KAPREALIAN ENGINEERING
INCORPORATED

ENVIRONMENTAL
PROTECTION

95 SEP 20 PM 12:22

September 19, 1995

Alameda County Health Care Services
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

#521

Attention: Mr. Barney Chan

RE: Unocal Service Station #5043
449 Hegenberger Road
Oakland, California

Dear Mr. Chan:

Per the request of Mr. David B. De Witt of Unocal Corporation, enclosed please find our report dated July 25, 1995, for the above referenced site.

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

9/21/95 Inquired about these things to D. DeWitt

Sincerely,

Kaprealian Engineering, Inc.

How about a report of:
1) Results from over-excavation soil spec.
2) doc H2O removed ~31,000 gallons
3) when will replacement wells be installed?
4) monitoring event?
5) Waste wells.?

Judy A. Dewey
Executive Secretary

jad\82

Enclosure

cc: David B. De Witt, Unocal Corporation

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

KAPREALIAN ENGINEERING
INCORPORATED

KEI-P91-1004.R8
July 25, 1995

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

Attention: Mr. David B. De Witt

RE: Soil Disposal Report for
Unocal Service Station #5043
449 Hegenberger Road
Oakland, California

Dear Mr. De Witt:

This report summarizes the analytical results of the composite soil samples that were collected from soil stockpiled at the referenced site. The soil analyses were conducted to comply with the local regulatory agency requirements for proper disposal of potentially contaminated soil.

Kaprealian Engineering, Inc. (KEI) on behalf of Unocal Corporation coordinated the disposal of soil generated during the installation and destruction of monitoring wells, the removal of underground storage tanks, the excavation of soil from around the area of the fuel tank pit, pump islands, service station building, and the excavation of utility trenches at the subject site. Arrangements were made to stockpile the soil at Forward Landfill, Inc. (Forward) located in Manteca, California (an approved Class II/III disposal facility), where subsequent soil samples were collected. The date and volume of soil represented by each sampling event are summarized in Table 1. A Site Plan showing the area of excavation is attached (Figure 1).

On January 25, 1995, KEI collected a composite soil sample (designated as Comp S1) from approximately 3/4 cubic yard of soil that was generated during the drilling of monitoring wells MW9 and MW10, and the destruction of MW4 and MW5. Comp S1 consisted of four individual grab samples taken at various locations and at depths of approximately 1 to 2 feet into the stockpile. The individual samples were collected in two-inch diameter, clean brass tubes that were then sealed with Teflon-lined plastic caps, and placed in a cooled ice chest. The samples were accompanied by properly executed Chain of Custody documentation for transport to a state certified laboratory for analyses. The samples were subsequently composited and analyzed by Sequoia Analytical in Walnut Creek, California.

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

Comp S1 was analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020, and organic lead by the California LUFT manual 12/87 procedure. The results of the soil analyses are summarized in Table 2. Copies of the laboratory analyses sheets and the Chain of Custody documentation are attached to this report. Upon review of the soil analysis, a decision was made to stockpile the drill cuttings on-site for disposal with soil that was to be generated during the removal of three underground storage tanks.

On March 1, 1995, KEI returned to the site to collect a composite soil sample from approximately 200 cubic yards of soil that were generated during the removal of three underground storage tanks. The composite soil sample (designated as Comp A) was collected and stored as described above. Comp A was analyzed for concentrations of TPH as gasoline, TPH as diesel by EPA method 3550/modified 8015, BTEX, and total lead by EPA method 7420. The results of the soil analyses are summarized in Table 2.

Upon review of the soil analysis, a decision was made to stockpile future soil excavations at Forward in Manteca, California (an approved Class II/III disposal facility), where additional soil samples would be collected. Conrad & Sons Trucking (a subcontractor to Gettler-Ryan), located in Escalon, California, transported the soil to Forward. The dates and quantities of soil transported from the subject site to Forward are summarized in Table 3.

On March 8, 1995, KEI collected (at Forward) soil samples from approximately 400 cubic yards of additional soil that had been generated during the removal of the three underground storage tanks. The soil samples (designated as Comp B and Comp C) were collected and stored as described above. Comp B and Comp C were analyzed for concentrations of TPH as gasoline, TPH as diesel, BTEX, and total lead. The results of the soil analyses are summarized in Table 2.

On March 27, 1995, KEI returned to Forward to collect samples from approximately 2,000 cubic yards of additional soil that were generated during the removal of the three underground storage tanks and excavation of the pump islands. The soil samples (designated as Comp D through Comp L) were collected and stored as described above. Comp D through Comp L were analyzed for concentrations of TPH as gasoline, TPH as diesel, and BTEX. Additionally, Comp D, Comp F, Comp H, Comp J, and Comp L were analyzed for concentrations of total lead. The results of the soil analyses are summarized in Table 2.

On April 10, 1995, KEI returned to Forward to collect samples from approximately 1,680 cubic yards of additional soil that were generated during the excavation of soil in the vicinity of the former pump islands and the service station building. Composite soil samples (designated as Comp M through Comp S) were collected and stored as described above. Comp M through Comp S were analyzed for concentrations of TPH as gasoline, TPH as diesel, and BTEX. Additionally, Comp M, Comp P, and Comp S were analyzed for concentrations of total lead. The results of the soil analyses are summarized in Table 2.

On May 8, 1995, KEI returned to the subject site to collect samples from approximately 288 cubic yards of additional soil (designated as Comp 1 through Comp 3) that were generated during the excavation of utility lines, car wash, and food mart. An additional 75 cubic yards of soil (designated as Comp T) were generated during excavation of utility trenches in an area suspected of having hydrocarbon impacted soil. The composite soil samples (Comp 1 through Comp 3 and Comp T) were collected and stored as described above. Comp 1 through Comp 3 and Comp T were analyzed for concentrations of TPH as gasoline and BTEX. Additionally, Comp 1 was analyzed for concentrations of total lead, and Comp T and Comp 1 were analyzed for concentrations of TPH as diesel. The results of the soil analyses are summarized in Table 2.

Based on the analytical results, approximately 288 cubic yards of soil (designated by Comp 1 through Comp 3) were profiled for disposal to Redwood in Novato, California (an approved Class III disposal facility). On May 11, 1995, Conrad & Sons Trucking transported and disposed of 288 cubic yards of soil represented by Comp 1 through Comp 3 to Redwood Landfill.

Based on the analytical results, an agreement was made with Forward to dispose of the soil represented by Comp T and all additional soil generated from the utility trench represented by Comp T. On May 12, 1995, Conrad & Sons Trucking transported and disposed of 216 cubic yards of soil to Forward.

On May 12, 1995, KEI returned to the subject site to collect samples from approximately 200 cubic yards of additional soil that were generated during the excavation of utility lines and food mart building foundation. The soil samples (designated as Comp 4 through Comp 6) were collected and stored as described above. Comp 4 through Comp 6 were analyzed for concentrations of TPH as gasoline and BTEX. Additionally, Comp 4 and Comp 6 were analyzed for concentrations of total lead. The results of the soil analyses are summarized in Table 2.

Based on the analytical results, approximately 200 cubic yards of soil (represented by Comp 4 through Comp 6) were profiled for disposal to BFI Landfill (BFI) located in Livermore, California (an approved Class II/III disposal facility). On May 19, 1995, Conrad & Sons Trucking transported 198 cubic yards of soil to BFI.

On June 8, 1995, KEI returned to the subject site to collect samples from approximately 200 cubic yards of additional soil that were generated during the excavation of the foundation and utility trenches for an automated carwash. The soil samples (designated as Comp 7 and Comp 8) were collected and stored as described above. Comp 7 and Comp 8 were analyzed for concentrations of TPH as gasoline, BTEX, and total lead. The results of the soil analyses are summarized in Table 2.

Based on the analytical results, approximately 200 cubic yards of soil (represented by Comp 7 and Comp 8) were profiled for disposal to BFI. On June 12, 1995, Conrad & Sons Trucking transported 200 cubic yards of soil to BFI's Vasco Road landfill facility.

On July 6, 1995, KEI returned to the subject site to collect samples from approximately 225 cubic yards of soil that were generated during shallow excavation in the area of the former planter and parking lot. After the samples were collected, the stockpiled soil was transported to Forward for temporary storage until all soil analyses was complete. Two composite soil samples (designated as Comp 9 and Comp 10) were collected and stored as described above. Comp 9 and Comp 10 were analyzed for concentrations of TPH as gasoline, BTEX, and total lead. The results of the soil analyses are summarized in Table 2.

The laboratory analyses indicated that the concentrations of total lead for Comp 9 and Comp 10 were at 100 mg/kg and 96 mg/kg, respectively. Per the requirements of Forward, Comp 9 and Comp 10 were re-analyzed to determine soluble threshold limit concentrations (STLC) of lead. The laboratory analytical results indicated that the STLC levels of lead for Comp 9 and Comp 10 were 5.4 mg/kg and 5.3 mg/kg, respectively.

The total lead concentrations for Comp 9 and Comp 10 were not consistent with the results of 15 composite soil samples previously collected at the referenced site. The earlier composite soil samples indicated concentrations of lead ranging from non-detectable to 14 mg/kg. On July 11, 1995, KEI returned to Forward to collect additional composite soil samples from the stockpiled soil previously represented by Comp 9 and Comp 10. KEI collected 5 composite soil samples (designated as Comp R1 through Comp R5) to determine the concentrations of total lead. The composite soil samples each consisted of two individual grab samples collected

from every 45 cubic yards of soil. The laboratory analytical results indicated that the concentrations of total lead ranged from 24 mg/kg to 43 mg/kg. Additionally, Comp R2 and Comp R4 were analyzed for STLC lead using de-ionized water. STLC lead for Comp R2 and Comp R4 were at 0.098 mg/kg and non-detectable concentrations, respectively. The results of the soil analyses are summarized in Table 2.

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

Sincerely,

Kaprealian Engineering, Inc.

