KAPREALIAN ENGINEERING
INCORPORATED

KEI-J97-0301.R1
April 17, 1997

Tosco Marketing Company
Environmental Compliance Department
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

Attention: Ms. Tina Berry — 277-2321

RE: Soil and Ground Water Sampling Report
Unocal Service Station #0018
6201 Claremont Avenue
Oakland, California

Dear Ms. Berry:

This report summarizes the soil and ground water sampling performed by Kaprealian Engineering, Inc. (KEI) at the referenced site. During the recent replacement of the underground storage tanks and product dispensers, all work was performed in compliance with the guidelines established by the Regional Water Quality Control Board (RWQCB) and the Alameda County Health Care Services (ACHCS) Agency.

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

Coordination with regulatory agencies

Collection of soil samples from beneath the underground fuel and waste storage tanks, and from beneath the product dispensers — Not initial samples

Collection of one ground water sample from the fuel storage tank pit

Collection of soil samples from the stockpiled soil that had been excavated from the fuel and waste oil storage tank pits and from piping trenches

Delivery of soil and water samples, including proper Chain of Custody documentation, to a certified analytical laboratory

Technical review and preparation of this report

SITE DESCRIPTION AND BACKGROUND

The subject site contains a Unocal service station facility. A Location Map and a Site Plan are attached to this report. No previous environmental work performed at the site is known to KEI.

2401 Stanwell Drive, Suite 400
Concord, California 94520
Tel: 510.602.5100 Fax: 510.687.0602

FIELD ACTIVITIES

KEI's initial field work was conducted on March 5, 1997, when two 12,000 gallon underground unleaded gasoline storage tanks and one 280 gallon waste oil storage tank were removed from the site. No apparent holes or cracks were observed in the fuel tanks. However, three holes of approximately 1/4-inch in diameter were observed on top of the waste oil tank. Tank removal soil sampling was performed in the presence of Ms. Madhulla Logan of the ACHCS. Mr. Herman E. Gomez of the City of Oakland Fire Services Agency was present during tank removal operations. Soil sampling in the fuel tank pit was scheduled to be performed on March 7, 1997, after completion of an additional 4 feet vertical excavation needed for new larger fuel tank installation.

One soil sample (labeled WO1) was collected from beneath the waste oil tank at a depth of approximately 8 feet below grade. The undisturbed sample was collected from bulk material excavated by backhoe. The samples was placed in a clean, two-inch diameter brass tube, sealed with Teflon-lined plastic caps, and stored in a cooled ice chest for delivery to a state-certified laboratory. The soil sample point locations are shown on the attached Figure 1.

Because of the short distance of the product line trenches from the fuel tank pit to the product dispensers, Mr. Barney Chan did not request soil sampling from the product line trenches.

KEI returned to the site on March 7, 1997, in order to collect the required soil samples from the fuel tank pit that had been excavated to a depth of about 16 feet below grade. Ground water was encountered in the fuel tank pit at depths ranging from 15.5 feet to 16.5 feet below grade. Four soil samples, labeled A1, A2, B1, and B2, were collected from beneath the former fuel tanks at soil-water interface (approximately 16 feet below grade). Four soil samples, labeled D1 through D4, were collected from beneath the product dispensers at depths of approximately 2 feet below grade. These soil samples were also collected and handled as described above. Soil sample point locations are shown on the attached Figure 1. Because of the short distance of the product line trenches from the fuel tank pit to the product dispensers, Mr. Barney Chan did not request soil sampling from the product line trenches. In addition, one ground water sample, labeled Water 1, was collected from the fuel tank pit excavation by the use of a clean Teflon bailer. The water sample was decanted into three clean glass VOA vials that were then sealed with Teflon-lined screw caps, labeled and stored in a cooler, on ice, until delivery to a state-certified laboratory. Mr. Barney Chan of the ACHCS was present during sampling activities.

STOCKPILE MANAGEMENT

Approximately 500 tons of soil were excavated from the fuel tank pit and piping trenches and 16 tons of soil were excavated from the waste oil tank pit. Arrangements were made to transport and temporarily stockpile all excavated soil at Forward Landfill, Inc. located in Manteca, California (an approved Class II/III disposal facility), where subsequent soil samples were collected. Manley & Sons Trucking, Inc. of Sacramento, California, transported the soil to Forward Landfill.

On March 13, 1997, KEI collected three composite soil samples (designated as Comp A, Comp B, and Comp C) from the stockpiled soil that had been generated from the fuel tank pit and piping trench excavation. In addition, one composite soil sample (designated as Comp WOA) was collected from the stockpiled soil that had been generated from the waste oil tank pit excavation. Each composite soil sample consisted of four individual grab samples taken at various locations and at depths of about 2 feet into the stockpile. The individual soil samples were also collected and handled as previously described. Based on the analytical results of the stockpile samples, Forward Landfill subsequently disposed of the soil under Approval #575822 and #575922.

SUBSURFACE CONDITIONS

Subsurface soil observed in the excavations consisted primarily of clay and silty clay. Ground water was encountered in the fuel tank pit excavation at depths ranging from 15.5 to 16.5 feet below grade.

ANALYTICAL RESULTS

All samples were analyzed by Sequoia Analytical Laboratory in Walnut Creek, California, and were accompanied by properly executed Chain of Custody documentation. The samples from the fuel tank pit and dispenser islands were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020, and MTBE. The sample from the waste oil tank pit was analyzed for TPH as gasoline, TPH as diesel by EPA method 3550/modified 8015, BTEX, total oil and grease (TOG) by Standard Method 5520E&F, EPA methods 8270 and 8010 constituents, and the metals cadmium, chromium, lead, nickel, and zinc.

The results of the soil analyses are summarized in Tables 1 and 2, and the results of the water analyses are summarized in Table 3. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

DISTRIBUTION

A copy of this report should be sent to Ms. Madhulla Logan of the ACHCS.

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 on this report, please call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Hagop Kevork, P.E.
Senior Staff Engineer

License No. C55734
Exp. Date: 12/31/00

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/00
CIVIL
STATE OF CALIFORNIA

Sarkis A. Soghomonian
Project Engineer

/jad

Attachments: Tables 1, 2 & 3
Figure 1
Laboratory Analyses
Chain of Custody documentation

KEI-J97-0301.R1
April 17, 1997

TABLE 1

SUMMARY OF LABORATORY ANALYSES
SOIL

Date	Sample	Depth (feet)	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	TOG
3/05/97	WO1	8	ND	ND	ND	ND	ND	ND	ND

		EPA Method 8010 Constituents (µg/kg)	EPA Method 8270 Constituents (µg/kg)	Cadmium	Chromium	Lead	Nickel	Zinc
		ND	ND	ND	33	3.7	38	45

No initial tank samples were collected. They overexcavated & then took samples.

