65 0109208
65 0109216, 65 0109224, 65 0109232, 65 0109240, 65 0109259
65 0109267, 65 0109275, 65 0109283

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Date Analyzed			091295
Chloromethane	ug/kg	10	ND
Vinyl chloride	ug/kg	10	ND
Bromomethane	ug/kg	10	ND
Chloroethane	ug/kg	10	ND
1,1-Dichloroethylene	ug/kg	5	ND
Acetone	ug/kg	10	ND
Carbon disulfide	ug/kg	5	ND
Methylene Chloride	ug/kg	5	ND
Trans-1,2-dichloroethylene	ug/kg	5	ND
Vinyl acetate	ug/kg	10	ND
Cis-1,2-dichloroethylene	ug/kg	5	ND
1,1-Dichloroethane	ug/kg	5	ND
2-Butanone (MEK)	ug/kg	10	ND
Chloroform	ug/kg	5	ND
1,2-Dichloroethane	ug/kg	5	ND
1,1,1-Trichloroethane	ug/kg	5	ND
Carbon tetrachloride	ug/kg	5	ND
Benzene	ug/kg	5	ND
Trichloroethylene	ug/kg	5	ND
1,2-Dichloropropane	ug/kg	5	ND
Bromodichloromethane	ug/kg	5	ND
Cis-1,3-dichloropropene	ug/kg	5	ND
Trans-1,3-dichloropropene	ug/kg	5	ND
1,1,2-Trichloroethane	ug/kg	5	ND
Dibromochloromethane	ug/kg	5	ND
Bromoform	ug/kg	5	ND
4-Methyl-2-pentanone (MIBK)	ug/kg	10	ND
Toluene	ug/kg	5	ND
Tetrachloroethylene	ug/kg	5	ND
2-Hexanone	ug/kg	10	ND

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QUALITY CONTROL DATA

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

VOLATILE ORGANICS BY SW-846 METHOD 8240

Batch: 65 28218

Samples: 65 0109160, 65 0109178, 65 0109186, 65 0109194, 65 0109208
65 0109216, 65 0109224, 65 0109232, 65 0109240, 65 0109259
65 0109267, 65 0109275, 65 0109283

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Chlorobenzene	ug/kg	5	ND
Ethyl benzene	ug/kg	5	ND
Xylenes, (total)	ug/kg	5	ND
Styrene	ug/kg	5	ND
1,1,2,2-Tetrachloroethane	ug/kg	5	ND
1,2-Dichloroethane-d4	% Recovery		94
Toluene-d8	% Recovery		101
p-Bromofluorobenzene	% Recovery		106

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	650109283 B1216-S13	Spike	Spike Recv	Spike Dupl Recv	RPD
1,1-Dichloroethylene	ug/kg	5	ND	50.0	66%	67%	2%
					N	N	
Benzene	ug/kg	5	ND	50.0	97%	99%	2%
Trichloroethylene	ug/kg	5	ND	50.0	55%	57%	4%
					N	N	
Toluene	ug/kg	5	ND	50.0	114%	114%	0%
Chlorobenzene	ug/kg	5	ND	50.0	93%	96%	3%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
1,1-Dichloroethylene	ug/kg	5	50.0	96%
Benzene	ug/kg	5	50.0	93%
Trichloroethylene	ug/kg	5	50.0	91%
Toluene	ug/kg	5	50.0	97%
Chlorobenzene	ug/kg	5	50.0	104%

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FOOTNOTES
for pages 85 through 100

September 28, 1995
PACE Project Number: D50909501

Client Reference: REECO-1005-CUC-01-5

DS	Concentration found on diluted sample.
HB	High boiling point hydrocarbons are present in sample.
MDL	Method Detection Limit
N	Spiked sample recovery is not within control limits.
NC	No calculation due to value below detection limit.
ND	Not detected at or above the MDL.
O1	Duplicate RPD not within control limits.
RPD	Relative Percent Difference

PLM RESULTS

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accredited Laboratory #1896

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:

RES 30272-1

Client:

Pace, Incorporated

(CO)

Client Project:

REECO, 95-09-005

Date Samples Received:

September 19, 1995

Analysis Type:

PLM Short Report, Bulk

Turnaround:

3-5 Day

Note: The US EPA requires use of stratified analysis for NESHAP and AHERA compliance. Composite results only apply for specific exceptions.

Client Sample Number	Lab ID Number	Layer	Physical Description	Portion of Total Sample (%)	ASBESTOS CONTENT		Non-Asbestos Fibrous Components (%)							Non-Fibrous Components (%)
					Mineral	Visual Estimate (%)	ELL	L	Y	A	O	A	T	
							L	A	N	I	L	L	H	
							L	S	T	R	L	C	E	
							S	H					R	
B 1216-S1	EM 201818	A	Brown soil	100		ND	8	TR	0	0	0	0	0	92
B 1216-S2	EM 201819	A	Brown soil	100		ND	4	0	0	0	0	0	0	96
B 1216-S3	EM 201820	A	Brown soil	100		ND	12	0	0	0	0	0	0	88
B 1216-S4	EM 201821	A	Tan soil	100		ND	1	0	0	0	0	0	0	99
B 1216-S5	EM 201822	A	Tan soil	100		ND	TR	0	0	0	0	0	0	100
B 1216-S6	EM 201823	A	Brown soil	100		ND	4	0	0	0	0	0	0	96
B 1216-S7	EM 201824	A	Tan soil	100		ND	TR	0	0	0	0	0	0	100
B 1216-S8	EM 201825	A	Brown soil	100		ND	3	0	0	0	0	0	0	97
B 1216-S9	EM 201826	A	Brown soil	100		ND	3	0	0	0	0	0	0	97
B 1216-S10	EM 201827	A	Brown soil	100		ND	6	0	0	0	0	0	0	94
B 1216-S11	EM 201828	A	Brown soil	100		ND	10	0	0	0	0	0	0	90
B 1216-S12	EM 201829	A	Brown soil	100		ND	6	TR	TR	0	0	0	0	94
B 1216-S13	EM 201830	A	Brown soil	100		ND	5	TR	1	0	0	0	0	94

ND = None Detected
TR = Trace

CELL = Cellulose
Mat = Material

ORG = Organic
Trem-Act = Tremolite-Actinolite

WOLL = Wollastonite
BRUC = Brucite

GYP = Gypsum
SYNTH = Synthetic

Analyst: GB

Data QA

RADIOANALYTICAL RESULTS

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT
P.O.Box 98521, Las Vegas, NV 89193-8521

Page 1

Reported to: ERPD
D. D. Madsen
M/S 969

Report Date: 13-SEP-95
Sample Delivery Group: T608
Batch: 0501
Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
B1216-S1	CS137	GAM20	4.57E-01	3.8E+01		1.1E-01	pCi/g	09-07-95	09-08-95	4.00E+02	gm	SOIL G			05-01	G3230-0-25229
B1216-S1	K 40	GAM20	1.91E+01	2.2E+01		1.5E+00	pCi/g	09-07-95	09-08-95	4.00E+02	gm	SOIL G			05-01	G3230-0-25229
B1216-S1	RA226	GAM20	1.27E+00	2.8E+01		1.8E-01	pCi/g	09-07-95	09-08-95	4.00E+02	gm	SOIL G			05-01	G3230-0-25229
B1216-S1	TH228	GAM20	2.04E+00	2.2E+01		2.0E-01	pCi/g	09-07-95	09-08-95	4.00E+02	gm	SOIL G			05-01	G3230-0-25229
B1216-S1	TH232	GAM20	2.25E+00	4.0E+01		5.9E-01	pCi/g	09-07-95	09-08-95	4.00E+02	gm	SOIL G			05-01	G3230-0-25229
B1216-S2	CS137	GAM20	5.92E-01	3.2E+01		1.0E-01	pCi/g	09-07-95	09-08-95	3.81E+02	gm	SOIL G			05-01	G3230-1-25230
B1216-S2	K 40	GAM20	1.72E+01	2.3E+01		1.5E+00	pCi/g	09-07-95	09-08-95	3.81E+02	gm	SOIL G			05-01	G3230-1-25230
B1216-S2	RA226	GAM20	1.24E+00	2.9E+01		1.9E-01	pCi/g	09-07-95	09-08-95	3.81E+02	gm	SOIL G			05-01	G3230-1-25230
B1216-S2	TH228	GAM20	1.59E+00	2.4E+01		1.9E-01	pCi/g	09-07-95	09-08-95	3.81E+02	gm	SOIL G			05-01	G3230-1-25230
B1216-S2	TH232	GAM20	1.64E+00	3.9E+01		3.9E-01	pCi/g	09-07-95	09-08-95	3.81E+02	gm	SOIL G			05-01	G3230-1-25230

