

ALCO
HAZMAT

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KAPREALIAN ENGINEERING
INCORPORATED

November 11, 1993

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

Attention: Mr. Jeff Shapiro

RE: Unocal Service Station #6419
6401 Dublin Blvd.
Dublin, California

Dear Mr. Shapiro:

Per the request of Mr. Edward C. Ralston of Unocal Corporation, enclosed please find our reports, all dated October 15, 1993, for the above referenced site.

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

Sincerely,

Kaprealian Engineering, Inc.

Judy A. Dewey

jad\82

Enclosure

cc: Edward C. Ralston, Unocal Corporation



KAPREALIAN ENGINEERING
INCORPORATED

KEI-P93-0401.R4
October 15, 1993

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

Attention: Mr. Edward C. Ralston

RE: Sampling and Disposal of Liquid
from the Septic Tank at
Unocal Service Station #6419
6401 Dublin Boulevard
Dublin, California

Dear Mr. Ralston:

This report summarizes the analytical results of the samples that were collected from the liquid contents of the septic tank at the above referenced site. This report also documents the subsequent disposal of the liquid. The liquid analyses were conducted to comply with the local regulatory agency requirements for proper disposal of the potentially contaminated liquid.

On August 3, 1993, a grab sample of the liquid from a 6,000 gallon underground septic tank was collected to characterize the liquid prior to disposal and removal of the tank. The sample was collected in four one-liter amber bottles (designated as "OTL") that were sealed with Teflon lined screw caps and stored in a cooled ice chest for subsequent delivery to a certified laboratory for analysis. The sample was analyzed by Sequoia Analytical Laboratory in Concord, California, and was accompanied by properly executed Chain of Custody documentation.

On September 7, 1993, a representative of Kaprealian Engineering, Inc. (KEI) returned to the site to collect an additional sample to further characterize the liquid for disposal. One grab sample from the liquid was collected and stored as described above. The sample labeled OTL(1) was analyzed by Sequoia Analytical Laboratory in Redwood City, California, and was accompanied by properly executed Chain of Custody documentation.

The liquid sample OTL was analyzed for total petroleum hydrocarbons as gasoline by EPA method 5030/modified 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020, and total recoverable petroleum oil (TOG) by EPA Standard Methods 5520B&F. The liquid sample OTL(1) was analyzed for fecal coliform bacteria. The results of the liquid analyses are summarized in Table 1.

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October 15, 1993
Page 2

Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

Based on the analytical results of the liquid samples, on September 8, 1993, H&H Environmental Services pumped out and transported approximately 870 gallons of liquid from the septic tank (including rinsate) to their China Basin facility for disposal (Manifest #92220673).

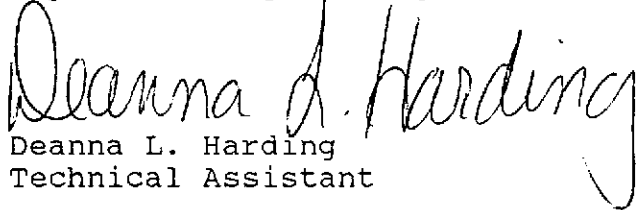
DISTRIBUTION

A copy of this report should be sent to Mr. Jeff Shapiro of the Alameda County Health Care Services (ACHCS) Agency.

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

Sincerely,

Kaprealian Engineering, Inc.


Deanna L. Harding
Technical Assistant

Attachments: Table 1
Laboratory Analyses
Chain of Custody documentation

KEI-P93-0401.R4
October 15, 1993

TABLE 1
SUMMARY OF LABORATORY ANALYSES
LIQUID

<u>Date</u>	<u>Sample</u>	<u>TOG (ppm)</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>Xylenes</u>	<u>Fecal Coliform (MPN/100ml)</u>
8/03/93	OTL	600	1,200	1.2	2.3	ND	5.7	--
9/07/93	OTL(1)	--	--	--	--	--	--	<2.0

ND = Non-detectable.

-- Indicates analysis was not performed.

Results in parts per billion (ppb), unless otherwise indicated.

Environmental Protection Agency
No. 2050-0019 (Expires 9-30-94)

Form designed for use on office (12-pitch) typewriter.

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1

Information in the shaded areas
is not required by Federal law.

CA1D191812101519101919 210161713

of 1

3. Generator's Name and Mailing Address

UNOCAL HAZARDOUS MATERIALS ANALYST
911 Wilshire Blvd., Suite 1010, Los Angeles, CA. 90011

4. Generator's Phone (213) 977-6596

5. Transporter 1 Company Name

6. US EPA ID Number

H & H SHIP SERVICE COMPANY

CA1D101041717111618

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

PRC PATTERSON, INC.

13331 N. Hwy. 33

Patterson, CA. 95363

10. US EPA ID Number

CA1D10181311616171218

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

DIL AND WATER
NON-RCRA HAZARDOUS WASTE LIQUID

0, 0, 1 T T

02300

G

b.

c.

d.

16. Additional Descriptions for Materials Listed Above

DIL AND WATER

PROZELLE 1A2049

17. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

JOB #13242

24 Hr. Emergency Contact: H & H #(415) 543-4835

APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.

JOB SITE: UNOCAL STATION, #6419

6401 Dublin Blvd.

Dublin, California

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignments are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

CLAYTON M PROCTOR

Signature

Clayton M Proctor

Month Day Year

0 | 9 | 0 | 8 | 9 | 3

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

ESTEBAN M. PENALVER

Signature

Esteban M Penalver

Month Day Year

0 | 9 | 0 | 8 | 9 | 3

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Month Day Year

19. Discrepancy Indication Space

Actual Gallons 1891

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Stephen A Pen

Signature

Stephen A Pen

Month Day Year

0 | 9 | 0 | 9 | 9 | 5

DO NOT WRITE BELOW THIS LINE.