Date	Sample	Depth (feet)	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
3/07/97	A1	16	ND	ND	ND	ND	ND	ND
	A2	16	2.6	ND	0.011	0.017	0.044	ND
	B1	16	ND	ND	ND	ND	ND	ND
	B2	16	ND	ND	ND	ND	0.0051	ND
Pump Island	D1	2	1.4	0.012	0.10	0.030	0.32	1.4
	D2	2	ND	ND	ND	ND	ND	ND
	D3	2	ND	ND	ND	ND	ND	ND
	D4	2	ND	ND	ND	ND	ND	ND

ND = Non-detectable.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.

KEI-J97-0301.R1
April 17, 1997

TABLE 2

SUMMARY OF LABORATORY ANALYSES
STOCKPILED SOIL AT FORWARD LANDFILL

Date	Sample	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead
3/13/97	Comp A	22	ND	ND	0.012	ND	6.5
	Comp B	5.0	ND	0.0060	0.0060	0.022	17
	Comp C	2.0	ND	ND	ND	0.0090	15
3/17/97	Comp WOA	28	--	--	--	--	47

Date	Sample	TPH as Diesel	TOG	EPA Method 8240 Constituents (µg/kg)	EPA Method 8270 Constituents (µg/kg)	Cadmium	Chromium	Nickel	Zinc
3/17/97	Comp WOA	1,400	1,600	ND	ND	ND	36	31	55

ND = Non-detectable.

-- Indicates analysis was not performed.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.

KEI-J97-0301.R1
April 17, 1997

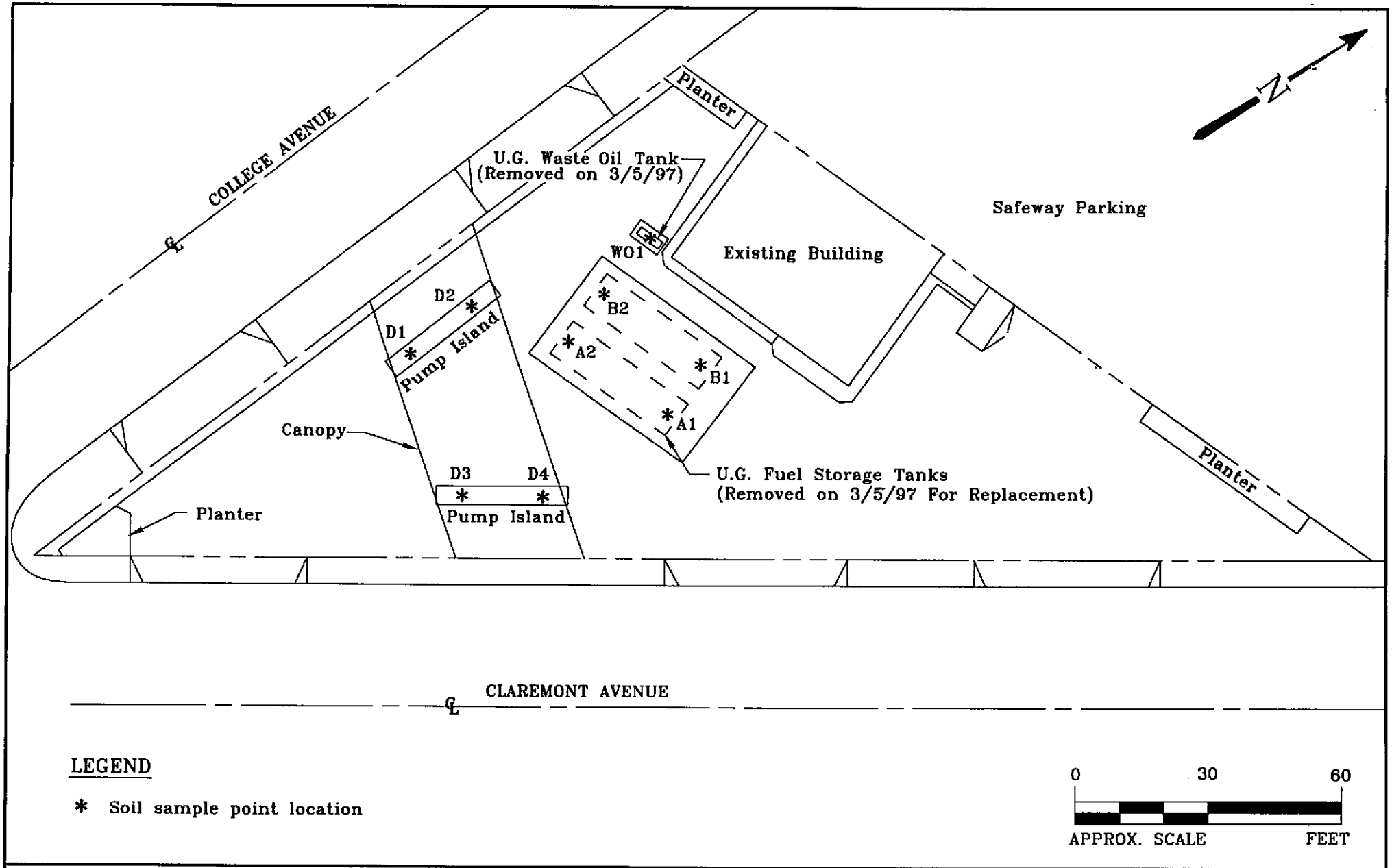
TABLE 3

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample	Depth to Water (feet)	MTBE	TPH as Gasoline	TPH as Benzene	Toluene	Ethyl-benzene	Xylenes
3/07/97	Water 1	16	ND	6,100	54	38	300	2,500

ND = Non-detectable.

Results are in micrograms per liter (µg/L), unless otherwise indicated.