Comment:
GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by:

Date:

9/13/95

Approved by:

Date:

9-14-95

8/15

(Level 1)

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT

P.O.Box 98521, Las Vegas, NV 89193-8521

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Reported to: ERPD

D. D. Madsen

M/S 969

Report Date: 13-SEP-95

Sample Delivery Group: T608

Batch: 0501

Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
B1216-S3	CS137	GAM20	1.21E+00	2.3E+01		1.1E-01	pCi/g	09-07-95	09-08-95	3.93E+02	gm	SOIL G			05-01	G3230-2-25231
B1216-S3	K 40	GAM20	2.46E+01	2.0E+01		1.5E+00	pCi/g	09-07-95	09-08-95	3.93E+02	gm	SOIL G			05-01	G3230-2-25231
B1216-S3	RA226	GAM20	1.16E+00	3.5E+01		2.6E-01	pCi/g	09-07-95	09-08-95	3.93E+02	gm	SOIL G			05-01	G3230-2-25231
B1216-S3	TH228	GAM20	1.91E+00	2.3E+01		2.1E-01	pCi/g	09-07-95	09-08-95	3.93E+02	gm	SOIL G			05-01	G3230-2-25231
B1216-S3	TH232	GAM20	1.04E+00	5.4E+01		4.4E-01	pCi/g	09-07-95	09-08-95	3.93E+02	gm	SOIL G			05-01	G3230-2-25231
B1216-S4	K 40	GAM20	2.89E+01	1.8E+01		1.3E+00	pCi/g	09-07-95	09-08-95	7.67E+02	gm	SOIL G			05-01	G3230-3-25232
B1216-S4	RA226	GAM20	1.21E+00	3.4E+01		2.6E-01	pCi/g	09-07-95	09-08-95	7.67E+02	gm	SOIL G			05-01	G3230-3-25232
B1216-S4	TH228	GAM20	2.50E+00	2.1E+01		2.3E-01	pCi/g	09-07-95	09-08-95	7.67E+02	gm	SOIL G			05-01	G3230-3-25232
B1216-S4	TH232	GAM20	2.54E+00	3.9E+01		6.5E-01	pCi/g	09-07-95	09-08-95	7.67E+02	gm	SOIL G			05-01	G3230-3-25232
B1216-S5	CS137	GAM20	3.23E-01	4.4E+01		1.0E-01	pCi/g	09-07-95	09-08-95	5.05E+02	gm	SOIL G			05-01	G3230-4-25233

Comment:

GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by:

Date:

9/13/95

Approved by:

Date:

9-14-95

(Level 1)

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT
P.O.Box 98521, Las Vegas, NV 89193-8521

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Reported to: ERPD
D. D. Madsen
M/S 969

Report Date: 13-SEP-95
Sample Delivery Group: T608
Batch: 0501
Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
B1216-S5	K 40	GAM20	2.83E+01	2.0E+01		1.4E+00	pCi/g	09-07-95	09-06-95	5.05E+02	gm	SOIL G			05-01	G3230-4-25233
B1216-S5	RA226	GAM20	1.15E+00	2.9E+01		1.7E-01	pCi/g	09-07-95	09-06-95	5.05E+02	gm	SOIL G			05-01	G3230-4-25233
B1216-S5	TH228	GAM20	2.50E+00	2.0E+01		2.2E-01	pCi/g	09-07-95	09-06-95	5.05E+02	gm	SOIL G			05-01	G3230-4-25233
B1216-S5	TH232	GAM20	2.11E+00	3.9E+01		5.3E-01	pCi/g	09-07-95	09-06-95	5.05E+02	gm	SOIL G			05-01	G3230-4-25233
B1216-S6	CS137	GAM20	4.77E-01	3.7E+01		1.1E-01	pCi/g	09-07-95	09-06-95	5.34E+02	gm	SOIL G			05-01	G3230-5-25234
B1216-S6	K 40	GAM20	2.82E+01	1.9E+01		1.4E+00	pCi/g	09-07-95	09-06-95	5.34E+02	gm	SOIL G			05-01	G3230-5-25234
B1216-S6	RA226	GAM20	1.53E+00	2.8E+01		2.4E-01	pCi/g	09-07-95	09-06-95	5.34E+02	gm	SOIL G			05-01	G3230-5-25234
B1216-S6	TH228	GAM20	2.46E+00	2.1E+01		2.2E-01	pCi/g	09-07-95	09-06-95	5.34E+02	gm	SOIL G			05-01	G3230-5-25234
B1216-S6	TH232	GAM20	3.08E+00	2.8E+01		3.9E-01	pCi/g	09-07-95	09-06-95	5.34E+02	gm	SOIL G			05-01	G3230-5-25234
B1216-S7	CS137	GAM20	6.95E-01	2.9E+01		9.8E-02	pCi/g	09-07-95	09-06-95	4.11E+02	gm	SOIL G			05-01	G3230-6-25235

Comment:
GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by:

Date:

9/13/95

Approved by:

Date:

9-14-95

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT
P.O.Box 98521, Las Vegas, NV 89193-8521

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Reported to: ERPD
D. D. Madsen
M/S 969

Report Date: 13-SEP-95
Sample Delivery Group: T608
Batch: 0501
Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
B1216-S7	K 40	GAM20	1.99E+01	2.2E+01		1.5E+00	pCi/g	09-07-95	09-08-95	4.11E+02	gm	SOIL G			05-01	G3230-6-25235
B1216-S7	RA226	GAM20	1.03E+00	3.3E+01		2.0E-01	pCi/g	09-07-95	09-08-95	4.11E+02	gm	SOIL G			05-01	G3230-6-25235
B1216-S7	TH228	GAM20	2.04E+00	2.2E+01		2.2E-01	pCi/g	09-07-95	09-08-95	4.11E+02	gm	SOIL G			05-01	G3230-6-25235
B1216-S7	TH232	GAM20	1.97E+00	3.5E+01		3.9E-01	pCi/g	09-07-95	09-08-95	4.11E+02	gm	SOIL G			05-01	G3230-6-25235
QA BKG EMPTY BTL U05	No Nucl Det	GAM20	0.00E+00	0.0E+00		0.0E+00	NA	09-07-95	07-01-95	1.00E+00	gm	SOIL G			05-01	Q0332-0-00370
QA SP:NAS-A0271	AM241	GAM20	1.91E+02	9.5E+00		3.3E+00	pCi/g	09-07-95	04-01-92	9.00E+02	ml	QUAL		106.1	05-01	Q0320-4-14448
QA SP:NAS-A0271	CO60	GAM20	3.32E+02	8.3E+00		1.4E+00	pCi/g	09-07-95	04-01-92	9.00E+02	ml	QUAL		100.3	05-01	Q0320-4-14448
QA SP:NAS-A0271	CS137	GAM20	2.31E+02	8.2E+00		1.0E+00	pCi/g	09-07-95	04-01-92	9.00E+02	ml	QUAL		102.3	05-01	Q0320-4-14448
QA SP:QAC-5	AM241	GAM20	1.05E+08	7.3E+00		1.1E+03	pCi/g	09-07-95	01-01-91	1.00E+00	sm	Qualit		104.9	05-01	Q0318-0-14445
QA SP:QAC-5	CO60	GAM20	7.15E+04	8.3E+00		2.9E+02	pCi/g	09-07-95	01-01-91	1.00E+00	sm	Qualit		104.3	05-01	Q0318-0-14445

Comment:
GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by:

Date:

9/13/95

Approved by:

Date:

9-14-95

(Level 1)

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT
P.O.Box 98521, Las Vegas, NV 89193-8521

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Reported to: ERPD
D. D. Madsen
M/S 969

Report Date: 13-SEP-95
Sample Delivery Group: T608
Batch: 0501
Program: 117

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
QA SP:QAC-5	CS137	GAM20	6.77E+04	7.8E+00		1.5E+02	pCi/g	09-07-95	01-01-91	1.00E+00	sm	Qualit		107.6	05-01	Q0318-0-14445

Comment:
GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by:

Date:

9/13/95

Approved by:

Date:

9-14-95

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT

P.O.Box 98521, Las Vegas, NV 89193-8521

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Reported to: ERPD

D. D. Madsen

M/S 969

Report Date: 13-SEP-95

Sample Delivery Group: T608

Batch: 0701

Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
B1216-S10 <i>mm *</i>	CS137	GAM20	4.47E-01	3.4E+01		9.1E-02	pCi/g	09-07-95	09-08-95	4.59E+02	gm	SOIL G			07-01	G3230-9-25238
B1216-S10	K 40	GAM20	2.46E+01	1.7E+01		8.8E-01	pCi/g	09-07-95	09-08-95	4.59E+02	gm	SOIL G			07-01	G3230-9-25238
B1216-S10	RA226	GAM20	1.02E+00	2.8E+01		1.4E-01	pCi/g	09-07-95	09-08-95	4.59E+02	gm	SOIL G			07-01	G3230-9-25238
B1216-S10	TH228	GAM20	1.92E+00	2.0E+01		1.5E-01	pCi/g	09-07-95	09-08-95	4.59E+02	gm	SOIL G			07-01	G3230-9-25238
B1216-S10	TH232	GAM20	1.84E+00	3.3E+01		3.5E-01	pCi/g	09-07-95	09-08-95	4.59E+02	gm	SOIL G			07-01	G3230-9-25238
B1216-S11 <i>mm</i>	CS137	GAM20	4.08E-01	3.2E+01		7.1E-02	pCi/g	09-07-95	09-08-95	3.80E+02	gm	SOIL G			07-01	G3230-A-25239
B1216-S11	K 40	GAM20	1.99E+01	1.9E+01		9.3E-01	pCi/g	09-07-95	09-08-95	3.80E+02	gm	SOIL G			07-01	G3230-A-25239
B1216-S11	RA226	GAM20	1.06E+00	2.9E+01		1.7E-01	pCi/g	09-07-95	09-08-95	3.80E+02	gm	SOIL G			07-01	G3230-A-25239
B1216-S11	TH228	GAM20	1.74E+00	2.2E+01		1.8E-01	pCi/g	09-07-95	09-08-95	3.80E+02	gm	SOIL G			07-01	G3230-A-25239
B1216-S11	TH232	GAM20	1.68E+00	3.6E+01		3.9E-01	pCi/g	09-07-95	09-08-95	3.80E+02	gm	SOIL G			07-01	G3230-A-25239

Comment:

GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by: *[Signature]*

Date: *9/13/95*

Approved by: *Steven Y. Bakhtian*

Date: *9-14-95*

(Level 1)

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT

P.O.Box 98521, Las Vegas, NV 89193-8521

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Reported to: ERPD

D. D. Madsen

M/S 969

Report Date: 13-SEP-95

Sample Delivery Group: T608

Batch: 0701

Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
B1216-S12	CS137	GAM20	2.85E-01	4.5E+01		8.6E-02	pCi/g	09-07-95	09-06-95	4.60E+02	gm	SOIL G			07-01	G3230-B-25240
B1216-S12	K 40	GAM20	1.73E+01	1.9E+01		8.8E-01	pCi/g	09-07-95	09-06-95	4.60E+02	gm	SOIL G			07-01	G3230-B-25240
B1216-S12	RA226	GAM20	9.84E-01	3.1E+01		1.8E-01	pCi/g	09-07-95	09-06-95	4.60E+02	gm	SOIL G			07-01	G3230-B-25240
B1216-S12	TH228	GAM20	1.66E+00	2.2E+01		1.8E-01	pCi/g	09-07-95	09-06-95	4.60E+02	gm	SOIL G			07-01	G3230-B-25240
B1216-S12	TH232	GAM20	1.75E+00	3.0E+01		2.5E-01	pCi/g	09-07-95	09-06-95	4.60E+02	gm	SOIL G			07-01	G3230-B-25240
B1216-S13	CS137	GAM20	1.49E-01	6.9E+01		8.5E-02	pCi/g	09-07-95	09-06-95	4.81E+02	gm	SOIL G			07-01	G3230-C-25241
B1216-S13	K 40	GAM20	1.46E+01	2.0E+01		8.7E-01	pCi/g	09-07-95	09-06-95	4.81E+02	gm	SOIL G			07-01	G3230-C-25241
B1216-S13	RA226	GAM20	7.90E-01	2.9E+01		1.1E-01	pCi/g	09-07-95	09-06-95	4.81E+02	gm	SOIL G			07-01	G3230-C-25241
B1216-S13	TH228	GAM20	1.41E+00	2.4E+01		1.7E-01	pCi/g	09-07-95	09-06-95	4.81E+02	gm	SOIL G			07-01	G3230-C-25241
B1216-S13	TH232	GAM20	1.50E+00	3.3E+01		2.6E-01	pCi/g	09-07-95	09-06-95	4.81E+02	gm	SOIL G			07-01	G3230-C-25241

Comment:

GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:

E = Estimated Quantity

H = High Recovery for Sample

J = Result is less than the RDL

L = Low Recovery for Sample

P = Preliminary Results

Q = Bad Instrument Quality Control, Result is OK

R = Results are Unusable, Resampling is Necessary

U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by:

Date:

9/13/95

Approved by:

Date:

9-14-95

(Level 1)

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT
P.O.Box 98521, Las Vegas, NV 89193-8521

Page 8

Reported to: ERPD
D. D. Madsen
M/S 969

Report Date: 13-SEP-95
Sample Delivery Group: T608
Batch: 0701
Program: 720

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
B1216-S8	CS137	GAM20	2.29E-01	5.2E+01		8.9E-02	pCi/g	09-07-95	09-08-95	5.10E+02	gm	SOIL G			07-01	G3230-7-25236
B1216-S8	K 40	GAM20	2.11E+01	1.8E+01		9.8E-01	pCi/g	09-07-95	09-08-95	5.10E+02	gm	SOIL G			07-01	G3230-7-25236
B1216-S8	RA226	GAM20	1.02E+00	3.0E+01		1.6E-01	pCi/g	09-07-95	09-06-95	5.10E+02	gm	SOIL G			07-01	G3230-7-25236
B1216-S8	TH228	GAM20	2.18E+00	1.9E+01		1.6E-01	pCi/g	09-07-95	09-08-95	5.10E+02	gm	SOIL G			07-01	G3230-7-25236
B1216-S8	TH232	GAM20	1.59E+00	3.3E+01		2.9E-01	pCi/g	09-07-95	09-06-95	5.10E+02	gm	SOIL G			07-01	G3230-7-25236
B1216-S9	CS137	GAM20	4.90E-01	3.4E+01		9.5E-02	pCi/g	09-07-95	09-08-95	4.01E+02	gm	SOIL G			07-01	G3230-8-25237
B1216-S9	K 40	GAM20	1.84E+01	1.9E+01		9.1E-01	pCi/g	09-07-95	09-06-95	4.01E+02	gm	SOIL G			07-01	G3230-8-25237
B1216-S9	RA226	GAM20	9.89E-01	3.2E+01		1.8E-01	pCi/g	09-07-95	09-08-95	4.01E+02	gm	SOIL G			07-01	G3230-8-25237
B1216-S9	TH228	GAM20	1.78E+00	2.1E+01		1.8E-01	pCi/g	09-07-95	09-06-95	4.01E+02	gm	SOIL G			07-01	G3230-8-25237
B1216-S9	TH232	GAM20	1.99E+00	3.0E+01		3.0E-01	pCi/g	09-07-95	09-08-95	4.01E+02	gm	SOIL G			07-01	G3230-8-25237

Comment:
GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:

E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by:

Date:

9/13/95

Approved by:

Date:

9-14-95

Reynolds Electrical & Engineering Co., Inc.