Dennis Royce

Dennis Royce
Technical Assistant

/dr

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

KEI-P91-1004.R8
July 25, 1995

TABLE 1

STOCKPILED SOIL SAMPLING QUANTITIES AND DATES

Date		Sample ID	Soil Quantity (Approximate) Sampled* (cubic yards)
1/26/95		Comp S1	3/4
3/01/95		Comp A	200
3/08/95		Comp B through Comp C	400
3/27/95		Comp D through Comp L	2,000
3/10/95		Comp M through Comp S	1,680
5/08/95		Comp 1 through Comp 3	325
5/08/95		Comp T	200
5/12/95		Comp 4 through Comp 6	200
6/08/95		Comp 7 and Comp 8	200
7/06/95	✱	Comp 9 and Comp 10	225
7/11/95	✱	Comp R1 through Comp R5	225**

2600
1690
1375
5665
-225
5430

* The volume of the stockpile is a rough estimate, due in part to settling and compaction of the soil. The actual size of the disposed soil is calculated by multiplying the number of truckloads by the carrying capacity of the truck(s) used to transport the soil. This accounts in part for the discrepancies between the size of the stockpile as calculated through field measurements and the amount of soil hauled as invoiced by the transporter.

** Comp 9, Comp 10, and Comp R1 through Comp R5 were collected from ~~the same soil~~ stockpile. ~~Comp 9 and Comp 10~~ were collected at the subject site. Comp R1 through Comp R5 were collected at Forward. The soil was transported July 8, 1995, to Forward's temporary storage yard until soil sampling and analyses were complete.

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July 25, 1995

TABLE 2

SUMMARY OF LABORATORY ANALYSES

Sample	Date Collected	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	Total Lead
Comp S1*	1/25/95	--	23	0.24	0.42	0.49	1.4	--
Comp A	3/01/95	370	640	1.7	15	13	65	3.1
Comp B	3/08/95	150	370	ND	ND	ND	4.6	6.8
Comp C	3/08/95	100	160	ND	0.43	0.81	18	6.8
Comp D**	3/37/95	98	330	0.65	9.7	8.1	41	7.7
Comp E**	3/27/95	120	860	3.7	19	16	86	--
Comp F**	3/27/95	200	1,000	5.2	22	25	110	7.7
Comp G**	3/27/95	74	300	1.3	9.0	7.6	40	--
Comp H**	3/27/95	100	400	1.5	11	9.3	46	4.7
Comp I**	3/27/95	160	510	1.2	10	12	72	--
Comp J**	3/27/95	17	340	0.65	8.6	7.3	40	5.3
Comp K**	3/27/95	150	660	3.5	17	16	71	--
Comp L**	3/27/95	120	520	1.3	13	12	74	9.4
Comp M▲	4/10/95	32	13	0.0070	0.053	0.17	1.2	ND

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES

Sample	Date Collected	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	Total Lead
Comp N▲	4/10/95	42	250	0.64	1.9	5.3	28	--
Comp O▲	4/10/95	32	200	0.70	1.8	3.9	16	--
Comp P▲	4/10/95	22	330	1.3	2.7	6.7	28	7.4
Comp Q▲	4/10/95	16	310	0.74	1.8	5.0	26	--
Comp R▲	4/10/95	40	220	0.49	1.3	3.4	18	--
Comp S▲	4/10/95	45	410	1.0	2.4	6.5	32	6.1
Comp T▲	5/08/95	15	110	0.25	0.59	0.80	4.6	10
Comp 1	5/08/95	--	8.5	ND	ND	0.014	0.32	14
Comp 2	5/08/95	--	2.0	ND	ND	0.0069	0.031	--
Comp 3	5/08/95	--	2.0	ND	ND	0.013	0.048	--
Comp 4	5/12/95	--	11	0.033	ND	0.023	0.17	12
Comp 5	5/12/95	--	8.4	0.017	0.0053	0.068	0.31	--
Comp 6	5/12/95	--	18	0.075	ND	0.092	0.47	14
Comp 7	6/08/95	--	93	0.22	0.68	1.3	6.2	6.2
Comp 8	6/08/95	--	160	0.82	3.6	5.1	22	--

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TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES

Sample	Date Collected	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	Total Lead
Comp 9▼♦	7/06/95	--	ND	ND	ND	ND	ND	100
Comp 10▼♦	7/06/95	--	ND	ND	ND	ND	ND	96

* Comp S1 was analyzed for the presence of organic lead with non-detectable concentrations at milligrams per kilogram (mg/kg).

** Sequoia Analytical Laboratory reported that the samples do not appear to contain diesel. Unidentified hydrocarbons were found in the <C16 & >C20 range. "Unidentified hydrocarbons <C16" are probably gasoline; ">C20" refers to unidentified peaks in the total oil and grease range.

▲ Sequoia Analytical Laboratory reported that the Chromatogram Pattern indicated Diesel and unidentified hydrocarbons in the <C15 range.

▼ Comp 9 and Comp 10 were additionally analyzed for soluble threshold limit concentrations of lead with concentrations at 5.4 mg/kg and 5.3 mg/kg respectively.

♦ On 7/11/95, five additional samples were collected from stockpiled soil represented by Comp 9 and Comp 10. The five samples (designated as Comp R1 through Comp R5) were analyzed for concentrations of total lead at concentrations of 33 mg/kg, 37 mg/kg, 42 mg/kg, 24 mg/kg, and 27 mg/kg, respectively. Additionally, Comp R2 and Comp R4 were analyzed for concentrations of soluble threshold limit concentrations (STLC) of lead using de-ionized water. STLC lead for Comp R2 and Comp R4 were at 0.098 mg/kg and non-detectable concentrations, respectively.

-- Indicates analysis was not performed.

ND = Non-detectable.

Results are in milligrams per kilogram (mg/kg), except for STLC lead, where the result is in milligrams per liter (mg/L).

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TABLE 3

SUMMARY OF SOIL DISPOSAL*
(Transported by Conrad & Sons Trucking)

Date Transported	Truckloads	Total Cubic Yards
3/06/95	8	144
3/07/95	10	180
3/08/95	12	216
3/09/95	12	216
3/13/95	12	216
3/14/95	16	288
3/15/95	8	144
3/21/95	11	198
3/22/95	15	270
3/23/95	17	306
3/24/95	18	324
3/27/95	18	324
3/28/95	16	288
3/29/95	18	324
3/30/95	16	288
3/31/95	18	324
4/03/95	18	324
4/04/95	16	288
4/05/95	6	108
4/06/95	18	324
4/07/95	4	72

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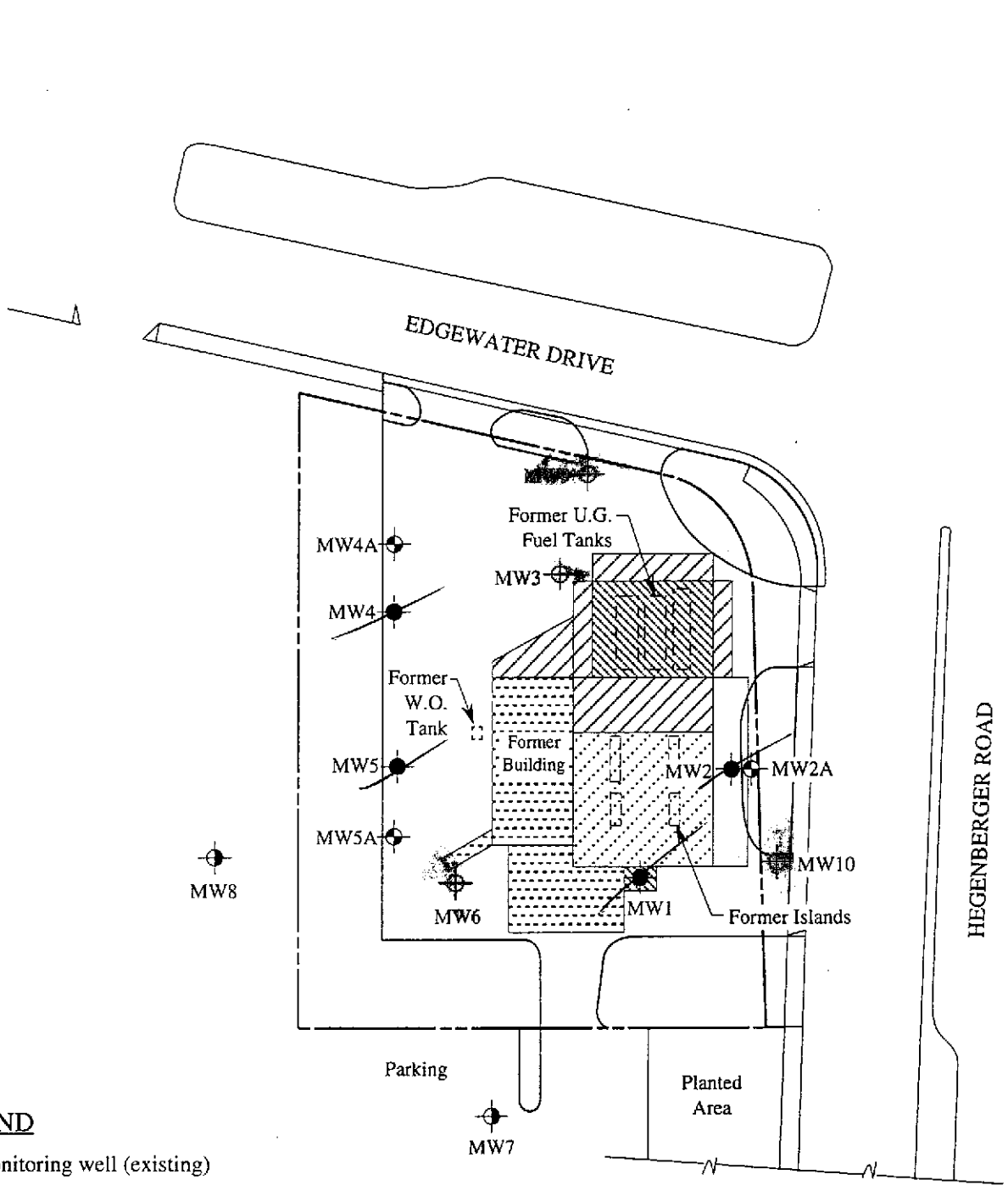
TABLE 3 (Continued)

SUMMARY OF SOIL DISPOSAL*
(Transported by Conrad & Sons Trucking)

Date Transported	Truckloads	Total Cubic Yards
5/11/95 (Redwood)	16	288
5/12/95 (Redwood)	6	108
5/12/95	12	216
5/19/95 (BFI)	11	198
6/12/95 (BFI)	12	216
7/08/95	14	~~252~~
TOTALS	**358**	**6,444**

* Soil transported to Forward, unless otherwise indicated.



