#2422

TOSCO ***MARKETING COMPANY***

ENVIRONMENTAL PROTECTION
97 MAY -7 PM 2:50

Tina Berry
Project Manager
North Coast Region

May 6, 1997

Mr. Kevin Tinsley
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: UNOCAL Service Station #6277
15803 East 14th Street
San Leandro, California

Dear Mr. Tinsley:

Enclosed please find a copy of our report dated April 11, 1997 as prepared by Kaprealian Engineering, Inc. documenting the recent groundwater investigation conducted near the subject station. Based on the results of this investigation and monitoring and sampling data generated since 1989 we believe the site status should be classified as "low-risk" as described in your agency's letter of February 20, 1996. Accordingly, we request that you consider case closure for this site.

Please note that future correspondence concerning this site should be directed to my attention. If you have any questions regarding this letter or if you wish to discuss this case further, please do not hesitate to contact me. Thank you for your assistance in this matter. I look forward to hearing from you.

Sincerely,

J. Berry

Tina Berry

cc: File (6277:3)

2000 CROW CANYON PLACE, SUITE 400
SAN RAMON, CA 94583
TEL (510)277-2321 FAX (510) 277-2361

KAPREALIAN ENGINEERING
INCORPORATED

KEI-P89-0301.R12
April 11, 1997

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

Attention: Ms. Tina Berry

RE: Continuing Subsurface Investigation at
Unocal Service Station #6277
15803 E. 14th Street
San Leandro, California

Dear Ms. Berry:

This report presents the results of Kaprealian Engineering, Inc's. (KEI) most recent subsurface investigation at the referenced site, in accordance with KEI's proposal (KEI-P89-0301.P6) dated June 7, 1996. The purpose of the investigation was to determine the degree and extent of hydrocarbon-impacted soil and ground water in the downgradient vicinity of the site. The scope of the work performed by KEI consisted of the following:

Coordination with regulatory agencies

Geologic logging of three exploratory borings

Soil sampling

Ground water sampling

Delivery of soil and ground water samples (including Chain of Custody documentation) to a California-certified analytical laboratory for laboratory analyses

Data analyses and report preparation

SITE DESCRIPTION AND BACKGROUND

The subject site contains a Unocal service station facility. Two underground gasoline storage tanks, one waste oil tank, and the product piping were removed from the site in March of 1989 during tank replacement activities. The fuel tank pit and the waste oil tank pit were subsequently overexcavated in order to remove contaminated soil. Six monitoring wells have been installed at and in the vicinity of the site. In addition, two exploratory borings were drilled at the site in March of 1989. On February 1, 1990, well MW2 was destroyed in preparation for additional soil excavation in the vicinity of this well. Soil excavation in the vicinity

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

of well MW2 was completed in April of 1990. Monitoring well MW2 was then replaced with a new well (MW2A) in March of 1991. The product piping was again replaced in September of 1996 during a dispenser upgrade project. No free product has been detected in any well to date. A water well survey has also been performed within a one-half mile radius of the site. The most recent and historical ground water analytical results are presented in MPDS Services, Inc's. Quarterly Data Report (MPDS-UN6277-12) dated February 6, 1997.

FIELD ACTIVITIES

On March 18, 1997, three exploratory borings (designated as EB3 through EB5 on the attached Figure 1) were completed at the site using Geoprobe direct push sampling equipment. Subsurface materials penetrated and the depths at which soil samples were collected are shown in the attached Boring Logs.

The three borings were each drilled to total depths ranging from 11 to 15 feet below grade. Ground water was encountered at depths ranging from 10.5 to 15 feet below grade during drilling. Soil samples were collected for laboratory analysis and for lithologic logging purposes at a maximum spacing of 5 foot intervals, at significant changes in lithology, at obvious areas of contamination, and at or within the soil/ground water interface, beginning at a depth of approximately 4.5 feet below grade and continuing until ground water was encountered. The undisturbed soil samples were collected by the use of a Geoprobe large bore sampler, lined with plastic sleeves, hydraulically advanced to the desired depth. The one-inch diameter plastic liners holding the samples were sealed with Teflon-lined plastic caps, labeled, and placed in individually sealed plastic bags, which were then stored in a cooler, on ice, until delivery to a state-certified laboratory.