ANALYTICAL SERVICES DEPARTMENT
P.O.Box 98521, Las Vegas, NV 89193-8521

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Reported to: ERPD
D. D. Madsen
M/S 969

Report Date: 13-SEP-95
Sample Delivery Group: T608
Batch: 0701
Program: 502

Report No. :

Sample ***** Identification *****	Isotope	Analysis	Result	Error %	Qual Flag	Detection Limit	Result Units	Analysis Date	Sample Date	Size	Size Units	Type Matrix	Tracer Yield %	Spike Recv %	System Detector	Packet-Item Sample
QA BKG EMPTY BTL U07	No Nucl Det	GAM20	0.00E+00	0.0E+00		0.0E+00	NA	09-07-95	07-01-95	1.00E+00	gm	SOIL G			07-01	Q0333-0-00371
QA SP:NAS-A2377	AM241	GAM20	2.22E+02	1.0E+01		5.3E+00	pCi/g	09-07-95	07-01-94	5.40E+02	ml	QUAL		105.5	07-01	Q0371-3-14449
QA SP:NAS-A2377	CO60	GAM20	2.95E+02	8.0E+00		8.9E-01	pCi/g	09-07-95	07-01-94	5.40E+02	ml	QUAL		101.8	07-01	Q0371-3-14449
QA SP:NAS-A2377	CS137	GAM20	2.28E+02	7.9E+00		8.0E-01	pCi/g	09-07-95	07-01-94	5.40E+02	ml	QUAL		101.7	07-01	Q0371-3-14449
QA SP:QAC-7	AM241	GAM20	8.30E+05	7.3E+00		9.9E+02	pCi/g	09-07-95	01-01-91	1.00E+00	sm	Qualit		82.9	07-01	Q0318-2-14447
QA SP:QAC-7	CO60	GAM20	6.38E+04	8.1E+00		1.9E+02	pCi/g	09-07-95	01-01-91	1.00E+00	sm	Qualit		93.1	07-01	Q0318-2-14447
QA SP:QAC-7	CS137	GAM20	5.88E+04	7.7E+00		1.1E+02	pCi/g	09-07-95	01-01-91	1.00E+00	sm	Qualit		90.2	07-01	Q0318-2-14447

Comment:
GAM20 = 20 MINUTE GAMMA SCAN

Qualification Flags:
E = Estimated Quantity
H = High Recovery for Sample
J = Result is less than the RDL
L = Low Recovery for Sample
P = Preliminary Results
Q = Bad Instrument Quality Control, Result is OK
R = Results are Unusable, Resampling is Necessary
U = Result is less than Minimum Detectable Activity

Note: % Error is the 2.0 Sigma Error

Prepared by: Date: 9/13/95

Approved by: Date: 9-14-95

***** End of Report *****

(Level 1)

SUPPORTING DATA

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-09-004, -005

CLIENT: ERPD - DAVE MADSEN

LABORATORY: PACE

DATE REVIEWED: 10/12/95

REVIEWED BY:

VOLATILES:

MATRIX: SOIL

ARE VOA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	BFB	08-23-95/1641	YES
	BFB	09-12-95/0923	YES
	BFB	09-13-95/0838	YES
	BFB	09-15-95/0905	YES
2. CALIBRATION	INITIAL	08-23-95	YES
	CON. CAL.	09-12-95/0957	YES
	CON. CAL.	09-13-95/0910	YES
	CON. CAL.	09-15-95/0939	YES
3. METHOD BLANK	SYSTEM BLANK	09-12-95/1042	YES
	SYSTEM BLANK	09-13-95/0940	YES
	SYSTEM BLANK	09-15-95/1014	YES
	LCS	09-12-95/1143	YES
	LCS	09-13-95/1010	YES
	LCSD	09-13-95/1040	YES
	LCS	09-15-95/1044	YES
	LCSD	09-15-95/1133	YES
4. TRIP BLANK	95DDM0906-1	09-13-95/1542	YES
	95DDM0906-2	09-13-95/1611	YES
5. SAMPLES	B1216-S1	09-12-95/1455	YES
	B1216-S2	09-15-95/1214	YES
	B1216-S3	09-12-95/1556	YES
	B1216-S4	09-12-95/1626	YES
	B1216-S5	09-12-95/1657	YES
	B1216-S6	09-12-95/1727	YES
	B1216-S7	09-12-95/1758	YES
	B1216-S8	09-12-95/1828	YES
	B1216-S9	09-12-95/1859	YES
	B1216-S10	09-12-95/1929	YES
	B1216-S11	09-12-95/2000	YES
	B1216-S12	09-12-95/2030	YES
	B1216-S13	09-12-95/1325	YES
	B1216-S13 MS	09-12-95/1355	YES
	B1216-S13 MSD	09-12-95/1425	YES

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

DATA PACKAGE REVIEW

VOLATILES (continued):

		<u>#DAYS</u>	<u>ACCEPTABLE</u>
a. Date Sampled:	<u>09-06-95</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>09-06-95</u>	<u>0</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>09-09-95</u>	<u>3</u>	<u>YES</u>
d. Date Extracted:	<u>N/A</u>	<u>N/A</u>	<u>14</u>
e. Date Analyzed:	<u>09-12 thru 09-15</u>	<u>6 - 9</u>	<u>14</u>
10. Correct Conc units used:	<u>YES</u>		
11. CALCULATIONS ACCEPTABLE:	<u>YES</u>		
12. ARE AREAS ACCEPTABLE:	<u>YES</u>		
13. RRT IS ACCEPTABLE:	<u>YES</u>		
14. FORMS ACCEPTABLE:	<u>YES</u>		
15. Chain-of-Custody agrees:	<u>YES</u>		

COMMENTS: INTERNAL STANDARDS: Recovery of 1,4-difluorobenzene and chlorobenzene-d5 were outside the established control limits (low) for sample B1216-S13, its matrix spike and matrix spike duplicate. Recovery of chlorobenzene-d5 was outside the established control limits (low) for samples B1216-S1, B1216-S8, and B1216-S9. Similar recoveries were obtained upon reanalysis of the samples. Recovery of 1,4-difluorobenzene and chlorobenzene-d5 were outside the established control limits (low) for samples B1216-S11 and B1216-S12. Similar recoveries were obtained upon reanalysis. Since recoveries were in control in the System Blank and Laboratory Control Sample, the poor recoveries have been attributed to matrix effects.

SURROGATES: Recoveries of toluene-d8 (high) and bromofluorobenzene (low) were outside control limits in samples B1216-S8, B1216-S9, B1216-S11, and B1216-S13. Similar recoveries were seen in the matrix spike and matrix spike duplicate prepared from sample B1216-S13. Since recoveries were in control in the System Blank and Laboratory Control Sample, the poor recoveries have been attributed to matrix effects.

SPIKED COMPOUNDS: Recoveries of 1,1-dichloroethylene and trichloroethylene were outside (low) the established control limits. Since recoveries were in control in the Laboratory Control Sample, the poor recoveries have been attributed to matrix effects.

EFRE-2258 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-09-004, -005

CLIENT: ERPD - DAVE MADSEN

LABORATORY: PACE

DATE REVIEWED: 10/16/95

REVIEWED BY:

TCLP VOLATILES:

MATRIX: SOIL

ARE VOA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	BFB	09-18-95/1931	YES
	BFB	09-22-95/0859	YES
2. CALIBRATION	INITIAL	09-18-95	YES
	CON. CAL.	09-22-95/0929	YES
3. METHOD BLANK	SYSTEM BLANK	09-22-95/0959	YES
	ZHE BLANK	09-22-95/1115	YES
	LCS	09-22-95/1028	YES
4. TRIP BLANK	95DDM0906-1	09-13-95/1542	YES
	95DDM0906-2	09-13-95/1611	YES
5. SAMPLES	B1216-S13	09-22-95/1145	YES
	B1216-S13 MS	09-22-95/1223	YES
	B1216-S13 MSD	09-22-95/1253	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:	09-06-95	0	0
b. Date ACS Received:	09-06-95	0	YES
c. Date Contract Lab Received:	09-09-95	3	YES
d. Date Extracted:	09-18-95	12	14
e. Date Analyzed:	09-22-95	4	14
10. Correct Conc units used:	YES		
11. CALCULATIONS ACCEPTABLE:	YES		
12. ARE AREAS ACCEPTABLE:	YES		
13. RRT IS ACCEPTABLE:	YES		
14. FORMS ACCEPTABLE:	YES		
15. Chain-of-Custody agrees:	YES		

COMMENTS: SURROGATES: Recovery of toluene-d8 (high) was outside control limits in sample B1216-S13 and the Laboratory Control Sample. Recovery of bromofluorobenzene in the matrix spike duplicate was outside (low) control limits.

SPIKED COMPOUNDS: Recoveries of 1,1-dichloroethylene in the matrix spike (high) and trichloroethylene in the matrix spike duplicate (low) were outside laboratory established control limits. Since recoveries were in control in the Laboratory Control Sample, the poor recoveries have been attributed to matrix effects.

