

KAPREALIAN ENGINEERING  
INCORPORATED

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July 14, 1992

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

RE: Unocal Service Station #7004  
15599 Hesperian Blvd.  
San Leandro, California

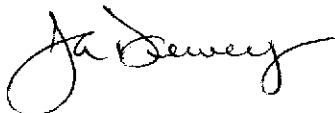
Gentlemen:

Per the request of Mr. Bob Boust of Unocal Corporation, enclosed please find our report dated July 6, 1992, for the above referenced site.

If you should have any questions, please feel free to call our office at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.



Judy A. Dewey

jad\82

Enclosure

cc: Bob Boust, Unocal Corporation



KAPREALIANENGINEERING  
INCORPORATED

KEI-P90-1003.R7

July 6, 1992

Unocal Corporation  
2000 Crow Canyon Place, Suite 400  
P.O. Box 5155  
San Ramon, California 94583

Attention: Mr. Bob Boust

RE: Stockpiled Soil Sampling for  
Unocal Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

Dear Mr. Boust:

This letter report summarizes the analytical results of the soil samples that were collected from the stockpiled soil at the referenced site. The soil analyses were conducted to comply with the County Health Department requirements for proper disposal of contaminated soil.

On April 15, 1992, a soil sample from approximately two cubic yards of stockpiled soil that had been generated during drilling activities was collected to determine proper disposal of the soil. One composite soil sample (designated as Comp RW1) was taken. The composite sample consisted of four individual grab samples taken at various locations within the stockpile. The sample was collected in two-inch diameter, clean brass tubes, which were then sealed with aluminum foil, plastic caps and tape, and placed in a cooled ice chest for subsequent delivery to a certified laboratory for analysis. The sample was analyzed at Sequoia Analytical Laboratory in Concord, California, and was accompanied by properly executed Chain of Custody documentation.

The soil sample was analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline using EPA method 5030 in conjunction with modified 8015, and benzene, toluene, xylenes and ethylbenzene using EPA method 8020. Analytical results of the soil sample (Comp RW1) indicated a level of TPH as gasoline of 21 ppm. Results of the soil analyses are summarized in Table 1. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

Based on the analytical results of the soil samples, approximately two cubic yards of stockpiled soil, represented by sample Comp RW1, were disposed of at BFI Landfill in Livermore, California (an approved Class III disposal site) by Dillard Trucking of Byron, California. However, prior to loading and off-hauling of the

KEI-P90-1003.R7

July 6, 1992

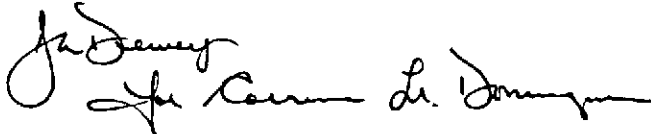
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stockpiled soil, Kaprealian Engineering, Inc. recommended that if obvious isolated areas of contamination were detected within the stockpiled soil, that portion of the soil be separately stockpiled for further treatment and sampling.

Should you have any questions on this report, please do not hesitate to contact me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

A handwritten signature in cursive script, appearing to read "Corrina M. Dominguez".

Corrina M. Dominguez  
Technical Assistant

/cmd

Attachments: Table 1  
Laboratory Results  
Chain of Custody documentation

KEI-P90-1003.R7  
July 6, 1992

TABLE 1  
SUMMARY OF LABORATORY ANALYSES  
(Collected April 15, 1992)

<u>Sample</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl-benzene</u>
Comp RW1	21	0.013	0.013	0.18	0.10
Detection Limits	1.0	0.0050	0.0050	0.0050	0.0050

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc.	Client Project ID: Unocal #7004, 15599 Hesperian Blvd	Sampled: Apr 15, 1992
2401 Stanwell Drive, Suite 400	Sample Descript.: Soil Comp-RW1 San Leandro	Received: Apr 17, 1992
Concord, CA 94520	Analysis Method: EPA 5030/8015/8020	Analyzed: Apr 21, 1992
Attention: Mardo Kaprealian, P.E.	Lab Number: 204-0805	Reported: Apr 23, 1992