Drilling was stopped after intersecting the first water table. Water samples were collected from each of the borings by the use of a clean stainless steel bailer. Temporary PVC casings were installed in the borings to assist in the collection of water samples. The water samples were decanted into clean VOA vials and 500 milliliter dissolved oxygen flasks, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory.

After the water samples were collected and temporary casings were removed, bentonite was used to seal the borings within the saturated zone. Neat cement was then placed from the bentonite plug to the surface in one continuous pour. A hardening agent was used for the upper 1 to 2 feet of the borings to reduce curing time.

ANALYTICAL RESULTS

All samples were analyzed at Sequoia Analytical Laboratory in Walnut Creek, California, and were accompanied by properly executed Chain of Custody documentation. Water and selected soil samples from EB3, EB4, and EB5 were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert butyl ether (MTBE) by EPA method 8020. In addition, water samples from the borings were also analyzed for dissolved oxygen.

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

HYDROLOGY AND GEOLOGY

During completion of the borings, ground water was encountered in exploratory borings EB3 through EB5 at depths ranging from 10.5 to 15 feet below the existing grade.

Based on review of regional geologic maps (U.S. Geologic Survey Professional Paper 943 "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning" by E.J. Helley and K.R. Lajoie, 1979), the subject site is underlain by Late Pleistocene alluvium (Qpa). The Late Pleistocene alluvium is described as typically consisting of weakly consolidated, poorly sorted, irregular interbedded clay, silt, sand,and gravel, with a reported unknown maximum thickness greater than 150 feet. This alluvium is assumed to overlay bedrock and deformed older sedimentary deposits on the alluvial plan marginal to San Francisco Bay. In addition, the site is situated approximately 1,700 to 3,600 feet southwest of various mapped splays of the active Hayward Fault.

Based on the results on our subsurface studies, the site is underlain by fill materials to a depth of about 1 to 5 feet below grade. The fill is in turn underlain by alluvium to the maximum depth explored (25.5 feet below grade). The alluvium underlying the site consists predominantly of clay and silty clay, with lesser amounts of clayey silt.

DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Care Services Agency.

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 ground water levels and flow paths, thereby changing 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 at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Doug Lee
Senior Geologist

Hagop Kevork, P.E.
Senior Staff Engineer

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

Robert H. Kezerian
Project Manager

dl:jad

Attachments: Tables 1, 2 & 3
Location Map
Figure 1
Boring Logs
Laboratory Analyses
Chain of Custody documentation

KEI-P89-0301.R12
April 11, 1997

TABLE 1

SUMMARY OF LABORATORY ANALYSES
SOIL

Date	Sample Number	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
3/18/97	EB3(5)	ND	ND	ND	ND	ND	ND
	EB3(10)	ND	ND	ND	ND	ND	ND
	EB3(14.5)	ND	ND	ND	ND	ND	ND
	EB4(4.5)	ND	ND	ND	ND	ND	ND
	EB4(10)	ND	ND	ND	ND	ND	ND
	EB4(13)	ND	ND	ND	ND	ND	ND
	EB5(5)	ND	ND	ND	ND	ND	ND
	EB5(10)	ND	ND	ND	ND	ND	ND

NOTE: The soil samples were collected at the depths below grade indicated in the ( ) of the respective sample number.

ND = Non-detectable.

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

KEI-P89-0301.R12
April 11, 1997

TABLE 2

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample Number	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
3/18/97	EB3	ND	ND	ND	ND	ND	ND
	EB4	ND	ND	ND	ND	ND	ND
	EB5	ND	ND	ND	ND	ND	ND

NOTE: Water samples were collected during drilling. The results of the analyses may not be representative of formation water, and should be used for comparative informational purposes only.