SEE the volatiles review sheet for QC of 9/13/95.

EFRE-2258 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-09-004, -005

CLIENT: ERPD - DAVE MADSEN

LABORATORY: PACE

DATE REVIEWED: 10/16/95

REVIEWED BY:

SEMIVOLATILES:

MATRIX: SOIL

ARE BNA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	DFTPP	09-26-95/0936	YES
	DFTPP	09-27-95/1149	YES
2. CALIBRATION	INITIAL	09-26-95	YES
	CON. CAL.	09-27-95/1204	YES
3. METHOD BLANK	METHOD BLANK	09-26-95/1422	YES
	METHOD BLANK	09-27-95/1422	YES
	LAB CONTROL	09-26-95/1454	YES
	LAB CONTROL	09-27-95/1454	YES
4. SAMPLES	B1216-S1	09-26-95/1702	YES
	B1216-S2	09-26-95/1734	YES
	B1216-S3	09-26-95/1806	YES
	B1216-S4	09-26-95/1838	YES
	B1216-S5	09-26-95/1910	YES
	B1216-S6	09-26-95/1942	YES
	B1216-S7	09-26-95/2014	YES
	B1216-S8	09-26-95/2045	YES
	B1216-S9	09-26-95/2117	YES
	B1216-S10	09-27-95/1459	YES
	B1216-S11	09-27-95/1531	YES
	B1216-S12	09-27-95/1612	YES
	B1216-S13	09-26-95/1526	YES
	B1216-S13 MS	09-26-95/1558	YES
	B1216-S13 MSD	09-26-95/1629	YES

5. SURROGATE RECOVERY ACCEPTABLE:	<u>YES</u>
6. MS/MSD RECOVERY ACCEPTABLE:	<u>YES</u>
7. METHOD BLANK ACCEPTABLE:	<u>YES</u>
8. HOLDING TIMES ACCEPTABLE:	<u>YES</u>

		#DAYS	ACCEPTABLE
a. Date Sampled:	<u>09-06-95</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>09-06-95</u>	<u>0</u>	<u>1</u>
c. Date Contract Lab Received:	<u>09-09-95</u>	<u>3</u>	<u>YES</u>
d. Date Extracted:	<u>09-19-95</u>	<u>13</u>	<u>14</u>
e. Date Analyzed:	<u>09-26 & 09-27</u>	<u>7 & 8</u>	<u>40</u>

DATA PACKAGE REVIEW

SEMIVOLATILES (continued):

9. Correct conc units used:	<u>YES</u>
10. CALCULATIONS ACCEPTABLE:	<u>YES</u>
11. ARE 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: INTERNAL STANDARDS: The later eluting internal standards were recovered outside the laboratory established control limits (low) in samples B1216-S2, and -S4 through -S9. The probable cause was attributed to matrix effect.

DILUTIONS: All samples except B1216-S4 through -S8 and B1216-S10 were diluted prior to analysis due to matrix interference. The reporting limits for all diluted samples were adjusted accordingly.

BLANK: The method blank demonstrated contamination of di-n-butylphthalate at a level above the reporting limit. Di-n-butylphthalate was not detected in any of the samples.

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: The matrix spike and matrix spike duplicate were performed on sample B1216-S13. Recoveries of 4-chloro-3-methylphenol, 2,4-dinitrotoluene, and pentachlorophenol were outside (low) control limits in the matrix spike while 2,4-dinitrotoluen and pentaclorophenol were out (low) in the matrix spike duplicate. The Relative Percent Difference for pyrene was outside acceptable limits. Similar recoveries were seen upon reanalysis of the samples.

EFRE-2260 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-09-004, -005

CLIENT: ERPD - DAVE MADSEN

LABORATORY: PACE

DATE REVIEWED: 10/16/95

REVIEWED BY:

TCLP SEMIVOLATILES:

MATRIX: SOIL

ARE BNA DATA ACCEPTABLE: YES

	SAMPLE NO.	DATE/TIME	CRITERIA ACCEPTABLE
1. TUNE	DFTPP	09-11-95/1542	YES
	DFTPP	09-19-95/1243	YES
2. CALIBRATION	INITIAL	09-11-95	YES
	CON. CAL.	09-19-95/1257	YES
3. METHOD BLANK	METHOD BLANK	09-19-95/1339	YES
	LAB CONTROL	09-19-95/1412	YES
4. SAMPLES	B1216-S13	09-19-95/1446	YES
	B1216-S13 MS	09-19-95/1520	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:	09-06-95	0	0
b. Date ACS Received:	09-06-95	0	1
c. Date Contract Lab Received:	09-09-95	3	YES
d. Date Extracted:	09-14-95	8	14
e. Date Analyzed:	09-19-95	5	40

9. Correct conc units used:	YES
10. CALCULATIONS ACCEPTABLE:	YES
11. ARE AREAS ACCEPTABLE:	YES
12. RRT IS ACCEPTABLE:	YES
13. FORMS ACCEPTABLE:	YES
14. Chain-of-Custody agrees:	YES

COMMENTS: SURROGATES: Phenol-d5 was recovered outside (low) control limits in sample B1216-S13.

MATRIX SPIKE: The matrix spike was prepared from the sample and recovered all spiked compounds at acceptable levels.

EFRE-2260 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-09-004, -005

CLIENT: ERPD - DAVE MADSEN

LABORATORY: PACE

DATE REVIEWED: 10/16/95

REVIEWED BY:

TPH - GASOLINE:

MATRIX: SOIL

ARE TPH DATA ACCEPTABLE: YES

ARE CRITERIA MET

1. QC SAMPLES ACCEPTABLE
2. MATRIX SPIKE ACCEPTABLE
3. METHOD BLANK ACCEPTABLE
4. HOLDING TIMES ACCEPTABLE

YES

YES

YES

YES

- a. Date Sampled:
- b. Date ACS Received:
- c. Date Contract Lab Received:
- d. Date Extracted:
- e. Date Analyzed:

09-06-95

09-06-95

09-09-95

N/A

09-16-95

DAYS

0

0

3

N/A

10

ACCEPTABLE

0

YES

YES

N/A

14

5. CALCULATIONS ACCEPTABLE:
6. CORRECT CONC. UNITS USED:
7. FORMS ACCEPTABLE:
8. CHAIN-OF-CUSTODY AGREES:

YES

YES

YES

YES

COMMENTS: The matrix spike and matrix spike duplicate were prepared from sample B1216-S13. Neither was recovered at an acceptable level. All samples exhibited poor (low) recoveries of the bromofluorobenzene surrogate. These recovery outliers have been attributed to matrix effects.

EFRE-2261 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-09-004, -005

CLIENT: ERPD - DAVE MADSEN

LABORATORY: PACE

DATE REVIEWED: 10/16/95

REVIEWED BY:

TPH - DIESEL/OIL:

MATRIX: SOIL

ARE TPH DATA ACCEPTABLE: YES

ARE CRITERIA MET

1. QC SAMPLES ACCEPTABLE
2. MATRIX SPIKE ACCEPTABLE
3. METHOD BLANK ACCEPTABLE
4. HOLDING TIMES ACCEPTABLE

YES

YES

YES

YES

- a. Date Sampled:
- b. Date ACS Received:
- c. Date Contract Lab Received:
- d. Date Extracted:
- e. Date Analyzed:

09-06-95

09-06-95

09-09-95

09-16-95

09-18-95

DAYS

0

0

3

10

2

ACCEPTABLE

0

YES

YES

14

40

5. CALCULATIONS ACCEPTABLE:
6. CORRECT CONC. UNITS USED:
7. FORMS ACCEPTABLE:
8. CHAIN-OF-CUSTODY AGREES:

YES

YES

YES

YES

COMMENTS: Samples B1216-S1, -S2, -S9, -S11, -S12, -S13 and the matrix spike and matrix spike duplicate prepared from sample B1216-S13 were diluted prior to analysis due to matrix interference. Reporting limits for these samples have been raised accordingly. The recoveries of the diesel matrix spikes could not be calculated due to the level of oil found in the sample.

