

PO BOX 996 • BENICIA, CA 94510: 33

(707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581

February 13, 1990

Alameda County Health Care Services 80 Swan Way, Rm. 200 Oakland, CA 94621

Attention: Mr. Ariu Levi

RE: Unocal Service Station #5781

3535 Pierson Street Oakland, California

Dear Mr. Levi:

Per the request of Mr. Risk Sisk of Unocal Corporation, enclosed please find our report dated February 9, 1990, for the above referenced site.

Should you have any questions, please feel free to call our office at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.

Judy A. Dewey

Enclosure

cc: Rick Sisk, Unocal Corporation



### **Consulting Engineers**

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581

KEI-J89-1204.R2
February 9, 1990

Unocal Corporation 2175 N. California Blvd., Suite 650 Walnut Creek, CA 94596

Attention: Mr. Rick Sisk

RE: Soil Sampling Report

Unocal Service Station #5781

3535 Pierson Street Oakland, California

Dear Mr. Sisk:

This report summarizes the soil sampling performed by Kaprealian Engineering, Inc. (KEI) at the referenced site. All work was performed in compliance with the guidelines established by the Regional Water Quality Control Board (RWQCB), and the Alameda County Health Agency.

The scope of the work performed by KEI consisted of the following:

Coordination with regulatory agencies.

Collection of samples of native soil from beneath the tanks, from the fuel tank pit sidewalls, and from product line trench.

Collection of samples of native soil from the product pipe trenches.

Delivery of samples, including proper Chain of Custody documentation, to a certified analytical laboratory.

Technical review of field data and laboratory analyses, and preparation of this report.

#### SITE DESCRIPTION AND BACKGROUND

The subject site is presently used as a gasoline station. A Location Map and Site Plan are attached to this report. No leaks or previous subsurface work performed at the site are known to KEI.

#### FIELD ACTIVITIES

KEI's field work was conducted on December 14, 1989, when three underground storage tanks were removed from the site. The tanks consisted of one 10,000 gallon super unleaded fuel storage tank, one 10,000 gallon regular unleaded fuel storage tank, and one 280 gallon waste oil tank. The fuel tanks were made of steel and no apparent holes or cracks were observed. However, the waste oil tank had one hole of approximately 1.25 square inches. Mr. Robert Dawson of the City of Oakland Fire Department, and Mr. Ariu Levi of the Alameda County Health Agency were present during tank removal. Mr. Ariu Levi remained on-site during subsequent soil sampling.

Three soil samples, labeled A1, B1, and A2/B2, were taken of native soil from beneath the fuel tanks at a depth of about 12.5 feet. In addition, two soil samples, labeled SW1 and SW2, were collected of native soil from the fuel tank pit sidewalls at a depth of 10.5 feet. One soil sample, labeled W01, was collected from the native soil beneath the waste oil tank at a depth of 6 feet. Samples were collected from bulk material excavated by backhoe. Samples were placed in clean, two-inch diameter brass tubes, sealed with aluminum foil, plastic caps and tape, and stored in a cooled ice chest for delivery to a certified laboratory. Sample locations are as shown on the attached Site Plan, Figure 1.

KEI returned to the site on January 17, 1990, to collect samples of the native soil beneath the product pipe trenches. Two undisturbed samples, labeled P1 and P2, were collected from bulk material excavated by backhoe, at depths of 5.5 to 6.0 feet. These samples were collected and handled as described above. Sample point locations are also shown on the attached Site Plan. The product pipe trenches were excavated to the sample depths, and the excavated soil stockpiled on-site for further sampling.

### SUBSURFACE CONDITIONS

The subsurface soils exposed in the excavations consisted primarily of silty clay. During tank removal, a water pipe was broken causing water to temporarily appear in the tank pit.

#### ANALYTICAL RESULTS

All tank pit and pipe trench samples were analyzed by Sequoia Analytical Laboratory in Redwood City, California and were accompanied by properly executed Chain of Custody documentation. All soil samples were analyzed for total petroleum hydrocarbons

(TPH) as gasoline using EPA method 5030 in conjunction with modified 8015, and benzene, toluene, xylenes and ethylbenzene (BTX&E) using EPA method 8020. In addition, the waste oil tank pit sample, WO1, was analyzed for TPH as diesel using EPA method 3550 in conjunction with modified 8015, total oil and grease (TOG) by EPA 418.1, EPA 8010 constituents, and the metals-cadmium, chromium, lead and zinc.

