

# desert petroleum inc.

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John Rutherford  
Director  
Environmental Affairs

ALCO  
HAZMAT  
06 AUG -8 PM 1:19

August 4, 1994

Ms. Jennifer Eberle  
Alameda County Health Care Services Agency  
Department of Environmental Health  
80 Swan Way, Rm #200  
Oakland, CA 94621

RE: UST Removal  
Former Desert Petroleum Location  
4035 Park Blvd., Oakland, CA

Dear Ms. Eberle:

Please find enclosed our report from Western Geo-Engineers which outlines the procedures and findings of the removal of underground storage tanks at our closed location on 06/23/94.

Very truly yours,



John D. Rutherford

cc: Chron File

enclosure

*Extra  
copy*

DESERT PETROLEUM  
Station #793

WASTE OIL AND FUEL UST'S AND  
PRODUCT LINE REMOVAL  
SAMPLE REPORT.

LOCATED AT

4035 Park Boulevard  
OAKLAND, CALIFORNIA

July 23, 1994

BY

-WEGE-  
WESTERN GEO-ENGINEERS  
1386 E. BEAMER STREET  
WOODLAND, CALIFORNIA 95776  
(916) 668-5300

**TABLE OF CONTENTS**

INTRODUCTION	1.
LOCATION	1.
LOCAL GEOLOGY, HYDROGEOLOGY, & GEOMORPHOLOGY	
GEOMORPHOLOGY	2.
STRATIGRAPHY and GROUND WATER OCCURRENCE	2.
UST REMOVAL	2.
UST SAMPLING AND RESULTS	3.
EXCAVATED SOIL HANDLING	4.
HEALTH AND SAFETY	5.
SUMMARY	5.
RECOMMENDATIONS	5.
LIMITATIONS	6.

**LIST OF TABLES**

1. EXCAVATION SAMPLE RESULTS	7.
2. EXCAVATED SOIL SAMPLE RESULTS	8.

**LIST OF FIGURES**

1. SITE LOCATION (AAA)	9.
2. SITE LOCATION (USGS)	10.
3. SITE MAP WITH SAMPLE LOCATIONS	11.

**LIST OF APPENDIXES**

A. LABORATORY REPORTS.	
B. ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION INSPECTION FORM.	
C. TANK PULL FIELD NOTES.	



1386 EAST BEAMER STREET  
WOODLAND, CA 95776-6003  
FAX (916) 662-0273  
**(916) 668-5300**

CALIF CONTRACTOR #513857 A CORPORATION  
REGISTERED GEOLOGISTS

July 23, 1994

Mr. John Rutherford  
Desert Petroleum  
P.O. Box 1601  
Oxnard, California 93032  
(805) 644-5892  
FAX (805) 654-0720

Dear Mr. Rutherford:

The following report represents our findings during the fuel and waste oil tanks removal at former Desert Petroleum Station 793, located at 4035 Park Blvd., Oakland, Alameda County, California 94602.

#### INTRODUCTION

Western Geo-Engineers (WEGE) obtained and documented the necessary samples during the underground storage tank (UST) removal/closure. Soil contaminated with very low amounts of gasoline range hydrocarbons was found beneath the pump end of the regular leaded gasoline tank (T1A = 2 mg/Kg) and beneath the waste oil tank (WO-1 = 3 mg/Kg. Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) were associated with all samples taken and ranged from detection limits of 0.005 mg/Kg to a high of 0.16 mg/Kg of Xylenes from sample T1A. Figure 3 and Table 1 represent sample locations and laboratory results. The following report documents the activities that have occurred at this site during the tank removals sampling which occurred on June 23, 1994.

#### LOCATION

Former Desert Petroleum #793 is a non-active station, located on the northwest corner of the intersection of Park Blvd. and Hampel at 4035 Park Blvd., Oakland, California, see Figure 1. Figure 2 is a portion of the U.S.G.S. Oakland East, photorevised 1980 7.5 minute quadrangle map and shows the site at an approximate elevation of 210 feet above mean sea level in projected section 32; T1S; R3W; MDB&M. Figure 3 represents the station conditions during tank removal and shows sample locations.

LOCAL GEOLOGY, HYDROGEOLOGY AND GEOMORPHOLOGY.GEOMORPHOLOGY

The site is situated on the western slope of the Berkeley Hills, east of Redwood Peak (elev. 1619' amsl) and south of Indian Gulch at an elevation of approximately 210 feet amsl. The Berkeley Hills are a northwest-southeast trending range within the Coastal Range Province of California. Erosion of the Coastal Ranges has filled the valleys within and bordering the Coastal Range with sequences of gravels, silts, sands and clays.

STRATIGRAPHY AND GROUND WATER OCCURRENCE

The native soil that comprised the sidewalls and floor of the UST excavation cavity consists of dark brown silty clay to the thirteen foot depth, overlaying this clay was what is assumed to be imported fill of approximately one foot of brown clay with gravel and 6 inches of red gravel as base beneath 4 inches of asphalt. Beneath the dark brown clay is a light brown firm to stiff clay with occasional gravel size pebbles. These pebbles are subrounded to rounded and do not interconnect and appear to be of metavolcanic origin.

Ground water found in nearby monitoring wells is found approximately 14 to 15 feet below the surface.

The waste oil tank excavation cavity consisted of fill rock, red in color to the four foot depth below a 4 inch thickness of asphalt. Beneath the fill rock is a dark brown clay to the seven and one half foot depth.

UST REMOVAL

Manley and Sons excavated and removed three underground fuel storage tanks on June 23, 1994: These tanks are shown on Figure 3 and are designated T1, T2, and T3. Tank T1 was a eight thousand gallon capacity single steel walled tank that at one time stored leaded regular fuel. Tank T2 was a ten thousand gallon capacity single steel walled tank that at one time stored unleaded fuel and Tank T3 was a six thousand gallon capacity single walled fiberglass tank that at one time stored unleaded fuel. Tank T3 broke on removal, all fiberglass was removed from the excavation. Also at this time one 200 gallon single wall steel tank that was used for waste oil was removed. Prior to removal all fluids contained in the tanks (water utilized to conduct the last tank test) were removed by vacuum truck along with the triple rinse solution. WEGE using a GasTech LEL/O<sub>2</sub> meter tested the tanks prior to and after placement of dry ice to inert the tanks. The readings were taken under the supervision of Mr. Larry James of the Oakland Fire Department. T1 and T2 tested below 5 % LEL both before and after dry ice, and O<sub>2</sub> tested 20.75% before the dry ice and <1% after adding the dry

ice. The waste oil tank did not show any vapor detection and the T3 broke apart during removal. These two tanks did not need to be inerted prior to removal. These site activities were witnessed by Ms. Jennifer Eberle, Hazardous Materials Specialist, Alameda County Health Agency, see Appendix A. UST's T1 and T2 were transported by H & H for disposal under manifest #92218289 on June 23, 1994. The broken fiberglass and waste oil UST's and rinseate were transported for disposal by Manley and Sons Trucking on June 24, and June 22, 1994 respectively.

fuel UST  
14'  
w.o. UST  
7.5'

All samples of the native soil beneath the UST's were collected from the backhoe bucket and represents the fourteen foot depth in the the fuel tank cavity and the seven foot six inch depth of the waste oil tank cavity. The product line samples (PL-1 and PL-2) were obtained by digging six inches into fresh soil adjacent to the dispenser locations within the product line trench. These samples were obtained at the two and half foot depth, see Table 1 and Figure 3. A Western Geo-Engineers (WEGE) geologist working directly under California Registered Geologist #3037 obtained the samples as required in the August 10, 1990 TRI - REGIONAL BOARD STAFF RECOMMENDATIONS FOR PRELIMINARY EVALUATION AND INVESTIGATION OF UNDERGROUND TANK SITES, see Appendix B - field notes from tank removal and soil sampling.