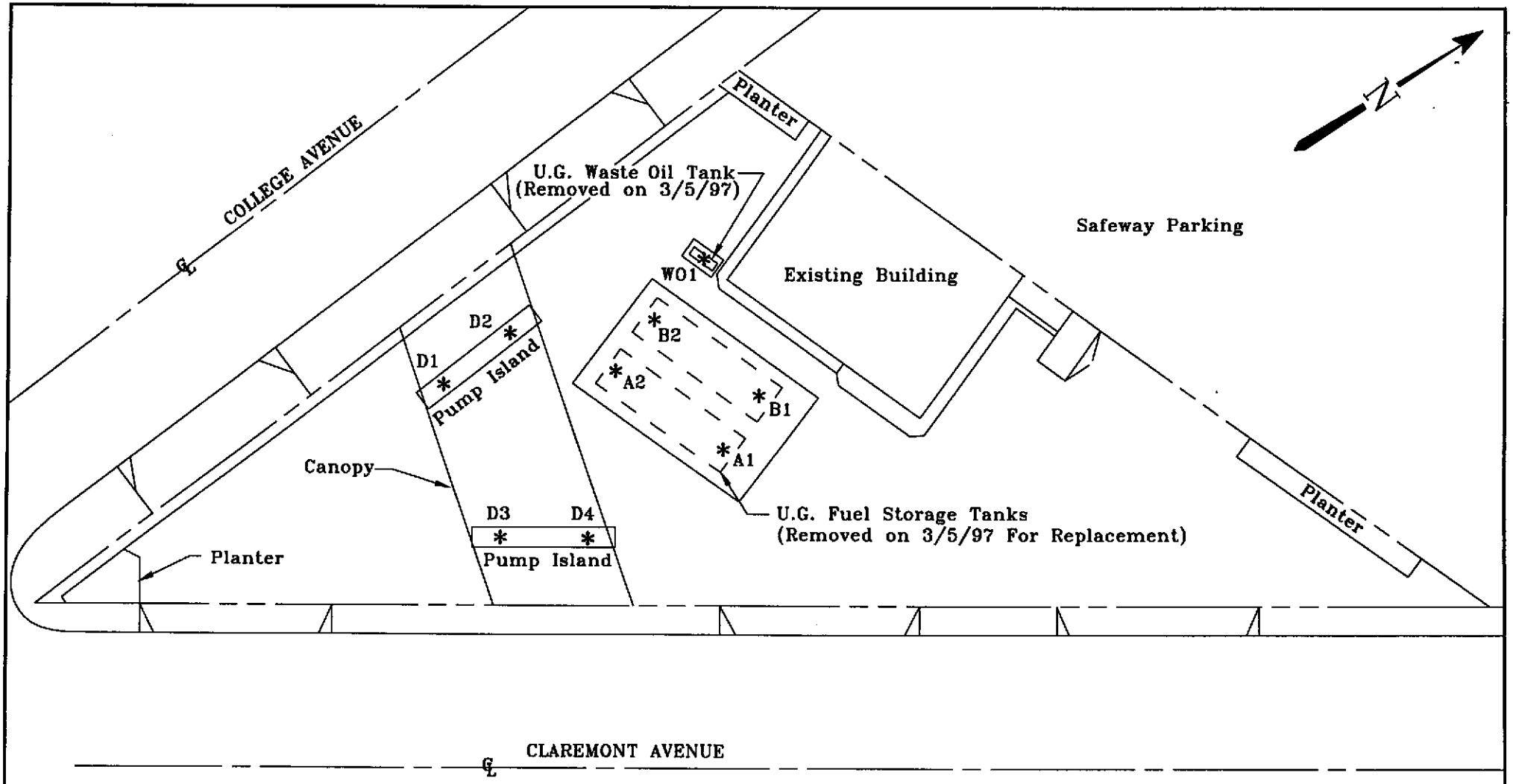


SOIL SAMPLE POINT LOCATION MAP

KAPREALIAN ENGINEERING
INCORPORATED

76 PRODUCTS S/S #0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

FIGURE
1



LEGEND

* Soil sample point location

0 30 60

APPROX. SCALE FEET

SOIL SAMPLE POINT LOCATION MAP

KAPREALIAN ENGINEERING
INCORPORATED

76 PRODUCTS S/S #0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

FIGURE
1

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave. Oakland	Sampled:	Mar 7, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 7, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Mar 14, 1997
Attention: Dennis Royce	First Sample #:	703-0502		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 703-0502 A-1	Sample I.D. 703-0503 A-2	Sample I.D. 703-0504 B-1	Sample I.D. 703-0505 B-2	Sample I.D. 703-0506 D-1	Sample I.D. 703-0507 D-2
Purgeable Hydrocarbons	1.0	N.D.	2.6	N.D.	N.D.	1.4	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	0.012	N.D.
Toluene	0.0050	N.D.	0.011	N.D.	N.D.	0.10	N.D.
Ethyl Benzene	0.0050	N.D.	0.017	N.D.	N.D.	0.030	N.D.
Total Xylenes	0.0050	N.D.	0.044	N.D.	0.0051	0.32	N.D.
Chromatogram Pattern:		--	Gasoline	--	--	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	106	98	101	102	105	103

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Alan B. Kemp
Project Manager

7030502.KEI <1>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave. Oakland	Sampled:	Mar 7, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 7, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Mar 14, 1997
Attention: Dennis Royce	First Sample #:	703-0508		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 703-0508 D-3	Sample I.D. 703-0509 D-4
Purgeable Hydrocarbons	1.0	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	3/12/97	3/12/97
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	103	102

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Alan B. Kemp
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave. Oakland	Sampled: Mar 7, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Water	Received: Mar 7, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 14, 1997
Attention: Dennis Royce	First Sample #:	703-0510	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 703-0510 Water 1
Purgeable Hydrocarbons	50	6,100
Benzene	0.50	54
Toluene	0.50	38
Ethyl Benzene	0.50	300
Total Xylenes	0.50	2,500
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	20
Date Analyzed:	3/11/97
Instrument Identification:	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	89

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Alan B. Kemp
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave. Oakland	Sampled:	Mar 7, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Received:	Mar 7, 1997
Concord, CA 94520	Analysis for:	MTBE (Modified EPA 8020)		
Attention: Dennis Royce	First Sample #:	703-0502	Analyzed:	Mar 12, 1997
			Reported:	Mar 14, 1997

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
703-0502	A-1	0.050	N.D.
703-0503	A-2	0.050	N.D.
703-0504	B-1	0.050	N.D.
703-0505	B-2	0.050	N.D.
703-0506	D-1	0.050	1.4
703-0507	D-2	0.050	N.D.
703-0508	D-3	0.050	N.D.
703-0509	D-4	0.050	N.D.

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer for
Alan B. Kemp
Project Manager

7030502.KEI <4>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave. Oakland	Sampled:	Mar 7, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Water	Received:	Mar 7, 1997
Concord, CA 94520	Analysis for:	MTBE (Modified EPA 8020)		
Attention: Dennis Royce	First Sample #:	703-0510	Analyzed:	Mar 11, 1997
			Reported:	Mar 14, 1997

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L
703-0510	Water 1	50	N.D.