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

KEI-P89-0301.R12
April 11, 1997

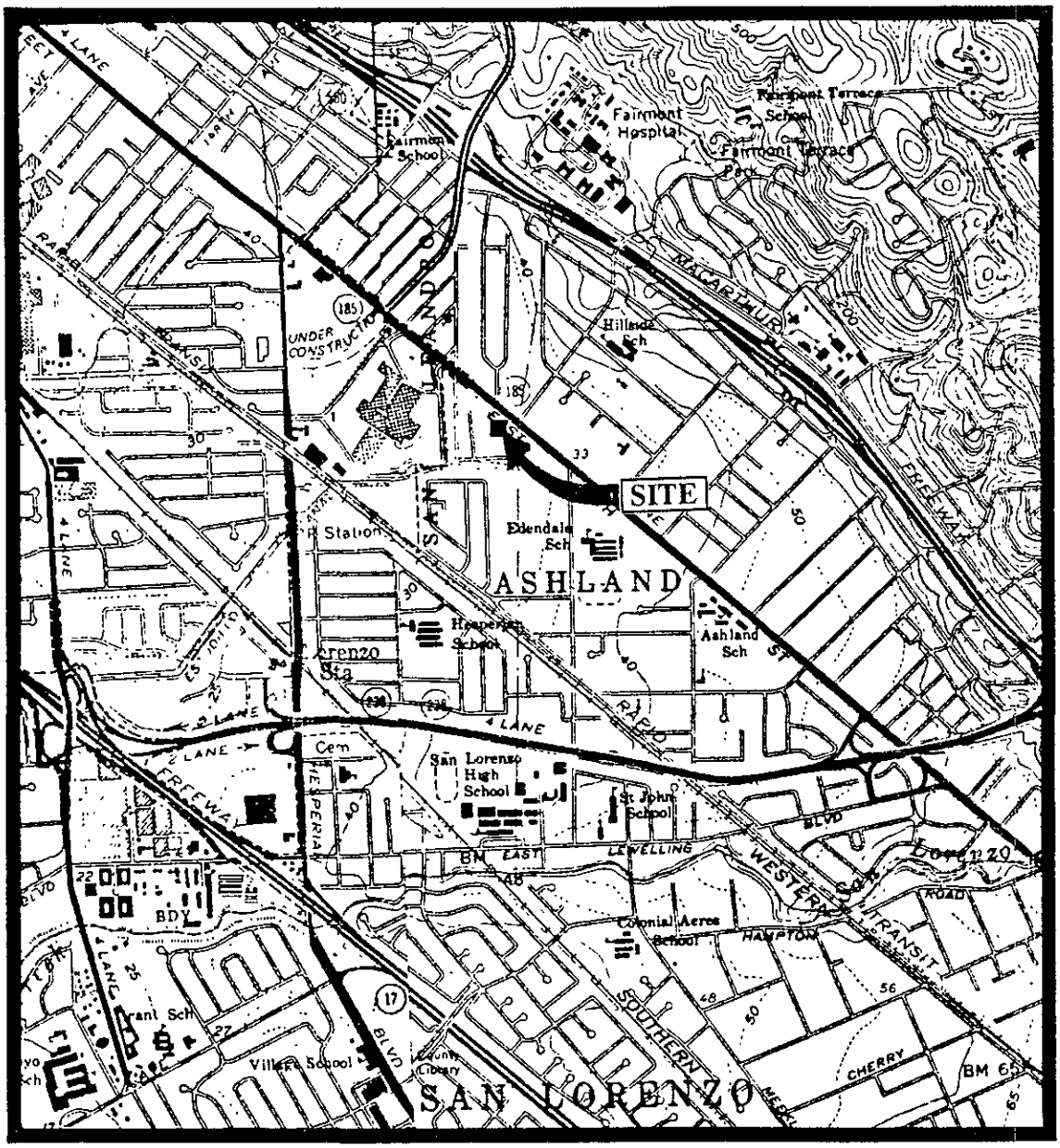
TABLE 3

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample Number	Dissolved Oxygen
3/18/97	EB3	3.1
	EB4	3.1
	EB5	4.3

NOTE: Water samples were collected during drilling. The results of the analyses may not be representative of formation water, and should be used for comparative informational purposes only.