UST SAMPLING AND RESULTS

Inspection of the T1, T2 and the Waste Oil tanks after removal showed the tanks to be in good condition, still had tar wraps with no obvious corrosion. The fiberglass tank broke apart during removal, all fiberglass was removed from the excavation. During removal of the waste oil UST staining was noted just below the asphalt near the fill. After removal of the fuel UST's, odorous soil (hydrocarbon) was noted at the twelve foot depth, but became clean at the thirteen foot depth. All piping associated with the UST's and product dispensing system were removed. Field screening (UV fluorescence scope, with pentane extraction) was used to determine if over-excavation would be warranted, and to determine if petroleum hydrocarbons existed beneath the UST's. The UV screening favorably exploits petroleum hydrocarbon's fluorescing characteristics under ultraviolet light. A sample obtained with the original soil sample WO-1 (7 1/2 foot depth), had no fluorescence. Likewise samples obtained at the fourteen foot depth beneath the fuel UST's had no fluorescence. Field screening indicated that major over-excavation was not necessary. Minor excavating continued until no (or trace amounts of) visible fluorescence was detected. At that time samples were obtained from the base of the excavations and from the excavated soil. Sample results showed that the field screening technique worked well for the fuel and oil range hydrocarbons and was verified by the certified laboratory results, see Table 1 and Appendix A for certified laboratory results.

Other than the product line samples (PL-1 and PL-2) all samples were obtained from the bucket of the backhoe. The product line samples were obtained by hand digging six inches below the trench produced by removal of the product lines and filling a 2" X 6" clean brass sleeve with the native soil, approximately six inches into the native soil. All soil samples were placed into a 2" X 6" clean brass sleeves. The sleeves were completely filled with the soil (no air space), then the ends were covered with teflon wraps, capped with plastic end caps and sealed with duct tape. Each sleeved sample was then labeled with individual sample ID, time and date sampled and analysis to be performed. The sample was then placed into a zip lock baggie, sealed, placed on ice in a chest and cooled to 4<sup>0</sup>C for chain of custody delivery to MATRIX Environmental Laboratories Inc. 3017 Kilgore Road #100, Rancho Cordova, California 95742, (916) 635-3962, (DHS Certified Laboratory #1676), see Appendix C.

The sample obtained beneath the waste oil tank (WO-1) was collected from the 7'6" depth and analyzed for Total Petroleum Hydrocarbons as Gasoline and Diesel (TPHg-d) 8015 modified, Oil and Grease 5520E, Benzene-Toluene-Ethylbenzene and Xylenes (BTEX), Volatile Organic Compounds 8240, Semi Volatile Organic Compounds 8270, and CAM Metals TTLC (Cd, Cr, Pb, Ni & Zn).

All compounds tested for were below detection limits, with the exception of 3 mg/Kg of gasoline range hydrocarbons, trace amounts of BTEX and background amounts of the metals. Diesel range hydrocarbons, PCB's, Volatile Organic Compounds, and Cadmium were below detection limits.

The product line samples (PL-1 and PL-2) along with the fuel UST samples were analyzed Total Petroleum Hydrocarbons as Gasoline (TPHg) 8020 modified, and Benzene-Toluene-Ethylbenzene and Xylenes (BTEX). Samples T1A and T1B were also tested for CAM Metal TTLC Pb. All samples tested showed trace amounts of BTEX with only T1A testing positive for gasoline range hydrocarbons, 2 mg/Kg. The lead values from T1A and T1B are most likely representative of background levels for lead, 3 and 7.2 mg/Kg respectively. See Table 1 for complete laboratory results.

#### EXCAVATED SOIL HANDLING

Approximately 20 cubic yards of soil was removed from the waste oil tank excavation. And 180 cubic yards from the product line and UST's excavations. Seven soil samples that represented approximately 25 cubic yard increments were obtained from the excavated soil piles. With the exception of the soil generated from the waste oil cavity, the soil was then placed back into the respective excavation, with the approval of Alameda County Department of Environmental Health due to safety hazard and need to restore site visually and aesthetically. Due to the location of (behind lockable gates, and the minor amount of soil generated (approximately 20 cubic yards) the excavated soil from the waste oil tank cavity was left on the surface. It was agreed upon that

once excavated soil sample results were obtained a workplan would be developed for any future needs of treating/handling this soil.

#### HEALTH AND SAFETY

This site has been classified as Level D. Common sense and standard construction safety measures are to be maintained at all times. All WEGE personnel involved with this site have a current Certificate for OSHA-SARA Safety Training, as prescribed in 29CFR 1910.120.

#### SUMMARY

Upon removal of the underground storage tanks, gasoline range hydrocarbons were noted by odor at the twelve foot depth of the excavation. This soil was removed and native soil samples obtained at the fourteen foot depth. UV fluorescent screening of the soil successfully identified the impacted soil. After obtaining the necessary samples the excavations were backfilled with the material that was excavated from them, all but the waste oil excavation which was left open and the excavated soil left on the surface. Certified laboratory results indicate that the contaminated soil does not exceed 14 feet below the surface in the fuel UST cavity, the 7.5 foot depth at the waste oil UST cavity and the 2.5 foot depth at the product line cavity.

#### RECOMMENDATIONS

Excavated soil tainted with gasoline range hydrocarbons ranging from 68 mg/Kg to 200 mg/Kg was placed back into the fuel UST cavity. Excavated soil tainted with oil range hydrocarbons, at 1,100 mg/Kg was left on the surface near the waste oil UST cavity and secured by lockable gates.

Western Geo-Engineers (WEGE) recommends that the gasoline range hydrocarbon impacted soil placed into the fuel UST cavity be abated using vapor extraction. The native soil surrounding the excavation cavity has a very high clay content and should act as a barrier to focus vapor extraction on the soil placed back into the excavation. This soil is a mixture of sand fill and clay and the reworking of the soil by the excavating and filling process should greatly increase permeability. Vapor extraction has proven to be a viable remedial option on other sites that WEGE is involved with.

The waste oil excavated soil is tainted with oil range hydrocarbons. Ex-situ bio-degradation utilizing the naturally occurring bacteria with nutrient enhancement should be looked at.

Ex-situ bioventing is utilizing vapor extraction to replace oxygen into the soil along with minor nutrient augmentation to



supply sufficient food sources to the natural occurring bio-populations that should exist in the soil. Near completion of this process a moderate strength, 22%, pyroxide could be used to oxidize the remaining hydrocarbons and to enhance oxidation of the soil. The pyroxide nutrient mixture would be introduced as a drip system spread through the impacted excavated soil.


**LIMITATIONS**

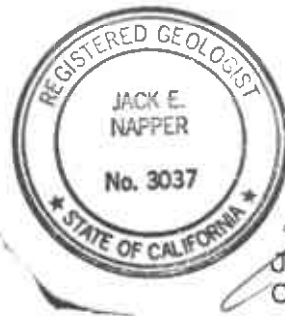
This report is based upon the following:

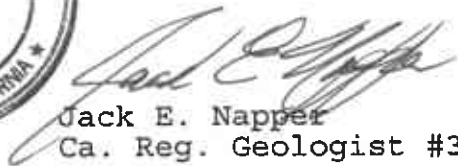
- A. The observations of field personnel.
- B. The results of laboratory analyses performed by a state certified laboratory.
- C. Referenced documents.
- D. Our understanding of the regulations of the State of California, Alameda County and the City of Oakland.