EFRE-2261 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-09-004, -005

CLIENT: ERPD - DAVE MADSEN

LABORATORY: PACE

DATE REVIEWED: 10/17/95

REVIEWED BY:

TCLP METALS:

MATRIX: SOIL

ARE METALS DATA ACCEPTABLE: YES

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

		# DAYS	ACCEPTABLE
a. Sample Date:	<u>09-06-95</u>	<u>0</u>	<u>0</u>
b. Date ACS Received:	<u>09-06-95</u>	<u>0</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>09-09-95</u>	<u>3</u>	<u>YES</u>
d. Date Hg Extracted:	<u>09-12-95</u>	<u>6</u>	<u>28</u>
e. Date Hg Analyzed:	<u>09-21-95</u>	<u>9</u>	<u>28</u>
f. Date Others Extracted:	<u>09-12-95</u>	<u>6</u>	<u>180</u>
g. Date Others Analyzed:	<u>09-22-95</u>	<u>10</u>	<u>180</u>

5. Are Forms correct:	<u>YES</u>
6. Are correct concentration units used:	<u>YES</u>
7. Are analyses completed:	<u>YES</u>
8. Chain-of-Custody agrees:	<u>YES</u>

COMMENTS: METALS: All samples were diluted prior to analysis due to the levels of sodium found.

MERCURY: Nothing unusual occurred during analysis.

EFRE-2262 (03/93)

DATA PACKAGE REVIEW

ACS PACKET NUMBER: 95-09 005

CLIENT: ERPD - DAVE MADSEN

LABORATORY: PACE

DATE REVIEWED: 10/17/95

REVIEWED BY:

OTHER ANALYSES: PLM

MATRIX: BULK

ARE PLM DATA ACCEPTABLE: YES

1. METHOD/TRIP/FIELD BANK 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>09-06-95</u>	<u>0</u>	<u>0</u>
b. Date ACS Receive:	<u>09-06-95</u>	<u>0</u>	<u>YES</u>
c. Date Contract Lab Received:	<u>09-19-95</u>	<u>13</u>	<u>YES</u>
d. Date Extracted:	<u>N/A</u>	<u>N/A</u>	<u>YES</u>
e. Date Analyzed:	<u>09-21-95</u>	<u>15</u>	<u>YES</u>
5. Chain-of-Custody agrees:	<u>YES</u>		
6. Calculations Acceptable:	<u>YES</u>		
7. Correct conc. units used:	<u>YES</u>		

COMMENTS: Nothing unusual occurred during analysis.

EFRE-2259 (03/93)

DATE: 9-6-95 NO. A 10333

Reynolds Electrical & Engineering Co., Inc.
Radiological Control Department-Ramatrol

Material Clearance

MONITOR: Anderson

ORGANIZATION: REECO

SURVEY LOCATION: A-6

FROM: A-12

TO: Salt Lake

☒ UNRESTRICTED

- ☐ OFF-SITE
- ☐ ON-SITE
- ☐ SALVAGE
- ☐ EXCESS

THIS MATERIAL HAS BEEN SURVEYED FOR INITIAL
RADIOACTIVITY AND MEETS DOE
STANDARDS FOR RELEASE TO PUBLIC EE
USE

☐ CONTROLLED

DESCRIPTION: _____

Soil Samples

B 1216 - 51

Thru B 1216 - 513

REMARKS: _____

L 46521

Exp 9-13-95

☆U.S. GPO: 1994-585-651

RE-1581 (06-93)

UNDER PRIME CONTRACT WITH THE U.S. DEPARTMENT OF ENERGY
(USDOE/NV)

NO. 13883 .

THE FOLLOWING PROPERTY IS BEING REMOVED FROM:

☒ NEVADA TEST SITE

RADIOLOGICAL MATERIAL CLEARANCE

☒ From From Radioactive Contamination
☐ Exempt from Radiological Survey

DATE 4/7/95 ORGANIZATION RE ECo / ESP

SIGNATURE David Botchelev

I certify that the property listed above is ☒ Government-owned ☐ Company-owned ☐ Personally-owned, and is being removed ☐ Permanently ☒ Temporarily 9/8/95 Golden, Colorado (PAE II)
Estimated Date of Return Destination of Government Property being removed

REFCO / Analytical Services
Name of Organization having custody of the above property

Services.
Property

Agency Div. Dir. or Dept. Mgr. Signature

Printed name and telephone number
5-7472

Time

DISTRIBUTION: 1 WSI. 2 Bearer. 3 REEC Co Prop. Gate 100 Insp. Sta., M/S 753. 4 Authorizing Representative. 5 Equipment Control, M/S 756. 6 Control Department.

JOB #:

TODAY'S DATE:

ASD/Sample Management Section

REYNOLDS ELECTRICAL AND ENGINEERING CO., INC.

SMS LABORATORY REQUEST

AND CHAIN OF CUSTODY

REV 10/4/94

INSTRUCTIONS ON BACK
PAGE OF

PROJECT INFORMATION		REPORT INFORMATION		LAB USE ONLY	
WORK ORDER <u>1196-600</u> PROJECT MANAGER <u>D.D. MADSEN</u> PHONE <u>95-7211</u> MAIL STOP <u>969</u> LOCATION <u>Area 12 Steam Cleaning Area</u>		DATE DUE <u>10/07/95</u> PRELIMINARY REPORT: _____ QC REQUIREMENTS: _____ COPY TO: _____ PROJECT MANAGER: _____		SDG #: <u>T608</u> Packet #: <u>G3230 95-09-004</u> REMARKS: <u>TCLP metals & PLM - 95-09-005</u> _____ _____ _____ _____ PROJ NO <u>ERD</u> EVENT <u>720</u> SAMPLER INITIALS: _____	

FIELD SAMPLE ID	V O A	B N A	M E T A L S	T P H	T V C A P	B N E T A L S	P H	C H L O R	F L A S H	P C B	OTHER B A S E S	R A D I O A C T I V E	G R O S S	B E T A	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.) *Note: All Gamma Count to be 20 min. counts	
95DDM09061	X																				WATER	9/6/95-0705	Trip Blank
95DDM09062	X																				"	9/6/95-0705	"
B1216-S1	X	X		X		X					X		X								SOIL	9/6/95-1030	Full TPH 20 min. gamma
B1216-S2	X	X		X		X					X		X								"	9/6/95-1050	"
B1216-S3	X	X		X		X					X		X								"	9/6/95-1140	"
B1216-S4	X	X		X		X					X		X								"	9/6/95-1145	"
B1216-S5	X	X		X		X					X		X								"	9/6/95-1140	"
B1216-S6	X	X		X		X					X		X								"	9/6/95-1215	"
B1216-S7	X	X		X		X					X		X								"	9/6/95-1220	"
B1216-S8	X	X		X		X					X		X								"	9/6/95-1250	"

SAMPLED/REINQUIRED
BY:RAD
ONLY

DATE/TIME:

RECEIVED BY:

RAD
ONLY

CD Castaneda

9/6/95 16:55
 9/6/95 16:55
 9/8/95 @ 1000
 9/9/95 1000

CD Castaneda
CD Castaneda
Federal Express
M. Weatherford

JOB #:
TODAY'S DATE:

REYNOLDS ELECTRICAL AND ENGINEERING CO., INC.

SMS LABORATORY REQUEST

REV 10/4/94

ASD/Sample Management Section

AND CHAIN OF CUSTODY

INSTRUCTIONS ON BACK
PAGE OF

PROJECT INFORMATION		REPORT INFORMATION		LAB USE ONLY	
WORK ORDER <u>1196-600</u> PROJECT MANAGER <u>D. D. MADSEN</u> PHONE <u>95-7211</u> MAIL STOP <u>969</u> LOCATION <u>AREA 12 STEAM CLEANING AREA</u>		DATE DUE <u>10/07/95</u> PRELIMINARY REPORT: QC REQUIREMENTS: COPY TO: PROJECT MANAGER.		SDG #: <u>T608</u> Packet #: <u>G3230</u> <u>95-09-004</u> REMARKS: <u>TELEPHONE & PLM 95-09-005</u> PROJ NO <u>ERD</u> EVENT <u>720</u> SAMPLER INITIALS:	

FIELD SAMPLE ID	V O A	B N A	M E T A L S	T P H	T V C O N T A M E N T A L S	P H	C H L O R	F L P A O S I N T	P C B	OTHER	R G A M D A 20 MIN	G B R E L O T S A H A	H 3	P U P	Q F P	OTHER	MATRIX	DATE/TIME COLLECTED	REMARKS (PRESERVATIVE, SAMPLE SIZE, SPECIAL ANALYSIS, COUNT TIME, ETC.) * Note All Gamma Count to be 20 min. counts	
B1216-S9	X	X		X		X			X		X							SOIL	9/6/95-1230	Full TPA 20 min. gamma
B1216-S10	X	X		X		X			X		X							"	9/6/95-1320	"
B1216-S11	X	X		X		X			X		X							"	9/6/95-1345	"
B1216-S12	X	X		X		X			X		X							"	9/6/95-1405	"
B1216-S13	X	X		X	X	X			X		X							"	9/6/95-1425	Full TPA - 20 min. gamma MS/MSD for Batch