Analyses of the soil samples collected from the fuel tank pit indicate levels of TPH as gasoline ranging from non-detectable to 46 ppm, with non-detectable levels of BTX&E concentrations in all samples, except for samples A2/B2 and SW2, which showed benzene at 0.10 ppm and 0.65 ppm, respectively. Analyses of the product pipe trench samples indicate non-detectable levels of TPH as gasoline and BTX&E constituents for both samples.

Analyses of the soil sample collected from the waste oil tank pit showed TPH as gasoline at 670 ppm, 5.4 ppm benzene, TPH as diesel at 8,300 ppm, and TOG at 48,000 ppm. EPA method 8010 results showed 1,2-dichlorobenzene at 10 ppb, tetrachloroethene at 77 ppb, and 1,1,1-trichloroethane at 15 ppb. Metals concentrations were as follows: cadmium non-detectable; chromium 8.3 ppm, lead 340 ppm, and zinc 70 ppm.

The analytical results are summarized in Table 1. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

#### DISCUSSION AND RECOMMENDATIONS

In accordance with the guidelines established by the RWQCB, further work is necessary at the site because of the level of contamination found in the soil. To comply with the requirements of the RWQCB and the Alameda County Health Agency, KEI recommends further excavation in the area of the waste oil tank, and the installation of three monitoring wells at the site to begin to define the vertical extent of the soil contamination, to determine the ground water flow direction, and to determine if the ground water has been impacted. Approximate locations of the monitoring wells are shown on the attached Site Plan, Figure 2. KEI's work plan/proposal for this work has been previously submitted to you and to Mr. Ariu Levi of the Alameda County Health Agency. The additional excavation of the waste oil tank pit is scheduled mid-February.

#### **DISTRIBUTION**

A copy of this report should be sent to Mr. Robert Dawson of the City of Oakland Fire Department, to Mr. Ariu Levi of the Alameda County Health Agency, and to the RWQCB, San Francisco Bay Region.

#### **LIMITATIONS**

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state certified laboratory. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

Should you have any questions regarding this report, please feel free to call me at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.

Richard M. Bradish Staff Engineer

Don R. Braun

Certified Engineering Geologist

License No. 1310 Exp. Date 6/30/90

Mardo Kaprealian

President

Attachments: Table 1

Site Plan - Figures 1 & 2

Laboratory Analyses

Chain of Custody documentation

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

(Results in ppm)
(Samples collected on December 14, 1989 and January 17, 1990)

<u>Sample</u>	Depth (feet)	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Xylenes	<u>Ethylbenzene</u>
A1 B1	12.5 12.5	3.5 ND	ND ND	ND ND	ND ND	ND ND
A2/B2	12.5	5.8	0.10	ND	ND	ND
					1175	ND.
SW1 SW2	10.5 10.5	15 46	ND 0.65	ND ND	ND ND	ND ND
P1	5.5	ND	ND	ND	ND	ND
P2	6.0	ND	ND	ND	ND	ND
W01*	6	670	5.4	15	17	2.3
Detecti Limits	on	1.0	0.05	0.1	0.1	0.1