The services performed by Western Geo-Engineers, a corporation, under California Registered Geologist #3037 and/or Contractors License #513857, have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California and the Oakland area. Our work and/or supervision of remediation and/or abatement operations, active or preliminary, at this site is in no way meant to imply that we are owners or operators of this site. Please note that known contamination of soil and/or ground water must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

Sincerely yours,

  
George L. Converse  
Project Geologist



  
Jack E. Napper  
Ca. Reg. Geologist #3037

cc: Ms. Jennifer Eberie, HMS, Alameda County Health  
(510) 271-4530

TABLE 1  
 DESERT PETROLEUM #793  
 4035 PARK BLVD.  
 OAKLAND, CALIFORNIA 94602

SAMPLE ID	AREA	DEPTH IN FEET	DATE SAMPLED	EPA METHOD 8015 5540 D&F			METHOD 8020					METHOD 8240		METHOD 8270			
				GASOLINE	DIESEL OIL/GREASE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES	LEAD TTLC	CADMIUM TTLC	CHROMIUM TTLC	NICKEL TTLC	ZINC TTLC	CHLOROMETHANE		
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	ug/Kg	ug/Kg	
T1A	UST RL 8K	14	06/23/94	2	NA	NA	0.022	0.075	0.03	0.16	3	NA	NA	NA	NA	NA	NA
T1B	STEEL	14	06/23/94	<1	NA	NA	0.027	0.028	0.006	0.026	7.2	NA	NA	NA	NA	NA	NA
T2A	UST UL 10K	14	06/23/94	<1	NA	NA	0.022	0.027	0.005	0.022	NA	NA	NA	NA	NA	NA	NA
T2B	STEEL	14	06/23/94	<1	NA	NA	0.017	0.025	0.005	0.02	NA	NA	NA	NA	NA	NA	NA
T3A	UST UL 6K	14	06/23/94	<1	NA	NA	0.013	0.012	<0.005	<0.015	NA	NA	NA	NA	NA	NA	NA
T3B	FIBERGLASS	14	06/23/94	<1	NA	NA	0.013	0.011	<0.005	<0.015	NA	NA	NA	NA	NA	NA	NA
PL-1	PUMP ISLAND	2.5	06/23/94	<1	NA	NA	0.01	<0.005	<0.005	0.02	NA	NA	NA	NA	NA	NA	NA
PL-2	NEAR DISPENSERS	2.5	06/23/94	<1	NA	NA	0.01	0.031	0.0059	0.032	NA	NA	NA	NA	NA	NA	NA
WO-1	WASTE OIL TANK EXCAVATION	7.5	06/23/94	3	<1	<50	0.063	0.34	0.048	0.23	5.3	<0.1	26	61	32	10	ND

ND = BELOW LABORATORY DETECTION LIMITS

NA = NOT ANALYZED

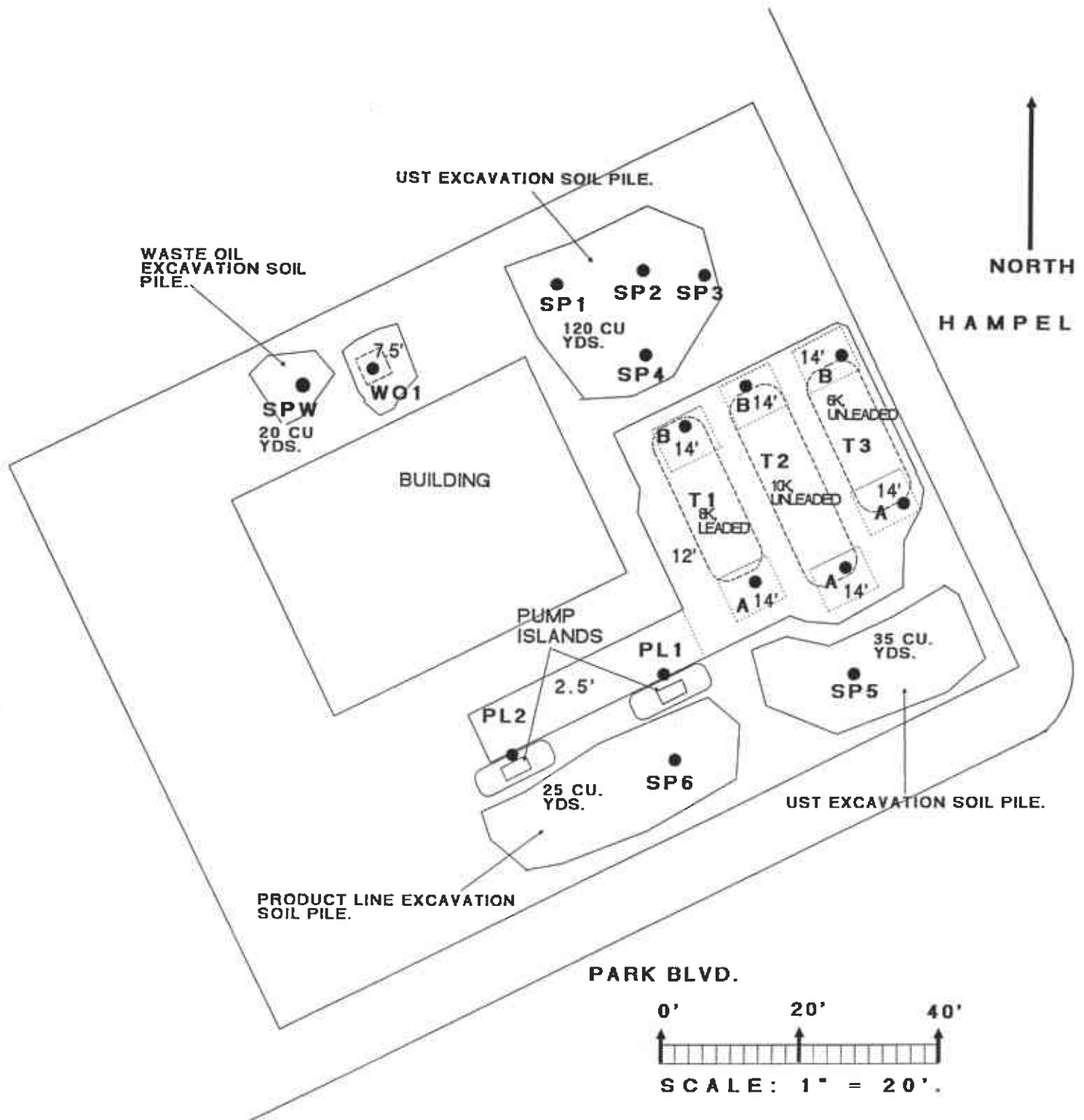
TABLE 2  
 DESERT PETROLEUM #793  
 4035 PARK BLVD.  
 OAKLAND, CALIFORNIA 94602

SAMPLE ID	AREA	DEPTH IN FEET	DATE SAMPLED	EXCAVATED SOIL SAMPLE RESULTS						
				EPA METHOD 8015	5540 D&F	METHOD 8020				
				GASOLINE mg/Kg	DIESEL mg/Kg	OIL/GREASE mg/Kg	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL BENZENE mg/Kg	XYLENES mg/Kg
SP1	UST EXCAVATED	2	06/23/94	110	NA	NA	<0.05	0.46	0.46	4.9
SP2	SOIL	2	06/23/94	200	NA	NA	<0.05	0.22	0.340	3.5
SP3		2	06/23/94	170	NA	NA	<0.05	0.08	0.47	2.6
SP4		2	06/23/94	68	NA	NA	<0.05	0.13	0.130	1.8
SP5		2	06/23/94	110	NA	NA	0.011	0.009	0.140	1.3
SP6	PUMP ISLAND EXCAVATED SOIL	2	06/23/94	19	NA	NA	0.006	0.009	0.048	0.51
SP-W	WASTE OIL TANK EXCAVATION	2	06/23/94	<1	<1	1100	0.009	0.008	<0.005	0.02

ND = BELOW LABORATORY DETECTION LIMITS  
 NA = NOT ANALYZED







DESERT PETROLEUM STATION #793  
 4035 PARK BLVD..  
 OAKLAND, CALIFORNIA 94602

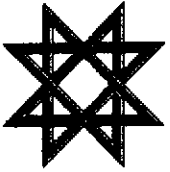
**EXPLANATION:**

- 2.5' 7.5'  
12' 14'    EXCAVATION AND/OR SAMPLE DEPTH BELOW SURFACE.
- T 1        REMOVED TANK DESIGNATION.
- SAMPLE POINT AND ID \*.
- A 14'

**FIGURE 1**

**UST AND PRODUCT LINE REMOVAL SAMPLING LOCATIONS**

**JUNE 23, 1994**



**MATRIX**

ENVIRONMENTAL LABORATORIES INC.

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Western GEO  
1386 Beamer Street  
Woodland, Ca 95776

7/8/94

ATTN: George Converse

Re: Project: Desert - Oakland  
Lab Reference Number: 4525  
Date Samples Received: 6/24/94  
No. Samples Received: 16

The samples were received by Matrix Environmental Laboratories intact and in good condition. Samples conformed to required sampling protocols for the requested analyses and were accompanied by required documentation.