LEGEND

- Monitoring well (existing)
- Monitoring well (destroyed)
- Replacement monitoring well (to be installed)
- Monitoring well (previously proposed)
- Excavated to a depth of 4 feet
- Excavated to a depth of 5 feet
- Excavated to a depth of 6 feet
- Excavated to a depth of 8 feet
- Excavated to a depth of 16 feet

0 60 120

Approx. scale feet

SITE PLAN

KAPREALIAN ENGINEERING
INCORPORATED

UNOCAL SERVICE STATION #5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

FIGURE
1

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger Rd.,		Sampled:	Jan 25, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Oakland	Received:	Jan 26, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020		Reported:	Jan 27, 1995
Attention: Avo Avedissian	First Sample #:	501-1176			

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 501-1176 Comp. S1
Purgeable Hydrocarbons	1.0	23
Benzene	0.0050	0.24
Toluene	0.0050	0.42
Ethyl Benzene	0.0050	0.49
Total Xylenes	0.0050	1.4
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	1/26/95
Instrument Identification:	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	82

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

5011176.KEI <1>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
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: Avo Avedissian

Client Project ID: Unocal #5043, 449 Hegenberger Rd., Oakland
Matrix: Solid
QC Sample Group: 501-1176
Reported: Feb 1, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere
MS/MSD Batch#:	5010690	5010690	5010690	5010690
Date Prepared:	1/26/95	1/26/95	1/26/95	1/26/95
Date Analyzed:	1/26/95	1/26/95	1/26/95	1/26/95
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:	73	90	90	92
Matrix Spike Duplicate % Recovery:	70	85	90	92
Relative % Difference:	4.2	5.7	0.0	0.0
LCS Batch#:	2LCS012695	2LCS012695	2LCS012695	2LCS012695
Date Prepared:	1/26/95	1/26/95	1/26/95	1/26/95
Date Analyzed:	1/26/95	1/26/95	1/26/95	1/26/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	80	101	103	106
% Recovery Control Limits:	55-145	47-149	47-155	56-140

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.

UNOCAL 76

☐ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
☒ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
☐ 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

Company Name: KAPREALIAN ENGINEERING, INC.	Project Name: 449 WESTERBERGER ROAD, OAKLAND
Address: 2401 STANWELL DRIVE, SUITE 400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: (510) 682-5100 FAX #: (687-0602	Site #: 5043
Report To: AVO Sampler: DOUG LEE	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ~~[illegible]~~ ☐ 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 #	EPA 5 Extract	EPA 5 Extract								Comments
1.	COMP. A1	1/25/95	SOIL	4	TUBE	5011176 A-D	X	X								
2.																
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

Relinquished By: [signature]	Date: 1/26/95	Time: 12:33	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By Lab: Melissa Cruise

Date: | Time:
Date: | Time:
Date: 1/26/95 | Time: 12:33 pm

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger Rd., Oakland	Sampled: Jan 25, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Relogged: Jan 30, 1995
Concord, CA 94520	Analysis Method:	California LUFT Manual, 12/87	Extracted: Feb 1, 1995
Attention: Avo Avedissian	First Sample #:	501-1176	Analyzed: Feb 1, 1995
			Reported: Feb 13, 1995

ORGANIC LEAD

Sample Number	Sample Description	Sample Results mg/kg (ppm)
501-1176	Comp. S1	N.D.

Detection Limits:	0.050

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

SEQUOIA ANALYTICAL

Alan B. Kemp
Project Manager

501-1176.KEI <1>

Sequoia Analytical

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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedissian

Client Project ID: Unocal #5043, 449 Hegenberger Rd., Oakland
Matrix: Solid
QC Sample Group: 501-1176
Reported: Feb 13, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Organic Lead
Method:	LUFT
Analyst:	T.Le
MS/MSD Batch#:	5011176
Date Prepared:	2/1/95
Date Analyzed:	2/1/95
Instrument I.D.#:	SpectrAA-20
Conc. Spiked:	25 mg/kg
Matrix Spike % Recovery:	98
Matrix Spike Duplicate % Recovery:	99
Relative % Difference:	1.0
LCS Batch#:	TL0124J-1
Date Prepared:	2/1/95
Date Analyzed:	2/1/95
Instrument I.D.#:	SpectrAA-20
LCS % Recovery:	98
% Recovery Control Limits:	75-125

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/UNOCAL RELOG SHEET

CLIENT:	KEI	DATE RELOG:	1/30/95
PROJECT ID:	Unocal #5043, Oakland	DATE DUE:	2/13/95
PROJ. MANAGER:	Alan Kemp	DATE SAMP:	1/25/95
DATE REC'D: 1/26/95	MATRIX: Soil	T.A.T.	10d

PREVIOUSLY LOGGED SAMPLES

[ ] TAT Change status to: 0

Change status as of Day: 1/30/95 Time: 8:30 AM

[X] CHANGE ANALYSES

Add Analyses [X]
Cancel Analyses [ ]

Sample Number	Analyses
5011176	Organic Lead
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

SAMPLES ON HOLD

Add analyses

Sample Description	Analyses
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

TAT 0

Client Authorization (Person/Date/Time): Dennis 1/30/95 8:30 AM

Project Manager:

(Please submit to Sample Control with a copy of the COC & log-in sheets)

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) as the report issued within the requested turnaround time? ___Yes ___No If no, what was the turnaround time?

Approved by: Signature: Company:

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

Company Name: KAPREALIAN ENGINEERING, INC.	Project Name: 449 HEGENBERGER ROAD, OAKLAND
Address: 2401 STANWELL DRIVE, SUITE 400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: (510) 682-5100 FAX #: (687-0602	Site #: 5043
Report To: ANO Sampler: DOUG LEE	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ 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

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-D	BTEX	Comments
1.	COMP. S1	1/25/95	SOIL	4	TUBE	5011176 A-D	X	X	
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									

Relinquished By: [signature]	Date: 1/26/95	Time: 12:33	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: Melissa Cruise	Date: 1/26/95	Time: 12:33 pm

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

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger Road, Oakland	Sampled:	Mar 1, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 2, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	Mar 7, 1995
Attention: Dennis Royce	First Sample #:	503-0054		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 503-0054 Comp A
Purgeable Hydrocarbons	1.0	640
Benzene	0.0050	1.7
Toluene	0.0050	15
Ethyl Benzene	0.0050	13
Total Xylenes	0.0050	65
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	50
Date Analyzed:	3/3/95
Instrument Identification:	HP-2
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 #5043, 449 Hegenberger Road, Oakland	Sampled:	Mar 1, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Received:	Mar 2, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted:	Mar 2, 1995
Attention: Avo Avedissian	First Sample #:	503-0054	Analyzed:	Mar 3, 1995
			Reported:	Mar 7, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
503-0054	Comp A	2.5	3.1

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

5030054.KEI <2>

Sequoia Analytical

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Kapreallan Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger Road, Oakland	Sampled:	Mar 1, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 2, 1995
Concord, CA 94520	Analysis Method:	EPA 3550/8015	Reported:	Mar 7, 1995
Attention: Avo Avedissian	First Sample #:	503-0054		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 503-0054 Comp A
Extractable Hydrocarbons	1.0	370
Chromatogram Pattern:		Diesel and Unidentified Hydrocarbons <C13

Quality Control Data

Report Limit Multiplication Factor:	10
Date Extracted:	3/2/95
Date Analyzed:	3/2/95
Instrument Identification:	HP-3A

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

5030054.KEI <3>

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 #5043, 449 Hegenberger Road, Oakland
Matrix: Solid
QC Sample Group: 503-0054

Reported: Mar 27, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 Mod.	EPA 7420
Analyst:	A. Tuzon	A. Tuzon	A. Tuzon	A. Tuzon	K. Wimer	T. Le
MS/MSD Batch#:	5030085	5030085	5030085	5030085	5030054	5021574
Date Prepared:	3/3/95	3/3/95	3/3/95	3/3/95	3/2/95	3/2/95
Date Analyzed:	3/3/95	3/3/95	3/3/95	3/3/95	3/2/95	3/3/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	SpectrAA-20
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg	50 mg/kg
Matrix Spike % Recovery:	100	100	103	103	-	98
Matrix Spike Duplicate % Recovery:	98	98	103	103	-	96
Relative % Difference:	2.0	2.0	0.0	0.0	-	2.1
LCS Batch#:	1LCS030395	1LCS030395	1LCS030395	1LCS030395	BLK030295	BLK022895
Date Prepared:	3/3/95	3/3/95	3/3/95	3/3/95	3/2/95	3/2/95
Date Analyzed:	3/3/95	3/3/95	3/3/95	3/3/95	3/2/95	3/3/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	SpectrAA-20
LCS % Recovery:	104	102	107	106	96	99
% Recovery Control Limits:	55-145	47-149	47-155	56-140	75-125	75-125

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

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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

Company Name: KEI	Project Name: UNOCAL # 5043 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER RD.
Report To: KEI Sampler: HAIG	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, BTXE, Total Pb, Diesel