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer for
Alan B. Kemp
Project Manager

7030502.KEI <5>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave. Oakland
Matrix: Solid
QC Sample Group: 7030502-509
Reported: Mar 20, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	D, Newcomb	D, Newcomb	D, Newcomb	D, Newcomb
MS/MSD Batch#:	7030502	7030502	7030502	7030502
Date Prepared:	3/12/97	3/12/97	3/12/97	3/12/97
Date Analyzed:	3/12/97	3/12/97	3/12/97	3/12/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Matrix Spike % Recovery:	78	83	80	82
Matrix Spike Duplicate % Recovery:	73	78	78	79
Relative % Difference:	6.7	6.3	3.2	3.1
LCS Batch#:	4LCS031297	4LCS031297	4LCS031297	4LCS031297
Date Prepared:	3/12/97	3/12/97	3/12/97	3/12/97
Date Analyzed:	3/12/97	3/12/97	3/12/97	3/12/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	100	110	105	108
% Recovery Control Limits:	60-140	60-140	60-140	60-140

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Alan B. Kemp
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave. Oakland
Matrix: Liquid
QC Sample Group: 7030502-509
Reported: Mar 20, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD Batch#:	7030449	7030449	7030449	7030449
Date Prepared:	3/11/97	3/11/97	3/11/97	3/11/97
Date Analyzed:	3/11/97	3/11/97	3/11/97	3/11/97
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	90	110	105	103
Matrix Spike Duplicate % Recovery:	90	110	100	102
Relative % Difference:	0.0	0.0	4.9	1.6
LCS Batch#:	2LCS031197	2LCS031197	2LCS031197	2LCS031197
Date Prepared:	3/11/97	3/11/97	3/11/97	3/11/97
Date Analyzed:	3/11/97	3/11/97	3/11/97	3/11/97
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	90	110	105	103
% Recovery Control Limits:	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
for Alan B. Kemp
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

UNOCAL 76

☐ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600
☐ 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
☐ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Consultant Company: KEI	Project Name: UNOCAL #0018 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: TINA BERRY
City: CONCORD State: CA Zip Code: 94520	AFE #:
Telephone: 602-5100 FAX #: 687-0602	Site #, City, State: 6201 CLAREMONT AVE.
Report To: KEI Sampler: HAIG KEVORK	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

☐ Drinking Water ☐ Waste Water ☒ Other

Analyses Requested: TPH-G, BTEX, MTBE

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BTEX	MTBE					Comments
1.	A1	3/7/97	SOIL	1	TUBE		✓	✓	✓	7030502				
2.	A2			1			✓	✓	✓	7030503				
3.	B1			1			✓	✓	✓	7030504				
4.	B2			1			✓	✓	✓	7030505				
5.	D1			1			✓	✓	✓	7030506				5 DAYS
6.	D2			1			✓	✓	✓	7030507				
7.	D3			1			✓	✓	✓	7030508				
8.	D4			1			✓	✓	✓	7030509				
9.	Water 1		Water	3	VOA's		✓	✓	✓	7030510	A-C			
10.														

Relinquished By: [signature]	Date: 3/7/97	Time: 1520	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By Lab: [signature]

Received By: Date: Time:
Received By: Date: Time:
Received By Lab: [signature] Date: 3/7/97 Time: 1520

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: Client

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave., Oakland	Sampled: Mar 5, 1997
2401 Stanwell Dr., Ste. 400	Matrix Descript:	Solid	Received: Mar 5, 1997
Concord, CA 94520	Analysis Method:	SM 5520 B&F (Gravimetric)	Extracted: Mar 10, 1997
Attention: Dennis Royce	First Sample #:	703-0309	Analyzed: Mar 10, 1997
			Reported: Mar 12, 1997

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
703-0309	WO1	N.D.	1.0

Detection Limits:	50

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave., Oakland	Sampled: Mar 5, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Solid	Received: Mar 5, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 13, 1997
Attention: Dennis Royce	First Sample #:	703-0309	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 703-0309 WO1
Purgeable Hydrocarbons	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Total Xylenes	0.0050	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	3/10/97
Instrument Identification:	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	120

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave., Oakland	Sampled:	Mar 5, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Solid	Received:	Mar 5, 1997
Concord, CA 94520	Analysis Method:	EPA 3550/8015 Mod.	Reported:	Mar 13, 1997
Attention: Dennis Royce	First Sample #:	703-0309		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 703-0309 WO1
Extractable Hydrocarbons	1.0	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	3/7/97
Date Analyzed:	3/7/97
Instrument Identification:	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave., Oakland	Sampled:	Mar 5, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, WO1	Received:	Mar 5, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8010	Analyzed:	Mar 10, 1997
Attention: Dennis Royce	Lab Number:	703-0309	Reported:	Mar 13, 1997

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	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-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	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave., Oakland	Sampled:	Feb 4, 1900
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, WO1	Received:	Mar 5, 1997
Concord, CA 94520	Analysis Method:	EPA 8270	Extracted:	Mar 7, 1997
Attention: Dennis Royce	Lab Number:	703-0309	Analyzed:	Mar 12, 1997

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene	100	N.D.
Acenaphthylene	100	N.D.
Aniline	100	N.D.
Anthracene	100	N.D.
Benzidine	2,500	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	100	N.D.
Benzo(b)fluoranthene	100	N.D.
Benzo(k)fluoranthene	100	N.D.
Benzo(g,h,i)perylene	100	N.D.
Benzo(a)pyrene	100	N.D.
Benzyl alcohol	100	N.D.
Bis(2-chloroethoxy)methane	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	100	N.D.
Butyl benzyl phthalate	100	N.D.
4-Chloroaniline	100	N.D.
2-Chloronaphthalene	100	N.D.
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.
Chrysene	100	N.D.
Dibenz(a,h)anthracene	100	N.D.
Dibenzofuran	100	N.D.
Di-N-butyl phthalate	500	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,2-Dichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	100	N.D.
Diethyl phthalate	100	N.D.
2,4-Dimethylphenol	100	N.D.
Dimethyl phthalate	100	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	100	N.D.
2,6-Dinitrotoluene	100	N.D.
Di-N-octyl phthalate	100	N.D.