Please call if we can be of further assistance.

Sincerely,

Charles R. Todd, *for*  
Laboratory Director

PROJECT I.D. <u>Desert - Arched</u>					NO. of CONTAINERS	ANALYSIS										SAMPLE CONDITION	ICED	COMMENTS:	
PAGE <u>1</u> OF <u>1</u>		CLIENT CHAIN OF CUSTODY #				BTEX	TPH (TPH-G)	TPH-D	824/8240	825/8270	418/O&G	8220/503 O&G	METALS CAA/S	TIC Pb					
LAB I.D. #	SAMPLE I.D.	DATE SAMPLED	TIME SAMPLED	MATRIX															
942014	T1 A	6/23/44	1125	Soil	1	✓	✓						✓						
942015	T1 B		1137		1	✓	✓												Normal
942016	T2 A		1120		1	✓	✓												Time and
942017	T2 B		1115		1	✓	✓												
942018	T3 A		1620		1	✓	✓												8240/8270
942019	T3 B		1615		1	✓	✓												modified
942020	W0-1		1630		1	✓	✓	✓	✓	✓	✓	✓	✓						-1 DL as
942021	PL-1		1651		1	✓	✓												8010 for
942022	PL-2		1700		1	✓	✓												8240
942023	SP-u		1710		1	✓	✓	✓			✓								
942024	SP1		1711		1	✓	✓												
942025	SP2		1712		1	✓	✓												
942026	SP3		1713		1	✓	✓												
942027	SP4		1714		1	✓	✓												
942028	SP5		1715		1	✓	✓												
942029	SP6		1716		1	✓	✓												

Relinquished by: (Signature) <i>Geary Converse</i>	Date/Time 6/24/44 0830	Received by: (Signature) <i>[Signature]</i>	Special Instructions Report To: <i>Geary Converse</i> Bill To: <i>Western Geo-Engineers</i> <i>1386 E. Beamer St</i> <i>Woodland, CA 95776</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date/Time	Received by: (Signature)	
Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 6/24/44 0830	Received for Laboratory by: (Signature) <i>[Signature]</i>	



# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: Method Blank

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
TOTAL XYLENES	ND	0.015
SURROGATE RECOVERY	105%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: T 1 A  
Lab ID: 942014

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.022	0.005
TOLUENE	0.075	0.005
ETHYLBENZENE	0.030	0.005
TOTAL XYLENES	0.16	0.015
SURROGATE RECOVERY	108%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: T 1 B  
Lab ID: 942015

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.027	0.005
TOLUENE	0.028	0.005
ETHYLBENZENE	0.006	0.005
TOTAL XYLENES	0.026	0.015
SURROGATE RECOVERY	106%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: T 2 A  
Lab ID: 942016

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.022	0.005
TOLUENE	0.027	0.005
ETHYLBENZENE	0.005	0.005
TOTAL XYLENES	0.022	0.015
SURROGATE RECOVERY	104%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: T 2 B  
Lab ID: 942017

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.017	0.005
TOLUENE	0.025	0.005
ETHYLBENZENE	0.005	0.005
TOTAL XYLENES	0.020	0.015
SURROGATE RECOVERY	104%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: T 3 A  
Lab ID: 942018

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.013	0.005
TOLUENE	0.012	0.005
ETHYLBENZENE	ND	0.005
TOTAL XYLENES	ND	0.015
SURROGATE RECOVERY	103%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: T 3 B  
Lab ID: 942019

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.013	0.005
TOLUENE	0.011	0.005
ETHYLBENZENE	ND	0.005
TOTAL XYLENES	ND	0.015
SURROGATE RECOVERY	101%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: W O - 1  
Lab ID: 942020

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.063	0.005
TOLUENE	0.34	0.005
ETHYLBENZENE	0.048	0.005
TOTAL XYLENES	0.23	0.015
SURROGATE RECOVERY	103%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.



# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: P L- 1  
Lab ID: 942021

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.010	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
TOTAL XYLENES	0.020	0.015
SURROGATE RECOVERY	103%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: P L- 2  
Lab ID: 942022

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.010	0.005
TOLUENE	0.031	0.005
ETHYLBENZENE	0.0059	0.005
TOTAL XYLENES	0.032	0.015
SURROGATE RECOVERY	101%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: S P - W  
Lab ID: 942023

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.009	0.005
TOLUENE	0.008	0.005
ETHYLBENZENE	ND	0.005
TOTAL XYLENES	0.020	0.015
SURROGATE RECOVERY	103%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: S P 1  
Lab ID: 942024

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/28/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.05
TOLUENE	0.46	0.05
ETHYLBENZENE	0.46	0.05
TOTAL XYLENES	4.9	0.15
SURROGATE RECOVERY	108%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1:10 ratio and the reporting limits adjusted accordingly.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: S P 4  
Lab ID: 942027

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/28/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.05
TOLUENE	0.13	0.05
ETHYLBENZENE	0.13	0.05
TOTAL XYLENES	1.8	0.15
SURROGATE RECOVERY	106%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1:10 ratio and the reporting limits adjusted accordingly.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: S P 5  
Lab ID: 942028

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.011	0.005
TOLUENE	0.009	0.005
ETHYLBENZENE	0.14	0.005
TOTAL XYLENES	1.3	0.015
SURROGATE RECOVERY	100%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: S P 6  
Lab ID: 942029

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.006	0.005
TOLUENE	0.013	0.005
ETHYLBENZENE	0.048	0.005
TOTAL XYLENES	0.51	0.015
SURROGATE RECOVERY	102%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: BTEX SPIKE SUMMARY

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: LCS/LCSD

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

COMPOUND	CONC SPIKED mg/kg (ppm)	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
BENZENE	0.588	0.604	0.645	103%	110%	7%
TOLUENE	0.896	0.859	0.915	96%	102%	6%
ETHYLBENZENE	0.690	0.609	0.647	88%	94%	6%
TOTAL XYLENES	1.76	1.54	1.63	87%	92%	6%

LCS= LABORATORY CONTROL SPIKE  
LCSD= LABORATORY CONTROL SPIKE DUPLICATE  
RPD= RELATIVE PERCENT DIFFERENCE  
CONC= CONCENTRATION



# MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742

PHONE (916) 635-3962 FAX (916) 635-9331

## ANALYSIS: TPH-GASOLINE by EPA 5030 PURGE-AND-TRAP

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Matrix: SOIL

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27-28/1994

Sample ID	Lab ID		GASOLINE mg/kg (ppm)	REPORTING LIMIT mg/kg (ppm)	SURROGATE RECOVERY
T 1 A	942014		2.0	1.0	117%
T 1 B	942015		ND	1.0	115%
T 2 A	942016		ND	1.0	113%
T 2 B	942017		ND	1.0	112%
T 3 A	942018		ND	1.0	109%
T 3 B	942019		ND	1.0	104%
W O - 1	942020		3.0	1.0	103%
P L - 1	942021		ND	1.0	98%
P L - 2	942022		ND	1.0	97%
S P - W	942023		ND	1.0	96%
S P 1	942024	**	110	10	114%
S P 2	942025	**	200	10	120%
S P 3	942026	**	170	10	112%
S P 4	942027	**	68	10	109%
S P 5	942028	**	110	10	106%
S P 6	942029		19	1.0	105%
N/A	Method Blank		ND	1.0	107%

\*\* These samples were analyzed at 1: 10 dilution and the reporting limits adjusted accordingly.