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

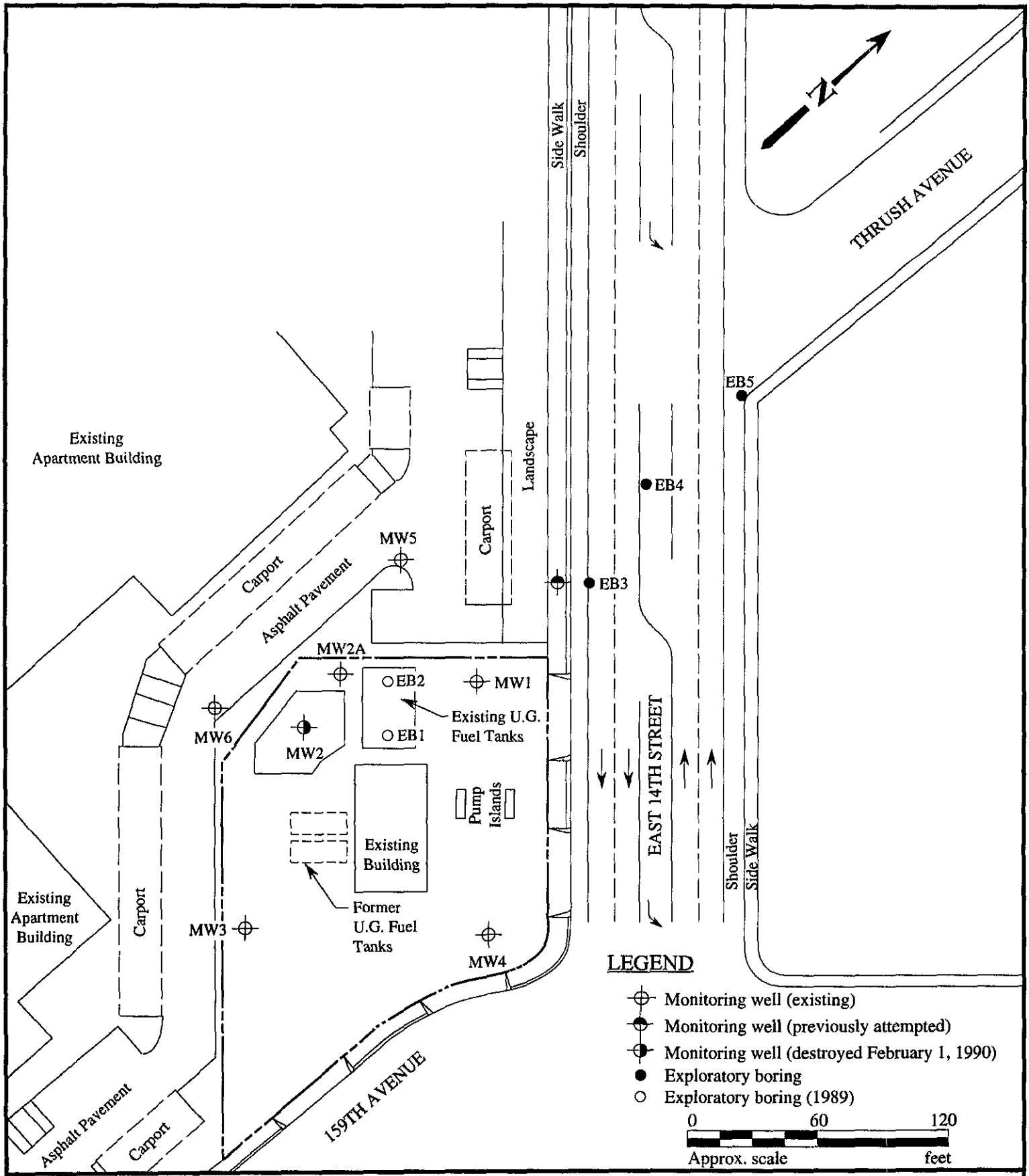


Base modified from 7.5 minute U.S.G.S.
Hayward and San Leandro Quadrangles
(both photorevised 1980)

0 2000 4000

Approx. scale feet

KAPREALIAN ENGINEERING INCORPORATED	**UNOCAL SERVICE STATION #6277** **15803 E. 14TH STREET** **SAN LEANDRO, CALIFORNIA**	**LOCATION MAP**