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave., Oakland	Sampled:	Feb 4, 1900
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, WO1	Received:	Mar 5, 1997
Concord, CA 94520	Analysis Method:	EPA 8270	Extracted:	Mar 7, 1997
Attention: Dennis Royce	Lab Number:	703-0309	Analyzed:	Mar 12, 1997
			Reported:	Mar 13, 1997

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene	100	N.D.
Fluorene	100	N.D.
Hexachlorobenzene	100	N.D.
Hexachlorobutadiene	100	N.D.
Hexachlorocyclopentadiene	100	N.D.
Hexachloroethane	100	N.D.
Indeno(1,2,3-cd)pyrene	100	N.D.
Isophorone	100	N.D.
2-Methylnaphthalene	100	N.D.
2-Methylphenol	100	N.D.
4-Methylphenol	100	N.D.
Naphthalene	100	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	100	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodimethylamine	100	N.D.
N-Nitrosodiphenylamine	100	N.D.
N-Nitroso-di-N-propylamine	100	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	100	N.D.
Phenol	100	N.D.
Pyrene	100	N.D.
1,2,4-Trichlorobenzene	100	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	100	N.D.

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave., Oakland	Sampled:	Mar 5, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, WO1	Received:	Mar 5, 1997
Concord, CA 94520			Digested:	Mar 6, 1997
Attention: Dennis Royce	Lab Number:	703-0309	Analyzed:	Mar 10, 1997
			Reported:	Mar 13, 1997

LUFT METALS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.50	N.D.
Chromium	0.50	33
Lead	1.0	3.7
Nickel	1.0	38
Zinc	1.0	45

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave., Oakland
Matrix: Solid
QC Sample Group: 703-0309

Reported: Mar 14, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Oil & Grease	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	SM 5520	EPA 8015
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	I. Dalvand	D. Sharma
MS/MSD Batch#:	7030309	7030309	7030309	7030309	BLK031097	7030207
Date Prepared:	3/10/97	3/10/97	3/10/97	3/10/97	3/10/97	3/7/97
Date Analyzed:	3/10/97	3/10/97	3/10/97	3/10/97	3/10/97	3/7/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	Manual	HP-3B
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	5000 mg/kg	10 mg/kg
Matrix Spike % Recovery:	50	48	50	48	81	80
Matrix Spike Duplicate % Recovery:	50	48	53	48	82	76
Relative % Difference:	0.0	0.0	4.9	0.0	1.2	5.1
LCS Batch#:	5LCS031097	5LCS031097	5LCS031097	5LCS031097	LCS031097	LCS030797
Date Prepared:	3/10/97	3/10/97	3/10/97	3/10/97	3/10/97	3/7/97
Date Analyzed:	3/10/97	3/10/97	3/10/97	3/10/97	3/10/97	3/7/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	Manual	HP-3B
LCS % Recovery:	105	95	105	100	80	82
% Recovery Control Limits:	60-140	60-140	60-140	60-140	60-140	60-140

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave., Oakland
Matrix: Solid
QC Sample Group: 703-0309
Reported: Mar 13, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	P. Horton	P. Horton	P. Horton
MS/MSD Batch#:	7030309	7030309	7030309
Date Prepared:	3/10/97	3/10/97	3/10/97
Date Analyzed:	3/10/97	3/10/97	3/10/97
Instrument I.D.#:	HP-7	HP-7	HP-7
Conc. Spiked:	100 µg/kg	100 µg/kg	100 µg/kg
Matrix Spike % Recovery:	70	42	72
Matrix Spike Duplicate % Recovery:	88	81	82
Relative % Difference:	23	63	13
LCS Batch#:	LCS031097	LCS031097	LCS031097
Date Prepared:	3/10/97	3/10/97	3/10/97
Date Analyzed:	3/10/97	3/10/97	3/10/97
Instrument I.D.#:	HP-7	HP-7	HP-7
LCS % Recovery:	113	101	96
% Recovery Control Limits:	60-140	60-140	60-140

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave., Oakland
Matrix: Solid
QC Sample Group: 703-0309

Reported: Mar 13, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	I. Dalvand	I. Dalvand	I. Dalvand	I. Dalvand	I. Dalvand	I. Dalvand
MS/MSD Batch#:	7030207	7030207	7030207	7030207	7030207	7030207
Date Prepared:	3/7/97	3/7/97	3/7/97	3/7/97	3/7/97	3/7/97
Date Analyzed:	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	2500 µg/kg	2500 µg/kg	2500 µg/kg	5000 µg/kg
Matrix Spike % Recovery:	70	64	58	68	60	69
Matrix Spike Duplicate % Recovery:	100	94	80	98	90	103
Relative % Difference:	35	38	32	36	40	40
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40
LCS Batch#:	LCS030797	LCS030797	LCS030797	LCS030797	LCS030797	LCS030797
Date Prepared:	3/7/97	3/7/97	3/7/97	3/7/97	3/7/97	3/7/97
Date Analyzed:	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	92	92	86	84	84	87
% Recovery Control Limits:	26-90	25-102	28-104	41-126	38-107	26-103

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave., Oakland
Matrix: Solid
QC Sample Group: 703-0309

Reported: Mar 13, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	I. Dalvand	I. Dalvand	I. Dalvand	I. Dalvand	I. Dalvand
MS/MSD Batch#:	7030207	7030207	7030207	7030207	7030207
Date Prepared:	3/7/97	3/7/97	3/7/97	3/7/97	3/7/97
Date Analyzed:	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	2500 µg/kg	5000 µg/kg	2500 µg/kg	5000 µg/kg	2500 µg/kg
Matrix Spike % Recovery:	62	57	68	55	80
Matrix Spike Duplicate % Recovery:	90	73	92	73	114
Relative % Difference:	37	25	30	28	35
RPD Limit:	0-29	0-40	0-31	0-43	0-24
LCS Batch#:	LCS030797	LCS030797	LCS030797	LCS030797	LCS030797
Date Prepared:	3/7/97	3/7/97	3/7/97	3/7/97	3/7/97
Date Analyzed:	3/12/97	3/12/97	3/12/97	3/12/97	3/12/97
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	82	77	80	77	92
% Recovery Control Limits:	31-137	11-114	28-89	17-109	35-142

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Sequoia Analytical

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Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave., Oakland
Matrix: Solid
QC Sample Group: 703-0309

Reported: Mar 13, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Nickel	Lead	Zinc
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly
MS/MSD Batch#:	7030249	7030249	7030249	7030249	7030249
Date Prepared:	3/6/97	3/6/97	3/6/97	3/6/97	3/6/97
Date Analyzed:	3/10/97	3/10/97	3/10/97	3/10/97	3/10/97
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg
Matrix Spike % Recovery:	92	40	0	106	120
Matrix Spike Duplicate % Recovery:	90	80	60	106	140
Relative % Difference:	2.2	15	16	0.0	4.4
LCS Batch#:	LCS030697	LCS030697	LCS030697	LCS030697	LCS030697
Date Prepared:	3/6/97	3/6/97	3/6/97	3/6/97	3/6/97
Date Analyzed:	3/10/97	3/10/97	3/10/97	3/10/97	3/10/97
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4
LCS % Recovery:	102	102	102	100	102
% Recovery Control Limits:	80-120	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