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742

PHONE (916) 635-3962 FAX (916) 635-9331

## ANALYSIS: TPH-GASOLINE SPIKE SUMMARY

*CLIENT:* Western GEO  
*CONTACT:* G. Converse  
*COC No:* 4525  
*Project No:* Desert - Oakland  
*Sample ID:* N/A  
*Lab ID:* LCS/LCSD

*Date Sampled:* N/A  
*Date Received:* N/A  
*Date Extracted:* 6/27/94  
*Date of Analysis:* 6/27/94  
*Matrix:* SOIL

COMPOUND	CONC SPIKED mg/kg (ppm)	CONC MEASURED		PERCENT RECOVERY		
		LCS	LCSD	LCS	LCSD	RPD
GASOLINE	4.55	4.64	4.93	102%	108%	6%

LCS= LABORATORY CONTROL SPIKE  
LCSD= LABORATORY CONTROL SPIKE DUPLICATE  
RPD= RELATIVE PERCENT DIFFERENCE  
CONC= CONCENTRATION

# MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742

PHONE (916) 635-3962 FAX (916) 635-9331

## ANALYSIS: TPH-D, EPA 8015 mod.

Client: Western GEO  
Contact: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Matrix: SOIL

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 7/1/94  
Date of Analysis: 7/1/94

Lab ID	Sample ID	Diesel mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Method Blank	N/A	ND	1.
942020	WO-1	ND	1.
942023	SP-W	ND	1.

NOTE: (ND) =NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742

PHONE (916) 635-3962 FAX (916) 635-9331

## ANALYSIS: TPH MATRIX SPIKE SUMMARY

Client: Western GEO  
Contact: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Matrix: SOIL

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 7/1/94  
Date of Analysis: 7/1/94

COMPOUND	CONC SPIKED (mg/L)	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
DIESEL	100	98	103	98%	103%	5%

LCS= LABORATORY CONTROL SPIKE  
LCSD= LABORATORY CONTROL SPIKE DUPLICATE  
RPD= RELATIVE PERCENT DIFFERENCE  
CONC= CONCENTRATION

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: Volatile Organic Analytes EPA Method M8240

CLIENT: Western GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: Method Blank

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

File: F2794MB.

ANALYTES	CONCENTRATION ug/Kg(ppb)	REPORTING LIMIT(ppb)
1,1,1-trichloroethane	ND	5
1,1,2,2-tetrachloroethane	ND	5
1,1,2-trichloroethane	ND	5
1,1-dichloroethane	ND	5
1,1-dichloroethene	ND	5
1,2-dichlorobenzene	ND	5
1,2-dichloroethane	ND	5
1,2-dichloropropane	ND	5
1,3-dichlorobenzene	ND	5
1,4-dichlorobenzene	ND	5
2-chloroethylvinyl ether	ND	5
bromodichloromethane	ND	5
bromomethane	ND	10
carbon tetrachloride	ND	5
chlorobenzene	ND	5
chloroethane	ND	10
chloroform	ND	5
chloromethane	ND	10
cis-1,3-dichloropropene	ND	5
dibromochloromethane	ND	5
tetrachloroethene	ND	10
trans-1,2-dichloroethene	ND	5
trans-1,3-dichloropropene	ND	5
trichloroethene	ND	5
trichlorofluoromethane	ND	10
vinyl chloride	ND	10

ND = Not Detected at, or Above the Report Limit

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: Volatile Organic Analytes EPA Method M8240

CLIENT: Western GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: Method Blank

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

File: F2794MB.

### SURROGATE RECOVERY

Surrogate	Amount	Spike	%Recov
1,2-dichloroethane-d-4 (Surr)	59.7	50.0	119.4
toluene-d8 (Surr)	45.7	50.0	91.5
4-bromofluorobenzene (Surr)	47.2	50.0	94.5

Surrogate Recovery Range = 50 - 150

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: Volatile Organic Analytes EPA Method M8240

CLIENT: Western GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: WO-1  
Lab ID: 942020

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

File: 942020.D

ANALYTES	CONCENTRATION ug/Kg(ppb)	REPORTING LIMIT(ppb)
1,1,1-trichloroethane	ND	5
1,1,2,2-tetrachloroethane	ND	5
1,1,2-trichloroethane	ND	5
1,1-dichloroethane	ND	5
1,1-dichloroethene	ND	5
1,2-dichlorobenzene	ND	5
1,2-dichloroethane	ND	5
1,2-dichloropropane	ND	5
1,3-dichlorobenzene	ND	5
1,4-dichlorobenzene	ND	5
2-chloroethylvinyl ether	ND	5
bromodichloromethane	ND	5
bromomethane	ND	10
carbon tetrachloride	ND	5
chlorobenzene	ND	5
chloroethane	ND	10
chloroform	ND	5
chloromethane	10	10
cis-1,3-dichloropropene	ND	5
dibromochloromethane	ND	5
tetrachloroethene	ND	10
trans-1,2-dichloroethene	ND	5
trans-1,3-dichloropropene	ND	5
trichloroethene	ND	5
trichlorofluoromethane	ND	10
vinyl chloride	ND	10

ND = Not Detected at, or Above the Report Limit

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: Volatile Organic Analytes EPA Method M8240

CLIENT: Western GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: WO-1  
Lab ID: 942020

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/27/94  
Date of Analysis: 6/27/94  
Matrix: SOIL

File: 942020.D

### SURROGATE RECOVERY

Surrogate	Amount	Spike	%Recov
1,2-dichloroethane-d-4 (Surr)	53.6	50.0	107.1
toluene-d8 (Surr)	45.1	50.0	90.1
4-bromofluorobenzene (Surr)	52.9	50.0	105.7

Surrogate Recovery Range = 50 - 150



# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: Volatile Organic Analytes EPA Method 8240

COC No: 4525  
Lab ID: LCS/D

Date of Analysis: 6/27/94  
Matrix: SOIL

File: F2794LS.D

### LABORATORY CONTROL SPIKE

COMPOUND	LEVEL ug/Kg (ppb)	LCS AMNT ug/Kg (ppb)	% RCVRY	LCSD AMNT ug/Kg (ppb)	% RCVRY	RPD
1,1-dichloroethene	50.0	50.1	100.2	49.1	98.2	2.0
benzene	50.0	52.3	104.6	51.8	103.6	1.0
chlorobenzene	50.0	53.6	107.2	52.0	104.0	3.0
toluene	50.0	52.4	104.8	50.2	100.4	4.3
trichloroethene	50.0	48.7	97.4	47.3	94.6	2.9

% RECOVERY RANGE = 50-150

RPD RANGE = 0-25

LCS = LABORATORY CONTROL SPIKE

LCSD = LABORATORY CONTROL SPIKE DUPLICATE

RPD = RELATIVE PERCENT DEVIATION

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: SemiVolatile Organic Analytes EPA Method 8270

CLIENT: WESTERN GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: Method Blank

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 6/24/94  
Date of Analysis: 6/24/94  
Matrix: SOIL

File: F2494MB.D

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ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
1,2,4-Trichlorobenzene	ND	0.30
1,2-Dichlorobenzene	ND	0.30
1,3-Dichlorobenzene	ND	0.30
1,4-Dichlorobenzene	ND	0.30
2,4,5-Trichlorophenol	ND	0.30
2,4,6-Trichlorophenol	ND	0.30
2,4-Dichlorophenol	ND	0.30
2,4-Dimethylphenol	ND	0.30
2,4-Dinitrophenol	ND	0.30
2,4-Dinitrotoluene	ND	0.30
2,6-Dinitrotoluene	ND	0.30
2-Chloronaphthalene	ND	0.30
2-Chlorophenol	ND	0.30
2-Methyl-4,6-dinitrophenol	ND	0.30
2-Methylnaphthalene	ND	0.30
2-Methylphenol	ND	0.30
2-Nitroaniline	ND	1.50
2-Nitrophenol	ND	0.30
3,3'-Dichlorobenzidene	ND	0.30
3-Nitroaniline	ND	1.50
4-Bromophenyl phenyl ether	ND	0.30
4-Chloro-3-methylphenol	ND	0.30
4-Chloroaniline	ND	0.60
4-Chlorophenyl phenyl ether	ND	0.30
4-Methylphenol	ND	0.30
4-Nitroaniline	ND	1.50
4-Nitrophenol	ND	0.30

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: SemiVolatile Organic Analytes EPA Method 8270

CLIENT: WESTERN GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: Method Blank

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 6/24/94  
Date of Analysis: 6/24/94  
Matrix: SOIL