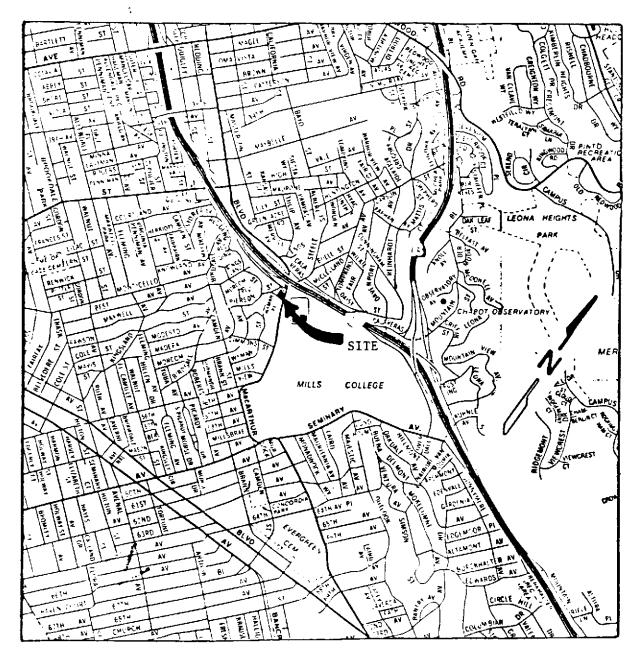
<sup>\*</sup> All EPA method 8010 constituents were non-detectable, except 1,2-dichlorobenzene at 10 ppb, tetrachloroethene at 77 ppb, and 1,1,1-trichloroethane at 15 ppb. Metals concentrations were as follows: cadmium non-detectable, chromium 8.3 ppm, lead 340 ppm, and zinc 70 ppm. TPH as diesel showed 8,300 ppm, and TOG showed 48,000 ppm.

ND = Non-detectable.



## Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581



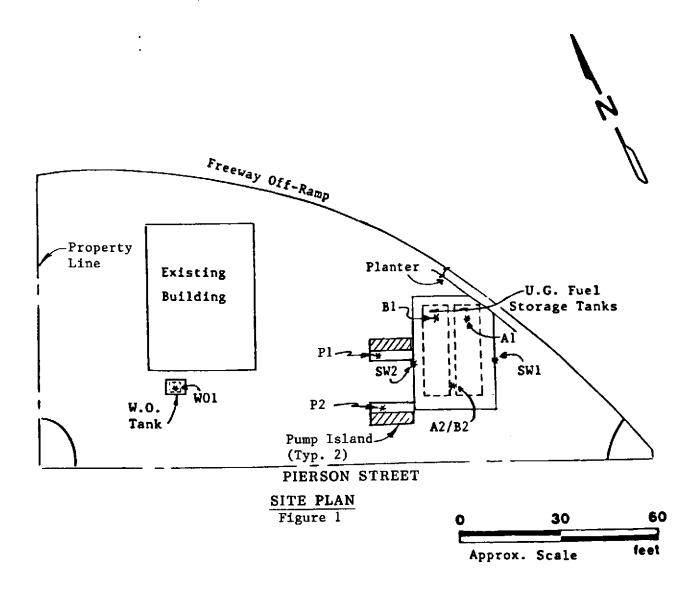
LOCATION MAP

Unocal Service Station #5781 3535 Pierson Street Oakland, California



## **Consulting Engineers**

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## **LEGEND**

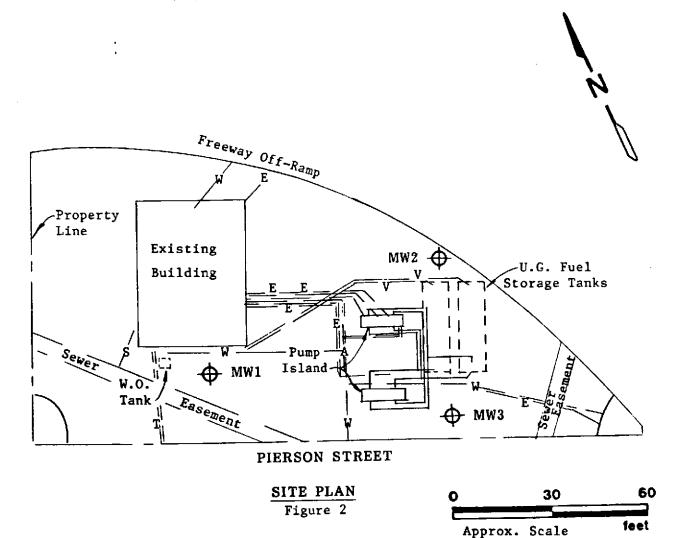
\* Sample Point Location

Unocal Service Station #5781 3535 Pierson Street Oakland, California



### **Consulting Engineers**

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### **LEGEND**

- A Air Line
- E Electric Line
- S Sewer Line
- V Vent Line
- W Water Line
  - Monitoring Well

Unocal Service Station #5781 3535 Pierson Street Oakland, California



Client Project ID:

Unocal #5781, Qakland, 3535 Pierson

Sampled:

Dec 14, 1989

P.O. Box 996 Benicia, CA 94510

Matrix Descript: **Analysis Method:** 

Soil EPA 5030/8015/8020 Received: Analyzed: Dec 15, 1989 Dec 18, 1989

Attention: Mardo Kaprealian, P.E.