UNOCAL 76

❑ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
❑ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600
❑ 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 487-9200
❑ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
❑ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Consultant Company: KEI	Project Name: UNOCAL #0018 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: TINA BERRY
City: CONCORD State: CA Zip Code: 94520	AFE #:
Telephone: 602-5100 FAX #: 687-0602	Site #, City, State: 6201 CLAREMONT AVE.
Report To: KEI Sampler: HAIG KEVORK	QC Data: ❑ Level D (Standard) ❑ Level C ❑ Level B ❑ Level A

Turnaround Time: ☒ 10 Work Days ❑ 5 Work Days ❑ 3 Work Days ❑ 2 Work Days ❑ 1 Work Day ❑ 2-8 Hours

CODE: ❑ Misc. ❑ Detect. ❑ Eval. ❑ Remed. ❑ Demol. ❑ Closure

❑ Drinking Water ❑ Waste Water ❑ Other

Analyses Requested: TPH-G, BTEX, TPH-D, TOG, EPA 8010, EPA 8240, Cd, Cr, Pb, Zn, Ni

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1.	W01	3/5/97	SOIL	1	TUBE	7030309	TOG 5 days
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

Relinquished By: [signature]	Date: 3/5/97	Time: 1425	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By Lab: [signature]

Received By: Date: Time:
Received By: Date: Time:
Received By Lab: Date: 3/5/97 Time: 1425

Were Samples Received in Good Condition? ☒ Yes ❑ No Samples on Ice? ☒ Yes ❑ No Method of Shipment: Client Page 1 of 1

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? ❑ Yes ❑ No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? ❑ Yes ❑ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Laboratory
White - Laboratory

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.,Oakland	Sampled:	Mar 17, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 18, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Mar 27, 1997
Attention: Dennis Royce	First Sample #:	703-1231		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 703-1231 Comp WOA
Purgeable Hydrocarbons	1.0	28

Chromatogram Pattern: Unidentified Hydrocarbons >C8

Quality Control Data

Report Limit Multiplication Factor:	10
Date Analyzed:	3/20/97
Instrument Identification:	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	108

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.,Oakland	Sampled: Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: Mar 18, 1997
Concord, CA 94520	Analysis Method:	EPA 3550/8015 Mod.	Reported: Mar 27, 1997
Attention: Dennis Royce	First Sample #:	703-1231	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 703-1231 Comp WOA
Extractable Hydrocarbons	1.0	1,400
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons >C20

Quality Control Data

Report Limit Multiplication Factor:	20
Date Extracted:	3/19/97
Date Analyzed:	3/19/97
Instrument Identification:	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave., Oakland	Sampled: Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Matrix Descript:	Soil	Received: Mar 18, 1997
Concord, CA 94520	Analysis Method:	SM 5520 E&F (Gravimetric)	Extracted: Mar 21, 1997
Attention: Dennis Royce	First Sample #:	703-1231	Analyzed: Mar 21, 1997
			Reported: Mar 27, 1997

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
703-1231	Comp WOA	1,600	1.0

Detection Limits:	50

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.,Oakland	Sampled:	Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, Comp WOA	Received:	Mar 18, 1997
Concord, CA 94520	Analysis Method:	EPA 8240	Extracted:	Mar 20, 1997
Attention: Dennis Royce	Lab Number:	703-1231	Analyzed:	Mar 21, 1997
			Reported:	Mar 27, 1997

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.

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

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.,Oakland	Sampled:	Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, Comp WOA	Received:	Mar 18, 1997
Concord, CA 94520	Analysis Method:	EPA 8240	Extracted:	Mar 20, 1997
Attention: Dennis Royce	Lab Number:	703-1231	Analyzed:	Mar 21, 1997
			Reported:	Mar 27, 1997

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

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

SEQUOIA ANALYTICAL, #1210

Alan B. Kemp
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.,Oakland	Sampled:	Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, Comp WOA	Received:	Mar 18, 1997
Concord, CA 94520	Analysis Method:	EPA 8270	Extracted:	Mar 21, 1997
Attention: Dennis Royce	Lab Number:	703-1231	Analyzed:	Mar 21, 1997
			Reported:	Mar 27, 1997

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene	10,000	N.D.
Acenaphthylene	10,000	N.D.
Aniline	10,000	N.D.
Anthracene	10,000	N.D.
Benzidine	250,000	N.D.
Benzoic Acid	50,000	N.D.
Benzo(a)anthracene	10,000	N.D.
Benzo(b)fluoranthene	10,000	N.D.
Benzo(k)fluoranthene	10,000	N.D.
Benzo(g,h,i)perylene	10,000	N.D.
Benzo(a)pyrene	10,000	N.D.
Benzyl alcohol	10,000	N.D.
Bis(2-chloroethoxy)methane	10,000	N.D.
Bis(2-chloroethyl)ether	10,000	N.D.
Bis(2-chloroisopropyl)ether	10,000	N.D.
Bis(2-ethylhexyl)phthalate	50,000	N.D.
4-Bromophenyl phenyl ether	10,000	N.D.
Butyl benzyl phthalate	10,000	N.D.
4-Chloroaniline	10,000	N.D.
2-Chloronaphthalene	10,000	N.D.
4-Chloro-3-methylphenol	10,000	N.D.
2-Chlorophenol	10,000	N.D.
4-Chlorophenyl phenyl ether	10,000	N.D.
Chrysene	10,000	N.D.
Dibenz(a,h)anthracene	10,000	N.D.
Dibenzofuran	10,000	N.D.
Di-N-butyl phthalate	50,000	N.D.
1,3-Dichlorobenzene	10,000	N.D.
1,4-Dichlorobenzene	10,000	N.D.
1,2-Dichlorobenzene	10,000	N.D.
3,3-Dichlorobenzidine	50,000	N.D.
2,4-Dichlorophenol	10,000	N.D.
Diethyl phthalate	10,000	N.D.
2,4-Dimethylphenol	10,000	N.D.
Dimethyl phthalate	10,000	N.D.
4,6-Dinitro-2-methylphenol	50,000	N.D.
2,4-Dinitrophenol	50,000	N.D.
2,4-Dinitrotoluene	10,000	N.D.
2,6-Dinitrotoluene	10,000	N.D.
Di-N-octyl phthalate	10,000	N.D.