SAMPLED/RELINQUISHED BY: <u>[Signature]</u> <u>[Signature]</u> <u>CD Castaneda</u>	RAD ONLY	DATE/TIME:	RECEIVED BY:	RAD ONLY
		9/6/95 16:55	CD Castaneda	
		9/6/95 16:55	CD Castaneda	
		9/8/95 @ 1200	Federal Express	
		9/9/95 1000	Michael Weatherford	

D50909.501

000002

TO: PACE Inc.
Environmental Laboratories
5930 McIntyre Street
Golden, Colorado 80403
(303) 278-3400

From: Sample Management Section
Reynolds Electrical & Engineering Co., INC. (REECO)
P.O. Box 98521, M/S 774
Las Vegas, Nevada 89193-8521

Billing: Contract Administration
P.O. Box 98521, M/S 692
Las Vegas, NV 89193-8521

Purchase Order #: 1005-CUC-01(5)

Request for Analyses

Page 1 of 5

Date/Time Sampled	Field Sample ID	Matrix	Volume	Analyses Requested
9/6/95 / 0705	95DDM09061 10914.3	Trip Blank	40ml	VOA 8240
↓	95DDM09062 10915.1	↓	↓	↓
9/6/95 / 1030	B1216-S1 10916.0	Soil	2(120ml)	↓
↓	↓	↓	500ml	BNA 8270
↓	↓	↓	250ml	TPH (Oil, Diesel, Gas) 8015 mod.
9/6/95 / 1050	B1216-S2 10917.8	↓	2(120ml)	VOA 8240
↓	↓	↓	500ml	BNA 8270
↓	↓	↓	250ml	TPH (Oil, Diesel, Gas) 8015 mod.
9/6/95 / 1140	B1216-S3 10918.6	↓	2(120ml)	VOA 8240
↓	↓	↓	500ml	BNA 8270

Comments:

Please provide: All raw data and a copy of invoice must be submitted with report to M/S 774 reference Packet #95-09-004 on narrative and invoice. Original invoice to M/S 692.
Please fax preliminaries by 9/25/95, finals by 10/02/95. Thanks!

Submit Results to: Ted Redding
Telephone: (702) 295-7220
Fax: (702) 295-4773

Requested By: Catherine A. Castaneda **Date of shipment:** 9/8/95

ANALYTICAL REQUEST FORM

000003

TO: PACE Inc.
Environmental Laboratories
5930 McIntyre Street
Golden, Colorado 80403
(303) 278-3400

From: Sample Management Section
Reynolds Electrical & Engineering Co., INC. (REECO)
P.O. Box 98521, M/S 774
Las Vegas, Nevada 89193-8521

Billing: Contract Administration
P.O. Box 98521, M/S 692
Las Vegas, NV 89193-8521

Purchase Order #: 1005-CUC-01(5)

Page 2 of 5

Request for Analyses

Date/Time Sampled	Field Sample ID	Matrix	Volume	Analyses Requested
9/6/95/1140	B1216-S3	Soil ✓	250ml	TPH(Oil, Diesel, Gas) 8015 mod.
9/6/95/1145	B1216-S4	10919.4	2(120ml)	VDA 8240
↓	↓	↓	500ml	BNA 8270
↓	↓	↓	250ml	TPH(Oil, Diesel, Gas) 8015 mod.
9/6/95/1140	B1216-S5	10920.8	2(120ml)	VDA 8240
↓	↓	↓	500ml	BNA 8270
↓	↓	↓	250ml	TPH(Oil, Diesel, Gas) 8015 mod.
9/6/95/1215	B1216-S6	10921.6	2(120ml)	VDA 8240
↓	↓	↓	500ml	BNA 8270
↓	↓	↓	250ml	TPH(Oil, Diesel, Gas) 8015 mod.

Comments:

Please provide: All raw data and a copy of invoice must be submitted with report to M/S 774 reference Packet #95-09-004 on narrative and invoice. Original invoice to M/S 692.

Please fax preliminaries by 9/25/95, finals by 10/03/95, Thanks

Submit Results to: Ted Redding
Telephone: (702) 295-7220
Fax: (702) 295-4773

Requested By: Catherine A. Castaneda **Date of shipment:** 9/8/95

ANALYTICAL REQUEST FORM

000004

TO: PACE Inc.
Environmental Laboratories
5930 McIntyre Street
Golden, Colorado 80403
(303) 278-3400

From: Sample Management Section
Reynolds Electrical & Engineering Co., INC. (REECO)
P.O. Box 98521, M/S 774
Las Vegas, Nevada 89193-8521

Billing: Contract Administration
P.O. Box 98521, M/S 692
Las Vegas, NV 89193-8521

Purchase Order #: 1005-CUC-01(5)

Page 3 of 5

Request for Analyses

Date/Time Sampled	Field Sample ID	Matrix	Volume	Analyses Requested
9/6/95 / 1220	B1216-S7 10922.4	Soil	2(120ml)	VDA 8240
			500ml	BNA 8270
			250ml	TPH (Oil, Diesel, Gas) 80.5 mod.
9/6/95 / 1250	B1216-S8 10923.2		2(120ml)	VDA 8240
			500ml	BNA 8270
			250ml	TPH (Oil, Diesel, Gas) 80.5 mod.
9/6/95 / 1230	B1216-S9 10924.0		2(120ml)	VDA 8240
			500ml	BNA 8270
			250ml	TPH (Oil, Diesel, Gas) 80.5 mod.
9/6/95 / 1320	B1216-S10 10925.9		2(120ml)	VDA 8240

Comments:

Please provide: All raw data and a copy of invoice must be submitted with report to M/S 774 reference Packet #95-09-004 on narrative and invoice. Original invoice to M/S 692.

Please fax preliminary by 9/25/95, finals by 10/02/95, Thanks

Submit Results to: Ted Redding
Telephone: (702) 295-7220
Fax: (702) 295-4773

Requested By: Catherine A. Castaneda **Date of shipment:** 9/8/95

ANALYTICAL REQUEST FORM

000005

TO:

PACE Inc.
Environmental Laboratories
5930 McIntyre Street
Golden, Colorado 80403
(303) 278-3400

From:

Sample Management Section
Reynolds Electrical & Engineering Co., INC. (REECO)
P.O. Box 98521, M/S 774
Las Vegas, Nevada 89193-8521

Billing:

Contract Administration
P.O. Box 98521, M/S 692
Las Vegas, NV 89193-8521

Purchase

Order #:

1005-CUC-01(5)

Request for Analyses

Page 4 of 5

Date/Time Sampled	Field Sample ID	Matrix	Volume	Analyses Requested
9/6/95/1320	B1216-S10 10925.9	Soil	500ml	BNH 8270
"	"		250ml	TPH (Oil, Diesel, Gas) 8015 mod.
9/6/95/1345	B1216-S11 10926.7		2(120ml)	VDA 8240
			500ml	BNH 8270
			250ml	TPH (Oil, Diesel, Gas) 8015 mod.
9/6/95/1405	B1216-S12 10927.5		2(120ml)	VDA 8240
			500ml	BNH 8270
			250ml	TPH (Oil, Diesel, Gas) 8015 mod.
9/6/95/1425	B1216-S13 10928.3		2(120ml)	VDA (MS/MSD) 8240
"	"		500ml	BNH (MS/MSD) 8270

Comments:

Please provide: All raw data and a copy of invoice must be submitted with report to M/S 774 reference Packet #95-09-004 on narrative and invoice. Original invoice to M/S 692.