SITE VICINITY MAP

KAPREALIAN ENGINEERING
INCORPORATED

5/6/97 report
UNOCAL SERVICE STATION #6277
15803 E. 14TH STREET
SAN LEANDRO, CALIFORNIA

FIGURE
1

BORING LOG

Project No. KEI-P89-0301.P6	**Boring Diameter** 1.375" **Casing Diameter** N/A	**Logged By** D.L.
Project Name Unocal S/S #6277 15803 East 14th Street, San Leandro	**Well Cover Elevation** N/A	**Date Drilled** 3/18/97
Boring No. EB3	**Drilling Method** GeoProbe	**Drilling Company** Gregg Drilling

Pene-tration blows/6"	G.W level	O.V.M. (ppm)	Depth (feet) Samples	Stratigraphy USCS	Description
			0		A.C. pavement over sand and gravel base.
No Data					Silty gravel with sand, very dense to hard, dry to slightly moist, brown (highly compacted roadbase).
				ML	Clayey silt, very stiff, moist, dark grayish brown and very dark brown, mottled.
		0.0	5	CL	Silty clay, trace sand, stiff, moist, black.
		0.0	10		Silty clay, stiff, moist, dark gray, with abundant caliche, grades to olive brown below 10 feet.
				ML	Clayey silt, stiff, moist, olive brown.
		0.0		CL	Silty clay, stiff, moist, very dark gray, with root holes and caliche.
	▼		15	ML	Clayey silt, stiff, moist, dark olive brown.
					TOTAL DEPTH:15'
			20		

BORING LOG

Project No. KEI-P89-0301.P6	**Boring Diameter** 1.375" **Casing Diameter** N/A	**Logged By** D.L.
Project Name Unocal S/S #6277 15803 East 14th Street, San Leandro	**Well Cover Elevation** N/A	**Date Drilled** 3/18/97
Boring No. EB4	**Drilling Method** GeoProbe	**Drilling Company** Gregg Drilling

Pene-tration blows/6"	G.W level	O.V.M. (ppm)	Depth (feet) Samples	Stratigraphy USCS	Description
			0		A.C. pavement over sand and gravel base.
No Data					Silty gravel with sand, very dense, moist, dark yellowish brown, with asphalt and debris (fill).
					Pocketed clay, silt and sand, stiff, moist to wet, predominantly very dark grayish brown.
		No Data	5	ML	(Very poor recovery at 4.5 feet) Clayey silt, stiff, moist, dark grayish brown.
		0.0	10	CL	Silty clay, stiff, moist, olive gray to dark olive gray, with caliche grades to olive brown below 10 feet.
				ML	Clayey silt, stiff, moist, olive brown.
	▼	0.0			Clayey silt, firm to stiff, moist to very moist, olive brown, locally grades to silt estimated at 20-30% clay.
			15		TOTAL DEPTH:14.5'
			20		

BORING LOG

Project No. KEI-P89-0301.P6	**Boring Diameter** 1.375" **Casing Diameter** N/A	**Logged By** D.L.
Project Name Unocal S/S #6277 15803 East 14th Street, San Leandro	**Well Cover Elevation** N/A	**Date Drilled** 3/18/97
Boring No. EB5	**Drilling Method** GeoProbe	**Drilling Company** Gregg Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (ppm)	Depth (feet) Samples	Stratigraphy USCS	Description
			0		A.C. pavement over sand and gravel base.
					Sandy silt, with gravel and debris, firm to stiff, very moist, black and very dark grayish brown (fill).
			5		(Poor recovery at 4.5 feet)
		0.0		ML	Sandy silt, trace clay, sand is fine to medium-grained, stiff, moist, dark olive gray.
				CL	Silty clay, stiff, moist, olive brown.
	▼	0.0	10	ML	Sandy silt, trace clay, sand is very fine to fine-grained, stiff, moist, olive brown.
					TOTAL DEPTH:11'
			15		
			20		