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.,Oakland	Sampled:	Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, Comp WOA	Received:	Mar 18, 1997
Concord, CA 94520	Analysis Method:	EPA 8270	Extracted:	Mar 21, 1997
Attention: Dennis Royce	Lab Number:	703-1231	Analyzed:	Mar 21, 1997
			Reported:	Mar 27, 1997

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene	10,000	N.D.
Fluorene	10,000	N.D.
Hexachlorobenzene	10,000	N.D.
Hexachlorobutadiene	10,000	N.D.
Hexachlorocyclopentadiene	10,000	N.D.
Hexachloroethane	10,000	N.D.
Indeno(1,2,3-cd)pyrene	10,000	N.D.
Isophorone	10,000	N.D.
2-Methylnaphthalene	10,000	N.D.
2-Methylphenol	10,000	N.D.
4-Methylphenol	10,000	N.D.
Naphthalene	10,000	N.D.
2-Nitroaniline	50,000	N.D.
3-Nitroaniline	50,000	N.D.
4-Nitroaniline	50,000	N.D.
Nitrobenzene	10,000	N.D.
2-Nitrophenol	10,000	N.D.
4-Nitrophenol	50,000	N.D.
N-Nitrosodimethylamine	10,000	N.D.
N-Nitrosodiphenylamine	10,000	N.D.
N-Nitroso-di-N-propylamine	10,000	N.D.
Pentachlorophenol	50,000	N.D.
Phenanthrene	10,000	N.D.
Phenol	10,000	N.D.
Pyrene	10,000	N.D.
1,2,4-Trichlorobenzene	10,000	N.D.
2,4,5-Trichlorophenol	50,000	N.D.
2,4,6-Trichlorophenol	10,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.,Oakland	Sampled: Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, Comp WOA	Received: Mar 18, 1997
Concord, CA 94520			Digested: Mar 20, 1997
Attention: Dennis Royce	Lab Number:	703-1231	Analyzed: Mar 21, 1997
			Reported: Mar 27, 1997

LUFT METALS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.50	N.D.
Chromium	0.50	36
Lead	1.0	47
Nickel	1.0	31
Zinc	1.0	55

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave.,Oakland
Matrix: Liquid
QC Sample Group: 703-1231
Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520BF
Analyst:		0	0	0	D. Sharma	SM 5520
MS/MSD Batch#:		0	0	0	7030987	BLK032197
Date Prepared:		1/0/00	1/0/00	1/0/00	3/19/97	3/21/97
Date Analyzed:	1/0/00	1/0/00	1/0/00	1/0/00	3/21/97	3/21/97
Instrument I.D.#:		0	0	0	HP-3B	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	10 mg/kg	5000 mg/kg
Matrix Spike % Recovery:					-	96
Matrix Spike Duplicate % Recovery:					-	94
Relative % Difference:					-	2.1
LCS Batch#:		0	0	0	LCS031997	LCS032197
Date Prepared:	1/0/00	1/0/00	1/0/00	1/0/00	3/19/97	3/21/97
Date Analyzed:	1/0/00	1/0/00	1/0/00	1/0/00	3/21/97	3/21/97
Instrument I.D.#:	0	0	0	0	HP-3B	Manual
LCS % Recovery:					82	96
% Recovery Control Limits:	60-140	60-140	60-140	60-140	60-140	60-140

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

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Kapreallian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave.,Oakland
Matrix: Solid
QC Sample Group: 703-1231

Reported: Mar 28, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520BF
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Sharma	SM 5520
MS/MSD Batch#:	7031223	7031223	7031223	7031223	7030987	BLK032197
Date Prepared:	3/20/97	3/20/97	3/20/97	3/20/97	3/19/97	3/21/97
Date Analyzed:	3/20/97	3/20/97	3/20/97	3/20/97	3/21/97	3/21/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3B	Manual
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg	5000 mg/kg
Matrix Spike % Recovery:	80	83	93	92	-	96
Matrix Spike Duplicate % Recovery:	80	80	90	83	-	94
Relative % Difference:	0.0	3.1	2.7	9.5	-	2.1
LCS Batch#:	5LCS032097	5LCS032097	5LCS032097	5LCS032097	LCS031997	LCS032197
Date Prepared:	3/20/97	3/20/97	3/20/97	3/20/97	3/19/97	3/21/97
Date Analyzed:	3/20/97	3/20/97	3/20/97	3/20/97	3/21/97	3/21/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3B	Manual
LCS % Recovery:	90	85	90	85	82	96
% Recovery Control Limits:	60-140	60-140	60-140	60-140	60-140	60-140

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave.,Oakland
Matrix: Solid
QC Sample Group: 703-1231

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Analyst:	L. Duong	L. Duong	L. Duong	L. Duong	L. Duong
MS/MSD Batch#:	970380301	970380301	970380301	970380301	970380301
Date Prepared:	3/18/97	3/18/97	3/18/97	3/18/97	3/18/97
Date Analyzed:	3/19/97	3/19/97	3/19/97	3/19/97	3/19/97
Instrument I.D.#:	F-2	F-2	F-2	F-2	F-2
Conc. Spiked:	2500 µg/kg	2500 µg/kg	2500 µg/kg	2500 µg/kg	2500 µg/kg
Matrix Spike % Recovery:	84	96	104	96	104
Matrix Spike Duplicate % Recovery:	84	92	104	96	100
Relative % Difference:	0.0	4.3	0.0	0.0	3.9
LCS Batch#:	VB0321MS	VB0321MS	VB0321MS	VB0321MS	VB0321MS
Date Prepared:	3/20/97	3/20/97	3/18/97	3/18/97	3/18/97
Date Analyzed:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Instrument I.D.#:	F-2	F-2	F-2	F-2	F-2
LCS % Recovery:	88	100	112	108	108
% Recovery Control Limits:	65-135	60-140	60-140	60-140	60-140

SEQUOIA ANALYTICAL, #1210

Alan B. Kemp
Project Manager

Please Note:
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Sequoia Analytical

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave.,Oakland
Matrix: Solid
QC Sample Group: 703-1231
Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:		0	0	0	0	0
MS/MSD Batch#:	BLK032197	BLK032197	BLK032197	BLK032197	BLK032197	BLK032197
Date Prepared:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Date Analyzed:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	2500 µg/kg	2500 µg/kg	2500 µg/kg	5000 µg/kg
Matrix Spike % Recovery:	85	88	80	66	74	76
Matrix Spike Duplicate % Recovery:	88	92	82	70	76	80
Relative % Difference:	3.5	4.4	2.5	5.9	2.7	5.1
RPD Limit:	0-20	0-23	0-26	0-32	0-25	0-24
LCS Batch#:	LCS032197	LCS032197	LCS032197	LCS032197	LCS032197	LCS032197
Date Prepared:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Date Analyzed:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	93	91	86	76	80	85
% Recovery Control Limits:	26-90	25-102	28-104	41-126	38-107	26-103