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1.	COMP A	3/1/95	SOIL	4	TUBE	5030054 A-D	ADD DIESEL AS PER HAIG 3-2-95 10 3rd AM
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

Relinquished By: [signature]	Date: 3/3/95	Time: 0855	Received By: [signature]	Date: 3/3/95	Time: 0855
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date:	Time:

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

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 #5043, 449 Hegenberger Road, Oakland	Sampled:	Mar 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 9, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	Mar 14, 1995
Attention: Dennis Royce	First Sample #:	503-0464		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 503-0464 Comp B	Sample I.D. 503-0465 Comp C
Purgeable Hydrocarbons	1.0	370	160
Benzene	0.0050	N.D.	N.D.
Toluene	0.0050	N.D.	0.43
Ethyl Benzene	0.0050	N.D.	0.81
Total Xylenes	0.0050	4.6	18
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	50	50
Date Analyzed:	3/10/95	3/10/95
Instrument Identification:	GCHP-18	GCHP-18
Surrogate Recovery, %: (QC Limits = 70-130%)	91	91

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

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 #5043, 449 Hegenberger Road, Oakland	Sampled:	Mar 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 9, 1995
Concord, CA 94520	Analysis Method:	EPA 3550/8015	Reported:	Mar 14, 1995
Attention: Dennis Royce	First Sample #:	503-0464		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 503-0464 Comp B*	Sample I.D. 503-0465 Comp C*
Extractable Hydrocarbons	1.0	150	100
Chromatogram Pattern:		Unidentified Hydrocarbon <C16	Unidentified Hydrocarbon <C16

Quality Control Data

Report Limit Multiplication Factor:	10	10
Date Extracted:	3/9/95	3/9/95
Date Analyzed:	3/10/95	3/10/95
Instrument Identification:	GCHP-5B	GCHP-5B

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

SEQUOIA ANALYTICAL, #1210

Alan B. Kemp
Project Manager

Please Note:
*This sample does not appear to contain diesel. Unidentified hydrocarbons <C16 are probably gasoline.

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 #5043, 449 Hegenberger Road, Oakland	Sampled:	Mar 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Received:	Mar 9, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted:	Mar 9, 1995
Attention: Dennis Royce	First Sample #:	503-0464	Analyzed:	Mar 9, 1995
			Reported:	Mar 14, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
503-0464	Comp B	5.0	6.8
503-0465	Comp C	5.0	6.8

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

SEQUOIA ANALYTICAL, #1210

Alan B. Kemp
Project Manager

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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 #5043, 449 Hegenberger Road, Oakland
Matrix: Solid
QC Sample Group: 5030464-465
Reported: Mar 31, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Analyst:	EC	EC	EC	EC	BA
MS/MSD Batch#:	9502141-7	9502141-7	9502141-7	9502141-7	9503446-1
Date Prepared:	3/10/95	3/10/95	3/10/95	3/10/95	3/9/95
Date Analyzed:	3/10/95	3/10/95	3/10/95	3/10/95	3/10/95
Instrument I.D.#:	GCHP-01	GCHP-01	GCHP-01	GCHP-01	GCHP5A
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg	15 mg/Kg
Matrix Spike % Recovery:	115	115	120	115	45
Matrix Spike Duplicate % Recovery:	105	110	110	112	85
Relative % Difference:	9.1	4.4	8.7	2.9	43
LCS Batch#:	--	--	--	--	BLK030995
Date Prepared:	--	--	--	--	3/9/95
Date Analyzed:	--	--	--	--	3/10/95
Instrument I.D.#:	--	--	--	--	GCHP5A
LCS % Recovery:	--	--	--	--	73
% Recovery Control Limits:	55-145	47-149	47-155	56-140	38-122

SEQUOIA ANALYTICAL, #1210

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 #5043, 449 Hegenberger Road, Oakland
Matrix: Soil
QC Sample Group: 5030464-465
Reported: Mar 31, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Beryllium	Cadmium	Chromium	Nickel
Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	CM	CM	CM	CM
MS/MSD Batch#:	9503276-1	9503276-1	9503276-1	9503276-1
Date Prepared:	3/9/95	3/9/95	3/9/95	3/9/95
Date Analyzed:	3/9/95	3/9/95	3/9/95	3/9/95
Instrument I.D.#:	MTJAZ	MTJAZ	MTJAZ	MTJAZ
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Matrix Spike % Recovery:	99	98	100	91
Matrix Spike Duplicate % Recovery:	99	99	100	101
Relative % Difference:	0.0	1.0	0.0	7.4
LCS Batch#:	BLK030995	BLK030995	BLK030995	BLK030995
Date Prepared:	3/9/95	3/9/95	3/9/95	3/9/95
Date Analyzed:	3/9/95	3/9/95	3/9/95	3/9/95
Instrument I.D.#:	MTJAZ	MTJAZ	MTJAZ	MTJAZ
LCS % Recovery:	100	100	100	100
% Recovery Control Limits:	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL, #1210

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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☐ 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

Company Name: KEI	Project Name: UNOCAL #5043 - OAKLAND
Address: 2401 STANWELL DR. # 400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043-449 HEGENBERGER ROAD
Report To: KEI Sampler: HAIG	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	BTXE	TPH-D	Total Pb						Comments
1. Comp B	3/8/95	SOIL	4	TUBE	503046[4]	✓	✓	✓	✓						
2. Comp C	3/8/95	SOIL	4	TUBE	503045[4] 465	✓	✓	✓	✓						
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: [signature]	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: RB Kelley	Date: 3/9/95	Time: 3:10 pm

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

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#5043, 449 Hegenberger Rd., Oakland	Sampled:	Mar 27, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 28, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	Apr 3, 1995
Attention: Dennis Royce	First Sample #:	503-1365		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 503-1365 Comp D	Sample I.D. 503-1366 Comp E	Sample I.D. 503-1367 Comp F	Sample I.D. 503-1368 Comp G	Sample I.D. 503-1369 Comp H	Sample I.D. 503-1370 Comp I
Purgeable Hydrocarbons	1.0	330	860	1,000	300	400	510
Benzene	0.0050	0.65	3.7	5.2	1.3	1.5	1.2
Toluene	0.0050	9.7	19	22	9.0	11	10
Ethyl Benzene	0.0050	8.1	16	25	7.6	9.3	12
Total Xylenes	0.0050	41	86	110	40	46	72
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	20	100	500	20	25	200
Date Analyzed:	3/30/95	3/31/95	3/31/95	3/30/95	3/30/95	3/31/95
Instrument Identification:	HP-4	HP-5	HP-5	HP-4	HP-4	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	84	74	79	76	79	111

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#5043, 449 Hegenberger Rd.,		Sampled:	Mar 27, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Oakland	Received:	Mar 28, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020		Reported:	Apr 3, 1995
Attention: Dennis Royce	First Sample #:	503-1371			

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 503-1371 Comp J	Sample I.D. 503-1372 Comp K	Sample I.D. 503-1373 Comp L
Purgeable Hydrocarbons	1.0	340	660	520
Benzene	0.0050	0.65	3.5	1.3
Toluene	0.0050	8.6	17	13
Ethyl Benzene	0.0050	7.3	16	12
Total Xylenes	0.0050	40	71	74
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	100	100	200
Date Analyzed:	4/1/95	4/1/95	3/31/95
Instrument Identification:	HP-4	HP-4	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	88	86	113

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

5031365.KEI <2>

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal#5043, 449 Hegenberger Rd., Oakland	Sampled:	Mar 27, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Received:	Mar 28, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted:	Mar 29, 1995
Attention: Dennis Royce	First Sample #:	503-1365	Analyzed:	Mar 29, 1995
			Reported:	Apr 3, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
503-1365	Comp D	2.5	7.7
503-1367	Comp F	2.5	7.7
503-1369	Comp H	2.5	4.7
503-1371	Comp J	2.5	5.3
503-1373	Comp L	2.5	9.4

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

5031365.KEI <5>

Sequoia Analytical

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

Client Project ID: Unocal#5043, 449 Hegenberger Rd., Oakland
Matrix: Soil
QC Sample Group: 5031365-373
Reported: Apr 5, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 Mod	EPA 7420
Analyst:	A. Tuzon	A. Tuzon	A. Tuzon	A. Tuzon	J. Dinsay	T. Le
MS/MSD Batch#:	5031364	5031364	5031364	5031364	5031253	5031364
Date Prepared:	3/30/95	3/30/95	3/30/95	3/30/95	3/29/95	3/29/95
Date Analyzed:	3/30/95	3/30/95	3/30/95	3/30/95	3/29/95	3/29/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	SpectrAA-20
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg	50 mg/kg
Matrix Spike % Recovery:	75	80	83	87	--	93
Matrix Spike Duplicate % Recovery:	78	83	88	89	--	89
Relative % Difference:	3.9	3.7	5.8	2.3	--	4.4
LCS Batch#:	2LCS033095	2LCS033095	2LCS033095	2LCS033095	BLK032995	BLK032995
Date Prepared:	3/30/95	3/30/95	3/30/95	3/30/95	3/29/95	3/29/95
Date Analyzed:	3/30/95	3/30/95	3/30/95	3/30/95	3/29/95	3/29/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	SpectrAA-20
LCS % Recovery:	89	92	96	96	58	89
% Recovery Control Limits:	71-133	72-128	72-130	71-120	38-122	75-125

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

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☒ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
☐ 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

Company Name: KEI	Project Name: UNOCAL #5043 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER ROAD
Report To: KEI Sampler: HAIG	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	BTXE	TPH-D	Total Pb					Comments
1. Comp D	3/27/95	SOIL	4	TUBE		✓	✓	✓	✓		5031365		AD	
2. Comp E			4			✓	✓	✓			5031366			
3. Comp F			4			✓	✓	✓	✓		5031367			
4. Comp G			4			✓	✓	✓			5031368			
5. Comp H			4			✓	✓	✓	✓		5031369			
6. Comp I			4			✓	✓	✓			5031370			
7. Comp J			4			✓	✓	✓	✓		5031371			
8. Comp K			4			✓	✓	✓			5031372			
9. Comp L			4			✓	✓	✓	✓		5031373			
10.														