Write: TSDF SENDS THIS COPY TO DTSC WITHIN 30
Tel: P.O. Box 3000, Sacramento, CA 95812

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802, WITHIN CALIFORNIA, CALL 1-800-852-7550

0266 88571 11/11/93



SEQUOIA ANALYTICAL

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

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

Client Project ID: Unocal #6419,6401 Dublin Blvd., Dublin
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 308-0181

Sampled: Aug 3, 1993
Received: Aug 3, 1993
Reported: Aug 17, 1993

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 308-0181 OTL*	Sample I.D. Matrix Blank
Purgeable Hydrocarbons	50	1,200	
Benzene	0.5	1.2	
Toluene	0.5	2.3	
Ethyl Benzene	0.5	N.D.	
Total Xylenes	0.5	5.7	

Chromatogram Pattern: Non-Gasoline Mixture (> C8)

Quality Control Data

Report Limit Multiplication Factor:	2.0	1.0
Date Analyzed:	8/10/93	8/10/93
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	83	104

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

SEQUOIA ANALYTICAL

Please Note:

*Non-Gasoline Mixture, > C8, refers to unidentified peaks in the Total Extractable Petroleum Hydrocarbon Range.


Alan B. Kemp
Project Manager



SEQUOIA ANALYTICAL

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(510) 686-9600 • FAX (510) 686-9689

Kaprelian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Unocal #6419,6401 Dublin Blvd., Dublin
Matrix Descript: Water
Analysis Method: SM 5520 B&F (Gravimetric)
First Sample #: 308-0181

Sampled: Aug 3, 1993
Received: Aug 3, 1993
Extracted: Aug 11, 1993
Analyzed: Aug 12, 1993
Reported: Aug 17, 1993

TOTAL RECOVERABLE PETROLEUM OIL

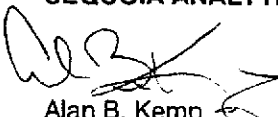
Sample Number	Sample Description	Oil & Grease mg/L (ppm)
308-0181	OTL	600

Detection Limits:

5.0

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

SEQUOIA ANALYTICAL


Alan B. Kemp
Project Manager

3080181.KEI <2>



SEQUOIA ANALYTICAL

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

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

Client Project ID: Unocal #6419,6401 Dublin Blvd., Dublin
Matrix: Water

QC Sample Group: 308-0181

Reported: Aug 17, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl- Benzene	Xylenes	Oil & Grease
	Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.F.	J.F.	J.F.	J.F.	D.Newcomb
Conc. Spiked:	20	20	20	60	100
Units:	µg/L	µg/L	µg/L	µg/L	mg/L
LCS Batch#:	2LCS081093	2LCS081093	2LCS081093	2LCS081093	BLK081293
Date Prepared:	8/10/93	8/10/93	8/10/93	8/10/93	8/12/93
Date Analyzed:	8/10/93	8/10/93	8/10/93	8/10/93	8/12/93
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	N/A
LCS % Recovery:	90	91	90	94	94
Control Limits:	70-130	70-130	70-130	70-130	80-120

MS/MSD					
Batch #:	3080230	3080230	3080230	3080230	BLK081293
Date Prepared:	8/10/93	8/10/93	8/10/93	8/10/93	8/12/93
Date Analyzed:	8/10/93	8/10/93	8/10/93	8/10/93	8/12/93
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	N/A
Matrix Spike % Recovery:	90	95	95	96	94
Matrix Spike Duplicate % Recovery:	90	90	95	96	93
Relative % Difference:	0.0	5.4	0.0	0.0	1.1

SEQUOIA ANALYTICAL

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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Suite 400 Concord, CA 94520 Attention: Mardo Kaprealian, P.E.	Client Project ID: Unocal #6419, Dublin, 6401 Dublin Blvd. Sample Descript: See below Analysis Method: Multiple Tube Technique First Sample #: 3117401	Elap No: 1210 Sampler: Ray Employed By: KEI Reported: Sep 7, 1993
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BACTERIOLOGICAL ANALYSIS: FECAL COLIFORM

Sample Number	Date Sampled and Received	Sample Description	Fecal Coliform Bacteria MPN/100 mL
3117401	9/2/93	OTL (1)	<2.0

SEQUOIA ANALYTICAL


Peggy A. Penner
Project Manager

3117401.KEI <1>

CHAIN OF CUSTODY

SAMPLER <i>RAY</i>		SITE NAME & ADDRESS <i>UNOCAL # 6419</i>						ANALYSES REQUESTED					TURN AROUND TIME: <i>48 HRS</i>		
WITNESSING AGENCY		<i>DUBLIN</i> <i>6401 DUBLIN BLVD</i>						<i>FECAL COLIFORM</i>							REMARKS <i>PRESERVED CONTAINER</i>
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.		SAMPLING LOCATION						
<i>OTL ①</i>	<i>9/2</i>			<i>X</i>	<i>X</i>		<i>1</i>		<i>COH.</i>						
Relinquished by: (Signature) <i>Ray</i>		Date/Time <i>9-2-93</i>		Received by: (Signature) <i>John Miller</i>		Date/Time <i>9-2-93 16:23</i>		The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <i>Yes</i> 2. Will samples remain refrigerated until analyzed? <i>Yes</i> 3. Did any samples received for analysis have head space? <i>N/A</i> 4. Were samples in appropriate containers and properly packaged? <i>Yes</i> <i>Miller</i> Signature <i>Analyst</i> Title <i>9-2-93</i> Date							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time									