First Sample #:

912-2064

Reported:

Dec 19, 1989

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
912-2064	A1	3.5	N.D.	N.D.	N.D.	N.D.
912-2065	B1	N.D.	N.D.	N.D.	N.D.	N.D.
912-2066	A2/B2	5.8	0.10	N.D.	N.D.	N.D.
912-2067	SW1	15	N.D.	N.D.	N.D.	N.D.
912-2068	SW2	46	0.65	N.D.	N.D.	N.D.

						· · · · · ·
Detection Limits:	1.0	0.05	0.1	0.1	0.1	

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL



### CHAIN OF CUSTODY

SAMPLER  SITE NAME & ADDRESS  LIMITHESSING AGENCY  ARICLE LEVI  SITE NAME & ADDRESS  SITE NAME & ADDRESS  SITE NAME & ADDRESS  Pierror Pierror Machiel  Date of the Address  No. 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12								 	ANALYSES REQUESTED TURN AROUND TIME:							
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Dec 14, 1989 Kaprealian Engineering, Inc. Client Project ID: Unocal #5781, Oakland, 3535 Pierson Sampled: P.O. Box 996 Received: Dec 15, 1989 Sample Descript.: Soil, WO1 Analyzed: Dec 18, 1989 Benicia, CA 94510 Analysis Method: EPA 5030/8015/8020 Reported: Dec 19, 1989 Attention: Mardo Kaprealian, P.E. Lab Number: 912-2063

### TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte Detection Limit Sample Results mg/kg (ppm) mg/kg (ppm)

Low to Medium Boiling Point Hyd	rocarbons 1,	0	670
Benzene	0.0	5	5.4
Toluene	0.	1	15
Ethyl Benzene	O.	1	2.3
Xylenes	D.		

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** 



P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID:

Unocal #5781, Oakland, 3535 Pierson

Matrix Descript: Soil

Analysis Method: E

EPA 3550/8015

First Sample #: 912-2063

Sampled:

Dec 14, 1989

Received:

Dec 15, 1989 Dec 15, 1989

Extracted: Analyzed:

Dec 15, 1989

Reported: !

Dec 19, 1989

## **TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)**

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
912-2063	WO1	8,300

**Detection Limits:** 

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL



P.O. Box 996

912-2063

Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.

Client Project ID: Matrix Descript:

Unocal #5781, Oakland, 3535 Pierson

Dec 14, 1989

Analysis Method:

Soil

EPA 418.1 (I.R. with clean-up)

Sampled: Received: Extracted:

Dec 15, 1989 Dec 18, 1989

First Sample #:

48,000

912-2063

Analyzed: Reported: Dec 18, 1989 Dec 19, 1989

#### TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)

**WO1** 

**Detection Limits:** 

1.0

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** 

Kaprealian Engineering, Inc. P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID: Sample Descript: Unocal #5781, Oakland, 3535 Pierson

Soil, WO1 Analysis Method: EPA 5030/8010 Lab Number:

912-2063

Sampled: Dec 14, 1989 Received: Dec 15, 1989

Analyzed: Dec 18, 1989 Reported: Dec 19, 1989

# **HALOGENATED VOLATILE ORGANICS (EPA 8010)**

Analyte	Detection Limit µg/kg		Sample Results µg/kg
Bromodichloromethane	5.0	**************	N.D.
Bromoform	5.0	*****************************	N.D.
Bromomethane	5.0	*******************************	N.D.
Carbon tetrachloride	5.0	************	N.D.
Chlorobenzene	5.0	************	N.D.
Chloroethane	25.0	***************************************	N.D.
2-Chloroethylvinyl ether	5.0	***********	N.D.
Chloroform	5.0	***************************************	N.D.
Chloromethane	5.0	***************************************	N.D.
Dibromochloromethane	5.0	***************************************	N.D
1,2-Dichlorobenzene	10.0	***************************************	
1,3-Dichlorobenzene	10.0	***************************************	N.D.
1,4-Dichlorobenzene	10.0	***************************************	N.D.
1,1-Dichloroethane	5.0	B	N.D.
1,2-Dichloroethane	5.0	***********************************	N.D.
1,1-Dichloroethene	5.0		N.D.
Total 1,2-Dichloroethene	5.0		N.D.
1,2-Dichloropropane	5.0	***************************************	N.D.
cis-1,3-Dichloropropene	5.0	***************************************	N.D.
trans-1,3-Dichloropropene	5.0		N.D.
Methylene chloride	10.0	***************************************	N.D.
1.1.2.2-Tetrachloroethane	5.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N.D.
Tetrachloroethene	5.0	***************************************	77
1,1,1-Trichloroethane	5.0	***************************************	
1,1,2-Trichloroethane	5.0		N.D.
Trichloroethene	5.0	***************************************	N.D.
Trichlorofluoromethane	5.0	***************************************	N.D.
Vinyl chloride	10.0	***************************************	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** 



Client Project ID:

Unocal #5781, Oakland, 3535 Pierson

Sampled: Dec 14, 1989;

P.O. Box 996

Dec 15, 1989

Benicia, CA 94510

Sample Descript:

Received: Extracted:

Dec 18, 1989

Attention: Mardo Kaprealian, P.E.

Lab Number:

912-2063

Soil, WO1

Analyzed: Reported: Dec 18, 1989 Dec 19, 1989

### LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg								
Cadmium	0.5	*****	N.D.						
Chromlum	0.5		8.3						
Lead	2.5		340						
Zinc	0.5	***************************************	70						

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** 

Belinda C. Vega Project Manager

9122064.KEI <2>



## CHAIN OF CUSTODY

SAMPKER)  LINGER SITE HAME & ADDRESS  LINGER SS # 5781  3535 Present (Present)									   	ANALYSES REQUESTED   TURN AROUND TIME:							
WITHESSING A		lesse.	Cluscal 58 # 5781  - 3535 Pierson (Pierson de Macardan)							0-0-	S0304E	† 1	Pb 120	Pb 120			
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Kapreallan Engineering, Inc. P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, Oakland, Pierson/MacArthur

Matrix Descript: Soil

Analysis Method:

EPA 5030/8015/8020

First Sample #: 001-1877

Sampled:

Jan 17, 1990

Received: Jan 17, 1990 Analyzed: Jan 17, 1990

Reported: Jan 19, 1990

# TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	<b>Xylenes</b> mg/kg (ppm)
001-1877	P1	N.D.	N.D.	N.D.	N.D.	N.D.
001-1878	P2	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits: 1.0 0.05 0.1 0.1 0.1

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL Challeth Hacht

Belinda C. Vega Project Manager

11877.KEI <1>



CHAIN OF CUSTODY

SAMPLER			•			ME & ADDRESS	ANALYSES REQUESTED							TURN AROUND TIME:		
 	AGENCY		•	Huocal - Oakland - Pierson St/McArthur								!			     	1 24 Hrs
SAMPLE ID NO.	DATE	TIME	     SOIL	    WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	17PH-1	アドル					     	REHARKŠ
PI P2	1/17/90	<del> </del>	10	<del></del>	1		1	Pipe Trencte Pipe Trencte	10	├—	<del>-  </del>				† <del></del> † †	00/1877
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Relinquishe	ed by: (Si	gnature)	4	ate/Ti		-	Receiv	ed by: (Signature)	3. Did any samples received for analysis have her							
Rel inquishe	ed by: (Si	gnature)	D	ate/Ti	me		Receiv	ed by: (Signature)	4. Were samples in appropriate container  Signature Title					5/ 1-17-90		