Relinquished By:	Date: 3/28/95	Time: 0535	Received By:	Date: 3/28/95 Time: 0535
Relinquished By:	Date: 3/29/95	Time: 1105	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 3/28/95 Time: 1605

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment_____ Page __ of __

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#5043, 449 Hegenberger Rd., Oakland	Sampled: Mar 27, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: Mar 28, 1995
Concord, CA 94520	Analysis Method:	EPA 3550/8015	Reported: Apr 3, 1995
Attention: Dennis Royce	First Sample #:	503-1365	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 503-1365 Comp D*	Sample I.D. 503-1366 Comp E*	Sample I.D. 503-1367 Comp F*	Sample I.D. 503-1368 Comp G*	Sample I.D. 503-1369 Comp H*	Sample I.D. 503-1370 Comp I*
Extractable Hydrocarbons	1.0	98	120	200	74	100	160
Chromatogram Pattern:		Unidentified Hydrocarbons <C16 & >C20	Unidentified Hydrocarbons <C16 & >C20	Unidentified Hydrocarbons <C16 & >C20	Unidentified Hydrocarbons <C16 & >C20	Unidentified Hydrocarbons <C16 & >C20	Unidentified Hydrocarbons <C16 & >C20

Quality Control Data

Report Limit Multiplication Factor:	5.0	5.0	5.0	5.0	5.0	5.0
Date Extracted:	3/29/95	3/29/95	3/29/95	3/29/95	3/29/95	3/29/95
Date Analyzed:	3/29/95	3/29/95	3/29/95	3/29/95	3/29/95	3/29/95
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A

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

Please Note:
* This sample does not appear to contain diesel. "Unidentified Hydrocarbons <C16" are probably gasoline; ">C20" refers to unidentified peaks in the total oil and grease range.

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal#5043, 449 Hegenberger Rd., Oakland	Sampled:	Mar 27, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Mar 28, 1995
Concord, CA 94520	Analysis Method:	EPA 3550/8015	Reported:	Apr 3, 1995
Attention: Dennis Royce	First Sample #:	503-1371		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 503-1371 Comp J*	Sample I.D. 503-1372 Comp K*	Sample I.D. 503-1373 Comp L*
Extractable Hydrocarbons	1.0	17	150	120
Chromatogram Pattern:		Unidentified Hydrocarbons <C16 & >C20	Unidentified Hydrocarbons <C16 & >C20	Unidentified Hydrocarbons <C16 & >C20

Quality Control Data

Report Limit Multiplication Factor:	5.0	5.0	5.0
Date Extracted:	3/29/95	3/29/95	3/29/95
Date Analyzed:	3/29/95	3/29/95	3/29/95
Instrument Identification:	HP-3A	HP-3A	HP-3A

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

Please Note:
* This sample does not appear to contain diesel. "Unidentified Hydrocarbons <C16" are probably gasoline; ">C20" refers to unidentified peaks in the total oil and grease range.

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger Rd., Oakland	Sampled:	Apr 10, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Apr 11, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	Apr 14, 1995
Attention: Dennis Royce	First Sample #:	504-0527		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 504-0527 Comp M	Sample I.D. 504-0528 Comp N	Sample I.D. 504-0529 Comp O	Sample I.D. 504-0530 Comp P	Sample I.D. 504-0531 Comp Q	Sample I.D. 504-0532 Comp R
Purgeable Hydrocarbons	1.0	13	250	200	330	310	220
Benzene	0.0050	0.0070	0.64	0.70	1.3	0.74	0.49
Toluene	0.0050	0.053	1.9	1.8	2.7	1.8	1.3
Ethyl Benzene	0.0050	0.17	5.3	3.9	6.7	5.0	3.4
Total Xylenes	0.0050	1.2	28	16	28	26	18
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	20	10	100	100	50
Date Analyzed:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95
Instrument Identification:	HP-2	HP-2	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	127	128	75	74	79	76

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 Alan B. Kemp
Project Manager

5040527.KEI <1>

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger Rd., Oakland	Sampled:	Apr 10, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Apr 11, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	Apr 14, 1995
Attention: Dennis Royce	First Sample #:	504-0533		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 504-0533 Comp S
Purgeable Hydrocarbons	1.0	410
Benzene	0.0050	1.0
Toluene	0.0050	2.4
Ethyl Benzene	0.0050	6.5
Total Xylenes	0.0050	32
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	50
Date Analyzed:	4/12/95
Instrument Identification:	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	85

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 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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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger Rd., Oakland	Sampled:	Apr 10, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received:	Apr 11, 1995
Concord, CA 94520	Analysis Method:	EPA 3550/8015	Reported:	Apr 14, 1995
Attention: Dennis Royce	First Sample #:	504-0527		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 504-0527 Comp M	Sample I.D. 504-0528 Comp N	Sample I.D. 504-0529 Comp O	Sample I.D. 504-0530 Comp P	Sample I.D. 504-0531 Comp Q	Sample I.D. 504-0532 Comp R
Extractable Hydrocarbons	1.0	32	42	32	22	16	40
Chromatogram Pattern:		Diesel and Unidentified Hydrocarbons <C15	Diesel and Unidentified Hydrocarbons <C15	Diesel and Unidentified Hydrocarbons <C15	Diesel and Unidentified Hydrocarbons <C15	Diesel and Unidentified Hydrocarbons <C15	Diesel and Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95
Date Analyzed:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	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

for Alan B. Kemp
Project Manager

5040527.KEI <3>

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 #5043, 449 Hegenberger Rd., Oakland	Sampled: Apr 10, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: Apr 11, 1995
Concord, CA 94520	Analysis Method:	EPA 3550/8015	Reported: Apr 14, 1995
Attention: Dennis Royce	First Sample #:	504-0533	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 504-0533 Comp S
Extractable Hydrocarbons	1.0	45
Chromatogram Pattern:		Diesel and Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	4/12/95
Date Analyzed:	4/12/95
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

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 #5043, 449 Hegenberger Rd., Oakland	Sampled: Apr 10, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Received: Apr 11, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted: Apr 13, 1995
Attention: Dennis Royce	First Sample #:	504-0527	Analyzed: Apr 14, 1995
			Reported: Apr 14, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
504-0527	Comp M	2.5	N.D.
504-0530	Comp P	2.5	7.4
504-0533	Comp S	2.5	6.1

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

SEQUOIA ANALYTICAL, #1271

for Alan B. Kemp
Project Manager

5040527.KEI <5>

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 #5043, 449 Hegenberger Rd., Oakland
Matrix: Solid
QC Sample Group: 5040527-33
Reported: Apr 14, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 M.	EPA 7471
Analyst:	A. Tuzon	A. Tuzon	A. Tuzon	A. Tuzon	J. Dinsay	T. Le
MS/MSD Batch#:	5040540	5040540	5040540	5040540	5040407	5040586
Date Prepared:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95	4/13/95
Date Analyzed:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95	4/14/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3B	SpectrAA-20
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 µg/kg	50 mg/kg
Matrix Spike % Recovery:	78	80	80	83	103	68
Matrix Spike Duplicate % Recovery:	78	78	78	81	110	75
Relative % Difference:	0.0	2.5	2.5	2.4	6.6	9.8
LCS Batch#:	3LCS041295	3LCS041295	3LCS041295	3LCS041295	BLK041295	BLK041395
Date Prepared:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95	4/13/95
Date Analyzed:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95	4/14/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3B	SpectrAA-20
LCS % Recovery:	88	88	88	88	93	91
% Recovery Control Limits:	55-145	47-149	47-155	56-140	38-122	75-125

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

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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

Company Name: KEI	Project Name: UNOCAL #5043 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER RD.
Report To: KEI Sampler: HAIG	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, BTXE, TCLP Pb, TPH-D

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BTXE	TCLP Pb	TPH-D						Comments
1. Comp M	4/10/95	SOIL	4	TUBE	5040527	✓	✓	✓	✓				A-D		
2. Comp N			4		5040528	✓	✓		✓						
3. Comp O			4		5040529	✓	✓		✓						
4. Comp P			4		5040530	✓	✓	✓	✓						
5. Comp Q			4		5040531	✓	✓		✓						
6. Comp R			4		5040532	✓	✓		✓						
7. Comp S			4		5040533	✓	✓	✓	✓						
8.															
9.															
10.															