File: F2494MB.D

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ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
Acenaphthene	ND	0.30
Acenaphthylene	ND	0.30
Anthracene	ND	0.30
Azobenzene	ND	0.30
Benz[a]anthracene	ND	0.30
Benzo[a]pyrene	ND	0.30
Benzo[b]fluoranthene	ND	0.30
Benzo[g,h,i]perylene	ND	0.30
Benzo[k]fluoranthene	ND	0.30
Benzoic acid	ND	0.30
Benzyl alcohol	ND	0.60
Bis(2-chloroethoxy)methane	ND	0.30
Bis(2-chloroethyl)ether	ND	0.30
Bis(2-chloroisopropyl)ether	ND	0.30
Bis(2-ethylhexyl)phthalate	ND	0.30
Butylbenzylphthalate	ND	0.30
Chrysene	ND	0.30
Di-n-Butylphthalate	ND	0.30
Di-n-octylphthalate	ND	0.30
Dibenzo[a,h]anthracene	ND	0.30
Dibenzofuran	ND	0.30
Diethylphthalate	ND	0.30
Dimethylphthalate	ND	0.30
Fluoranthene	ND	0.30
Fluorene	ND	0.30
Hexachlorobenzene	ND	0.30
Hexachlorobutadiene	ND	0.30

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: SemiVolatile Organic Analytes EPA Method 8270

CLIENT: WESTERN GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: Method Blank

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 6/24/94  
Date of Analysis: 6/24/94  
Matrix: SOIL

File: F2494MB.D

ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
Hexachlorocyclopentadiene	ND	0.30
Hexachloroethane	ND	0.30
Indeno(1,2,3-c,d)pyrene	ND	0.30
Isophorone	ND	0.30
N-Nitrosodi-n-propyl amine	ND	0.30
N-Nitrosodimethyl amine	ND	0.30
N-Nitrosodiphenylamine	ND	0.30
Naphthalene	ND	0.30
Nitrobenzene	ND	0.30
Pentachlorophenol	ND	0.30
Phenanthrene	ND	0.30
Phenol	ND	0.30
Pyrene	ND	0.30

ND = Not Detected At or Above the Report Limit

### SURROGATE RECOVERY

Surrogate	Amount	Spike	Recovery	Range
2-Fluorobiphenyl	93.4	100	93.4	30-115
2-Fluorophenol	76.9	200	38.4	25-121
4-Terphenyl-D14	33.6	100	33.6	18-137
Nitrobenzene-D5	66.8	100	66.8	23-120
Phenol-D6	83.5	200	41.8	24-113
Tribromophenol	208.0	200	104.0	19-122

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: SemiVolatile Organic Analytes EPA Method 8270

CLIENT: WESTERN GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: WO-1  
Lab ID: 942020

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/24/94  
Date of Analysis: 6/24/94  
Matrix: SOIL

File: 942020.D

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ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
1,2,4-Trichlorobenzene	ND	0.30
1,2-Dichlorobenzene	ND	0.30
1,3-Dichlorobenzene	ND	0.30
1,4-Dichlorobenzene	ND	0.30
2,4,5-Trichlorophenol	ND	0.30
2,4,6-Trichlorophenol	ND	0.30
2,4-Dichlorophenol	ND	0.30
2,4-Dimethylphenol	ND	0.30
2,4-Dinitrophenol	ND	0.30
2,4-Dinitrotoluene	ND	0.30
2,6-Dinitrotoluene	ND	0.30
2-Chloronaphthalene	ND	0.30
2-Chlorophenol	ND	0.30
2-Methyl-4,6-dinitrophenol	ND	0.30
2-Methylnaphthalene	ND	0.30
2-Methylphenol	ND	0.30
2-Nitroaniline	ND	1.50
2-Nitrophenol	ND	0.30
3,3'-Dichlorobenzidene	ND	0.30
3-Nitroaniline	ND	1.50
4-Bromophenyl phenyl ether	ND	0.30
4-Chloro-3-methylphenol	ND	0.30
4-Chloroaniline	ND	0.60
4-Chlorophenyl phenyl ether	ND	0.30
4-Methylphenol	ND	0.30
4-Nitroaniline	ND	1.50
4-Nitrophenol	ND	0.30

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: SemiVolatile Organic Analytes EPA Method 8270

CLIENT: WESTERN GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: WO-1  
Lab ID: 942020

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/24/94  
Date of Analysis: 6/24/94  
Matrix: SOIL

File: 942020.D

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ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
Acenaphthene	ND	0.30
Acenaphthylene	ND	0.30
Anthracene	ND	0.30
Azobenzene	ND	0.30
Benz[a]anthracene	ND	0.30
Benzo[a]pyrene	ND	0.30
Benzo[b]fluoranthene	ND	0.30
Benzo[g,h,i]perylene	ND	0.30
Benzo[k]fluoranthene	ND	0.30
Benzoic acid	ND	0.30
Benzyl alcohol	ND	0.60
Bis(2-chloroethoxy)methane	ND	0.30
Bis(2-chloroethyl)ether	ND	0.30
Bis(2-chloroisopropyl)ether	ND	0.30
Bis(2-ethylhexyl)phthalate	ND	0.30
Butylbenzylphthalate	ND	0.30
Chrysene	ND	0.30
Di-n-Butylphthalate	ND	0.30
Di-n-octylphthalate	ND	0.30
Dibenzo[a,h]anthracene	ND	0.30
Dibenzofuran	ND	0.30
Diethylphthalate	ND	0.30
Dimethylphthalate	ND	0.30
Fluoranthene	ND	0.30
Fluorene	ND	0.30
Hexachlorobenzene	ND	0.30
Hexachlorobutadiene	ND	0.30

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: SemiVolatile Organic Analytes EPA Method 8270

CLIENT: WESTERN GEO  
CONTACT: G Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: WO-1  
Lab ID: 942020

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 6/24/94  
Date of Analysis: 6/24/94  
Matrix: SOIL

File: 942020.D

ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
Hexachlorocyclopentadiene	ND	0.30
Hexachloroethane	ND	0.30
Indeno(1,2,3-c,d)pyrene	ND	0.30
Isophorone	ND	0.30
N-Nitrosodi-n-propyl amine	ND	0.30
N-Nitrosodimethyl amine	ND	0.30
N-Nitrosodiphenylamine	ND	0.30
Naphthalene	ND	0.30
Nitrobenzene	ND	0.30
Pentachlorophenol	ND	0.30
Phenanthrene	ND	0.30
Phenol	ND	0.30
Pyrene	ND	0.30

ND = Not Detected At or Above the Report Limit

### SURROGATE RECOVERY

Surrogate	Amount	Spike	Recovery	Range
2-Fluorobiphenyl	90.0	100	90.0	30-115
2-Fluorophenol	71.7	200	35.9	25-121
4-Terphenyl-D14	29.9	100	29.9	18-137
Nitrobenzene-D5	62.3	100	62.3	23-120
Phenol-D6	79.5	200	39.8	24-113
Tribromophenol	187.4	200	93.7	19-122

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: SemiVolatile Organics EPA Method 8270

COC No: 4525  
Project No: Desert - Oakland      Date Extracted: 6/24/94  
Sample ID: N/A                      Date of Analysis: 6/24/94  
Lab ID: LCS/LCSD                      Matrix: SOIL

File: F2494LS.D

### LABORATORY CONTROL SPIKE

COMPOUND	LEVEL	LCS AMNT	% RECVRY	LCSD AMNT	% RECVRY	RECVRY RANGE	RPD
Phenol	200	120.4	60.2	109.4	54.7	5-112	9.5
o-Chlorophenol	200	132.1	66.0	117.2	58.6	23-134	11.9
m,p-4-Dichlorobenzene	100	63.0	63.0	54.6	54.6	20-124	14.3
N-Nitrosodi-n-propyl am	100	79.4	79.4	70.9	70.9	1-230	11.3
1,2,4-Trichlorobenzene	100	60.0	60.0	53.7	53.7	32-142	11.1
4-Chloro-3-methylphenol	200	134.9	67.5	119.2	59.6	22-147	12.3
Acenaphthene	100	68.5	68.5	64.1	64.1	30-145	6.7
4-Nitrophenol	200	128.7	64.3	134.8	67.4	1-132	4.7
2,4-Dinitrotoluene	100	82.0	82.0	77.8	77.8	20-139	5.2
Pentachlorophenol	200	52.4	26.2	48.7	24.3	14-176	7.4
Pyrene	100	83.1	83.1	80.6	80.6	32-145	3.1