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

Analyte	Method Detection Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
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Low to Medium Boiling Point Hydrocarbons.....	1.0	21
Benzene.....	0.0050	0.013
Toluene.....	0.0050	0.013
Ethyl Benzene.....	0.0050	0.18
Xylenes.....	0.0050	0.10

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

*Belinda C. Vega*

Belinda C. Vega  
Laboratory Director

2040805.KEI <1>



# SEQUOIA ANALYTICAL

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Kaprealian Engineering, Inc.  
2401 Stanwell Drive, Suite 400  
Concord, CA 94520

Client Project ID: Unocal #7004, 15599 Hesperian Blvd., San Leandro

Attention: Mardo Kaprealian, P.E. QC Sample Group: 204-0805

Reported: Apr 23, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020
Analyst:	K.N.	K.N.	K.N.	K.N.
Reporting Units:	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Date Analyzed:	Apr 21, 1992	Apr 21, 1992	Apr 21, 1992	Apr 21, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.40	0.40	0.40	1.2
Conc. Matrix Spike:	0.29	0.40	0.42	1.2
Matrix Spike % Recovery:	73	100	105	100
Conc. Matrix Spike Dup.:	0.29	0.40	0.42	1.3
Matrix Spike Duplicate % Recovery:	73	100	105	108
Relative % Difference:	0.0	0.0	0.0	8.0

Laboratory blank contained the following analytes: None detected

SEQUOIA ANALYTICAL

Belinda C. Vega  
Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



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Concord, CA 94520

Client Project ID: Unocal #7004, 15599 Hesperian Blvd., San Leandro

Attention: Mardo Kaprealian, P.E. QC Sample Group: 204-0805

Reported: Apr 23, 1992

## QUALITY CONTROL DATA REPORT

### SURROGATE

	EPA	EPA
Method:	8015/8020	8015/8020
Analyst:	K.N.	K.N.
Reporting Units:	mg/Kg	mg/Kg
Date Analyzed:	Apr 21, 1992	Apr 17, 1992
Sample #:	204-0805	Blank

<b>Surrogate</b>		
<b>% Recovery:</b>	100	108

SEQUOIA ANALYTICAL

*Belinda C. Vega*  
Belinda C. Vega  
Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



# KAPREALIAN ENGINEERING, INC.

## CHAIN OF CUSTODY

SAMPLER <i>[Signature]</i>		SITE NAME & ADDRESS <i>UNCLAS #7004 / SAN LEANORO 15579 MESPERAN BLVD.</i>					ANALYSES REQUESTED				TURN AROUND TIME: <i>REGULAR</i>		
WITNESSING AGENCY <i>[Signature]</i>							<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><i>[Signature]</i></td> <td style="width: 50%; text-align: center;"><i>[Signature]</i></td> </tr> </table>				<i>[Signature]</i>	<i>[Signature]</i>	REMARKS
<i>[Signature]</i>	<i>[Signature]</i>												
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION			<i>2040805 AD</i>		
<i>COMP-RM</i>	<i>4-15-92</i>		<i>X</i>				<i>X</i>	<i>4</i>	<i>DRILL CUTTINGS</i>	<i>X</i>		<i>X</i>	
Relinquished by: (Signature) <i>[Signature]</i>	Date/Time <i>4-17-92 / 4:50PM</i>	Received by: (Signature) <i>[Signature]</i>	The following MUST BE completed by the laboratory accepting samples for analysis:										
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	1. Have all samples received for analysis been stored in ice? <input checked="" type="checkbox"/>										
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	2. Will samples remain refrigerated until analyzed? <input checked="" type="checkbox"/>										
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	3. Did any samples received for analysis have head space? <i>N/A</i>										
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	4. Were samples in appropriate containers and properly packaged? <input checked="" type="checkbox"/>										
			<i>[Signature]</i>	<i>[Signature]</i>	<i>4/17/92</i>								
			Signature	Title	Date								