Relinquished By:	Date: 4/11	Time: 9:55	Received By:	Date: 4-11	Time: 9:55
Relinquished By:	Date: 4/11	Time: 4:30	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 4/11/95	Time: 1630

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment _____ Page __ of __

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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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 #5043, 449 Hegenberger Rd., Oakland	Sampled: May 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Relogged: May 11, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported: May 18, 1995
Attention: Dennis Royce	First Sample #:	505-0701	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 505-0701 Comp T
Purgeable Hydrocarbons	1.0	110
Benzene	0.0050	0.25
Toluene	0.0050	0.59
Ethyl Benzene	0.0050	0.80
Total Xylenes	0.0050	4.6
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	50
Date Analyzed:	5/12/95
Instrument Identification:	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	99

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

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger Rd., Oakland	Sampled: May 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Relogged: May 11, 1995
Concord, CA 94520	Analysis Method:	EPA 3550/8015	Reported: May 18, 1995
Attention: Dennis Royce	First Sample #:	505-0701	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 505-0701 Comp T
Extractable Hydrocarbons	1.0	15
Chromatogram Pattern:		Diesel and Unidentified Hydrocarbons <C15

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	5/16/95
Date Analyzed:	5/17/95
Instrument Identification:	HP-3A

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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Sequoia Analytical

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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 #5043, 449 Hegenberger Rd., Oakland	Sampled:	May 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Relogged:	May 11, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted:	May 15, 1995
Attention: Dennis Royce	First Sample #:	505-0701	Analyzed:	May 16, 1995
			Reported:	May 18, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
505-0701	Comp T	1.0	10

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

5050701.KEI <3>

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 #5043, 449 Hegenberger Rd., Oakland
Matrix: Solid
QC Sample Group: 505-0701

Reported: May 18, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 M	EPA 6010
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	J. Dinsay	K. Anderson
MS/MSD Batch#:	5050364	5050364	5050364	5050364	5050977	5050720
Date Prepared:	5/12/95	5/12/95	5/12/95	5/12/95	5/16/95	5/15/95
Date Analyzed:	5/12/95	5/12/95	5/12/95	5/12/95	5/17/95	5/16/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	Liberty-100
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg	50 mg/kg
Matrix Spike % Recovery:	88	100	103	104	76	80
Matrix Spike Duplicate % Recovery:	88	100	103	104	79	96
Relative % Difference:	0.0	0.0	0.0	0.0	3.9	18
LCS Batch#:	2LCS051295	2LCS051295	2LCS051295	2LCS051295	BLK051695	BLK051595
Date Prepared:	5/12/95	5/12/95	5/12/95	5/12/95	5/16/95	5/15/95
Date Analyzed:	5/12/95	5/12/95	5/12/95	5/12/95	5/17/95	5/16/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	Liberty-100
LCS % Recovery:	75	103	112	113	84	104
% Recovery Control Limits:	55-145	47-149	47-155	56-140	38-122	75-125

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/UNOCAL RELOG SHEET

CLIENT:	KEI	DATE RELOG:	5/11/95
PROJECT ID:	Unocal #5043, Oakland	DATE DUE:	5/12/95
PROJ. MANAGER:	Alan Kemp	DATE SAMP:	5/8/95
DATE REC'D: 5/9/95	MATRIX: Soil	T.A.T.	24h

PREVIOUSLY LOGGED SAMPLES

☐ TAT Change status to: 0

Change status as of Day: 5/11/95 Time: 3:28 PM

4505070 1

☐ CHANGE ANALYSES

Add Analyses ☐

Cancel Analyses ☐

Sequoia Project ID: 0

Sample Number	Analyses
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

SAMPLES ON HOLD

Add analyses

Sample Description	Analyses
Comp T	Gas / Btex; Diesel; Total Pb
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

TAT 24h 5d

Client Authorization (Person/Date/Time): Heig 5/11/95 3:28 PM

Project Manager:

(Please submit to Sample Control with a copy of the COC & log-in sheets)

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) as the report issued within the requested turnaround time? ___Yes ___No If no, what was the turnaround time?

Approved by: Signature: Company:

UNOCAL 76

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

Company Name: KEI	Project Name: UNOCAL #5043 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER RD.
Report To: KEI Sampler: HAIG	QC Data: ☒ Level D (Standard) ❑ Level C ❑ Level B ❑ Level A

Turnaround Time: HOLD ❑ 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	BTXE	TPH-D	Total Pb						Comments
1. CompT	5/8/95	SOIL	4	TUBE		✓	✓	✓	✓			5050701			A-D
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By:	Date: 5/9	Time: 8:55	Received By:	Date: 5/9	Time: 8:55
Relinquished By:	Date: 5/9	Time: 9:10	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 5/9	Time: 9:10

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment _____ Page __ of __

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 #5043, 449 Hegenberger Rd., Oakland	Sampled: May 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: May 9, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported: May 10, 1995
Attention: Dennis Royce	First Sample #:	505-0480	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 505-0480 Comp1*	Sample I.D. 505-0481 Comp2*	Sample I.D. 505-0482 Comp3*
Purgeable Hydrocarbons	1.0	8.5	2.0	2.0
Benzene	0.0050	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	0.014	0.0069	0.013
Total Xylenes	0.0050	0.32	0.031	0.048
Chromatogram Pattern:		Gasoline and Unidentified Hydrocarbons >C9	Gasoline and Unidentified Hydrocarbons >C9	Gasoline and Unidentified Hydrocarbons >C9

Quality Control Data

Report Limit Multiplication Factor:	2.0	1.0	1.0
Date Analyzed:	5/9/95	5/9/95	5/9/95
Instrument Identification:	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	101	110	107

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

Please Note:
* This sample appears to contain gasoline and non-gasoline mixtures. "Unidentified Hydrocarbons >C9" refers to unidentified peaks in the total extractable petroleum hydrocarbons range.

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 #5043, 449 Hegenberger Rd., Oakland	Sampled: May 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, Comp1	Received: May 9, 1995
Concord, CA 94520			Extracted: May 9, 1995
Attention: Dennis Royce	Lab Number:	504-0480	Analyzed: May 10, 1995
			Reported: May 10, 1995

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Lead	2.5	14

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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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 #5043, 449 Hegenberger Rd., Oakland
Matrix: Solid
QC Sample Group: 5050480-482

Reported: May 11, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 7420
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere	T. Le
MS/MSD Batch#:	5041688	5041688	5041688	5041688	5050272
Date Prepared:	5/9/95	5/9/95	5/9/95	5/9/95	5/9/95
Date Analyzed:	5/9/95	5/9/95	5/9/95	5/9/95	5/10/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	SpectrAA-20
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	50 mg/kg
Matrix Spike % Recovery:	98	100	105	108	110
Matrix Spike Duplicate % Recovery:	88	90	95	92	96
Relative % Difference:	11	11	10	16	14
LCS Batch#:	1LCS050995	1LCS050995	1LCS050995	1LCS050995	BLK050995
Date Prepared:	5/9/95	5/9/95	5/9/95	5/9/95	5/9/95
Date Analyzed:	5/9/95	5/9/95	5/9/95	5/9/95	5/10/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	SpectrAA-20
LCS % Recovery:	104	105	111	110	89
% Recovery Control Limits:	55-145	47-149	47-155	56-140	75-125

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

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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

Company Name: KEI	Project Name: UNOCAL #5043 OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043-449 HEGENBERGER RD,
Report To: KEI Sampler: HAIG	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, BTXE, Total Pb

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BTXE	Total Pb	Comments
1.	Comp 1	5/8/95	SOIL	4	TUBE	5050480 A-D	✓	✓	✓	
2.	Comp 2	↓	↓	4	↓	5050481 A-D	✓	✓		
3.	Comp 3	↓	↓	4	↓	5050482 A-D	✓	✓		
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By:	Date: 5-9	Time: 8:55	Received By:	Date: 5-9	Time: 8:55
Relinquished By:	Date: 5-9	Time: 9:10	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 5/9	Time: 9:10

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment_____ Page __ of __

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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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 #5043, 449 Hegenberger, Oakland	Sampled: May 12, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: May 12, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported: May 15, 1995
Attention: Dennis Royce	First Sample #:	505-0769	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 505-0769 Comp 4	Sample I.D. 505-0770 Comp 5	Sample I.D. 505-0771 Comp 6
Purgeable Hydrocarbons	1.0	11	8.4	18
Benzene	0.0050	0.033	0.017	0.075
Toluene	0.0050	N.D.	0.0053	N.D.
Ethyl Benzene	0.0050	0.023	0.068	0.092
Total Xylenes	0.0050	0.17	0.31	0.47
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	5/13/95	5/13/95	5/13/95
Instrument Identification:	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	120	127	135

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

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 #5043, 449 Hegenberger, Oakland
Matrix: Solid
QC Sample Group: 5050769-71

Reported: May 15, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	5050364	5050364	5050364	5050364
Date Prepared:	5/13/95	5/13/95	5/13/95	5/13/95
Date Analyzed:	5/13/95	5/13/95	5/13/95	5/13/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Matrix Spike % Recovery:	100	110	115	116
Matrix Spike Duplicate % Recovery:	98	108	113	113
Relative % Difference:	2.0	1.8	1.8	1.7
LCS Batch#:	1LCS051395	1LCS051395	1LCS051395	1LCS051395
Date Prepared:	5/13/95	5/13/95	5/13/95	5/13/95
Date Analyzed:	5/13/95	5/13/95	5/13/95	5/13/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	99	105	111	103
% Recovery Control Limits:	55-145	47-149	47-155	56-140

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.

UNOCAL 76

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☐ 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

Company Name: KET	Project Name: UNOCAL # 5043 - OAKLAND
Address: 2401 STANWELL DR. # 400	UNOCAL Project Manager: DAVE DE WITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER
Report To: KET Sampler: HAIG	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, BTXE

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1.	Comp 4	5/12/95	SOIL	4	TUBE	5050769	
2.	Comp 5	↓	↓	4	↓	5050770	
3.	Comp 6	↓	↓	4	↓	5050771	
4.							
5.							
6.							
7.							
8.							
9.							
10.							

Relinquished By: [signature]	Date: 5/12/95	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: [signature]	Date: 5-13-95	Time: 1230

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: KET 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 #5043, 449 Hegenberger, Oakland	Sampled: May 12, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Relogged May 16, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted: May 16, 1995
Attention: Dennis Royce	First Sample #:	505-0769	Analyzed: May 17, 1995
			Reported: May 17, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
505-0769	Comp 4	2.5	12
505-0771	Comp 6	0.0	14

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

5050769.KEI <3>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #5043, 449 Hegenberger, Oakland
Matrix: Soil
QC Sample Group: 505-0769

Reported: May 18, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Lead
Method:	EPA 7420
Analyst:	K. Anderson
MS/MSD Batch#:	5050969
Date Prepared:	5/16/95
Date Analyzed:	5/17/95
Instrument I.D.#:	SpectrAA-20
Conc. Spiked:	50 mg/kg
Matrix Spike % Recovery:	84
Matrix Spike Duplicate % Recovery:	78
Relative % Difference:	7.4

LCS Batch#:	BLK051695
Date Prepared:	5/16/95
Date Analyzed:	5/17/95
Instrument I.D.#:	SpectrAA-20
LCS % Recovery:	94
% Recovery Control Limits:	75-125

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/UNOCAL RELOG SHEET

CLIENT:	KEI	DATE RELOG:	5/16/95
PROJECT ID:	Unocal #5043, Oakland	DATE DUE:	5/17/95
PROJ. MANAGER:	Alan Kemp	DATE SAMP:	5/12/95
DATE REC'D: 5/12/95	MATRIX: Soil	T.A.T.	24h

PREVIOUSLY LOGGED SAMPLES

[ ] TAT Change status to: 0

Change status as of Day: 5/16/95 Time: 4:12 PM

[X] CHANGE ANALYSES

Add Analyses [X]

Cancel Analyses [ ]

5051081

5051082

Sequoia Project ID: 9505220

Sample Number	Analyses
5050769	Total Pb
5050771	Total Pb
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

SAMPLES ON HOLD

Add analyses

Sample Description	Analyses
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

TAT 0

Client Authorization (Person/Date/Time): Dennis 5/16/95 4:12 PM

Project Manager:

(Please submit to Sample Control with a copy of the COC & log-in sheets)

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) as the report issued within the requested turnaround time? ___Yes ___No If no, what was the turnaround time?