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 #6277, 15803 E. 14th St, San Leandro	Sampled: Mar 18, 1997
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Water	Received: Mar 18, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 25, 1997
Attention: Dennis Royce	First Sample #:	703-1176	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 703-1176 EB-3	Sample I.D. 703-1177 EB-4	Sample I.D. 703-1178 EB-5
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.
Benzene	0.50	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.
MTBE	2.5	N.D.	N.D.	N.D.
Chromatogram Pattern:		--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	3/20/97	3/20/97	3/20/97
Instrument Identification:	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	92	94	94

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

for Melissa A. Brewer
Alan B. Kemp
Project Manager

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

Client Project ID: Unocal #6277, 15803 E 14th St, San Leandro
Sample Descript: Water
Analysis for: Dissolved Oxygen
First Sample #: 703-1176

Sampled: Mar 18, 1997
Received: Mar 18, 1997
Analyzed: Mar 18, 1997
Reported: Mar 25, 1997

LABORATORY ANALYSIS FOR: Dissolved Oxygen

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
703-1176	EB-3	0.10	3.1
703-1177	EB-4	0.10	3.1
703-1178	EB-5	0.10	4.3

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

7031176.KEI <2>

Sequoia Analytical

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

Client Project ID: Unocal #6277, 15803 E. 14th St., San Leandro
Matrix: Liquid
QC Sample Group: 7031176-178

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD Batch#:	7031084	7031084	7031084	7031084
Date Prepared:	3/20/97	3/20/97	3/20/97	3/20/97
Date Analyzed:	3/20/97	3/20/97	3/20/97	3/20/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	85	85	80	83
Matrix Spike Duplicate % Recovery:	85	85	80	83
Relative % Difference:	0.0	0.0	0.0	0.0
LCS Batch#:	4LCS032097	4LCS032097	4LCS032097	4LCS032097
Date Prepared:	3/20/97	3/20/97	3/20/97	3/20/97
Date Analyzed:	3/20/97	3/20/97	3/20/97	3/20/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	80	80	75	78
% Recovery Control Limits:	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

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

Client Project ID: Unocal #6277, 15803 E. 14th St., San Leandro
Matrix: Liquid

QC Sample Group: 7031176-178

Reported: Mar 25, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Dissolved Oxygen
Analy. Method:	EPA 360.1
Prep. Method:	EPA 360.1
Analyst:	B. Nguyen
Duplicate Sample #:	7031178
Prepared Date:	3/18/97
Analyzed Date:	3/18/97
Instrument I.D.#:	Manual
Sample Concentration:	4.3 mg/L
Dup. Sample Concentration:	4.3 mg/L
RPD:	0.0
RPD Limit:	0-30

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

** RPD = Relative % Difference

UNOCAL 76

☐ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
☒ 1404 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: K.E.I.	Project Name: 18803 E. 14TH STREET
Address: 2401 STANWELL DRIVE, #400	UNOCAL Project Manager: TINA BERRY
City: CONCORD State: CA Zip Code: 94520	AFE #:
Telephone: (510) 602-5100 FAX #: 687-0602	Site #, City, State: #6277, SAN LEANDRO, CA
Report To: ROBIN Sampler: DOUG LEE	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-D, BTEX, DISSOLVED OXYGEN, MTBE

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-D	BTEX	DISSOLVED OXYGEN	MTBE	Comments
1.	EB3	3-18-97	WATER	3	2VOA/1LIT		X	X	X	X	7031176 A C
2.	EB4	↓	↓	↓	↓		↓	↓	↓	↓	7031177 |
3.	EB5	↓	↓	↓	↓		↓	↓	↓	↓	7031178 |
4.											
5.											MTBE added
6.											per Doug Lee
7.											3/25/97 12:00
8.											
9.											
10.											

Relinquished By:	Date: 3-18-97	Time: 16:45	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By Lab:

Date: | Time:
Date: | Time:
Date: 3/19/97 | Time: 1645

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

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

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 703-1074

Sampled: Mar 17, 1997
Received: Mar 17, 1997
Reported: Mar 27, 1997

QC Batch Number:	GC031997 802002A	GC031897 802002A	GC031897 802002A	GC031897 802002A	GC031897 802002A	GC031897 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 703-1074 MW-4	Sample I.D. 703-1075 MW-1	Sample I.D. 703-1076 MW-3	Sample I.D. 703-1077 MW-10	Sample I.D. 703-1078 RW-1	Sample I.D. 703-1079 RW-2
Purgeable Hydrocarbons	50	2,100	N.D.	N.D.	N.D.	38,000	1,100
Benzene	0.50	200	N.D.	N.D.	N.D.	3,600	180
Toluene	0.50	40	N.D.	N.D.	N.D.	12,000	21
Ethyl Benzene	0.50	54	N.D.	N.D.	N.D.	710	42
Total Xylenes	0.50	74	N.D.	N.D.	N.D.	7,400	56
MTBE:	0.60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		Gasoline	--	--	--	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	20	1.0	1.0	1.0	100	10
Date Analyzed:	3/19/97	3/18/97	3/18/97	3/18/97	3/18/97	3/18/97
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	93	87	86	87	91	94

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

Jim Bava
Project Manager

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

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 703-1080

Sampled: Mar 17, 1997
Received: Mar 17, 1997
Reported: Mar 27, 1997

QC Batch Number:	GC031997	GC031997	GC031997	GC032097	GC032097
	802002A	802002A	802002A	802004A	802004A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 703-1080 RW-3	Sample I.D. 703-1081 RW-4	Sample I.D. 703-1082 MW-6	Sample I.D. 703-1083 MW-11	Sample I.D. 703-1084 MW-12
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	N.D.
MTBE:	0.60	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		--	--	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	3/19/97	3/19/97	3/19/97	3/20/97	3/20/97
Instrument Identification:	HP-2	HP-2	HP-2	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	88	89	89	95	95

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

Jim Bava
Project Manager

Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 7031074-084

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031897	GC031897	GC031897	GC031897
	802002A	802002A	802002A	802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	7030917	7030917	7030917	7030917
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/18/97	3/18/97	3/18/97	3/18/97
Analyzed Date:	3/18/97	3/18/97	3/18/97	3/18/97
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
Result:	17	21	21	60
MS % Recovery:	85	105	105	100
Dup. Result:	17	21	20	60
MSD % Recov.:	85	105	100	100
RPD:	0.0	0.0	4.9	0.0
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	2LCS031897	2LCS031897	2LCS031897	2LCS031897
Prepared Date:	3/18/97	3/18/97	3/18/97	3/18/97
Analyzed Date:	3/18/97	3/18/97	3/18/97	3/18/97
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
LCS Result:	17	22	21	63
LCS % Recov.:	85	110	105	105
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Jim Bava
Project Manager

Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 7031074-084

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031997 802002A	GC031997 802002A	GC031997 802002A	GC031997 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	7031188	7031188	7031188	7031188
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/19/97	3/19/97	3/19/97	3/19/97
Analyzed Date:	3/19/97	3/19/97	3/19/97	3/19/97
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
Result:	13	16	14	43
MS % Recovery:	65	80	70	72
Dup. Result:	13	16	15	43
MSD % Recov.:	65	80	75	72
RPD:	0.0	0.0	6.9	0.0
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	2LCS031997	2LCS031997	2LCS031997	2LCS031997
Prepared Date:	3/19/97	3/19/97	3/19/97	3/19/97
Analyzed Date:	3/19/97	3/19/97	3/19/97	3/19/97
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
LCS Result:	14	16	15	43
LCS % Recov.:	70	80	75	72
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Jim Bava
Project Manager

Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Ron Scheele

Client Project ID: Mobil #04-H6J
Matrix: Liquid

QC Sample Group: 7031074-084

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC032097	GC032097	GC032097	GC032097
	802004A	802004A	802004A	802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	7031084	7031084	7031084	7031084
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/20/97	3/20/97	3/20/97	3/20/97
Analyzed Date:	3/20/97	3/20/97	3/20/97	3/20/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	17	17	16	50
MS % Recovery:	85	85	80	83
Dup. Result:	17	17	16	50
MSD % Recov.:	85	85	80	83
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	4LCS032097	4LCS032097	4LCS032097	4LCS032097
Prepared Date:	3/20/97	3/20/97	3/20/97	3/20/97
Analyzed Date:	3/20/97	3/20/97	3/20/97	3/20/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	16	16	15	47
LCS % Recov.:	80	80	75	78
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Jim Bava
Project Manager

