



KAPREALIAN ENGINEERING  
INCORPORATED

Date: 09/22/93

*Transmittal Page*

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**TO:** Jeff Shapiro  
Alameda County Health  
(510) 569-4757

**FROM:** Haig Kevork

Number of Pages (Including Cover): 9

**SUBJECT:** UNOCAL SERVICE STATION #6419  
6401 Dublin Boulevard  
Dublin, California

Attached please find the laboratory results of the water samples (WO1 and WO2) that were taken from the tank pit.

Should you have any questions, please feel free to contact me at (510) 602-5100.

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*Should any problems occur in receiving, please call the number listed below.*

2401 Sanwell Drive, Suite 402  
Concord, California 94520  
Tel: 510.602.5100 Fax: 510.687.0802



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 688-9800 • FAX (510) 688-9889

Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedessian	Client Project ID: Unocal 88418, 6451 Dublin Blvd., Dublin Sample Matrix: Water Analysis Method: EPA 8030/8015/8020 First Sample #: 309-0581	Sampled: Sep 14, 1993 Received: Sep 14, 1993 Reported: Sep 21, 1993
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## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 309-0581 W2	Sample I.D. Matrix Blank
Purgeable Hydrocarbons	50	740	
Benzene	0.6	14	
Toluene	0.6	89	
Ethyl Benzene	0.6	13	
Total Xylenes	0.6	75	
Chromatogram Pattern:		Gasoline	

### Quality Control Data

Report Limit Multiplication Factor:	10	1.0
Date Analyzed:	9/17/93	9/17/93
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	101	114

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

SEQUOIA ANALYTICAL

  
Avo Avedessian  
Project Manager

CHAIN OF CUSTODY

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: 0-21-83 : 16:28 :

SENT BY: SEQUOIA-Concord.

SAMPLER <b>Hair's</b>		SITE NAME & ADDRESS <b>Unocal # 6419 - Dublin 6401 Dublin Blvd</b>						ANALYSES REQUESTED <b>TPH-G BTX</b>				TURBIDITY TIME: <b>5 days</b>	
WITNESS/AGENCY												REMARKS	
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAS	CEMP	NO. OF CONT.	SAMPLING LOCATION	TPH-G	BTX			REMARKS
<b>W2</b>	<b>9/14/83</b>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<b>4</b>	<b>Fuel Tank Pit</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>3090561</b>	<b>A-D</b>	<b>Water Sample was collected in four VOA's.</b>
Relinquished by: (Signature) <b>Melissa Cremonesi</b>		Date/Time <b>9/14/83 4:35</b>		Received by: (Signature) <b>Melissa Cremonesi</b>		The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <b>Yes</b> 2. Will samples remain refrigerated until analyzed? <b>Yes</b> 3. Did any samples received for analysis have head space? <b>No</b> 4. Were samples in appropriate containers and properly packaged? <b>Melissa Cremonesi</b> Sample Center Signature Title Date <b>9/14/83</b>							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)									



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 888-8600 • FAX (510) 888-8888

Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avadeselan	Client Project ID: Unocal #8418, 8401 Dublin Blvd., Dublin Sample Matrix: Water Analyte Method: EPA 5030/6015/6020 First Sample #: 309-0440	Sampled: Sep 10, 1993 Received: Sep 10, 1993 Reported: Sep 17, 1993
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## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample ID. 309-0440 W1	Sample ID. Matrix Blank
Purgeable Hydrocarbons	50	2,600	
Benzene	0.5	33	
Toluene	0.5	19	
Ethyl Benzene	0.5	150	
Total Xylenes	0.5	190	

Chromatogram Pattern: Gasoline

### Quality Control Data

Report Limit Multiplication Factor:	10	1.0
Date Analyzed:	9/16/93	9/16/93
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	102	110

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

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Alan C. Kemp  
Project Manager



# SEQUOIA ANALYTICAL

1800 Bates Avenue • Suite LM • Concord, California 94520  
(510) 888-8500 • FAX (510) 888-8888

Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Ava Avedessian	Client Project ID: Unocal 96416, 8401 Dublin Blvd., Dublin Sample Matrix: Water Analyte Method: EPA 3510/3520/8015 First Sample #: 309-0440	Sampled: Sep 10, 1993 Received: Sep 10, 1993 Reported: Sep 17, 1993
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## TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 309-0440 W1*	Sample I.D. Matrix Blank
Extractable Hydrocarbons	60	530	

### Chromatogram Pattern:

~~Diesel~~ &  
Non-Diesel  
Mixture  
(<C16)

### Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	9/14/93	9/14/93
Date Analyzed:	9/16/93	9/17/93
Instrument Identification:	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

  
Alan B. Kemp  
Project Manager

#### Please Note!

\*Non-Diesel Mixture, <C16, refers to unidentified peaks in the Kerosene/Standard Solvent Range.



# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 886-9500 • FAX (510) 886-0689

Kaprealian Engineering, Inc. 2401 Starwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avadessian	Client Project ID: Unocal #5418, 5401 Dublin Blvd., Dublin Matrix Descript: Water Analysis Method: SM 5520 B&F (Gravimetric) First Sample #: 309-0440	Sampled: Sep 10, 1993 Received: Sep 10, 1993 Extracted: Sep 14, 1993 Analyzed: Sep 15, 1993 Reported: Sep 17, 1993
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## TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/L (ppm)
309-0440	W1	N.D.

Detection Limits:

5.0

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

SEQUOIA ANALYTICAL

  
Alan J. Kamp  
Project Manager

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# SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520  
(510) 686-8600 • FAX (510) 686-8689

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avdeyevskan	Client Project ID: Unocal #6418, 8401 Dublin Blvd., Dublin Sample Descript: Water, W1 Analysis Method: EPA 5030/8010 Lab Number: 309-0440	Sampled: Sep 10, 1993 Received: Sep 10, 1993 Analyzed: Sep 18, 1993 Reported: Sep 17, 1993
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## HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropane	0.50	N.D.
trans-1,3-Dichloropropane	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethane	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

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

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Alan B. Kertip  
Project Manager