Approved by: Signature: Company:

UNOCAL 76

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☐ 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 485-5992
☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
☐ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: KET	Project Name: UNOCAL # 5043 - OAKLAND
Address: 2401 STANWELL DR. # 400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 -- 449 HEGENBERGER
Report To: KET Sampler: HAIG	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, BTXE

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1.	Comp 4	5/12/95	SOIL	4	TUBE	5050769	
2.	Comp 5			4		5050770	
3.	Comp 6			4		5050771	
4.							
5.							
6.							
7.							
8.							
9.							
10.							

Relinquished By:	Date: 5/12/95	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 5-12-95	Time: 1230

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

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:

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

Company Name: KET	Project Name: UNOCAL # 5043 - OAKLAND
Address: 2401 STANWELL DR. # 400	UNOCAL Project Manager: DAVE DE WITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER
Report To: KEI Sampler: HAIG	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, BTXE

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BTXE	Comments
1.	Comp 4	5/12/95	SOIL	4	TUBE	5050769	✓	✓	
2.	Comp 5	↓	↓	4	↓	5050770	✓	✓	
3.	Comp 6	↓	↓	4	↓	5050771	✓	✓	
4.									
5.									
6.									
7.									
8.									
9.									
10.									

Relinquished By: [signature] Date: 5/12/95	Time:	Received By:	Date: / Time:
Relinquished By:	Date:	Time:	Received By:	Date: / Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 5-13-95 Time: 1230

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: KEI 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 #5043, 449 Hegenberger, Oakland	Sampled: May 12, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: May 12, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported: May 15, 1995
Attention: Dennis Royce	First Sample #:	505-0769	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 505-0769 Comp 4	Sample I.D. 505-0770 Comp 5	Sample I.D. 505-0771 Comp 6
Purgeable Hydrocarbons	1.0	11	8.4	18
Benzene	0.0050	0.033	0.017	0.075
Toluene	0.0050	N.D.	0.0053	N.D.
Ethyl Benzene	0.0050	0.023	0.068	0.092
Total Xylenes	0.0050	0.17	0.31	0.47
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	5/13/95	5/13/95	5/13/95
Instrument Identification:	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	120	127	135

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

Client Project ID: Unocal #5043, 449 Hegenberger, Oakland
Matrix: Solid
QC Sample Group: 5050769-71

Reported: May 15, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	5050364	5050364	5050364	5050364
Date Prepared:	5/13/95	5/13/95	5/13/95	5/13/95
Date Analyzed:	5/13/95	5/13/95	5/13/95	5/13/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Matrix Spike % Recovery:	100	110	115	116
Matrix Spike Duplicate % Recovery:	98	108	113	113
Relative % Difference:	2.0	1.8	1.8	1.7
LCS Batch#:	1LCS051395	1LCS051395	1LCS051395	1LCS051395
Date Prepared:	5/13/95	5/13/95	5/13/95	5/13/95
Date Analyzed:	5/13/95	5/13/95	5/13/95	5/13/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	99	105	111	103
% Recovery Control Limits:	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Please Note:
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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 #5043, 449 Hegenberger, Oakland	Sampled:	May 12, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Relogged	May 16, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted:	May 16, 1995
Attention: Dennis Royce	First Sample #:	505-0769	Analyzed:	May 17, 1995
			Reported:	May 17, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
505-0769	Comp 4	2.5	12
505-0771	Comp 6	0.0	14

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

5050769.KEI <3>

Sequoia Analytical

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

Client Project ID: Unocal #5043, 449 Hegenberger, Oakland
Matrix: Soil
QC Sample Group: 505-0769
Reported: May 18, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Lead
Method:	EPA 7420
Analyst:	K. Anderson
MS/MSD Batch#:	5050969
Date Prepared:	5/16/95
Date Analyzed:	5/17/95
Instrument I.D.#:	SpectrAA-20
Conc. Spiked:	50 mg/kg
Matrix Spike % Recovery:	84
Matrix Spike Duplicate % Recovery:	78
Relative % Difference:	7.4
LCS Batch#:	BLK051695
Date Prepared:	5/16/95
Date Analyzed:	5/17/95
Instrument I.D.#:	SpectrAA-20
LCS % Recovery:	94
% Recovery Control Limits:	75-125

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Company Name: KET	Project Name: UNOCAL # 5043 - OAKLAND
Address: 2401 STANWELL DR. # 400	UNOCAL Project Manager: DAVE DE WITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER
Report To: KET Sampler: HAIG	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	BTXE	Comments
1.	Comp 4	5/12/95	SOIL	4	TUBE	5050769	✓	✓	
2.	Comp 5	↓	↓	4	↓	5050770	✓	✓	
3.	Comp 6	↓	↓	4	↓	5050771	✓	✓	
4.									
5.									
6.									
7.									
8.									
9.									
10.									

Relinquished By: [signature]	Date: 5/12/95	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: [signature]	Date: 5-13-95	Time: 1230

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

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 #5043, 449 Hegenberger Rd., Oakland	Sampled: Jun 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: Jun 8, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported: Jun 9, 1995
Attention: Dennis Royce	First Sample #:	506-0446	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 506-0446 Comp 7	Sample I.D. 506-0447 Comp 8
Purgeable Hydrocarbons	1.0	93	160
Benzene	0.0050	0.22	0.82
Toluene	0.0050	0.68	3.6
Ethyl Benzene	0.0050	1.3	5.1
Total Xylenes	0.0050	6.2	22
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	20	20
Date Analyzed:	6/8/95	6/8/95
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	98	98

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

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 #5043, 449 Hegenberger Rd., Oakland	Sampled:	Jun 8, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil, Comp 7	Received:	Jun 8, 1995
Concord, CA 94520			Extracted:	Jun 8, 1995
Attention: Dennis Royce	Lab Number:	506-0446	Analyzed:	Jun 9, 1995
			Reported:	Jun 9, 1995

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Lead	2.5	6.2

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

5060446.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 #5043, 449 Hegenberger Rd., Oakland
Matrix: Solid
QC Sample Group: 5060446-447
Reported: Jun 12, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 7420
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	T. Le
MS/MSD Batch#:	5060397	5060397	5060397	5060397	5060421
Date Prepared:	6/8/95	6/8/95	6/8/95	6/8/95	6/9/95
Date Analyzed:	6/8/95	6/8/95	6/8/95	6/8/95	6/9/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	SpectrAA-20
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	100 mg/kg
Matrix Spike % Recovery:	83	93	100	100	105
Matrix Spike Duplicate % Recovery:	85	95	100	100	105
Relative % Difference:	2.4	2.1	0.0	1.0	0.0
LCS Batch#:	LCS060895	LCS060895	LCS060895	LCS060895	BLK060895
Date Prepared:	6/8/95	6/8/95	6/8/95	6/8/95	6/8/95
Date Analyzed:	6/8/95	6/8/95	6/8/95	6/8/95	6/9/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	SpectrAA-20
LCS % Recovery:	103	110	114	114	96
% Recovery Control Limits:	55-145	47-149	47-155	56-140	75-125

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

Company Name: KEI	Project Name: UNOCAL #5043 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER RD.
Report To: KEI Sampler: HAIG	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	BTXE	Total Pb	Comments
1.	Comp 7	6/8/95	SOIL	4	TUBE	5060446	✓	✓	✓	
2.	Comp 8	6/8/95	SOIL	4	TUBE	5060447	✓	✓		
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By: [signature]	Date: 6/8/95	Time: 13:35	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: [signature]	Date: 6/9/95	Time: 13:35

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment _____ Page __ of __

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 #5043, 449 Hegenberger, Oakland	Sampled:	Jul 6, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	STLC Extract of Soil	Relogged:	Jul 7, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted:	Jul 7, 1995
Attention: Dennis Royce	First Sample #:	507-0107	Analyzed:	Jul 10, 1995
			Reported:	Jul 10, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
507-0107	Comp 9	0.050	5.4
507-0108	Comp 10	0.050	5.3

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 #5043, 449 Hegenberger, Oakland
Matrix: STLC Extract of Soil
QC Sample Group: 5070107-108
Reported: Jul 10, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Lead
Method:	EPA 7420
Analyst:	T. Le
MS/MSD Batch#:	5070166
Date Prepared:	7/10/95
Date Analyzed:	7/10/95
Instrument I.D.#:	MV1
Conc. Spiked:	8.0 mg/L
Matrix Spike % Recovery:	96
Matrix Spike Duplicate % Recovery:	96
Relative % Difference:	0.0
LCS Batch#:	BLK070795
Date Prepared:	7/10/95
Date Analyzed:	7/10/95
Instrument I.D.#:	MV1
LCS % Recovery:	81
% Recovery Control Limits:	75-125

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

Please Note:
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SEQUOIA ANALYTICAL/UNOCAL RELOG SHEET

CLIENT:	KEI	DATE RELOG:	7/7/95
PROJECT ID:	Unocal #5043, Oakland	DATE DUE:	7/10/95
PROJ. MANAGER:	Alan Kemp	DATE SAMP:	7/6/95
DATE REC'D: 7/6/95	MATRIX: Soil	T.A.T.	24h

PREVIOUSLY LOGGED SAMPLES

[ ] TAT Change status to: 0

Change status as of Day: 7/7/95 Time: 12:52 PM

[X] CHANGE ANALYSES

Add Analyses [X]

Cancel Analyses [ ]

Sequoia Project ID: 9507032

Sample Number	Analyses
5070107 AD	STLC - Pb ~~TTLC~~
5070108 AD	STLC - Pb
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

5070165 AD

5070166 AD

SAMPLES ON HOLD

Add analyses

Sample Description	Analyses
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

TAT 0

Client Authorization (Person/Date/Time): Dennis 7/7/95 12:52 PM

Project Manager:

(Please submit to Sample Control with a copy of the COC & log-in sheets)

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) as the report issued within the requested turnaround time? ___Yes ___No If no, what was the turnaround time?