RPD RANGE = 0- 25

All concentrations are in mg/Kg (ppm)

LCS=LABORATORY CONTROL SPIKE

LCSD=LABORATORY CONTROL SPIKE DUPLICATE

RPD = RELATIVE PERCENT DEVIATION



# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: EPA 418.1, OIL & GREASE by IR SPECTROPHOTOMETER

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: METHOD BLANK

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 7/1/94  
Date of Analysis: 7/5/94  
Matrix: SOIL

COMPOUND	(mg/Kg) (ppm)	REPORTING LIMIT (ppm)
OIL & GREASE	ND	50

NOTE: (ND) NOT DETECTED AT OR ABOVE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: EPA 418.1, OIL & GREASE by IR SPECTROPHOTOMETER

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: WO-1  
Lab ID: 942020

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 7/1/94  
Date of Analysis: 7/5/94  
Matrix: SOIL

COMPOUND	(mg/Kg) (ppm)	REPORTING LIMIT (ppm)
OIL & GREASE	ND	50

NOTE: (ND) NOT DETECTED AT OR ABOVE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: EPA 418.1, OIL & GREASE by IR SPECTROPHOTOMETER

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: SP-W  
Lab ID: 942023

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 7/1/94  
Date of Analysis: 7/5/94  
Matrix: SOIL

COMPOUND	(mg/Kg) (ppm)	REPORTING LIMIT (ppm)
OIL & GREASE	1,100	50

NOTE: (ND) NOT DETECTED AT OR ABOVE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: EPA 418.1; OIL & GREASE SPIKE SUMMARY

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert - Oakland  
Sample ID: N/A  
Lab ID: LCS/LCSD

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 7/1/94  
Date of Analysis: 7/5/94  
Matrix: SOIL

COMPOUND	CONC SPIKED	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
OIL & GREASE	500	400	493	80%	99%	21%

LCS= LABORATORY CONTROL SPIKE  
LCSD= LABORATORY CONTROL SPIKE DUPLICATE  
RPD= RELATIVE PERCENT DIFFERENCE  
CONC= CONCENTRATION

# MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742

PHONE (916) 635-3962 FAX (916) 635-9331

## ANALYSIS: LEAD TTLC

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert-Oakland  
Matrix: SOIL

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 7/6/94  
Date of Analysis: 7/6/94

Lab ID	Sample ID	Lead mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)	Method
Method Blank	N/A	ND	.5	7420
942014	T1 A	3.	.5	7420
942015	T1 B	7.2	.5	7420

NOTE: (ND) = NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742

PHONE (916) 635-3962 FAX (916) 635-9331

## ANALYSIS: LEAD MATRIX SPIKE SUMMARY

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert-Oakland  
Matrix: SOIL

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 7/6/94  
Date of Analysis: 7/6/94

COMPOUND	CONC SPIKED (mg/L)	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
LEAD	2.0	1.9	1.9	95%	95%	0%

LCS= LABORATORY CONTROL SPIKE  
LCSD= LABORATORY CONTROL SPIKE DUPLICATE  
RPD= RELATIVE PERCENT DIFFERENCE  
NC= CONCENTRATION

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: METALS CAM 5 TTLC

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert-Oakland  
Sample ID: N/A  
Lab ID: Method Blank

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 7/6/94  
Date of Analysis: 7/6/94  
Matrix: SOIL

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT	Method
		mg/Kg (ppm)	
CADMIUM	ND	.1	7130
CHROMIUM	ND	.2	7190
LEAD	ND	.5	7420
NICKEL	ND	.2	7520
ZINC	ND	.8	7920

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: METALS CAM 5 TTLC

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert-Oakland  
Sample ID: WO-1  
Lab ID: 942020

Date Sampled: 6/23/94  
Date Received: 6/24/94  
Date Extracted: 7/6/94  
Date of Analysis: 7/6/94  
Matrix: SOIL

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT	Method
		mg/Kg (ppm)	
CADMIUM	ND	.1	7130
CHROMIUM	26.	.2	7190
LEAD	5.3	.5	7420
NICKEL	61.	.2	7520
ZINC	32.	.8	7920

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.



# MATRIX ENVIRONMENTAL LABORATORIES

## ANALYSIS: METALS LABORATORY CONTROL SPIKE SUMMARY

CLIENT: Western GEO  
CONTACT: G. Converse  
COC No: 4525  
Project No: Desert-Oakland  
Sample ID: N/A  
Lab ID: LCS/LCSD

Date Sampled: N/A  
Date Received: N/A  
Date Extracted: 7/6/94  
Date of Analysis: 7/6/94  
Matrix: SOIL

COMPOUND	CONC SPIKED (PPM)	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
CADMIUM	2	2.1	2.1	105%	105%	0%
CHROMIUM	2	1.7	1.7	85%	85%	0%
LEAD	2	2	2	100%	100%	0%
NICKEL	2	1.9	1.9	95%	95%	0%
ZINC	2	2.1	2.1	105%	105%	0%

LCS= LABORATORY CONTROL SPIKE  
LCSD= LABORATORY CONTROL SPIKE DUPLICATE  
RPD= RELATIVE PERCENT DIFFERENCE  
CONC= CONCENTRATION

white -env.health  
 yellow -facility  
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

Hazardous Materials Inspection Form

II, III

II.A BUSINESS PLANS (Title 19)

- \_\_\_ 1. Immediate Reporting 2703
- \_\_\_ 2. Bus. Plan Stds. 25503(b)
- \_\_\_ 3. RR Cars > 30 days 25503.7
- \_\_\_ 4. Inventory Information 25504(a)
- \_\_\_ 5. Inventory Complete 2730
- \_\_\_ 6. Emergency Response 25504(b)
- \_\_\_ 7. Training 25504(c)
- \_\_\_ 8. Deficiency 25505(a)
- \_\_\_ 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- \_\_\_ 10. Registration Form Filed 25533(a)
- \_\_\_ 11. Form Complete 25533(b)
- \_\_\_ 12. RMPP Contents 25534(c)
- \_\_\_ 13. Implement Sch. Req'd? (Y/N)
- \_\_\_ 14. OffSite Conseq. Assess. 25524(c)
- \_\_\_ 15. Probable Risk Assessment 25534(d)
- \_\_\_ 16. Persons Responsible 25534(g)
- \_\_\_ 17. Certification 25534(h)
- \_\_\_ 18. Exemption Request? (Y/N) 25536(b)
- \_\_\_ 19. Trade Secret Requested? 25536

III. UNDERGROUND TANKS (Title 23)

- \_\_\_ 1. Permit Application 25284 (H&S)
- \_\_\_ 2. Pipeline Leak Detection 25292 (H&S)
- \_\_\_ 3. Records Maintenance 2712
- \_\_\_ 4. Release Report 2651
- \_\_\_ 5. Closure Plans 2670
- \_\_\_ 6. Method
  - 1) Monthly Test
  - 2) Daily Vadose Semi-annual groundwater One time sols
  - 3) Daily Vadose One time sols Annual tank test
  - 4) Monthly Gndwater One time sols
  - 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/gndwater mon.
  - 6) Daily Inventory Annual tank testing Cont pipe leak det
  - 7) Weekly Tank Gauge Annual tank testing
  - 8) Annual Tank Testing Daily inventory
  - 9) Other

- \_\_\_ 7. Precs Tank Test Date: 2643
- \_\_\_ 8. Inventory Rec. 2644
- \_\_\_ 9. Soil Testing 2646
- \_\_\_ 10. Ground Water. 2647

- \_\_\_ 11. Monitor Plan 2632
- \_\_\_ 12. Access. Secure 2634
- \_\_\_ 13. Plans Submit Date: 2711
- \_\_\_ 14. As Built Date: 2635

Rev 6/88

Site ID # \_\_\_\_\_ Site Name Desert Petroleum Today's Date 6/23/94

Site Address 4035 Park Blvd.