Please fax preliminaries 9/25/95, finals by 10/02/95. Thanks

Submit Results to: Ted Redding

Telephone: (702) 295-7220

Fax: (702) 295-4773

Requested By: Catherine A. Cartaneda Date of shipment: 9/8/95

TO: PACE Inc.
Environmental Laboratories
5930 McIntyre Street
Golden, Colorado 80403
(303) 278-3400

From: Sample Management Section
Reynolds Electrical & Engineering Co., INC. (REECO)
P.O. Box 98521, M/S 774
Las Vegas, Nevada 89193-8521

Billing: Contract Administration
P.O. Box 98521, M/S 692
Las Vegas, NV 89193-8521

Purchase Order #: 1005-CUC-01(5)

Page 5 of 5

Request for Analyses

Date/Time Sampled	Field Sample ID	Matrix	Volume	Analyses Requested
9/6/95/1425	B1216 - S1310978.3	Soil	250ml	TPH (Oil, Diesel, Gas) 8215 Mod.
↓	↓	10978.0	2(120ml)	TEL P VOA (MS/MSD) 8240
↓	↓	↓	500ml	TEL P BNA (MS/MSD) 8270
Last item				

Comments:

Please provide: All raw data and a copy of invoice must be submitted with report to M/S 774, reference Packet #95-09-004 on narrative and invoice. Original invoice to M/S 692.

Please fax preliminaries by 9/25/95, Finals by 10/02/95. Thanks!

Submit Results to: Ted Redding

Telephone: (702) 295-7220

Fax: (702) 295-4773

Requested By: Catherine A. Castaneda **Date of shipment:** 9/8/95

000012

JOB #:

TODAY'S DATE:

REYNOLDS ELECTRICAL AND ENGINEERING CO., INC.

SMS LABORATORY REQUEST

AND CHAIN OF CUSTODY

INSTRUCTIONS ON BACK

PAGE OF

ASD/Sample Management Section

PROJECT INFORMATION		REPORT INFORMATION		LAB USE ONLY	
WORK ORDER <u>1196-600</u> PROJECT MANAGER <u>D. D. MADSEN</u> PHONE <u>795-7211</u> MAIL STOP <u>969</u> LOCATION <u>Area 12 Steam</u> <u>Cleaning Area</u>		DATE DUE <u>10/07/95</u> PRELIMINARY REPORT: _____ QC REQUIREMENTS: _____ COPY TO: _____ PROJECT MANAGER. _____		SDG #: <u>T608</u> Packet #: <u>G3230</u> <u>95-09-005</u> REMARKS: <u>V0A, BNA, TPH- 95-09-004</u> _____ _____ _____ _____ _____ PROJ NO <u>ERD</u> EVENT <u>720</u> SAMPLER INITIALS: _____	

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 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 O T S	B E 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.) *Note All Gamma Count to be 20 min. Counts	
9500M09061	X																			WATER	9/6/95 - 0705	Trip Blank
9500M09062	X																			"	9/6/95 - 0705	"
B1216-S1	X	X		X		X				X		X								SOIL	9/6/95 - 1030	Full TPH 20 min. gamma
B1216-S2	X	X		X		X				X		X								"	9/6/95 - 1050	"
B1216-S3	X	X		X		X				X		X								"	9/6/95 - 1140	"
B1216-S4	X	X		X		X				X		X								"	9/6/95 - 1145	"
B1216-S5	X	X		X		X				X		X								"	9/6/95 - 1140	"
B1216-S6	X	X		X		X				X		X								"	9/6/95 - 1215	"
B1216-S7	X	X		X		X				X		X								"	9/6/95 - 1220	"
B1216-S8	X	X		X		X				X		X								"	9/6/95 - 1250	"

SAMPLED/RETURNED BY: <u>CD Castaneda</u> <u>9/9/95</u>	RAD ONLY	DATE/TIME: <u>9/6/95 16:55</u>	RECEIVED BY: <u>CD Castaneda</u>	RAD ONLY
		<u>9/6/95 16:55</u>	<u>CD Castaneda</u>	
		<u>9/8/95 @ 1200</u>	<u>Federal Express</u>	
		<u>7/11/95 1000</u>		

ANALYTICAL REQUEST FORM

000007

TO:

PACE Inc.
Environmental Laboratories
5930 McIntyre Street
Golden, Colorado 80403
(303) 278-3400

From:

Sample Management Section
Reynolds Electrical & Engineering Co., INC. (REECO)
P.O. Box 98521, M/S 774
Las Vegas, Nevada 89193-8521

Billing:

Contract Administration
P.O. Box 98521, M/S 692
Las Vegas, NV 89193-8521

Purchase
Order #:

1005-CUC-01(5)

Page 1 of 3

Request for Analyses

Date/Time Sampled	Field Sample ID	Matrix	Volume	Analyses Requested
9/6/95 / 10:30	B1216-S1 10929.1	Soil	250 ml	TCLP Metals 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1050	B1216-S2 10930.5	10917.8	250 ml	TCLP Metals 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1140	B1216-S3 10931.3	10918.6	250 ml	TCLP Metals 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1145	B1216-S4 10932.1	10919.4	250 ml	TCLP Metals 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1140	B1216-S5 10933.0	10920.8	250 ml	TCLP Metals 6010/7470
"	"	"	-	PLM NIOSH 9002

Comments:

Please provide: All raw data and a copy of invoice must be submitted with report to M/S 774 reference Packet # 95-09-005 on narrative and invoice. Original invoice to M/S 692.

Please fax preliminary results by 9/25/95, finals by 10/02/95. Thanks

Submit Results to: Ted Redding

Telephone: (702) 295-7220

Fax: (702) 295-4773

Requested By: Catherine A. Costanza Date of shipment: 9/8/95

TO: PACE Inc.
Environmental Laboratories
5930 McIntyre Street
Golden, Colorado 80403
(303) 278-3400

From: Sample Management Section
Reynolds Electrical & Engineering Co., INC. (REECO)
P.O. Box 98521, M/S 774
Las Vegas, Nevada 89193-8521

Billing: Contract Administration
P.O. Box 98521, M/S 692
Las Vegas, NV 89193-8521

Purchase Order #: 1005-CUC-01(5)

Page 2 of 3

Request for Analyses

Date/Time Sampled	Field Sample ID	Matrix	Volume	Analyses Requested
9/6/95 / 1215	B1216-S6	10921.6 Sci/10934.8	250ml	TCLP Metals 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1220	B1216-S7	10922.4 10935.6	250ml	TCLP MHS 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1250	B1216-S8	10923.2 10936.4	250ml	TCLP MHS 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1230	B1216-S9	10924.0 10937.2	250ml	TCLP MHS 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1320	B1216-S10	10925.9 10938.0	250ml	TCLP MHS 6010/7470
"	"	"	-	PLM NIOSH 9002

Comments:

Please provide: All raw data and a copy of invoice must be submitted with report to M/S 774 reference Packet #95-09-005 on narrative and invoice. Original invoice to M/S 692.

Please for preliminary by 9/25/95, final by 10/02/95.

Submit Results to: Ted Redding
Telephone: (702) 295-7220
Fax: (702) 295-4773

Requested By: Catherine A. Castaneda **Date of shipment:** 9/8/95

ANALYTICAL REQUEST FORM

000009

TO: PACE Inc.
Environmental Laboratories
5930 McIntyre Street
Golden, Colorado 80403
(303) 278-3400

From: Sample Management Section
Reynolds Electrical & Engineering Co., INC. (REECO)
P.O. Box 98521, M/S 774
Las Vegas, Nevada 89193-8521

Billing: Contract Administration
P.O. Box 98521, M/S 692
Las Vegas, NV 89193-8521

Purchase Order #: 1005-CUC-01(5)

Page 3 of 3

Request for Analyses

Date/Time Sampled	Field Sample ID	Matrix	Volume	Analyses Requested
9/6/95 / 1345	B1216-S11 10926.7	Soil/ICF39	250ml	TCLP Metals 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1405	B1216-S12 10927.5	10940.2	250ml	TCLP Metals 6010/7470
"	"	"	-	PLM NIOSH 9002
9/6/95 / 1425	B1216-S13 10928.3	10941.C	250ml	TCLP Metals (MS/MSD) 6010/7470
"	"	"	-	PLM NIOSH 9002

Comments:

Please provide: All raw data and a copy of invoice must be submitted with report to M/S 774 reference Packet #95-09-005 on narrative and invoice. Original invoice to M/S 692.

Please fax preliminaries by 9/25/95, finals by 10/02/95, Thanks

Submit Results to: Ted Redding
Telephone: (702) 295-7220
Fax: (702) 295-4773

Requested By: Catherine A. Castaneda **Date of shipment:** 9/8/95

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Las Vegas, NV 89193-8518

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