Approved by: Signature: Company:

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

Company Name: KEI	Project Name: UNOCAL #5043 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER
Report To: KEI Sampler: HAIG	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, BTXE, Total Pb

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1.	Comp 9	7/6/95	SOIL	4	TUBE	5070107 AD	Relog # 5070105 AD
2.	Comp 10	7/6/95	SOIL	4	TUBE	5070108	↓ 106 AD
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

Relinquished By: [signature]	Date: 7/6/95	Time: 1:30 pm	Received By:	Date: / Time:
Relinquished By:	Date:	Time:	Received By:	Date: / Time:
Relinquished By:	Date:	Time:	Received By Lab: R.J. Kelley	Date: 7/6/95 Time: 1:30 pm

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

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 #5043, 449 Hegenberger, Oakland	Sampled: Jul 6, 1995
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Soil	Received: Jul 6, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jul 7, 1995
Attention: Dennis Royce	First Sample #:	507-0107	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 507-0107 Comp 9	Sample I.D. 507-0108 Comp 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.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	7/6/95	7/6/95
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	102	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

Alan B. Kemp
Project Manager

5070107.KEI <1>

Sequoia Analytical

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5043, 449 Hegenberger, Oakland	Sampled:	Jul 6, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Received:	Jul 6, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted:	Jul 6, 1995
Attention: Dennis Royce	First Sample #:	507-0107	Analyzed:	Jul 7, 1995
			Reported:	Jul 7, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
507-0107	Comp 9	2.5	100
507-0108	Comp 10	2.5	96

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

5070107.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 #5043, 449 Hegenberger, Oakland
Matrix: Solid
QC Sample Group: 5070107-108
Reported: Jul 10, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Tuzon	A. Tuzon	A. Tuzon	A. Tuzon
MS/MSD Batch#:	5070108	5070108	5070108	5070108
Date Prepared:	7/6/95	7/6/95	7/6/95	7/6/95
Date Analyzed:	7/6/95	7/6/95	7/6/95	7/6/95
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:	93	98	100	100
Matrix Spike Duplicate % Recovery:	98	103	103	103
Relative % Difference:	5.2	5.0	3.0	3.0
LCS Batch#:	2LCS070695	2LCS070695	2LCS070695	2LCS070695
Date Prepared:	7/6/95	7/6/95	7/6/95	7/6/95
Date Analyzed:	7/6/95	7/6/95	7/6/95	7/6/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	101	105	107	107
% Recovery Control Limits:	55-145	47-149	47-155	56-140

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 #5043, 449 Hegenberger, Oakland
Matrix: Solid
QC Sample Group: 5070107-108
Reported: Jul 10, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Lead
Method:	EPA 7420
Analyst:	T. Le
MS/MSD Batch#:	5070062
Date Prepared:	7/6/95
Date Analyzed:	7/6/95
Instrument I.D.#:	MV-1
Conc. Spiked:	50 mg/kg
Matrix Spike % Recovery:	88
Matrix Spike Duplicate % Recovery:	108
Relative % Difference:	20
LCS Batch#:	BLK070695
Date Prepared:	7/6/95
Date Analyzed:	7/7/95
Instrument I.D.#:	MV-1
LCS % Recovery:	96
% Recovery Control Limits:	75-125

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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Company Name: KEI	Project Name: UNOCAL #5043 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043 - 449 HEGENBERGER
Report To: KEI Sampler: HAIG	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, BTXE, Total Pb

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BTXE	Total Pb	Comments
1.	Comp 9	7/6/95	SOIL	4	TUBE	5070107 AP	✓	✓	✓	
2.	Comp 10	7/6/95	SOIL	4	TUBE	5070108	✓	✓	✓	
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By: [signature]	Date: 7/6/95	Time: 1:30 pm	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By Lab: R.D. Kelley

Received By:	Date:	Time:	
Received By:	Date:	Time:	
Received By Lab: R.D. Kelley	Date: 7/6/95	Time: 1:30 pm	

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

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 #5043, 449 Hegenberger, Oakland	Sampled: Jul 11, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	Soil	Received: Jul 11, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted: Jul 11, 1995
Attention: Dennis Royce	First Sample #:	507-0336	Analyzed: Jul 11, 1995
			Reported: Jul 11, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
507-0336	Comp R1	2.5	33
507-0337	Comp R2	2.5	37
507-0338	Comp R3	2.5	42
507-0339	Comp R4	2.5	24
507-0340	Comp R5	2.5	27

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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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 #5043, 449 Hegenberger, Oakland
Matrix: Solid
QC Sample Group: 507-0336
Reported: Jul 11, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Lead
Method:	EPA 7420
Analyst:	T.Le
MS/MSD Batch#:	5070336
Date Prepared:	7/11/95
Date Analyzed:	7/11/95
Instrument I.D.#:	MV1
Conc. Spiked:	50 mg/kg
Matrix Spike % Recovery:	148
Matrix Spike Duplicate % Recovery:	76
Relative % Difference:	64
LCS Batch#:	BLK071195
Date Prepared:	7/11/95
Date Analyzed:	7/11/95
Instrument I.D.#:	MV1
LCS % Recovery:	90
% Recovery Control Limits:	75-125

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

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UNOCAL 76

❑ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
❑ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
❑ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600
❑ 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

Company Name: KEI	Project Name: UNOCAL # 5043 - OAKLAND
Address: 2401 STANWELL DR. #400	UNOCAL Project Manager: DAVE DEWITT
City: CONCORD State: CA Zip Code: 94520	Release #:
Telephone: 602-5100 FAX #: 687-0602	Site #: 5043-449 HEGENBERGER
Report To: KEI Sampler: HAIG	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 #	Total Pb	Comments
1.	Comp R1	7/11/95	SOIL	2	TUBE	5070336	✓	
2.	Comp R2			2		5070337	✓	
3.	Comp R3			2		5070338	✓	
4.	Comp R4			2		5070339	✓	
5.	Comp R5			2		5070340	✓	
6.								
7.								
8.								
9.								
10.								

Relinquished By: [signature]	Date: 7/11/95	Time: 12:05	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: 7/11/95	Time: 12:05

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment _____ Page __ of __

To be completed upon receipt of report:

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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 #5043, 449 Hegenberger, Oakland	Sampled:	Jul 11, 1995
2401 Stanwell Dr., Ste. 400	Sample Descript:	STLC Extract of Soil	Relogged:	Jul 20, 1995
Concord, CA 94520	Analysis for:	Lead	Extracted:	Jul 21, 1995
Attention: Dennis Royce	First Sample #:	507-0337	Analyzed:	Jul 24, 1995
			Reported:	Jul 24, 1995

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
507-0337	Comp R 2	0.050	0.098
507-0339	Comp R 4	0.050	N.D.

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 #5043, 449 Hegenberger, Oakland
Matrix: STLC Extract of Soil
QC Sample Group: 50070337-339
Reported: Jul 24, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Lead
Method:	EPA 7420
Analyst:	T. Le
MS/MSD Batch#:	5071182
Date Prepared:	7/21/95
Date Analyzed:	7/24/95
Instrument I.D.#:	MV 1
Conc. Spiked:	2.0 mg/L
Matrix Spike % Recovery:	100
Matrix Spike Duplicate % Recovery:	105
Relative % Difference:	4.9
LCS Batch#:	BLK072195
Date Prepared:	7/21/95
Date Analyzed:	7/24/95
Instrument I.D.#:	MV 1
LCS % Recovery:	87
% Recovery Control Limits:	75-125

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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SEQUOIA ANALYTICAL/UNOCAL RELOG SHEET

CLIENT: KEI
PROJECT ID: Unocal #5043 / Oakland
PROJ. MANAGER: Ken Wimer for Alan Kemp
DATE REC'D: 7/11/95 MATRIX: Soil
DATE RELOG: 7/20/95
DATE DUE: 7/24/95
DATE SAMP: 7/11/95
T.A.T. 48 hour

PREVIOUSLY LOGGED SAMPLES

[X] TAT Change status to: 48 hour
Change status as of Day: 7/20/95 Time: 11:46 AM

[X] CHANGE ANALYSES

Add Analyses [X]
Cancel Analyses [ ]

5071181
5071182

Sequoia Project ID: ?

Sample Number	Analyses
5070337	D.I. STLC Lead 5071181
5070339	D.I. STLC Lead 5071182
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

SAMPLES ON HOLD

Add analyses

Sample Description	Analyses
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

TAT 0

Client Authorization (Person/Date/Time): Dennis Royce 7/20/95 11:46 AM
Project Manager: for ABK 7/20/95

(Please submit to Sample Control with a copy of the COC & log-in sheets)

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Approved by: Signature: Company:

UNOCAL 76

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Sequoia Analytical

Relinquished By: [signature]	Date: 7/11/95	Time: 12:10	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: [signature]	Date: 7/11/95	Time: 12:05

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