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: K.E.I.	Project Name: 18803 E. 14TH STREET
Address: 2401 STANWELL DRIVE, #400	UNOCAL Project Manager: TINA BERRY
City: CONCORD State: CA Zip Code: 94520	AFE #:
Telephone: (510) 602-5100 FAX #: 687-0602	Site #, City, State: #6277, SAN LEANDRO, CA
Report To: ROBIN Sampler: DOUG LEE	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	DISSOLVED OXYGEN	MTBE	Comments
1. EB3	3-18-97	WATER	3	2VOA/1LG		X	X	X	X	7031176
2. EB4	↓	↓	↓	↓		↓	↓	↓	↓	7031177
3. EB5	↓	↓	↓	↓		↓	↓	↓	↓	7031178
4.										
5.										MTBE added
6.										per Doug Lee
7.										3/25/97 12:00
8.										
9.										
10.										

Relinquished By:		Date: 3-18-97	Time: 16:45	Received By:	Date:	Time:
Relinquished By:		Date:	Time:	Received By:	Date:	Time:
Relinquished By:		Date:	Time:	Received By Lab:	Date: 3/19/97	Time: 1645

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

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 #6277, 15803 E. 14th St., San Leandro	Sampled: Mar 18, 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 25, 1997
Attention: Dennis Royce	First Sample #:	703-1222	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 703-1222 EB3 (5)	Sample I.D. 703-1223 EB3 (10)	Sample I.D. 703-1224 EB3 (14.5)	Sample I.D. 703-1225 EB4 (4.5)	Sample I.D. 703-1226 EB4 (10)	Sample I.D. 703-1227 EB4 (13)
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MTBE:	0.050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		--	--	--	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	3/19/97	3/19/97	3/19/97	3/19/97	3/19/97	3/19/97
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	105	103	104	103	105	105

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

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 #6277, 15803 E 14th St., San Leandro	Sampled: Mar 18, 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 25, 1997
Attention: Dennis Royce	First Sample #:	703-1228	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 703-1228 EB5 (5)	Sample I.D. 703-1229 EB5 (10)
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.
MTBE:	0.050	N.D.	N.D.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	3/19/97	3/19/97
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	104	104

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

Client Project ID: Unocal #6277, 15803 E. 14th St., San Leandro
Matrix: Solid

QC Sample Group: 7031222-229

Reported: Mar 28, 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#:	7031223	7031223	7031223	7031223
Date Prepared:	3/19/97	3/19/97	3/19/97	3/19/97
Date Analyzed:	3/19/97	3/19/97	3/19/97	3/19/97
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:	58	65	68	69
Matrix Spike Duplicate % Recovery:	58	65	68	68
Relative % Difference:	0.0	0.0	0.0	2.4
LCS Batch#:	4LCS031997	4LCS031997	4LCS031997	4LCS031997
Date Prepared:	3/19/97	3/19/97	3/19/97	3/19/97
Date Analyzed:	3/19/97	3/19/97	3/19/97	3/19/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	95	100	105	105
% Recovery Control Limits:	60-140	60-140	60-140	60-140

SEQUOIA ANALYTICAL, #1271

Melissa D. 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.

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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: 15803 E. 14TH STREET
Address: 2401 STANWELL DRIVE, #400	UNOCAL Project Manager: TINA BERRY
City: CONCORD State: CA Zip Code: 94520	AFE #:
Telephone: (510) 602-5100 FAX #: 687-0602	Site #, City, State: #6277, SAN LEANDRO, CA
Report To: ROBIN Sampler: DOUG LEE	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	MTBE				Comments
1.	EB3 (5)	3-18-97	Soil	1	TUBE		X	X	X				7031222
2.	EB3 (10)												7031223
3.	EB3 (14.5)												7031224
4.	EB4 (4.5)												7031225
5.	EB4 (10)												7031226
6.	EB4 (13)												7031227
7.	EB5 (5)												7031228
8.	EB5 (10)												7031229
9.													
10.													

Relinquished By:	Date: 3-18-97	Time: 17:00	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By Lab: Date: 3/20 Time: 1700

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ 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