City Oakland Zip 94602 Phone \_\_\_\_\_

\_\_\_ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- \_\_\_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER 8K UST
- \_\_\_ II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks removal of 10K UST

\* Callf. Administration Code (CAC) or the Health & Safety Code (HS&C)

10:00 arrived onsite  
 Comments:  
 10:05 Removal of 8K steel regular gasoline UST: tar-wrapped, no obvious holes  
 10:25 Larry James of OFD arrived.  
 10:30 Removal of 10K steel UL gas UST: tar-wrapped.  
 These 2 USTs hauled by H+H under manifest # 92218289. Rinsate transported by Manley under manifest # 92297981.  
 It's ~12' bgs to bottom of USTs.  
 There is a small amt of water below USTs, but it is probably not gw, based on our digging below this + finding dry soil, w/ no water leaching in.  
 11:15 began sampling soil under tanks T1 + T2; see attached map. T1 samples will be analyzed for total lead. These 4 samples were taken ~1/4' bgs in clay w/ gravel, brown, no odor. "B" samples are from fill end. This assumed clean brown clay layer is overlain by a thin layer of stained, odorous (HC) soil.

11:47 left site

Contact: \_\_\_\_\_  
 Title: Western Geo-Engineers  
 Signature: [Signature]

Inspector: \_\_\_\_\_  
 Signature: [Signature]

II, III

white -env. health  
 yellow -facility  
 pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

## Hazardous Materials Inspection Form

II, III

Site ID # \_\_\_\_\_ Site Name Desert Petroleum Today's Date 6/23/94

Site Address 4035 Park Blvd  
 City Oak Zip 94602 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

**Inspection Categories:**

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
  - II. Business Plans, Acute Hazardous Materials
  - III. Underground Tanks
- 6K gasoline removal of 200 gal w.o. UST*

Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

**Comments:**  
 4:05 arrived onsite  
 8K Super UL gas UST + waste oil UST have been removed already.  
 4:10 began sampling under T3 at ~2' below the UST, at ~1/4' bgs. Soil samples have no odor, are clayey w/gravel, + brownish.  
 4:30 Sampled w.o. pit at ~7 1/2' bgs. (Bottom of no UST was ~6' bgs). (WO-1). Soil in pit looks clean, as did sample WO-1: brown silty clay.  
 4:50 Sampled dispensers/piping connections, at ~2' bgs.  
 5:00 W.O. UST is rusty but has no obvious holes. 5:10 Stockpile samples taken.  
 The SP from fuel USTs is being back-killed (rec. a) RP has no \$ to offhaul or over-ex, b) safety hazard, + c) need to restore site visually + esthetically.  
 The 2 USTs will be offhauled tomorrow, by Manley + Sons.  
 left site

- II.A BUSINESS PLANS (Title 19)**
- \_\_\_ 1. Immediate Reporting 2703
  - \_\_\_ 2. Bus. Plan Stds. 25503(b)
  - \_\_\_ 3. RR Cars > 30 days 25503.7
  - \_\_\_ 4. Inventory Information 25504(a)
  - \_\_\_ 5. Inventory Complete 2730
  - \_\_\_ 6. Emergency Response 25504(b)
  - \_\_\_ 7. Training 25504(c)
  - \_\_\_ 8. Deficiency 25505(a)
  - \_\_\_ 9. Modification 25505(b)

- II.B ACUTELY HAZ. MATLS**
- \_\_\_ 10. Registration Form Filled 25533(a)
  - \_\_\_ 11. Form Complete 25533(b)
  - \_\_\_ 12. RMPP Contents 25534(c)
  - \_\_\_ 13. Implement Sch. Req'd? (Y/N)
  - \_\_\_ 14. OnSite Conseq. Assess. 25524(c)
  - \_\_\_ 15. Probable Risk Assessment 25534(d)
  - \_\_\_ 16. Persons Responsible 25534(g)
  - \_\_\_ 17. Certification 25534(f)
  - \_\_\_ 18. Exemption Request? (Y/N) 25536(b)
  - \_\_\_ 19. Trade Secret Requested? 25538

- III. UNDERGROUND TANKS (Title 23)**
- \_\_\_ 1. Permit Application 25284 (H&S)
  - \_\_\_ 2. Pipeline Leak Detection 25292 (H&S)
  - \_\_\_ 3. Records Maintenance 2712
  - \_\_\_ 4. Release Report 2651
  - \_\_\_ 5. Closure Plans 2670

- Monitoring for Existing Tanks**
- \_\_\_ 6. Method
    - 1) Monthly Test
    - 2) Daily Vadose
      - Semi-annual groundwater
      - One time soils
    - 3) Daily Vadose
      - One time soils
      - Annual tank test
    - 4) Monthly Groundwater
      - One time soils
    - 5) Daily Inventory
      - Annual tank testing
      - Cont pipe leak det
      - Vadose/groundwater mon.
    - 6) Daily Inventory
      - Annual tank testing
      - Cont pipe leak det
    - 7) Weekly Tank Gauge
      - Annual tank testing
    - 8) Annual Tank Testing
      - Daily Inventory
    - 9) Other \_\_\_\_\_

- New Tanks**
- \_\_\_ 7. Precs Tank Test 2643
    - Date: \_\_\_\_\_
  - \_\_\_ 8. Inventory Rec. 2644
  - \_\_\_ 9. Soil Testing 2646
  - \_\_\_ 10. Ground Water. 2647
  - \_\_\_ 11. Monitor Plan 2632
  - \_\_\_ 12. Access. Secure 2634
  - \_\_\_ 13. Plans Submit 2711
    - Date: \_\_\_\_\_
  - \_\_\_ 14. As Built 2635
    - Date: \_\_\_\_\_

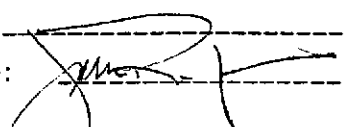
525

Rev 6/88

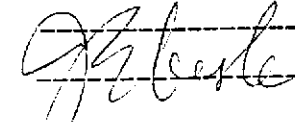
II, III

Contact: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: 

Inspector: \_\_\_\_\_

Signature: 



PROJECT I.D. <u>Desert - Oakland COP793</u>					NO. of CONTAINERS	ANALYSIS											COMMENTS:
CLIENT CHAIN OF CUSTODY #						BTEX	TFH (TPH-G)	TPH-D	624/8240	625/8270	418/O&G	5520/503 O&G	METALS CAMS	TLC Pb	SAMPLE CONDITION	ICED	
LAB I.D. #	SAMPLE I.D.	DATE SAMPLED	TIME SAMPLED	MATRIX													
942014	T1 A	6/23/94	1125	Soil	1	✓	✓										
942015	T1 B		1137		1	✓	✓										
942016	T2 A		1120		1	✓	✓										
942017	T2 B		1115		1	✓	✓										
942018	T3 A		1620		1	✓	✓										
942019	T3 B		1615		1	✓	✓										
942020	W0-1		1630		1	✓	✓	AD	AD	✓	✓	✓	✓				
942021	PL-1		1651		1	✓	✓										
942022	PL-2		1700		1	✓	✓										
942023	SP-W		1710		1	✓	✓	AD		✓							
942024	SP1		1711		1	✓	✓										
942025	SP2		1712		1	✓	✓										
942026	SP3		1713		1	✓	✓										
942027	SP4		1714		1	✓	✓										
942028	SP5		1715		1	✓	✓										
942029	SP6		1716		1	✓	✓										

Normal Turn around  
8240/8270 modified w/ DL as 8010 for 8240

Relinquished by: (Signature) <i>George Converse</i>	Date/Time 6/24/94 0830	Received by: (Signature) <i>[Signature]</i>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 6/24/94 0830	Received for Laboratory by: (Signature) <i>[Signature]</i>

Special Instructions  
Report To: *George Converse*  
Bill To: *Western Ge. - Engineers*  
*1386 E. Beamer St*  
*Woodland, CA 95776*



FOR DETAIL OF THIS AREA  
SEE WALNUT CREEK MAP

Hospital  
Highland  
Hospital  
14th Ave /

Beaufort  
911

1:50,000  
EMERYVILLE  
COUNTY 11A

EMERYVILLE  
COUNTY 11A

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