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave.,Oakland
Matrix: Solid
QC Sample Group: 703-1231
Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	0	0	0	0	0
MS/MSD Batch#:	BLK032197	BLK032197	BLK032197	BLK032197	BLK032197
Date Prepared:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Date Analyzed:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	2500 µg/kg	5000 µg/kg	2500 µg/kg	5000 µg/kg	2500 µg/kg
Matrix Spike % Recovery:	78	51	74	62	100
Matrix Spike Duplicate % Recovery:	82	49	76	59	112
Relative % Difference:	5.0	4.0	2.7	5.0	11
RPD Limit:	0-29	0-40	0-31	0-43	0-24
LCS Batch#:	LCS032197	LCS032197	LCS032197	LCS032197	LCS032197
Date Prepared:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Date Analyzed:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	84	57	80	69	106
% Recovery Control Limits:	31-137	11-114	28-89	17-109	35-142

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave.,Oakland
Matrix: Solid
QC Sample Group: 703-1231
Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Lead	Nickel	Zinc
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly
MS/MSD Batch#:	7031197	7031197	7031197	7031197	7031197
Date Prepared:	3/20/97	3/20/97	3/20/97	3/20/97	3/20/97
Date Analyzed:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg
Matrix Spike % Recovery:	100	96	98	96	94
Matrix Spike Duplicate % Recovery:	104	100	98	100	96
Relative % Difference:	3.9	2.6	0.0	3.0	1.3
LCS Batch#:	LCS032097	LCS032097	LCS032097	LCS032097	LCS032097
Date Prepared:	3/20/97	3/20/97	3/20/97	3/20/97	3/20/97
Date Analyzed:	3/21/97	3/21/97	3/21/97	3/21/97	3/21/97
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4
LCS % Recovery:	106	108	104	106	106
% Recovery Control Limits:	80-120	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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UNOCAL 76

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☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
☐ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Consultant Company: Kaprealian Engineering, Inc.	Project Name: 76 PRODUCTS #0018-OAKLAND
Address: 2401 Stanwell Drive, Suite 400	UNOCAL Project Manager: TINA BERRY
City: Concord State: California Zip Code: 94520	AFE #:
Telephone: 510 602-5100 FAX #: 687-0602	Site #, City, State: 6201 CLAREMONT AVE.
Report To: Dennis Royce Sampler: HAIG KEVORK	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

☐ Drinking Water ☐ Waste Water ☒ Other

Analyses Requested

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	TPH-D	TOG	EPA 8240	EPA 8270	Cd, Cr, Pb	Ni, Zn			Comments
1.	CompWOA	3/13/97	SOIL	4	TUBE		✓	✓	✓	✓	✓	✓	✓			7031231 A1
2.																
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

Relinquished By: [signature]	Date: 3/14/97	Time: 1140	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: [signature]	Date: 3/14/97	Time: 1140

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment Client Page 1 of 1

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.Oakland	Sampled: Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: Mar 14, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 21, 1997
Attention: Dennis Royce	First Sample #:	703-0879	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 703-0879 Comp A	Sample I.D. 703-0880 Comp B	Sample I.D. 703-0881 Comp C
Purgeable Hydrocarbons	1.0	22	5.0	2.0
Benzene	0.0050	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	0.0060	N.D.
Ethyl Benzene	0.0050	0.012	0.0060	N.D.
Total Xylenes	0.0050	N.D.	0.022	0.0090
Chromatogram Pattern:		Unidentified Hydrocarbons >C8	Unidentified Hydrocarbons >C8	Unidentified Hydrocarbons >C8

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	3/18/97	3/18/97	3/18/97
Instrument Identification:	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	106	112	115

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #0018, 6201 Claremont Ave.Oakland	Sampled:	Mar 13, 1997
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Received:	Mar 14, 1997
Concord, CA 94520	Analysis for:	Lead	Extracted:	Mar 18, 1997
Attention: Dennis Royce	First Sample #:	703-0879	Analyzed:	Mar 19, 1997
			Reported:	Mar 21, 1997

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
703-0879	Comp A	1.0	6.5
703-0880	Comp B	1.0	17
703-0881	Comp C	1.0	15

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Sequoia Analytical

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #0018, 6201 Claremont Ave.Oakland
Matrix: Solid
QC Sample Group: 7030879-881

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	J. Kelly
MS/MSD Batch#:	7030997	7030997	7030997	7030997	7031019
Date Prepared:	3/18/97	3/18/97	3/18/97	3/18/97	3/18/97
Date Analyzed:	3/18/97	3/18/97	3/18/97	3/18/97	3/19/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	MV-3
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	50 mg/kg
Matrix Spike % Recovery:	136	145	165	158	94
Matrix Spike Duplicate % Recovery:	144	153	173	166	116
Relative % Difference:	5.4	5.0	4.4	5.1	12
LCS Batch#:	5LCS031897	5LCS031897	5LCS031897	5LCS031897	LCS031897
Date Prepared:	3/18/97	3/18/97	3/18/97	3/18/97	3/18/97
Date Analyzed:	3/18/97	3/18/97	3/18/97	3/18/97	3/19/97
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	MV-3
LCS % Recovery:	85	90	100	95	112
% Recovery Control Limits:	60-140	60-140	60-140	60-140	80-120

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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UNOCAL 76

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☐ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Consultant Company: Kaprealian Engineering, Inc.	Project Name: 76 PRODUCTS # 0018-OAKLAND
Address: 2401 Stanwell Drive, Suite 400	UNOCAL Project Manager: TINA BERRY
City: Concord State: California Zip Code: 94520	AFE #:
Telephone: 510 602-5100 FAX #: 687-0602	Site #, City, State: 6201 CLAREMONT AVE.
Report To: Dennis Royce Sampler: HAIG KEVORK	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ 10 Work Days ☒ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

☐ Drinking Water ☐ Waste Water ☒ Other

Analyses Requested

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BTEX	Total Pb	Comments
1.	Comp A	3/13/97	SOIL	4	TUBE	7030879	✓	✓	✓	
2.	Comp B	↓	↓	4	↓	7030880	✓	✓	✓	
3.	Comp C	↓	↓	4	↓	7030881	✓	✓	✓	
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By: [signature]	Date: 3/14/97	Time: 1140	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By Lab: [signature] Date: 3/14/97 Time: 1140

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment Client Page 1 of 1

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1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Laboratory
White - Laboratory