

August 11, 1994

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

Attn: Mr. Scott Seery

RE: Unocal Service Station #7004 15599 Hesperian Boulevard San Leandro, California

Dear Mr. Seery:

Per the request of the Unocal Corporation Project Manager, Mr. Adadu Yemane, enclosed please find our report (MPDS-UN7004-03) dated August 11, 1994, for the above referenced site.

Should you have any questions regarding the reporting of data, please feel free to call our office at (510) 602-5120. Any other questions may be directed to the Project Manager at (510) 277-2383.

Sincerely,

MPDS Services, Inc.

Jennifer Diehl

/bp

Enclosure

cc: Mr. Adadu Yemane

MPDS-UN7004-03 August 5, 1994

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

Attention: Mr. Adadu Yemane

RE: Quarterly Data Report

Unocal Service Station #7004 15599 Hesperian Boulevard San Leandro, California

Dear Mr. Yemane:

This data report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site by MPDS Services, Inc.

RECENT FIELD ACTIVITIES

The monitoring wells that were monitored and sampled during this quarter are indicated in Table 1. Prior to sampling, the wells were checked for depth to water and the presence of free product or sheen. The monitoring data and the ground water elevations are summarized in Table 1. The ground water flow direction during the most recent quarter is shown on the attached Figure 1.

Ground water samples were collected on July 8, 1994. Prior to sampling, the wells were each purged of between 7 and 8 gallons of water. Samples were then collected using a clean Teflon bailer. The samples were decanted into clean VOA vials, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. MPDS Services, Inc. transported the purged ground water to the Unocal Refinery located in Rodeo, California, for treatment and discharge to San Pablo Bay under NPDES permit.

ANALYTICAL RESULTS

The ground water samples were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The analytical results of the ground water samples collected to date are summarized in Table 2. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and benzene detected in the ground water samples collected this quarter are shown on the attached Figure 2.

MPDS-UN7004-03 August 5, 1994 Page 2

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

LIMITATIONS

Environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants.

DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Care Services, and to Mr. Michael Bakaldin of the City of San Leandro Fire Department.

If you have any questions regarding this report, please do not hesitate to call at (510) 602-5120.

Sincerely,

MPDS Services, Inc.

Talin Kaloustian Staff Engineer

Joel G. Greger, C.E.G. Senior Engineering Geologist

License No. EG 1633 Exp. Date 8/31/96

/dlh

Attachments: Tables 1 & 2

Location Map Figures 1 & 2

Laboratory Analyses

Chain of Custody documentation

cc: Mr. Timothy R. Ross, Kaprealian Engineering, Inc.



TABLE 1
SUMMARY OF MONITORING DATA

	Ground Water Elevation	Depth to Water	Product Thickness		Water Purged	Total Well Depth
<u> Well #</u>	(feet)	<u>(feet)</u> ◆	_(feet)	Sheen	<u>(qallons)</u>	<u>(feet)∲</u>
contratementalist (contrate)	<i>f</i> ==		n14	T1 0	1004)	
	(Mc	onitored and	Sampled on	oury o,	1334)	
MW1	21.73	14.66	0	No	7	24.20
MW2	21.79	15.28	0	No	7	24.37
MW3	21.59	15.20	0	No	7	24.68
MW4	21.48	13.96	0	No	8	25.64
MW5	21.43	15.38	0	No	8	26.10
MW6	21.58	15.55	0	No	7	25.60
	(Mo	nitored and	Sampled on	April 6	, 1994)	
MW1*	22.20	14.19	0	- -	0	24.17
MW2*	22.24	14.83	0		0	24.36
MW3	22.07	14.72	0	No	7 .	24.67
MW4*	22.00	13.44	0	- -	0	25.61
MW5	21.91	14.90	0	No	8	26.09
MW6*	22.06	15.07	0		0	25.58
	(Mon:	itored and Sa	ampled on J	anuary 1	1, 1994)	
MW1	21.25	15.14	0	No	6.5	24.15
MW2	21.30	15.77	0	No	6	24.34
MW3	21.13	15.66	0	No	6.5	24.65
MW4	21.02	14.42	0	No	8	25.61
MW5	20.97	15.84	0	No	7	26.08
MW6	21.11	16.02	0	No	6.5	25.57
	(Mon	itored and S	sampled on (October	6, 1993)	
1870 (07 50	14 07	0		0	
MW1*	21.52	14.87	0		0	
MW2*	21.58	15.49 15.41	0	No	7	
MW3	21.38	14.17	0		Ó	
MW4*	21.27 21.20	15.61	0	No	. 8	
MW5 MW6*	21.38	15.75	0		0	
TATAA 🔾 👅	21,30	10.10	V		-	

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

Well #	Well Casing Elevation (feet)**
MW1	36.39
MW2	37.07
MW3	36.79
MW4	35.44
MW5	36.81
MW6	37.13

- The depth to water level and total well depth measurements were taken from the top of the well casings.
- * Monitored only.
- ** The elevations of the top of the well casings are relative to Mean Sea Level (MSL), based on the City of San Leandro Benchmark (elevation = 36.04 MSL).
- -- Sheen determination was not performed.

Note: Monitoring data prior to January 11, 1994, were provided by Kaprealian Engineering, Inc.

TABLE 2
SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	Well #	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Ethyl- <u>benzene</u>	<u>Xylenes</u>	MTBE
7/08/94	MW1	ND	ND	ND	ND	ND	
7/00/34	MW2	140*	ND	ND	ND	ND	
	MW3	18,000	2,200	25	2,500	860	
	MW4	ND	ND	ND	ND	ND	
	MW5	200	ND	ND	ND	ND	
	MW6	ND	ND	ND	ND	ND	
	MMO	ND	ND	ND	Ţ1D	112	
4/06/94	MW1	SAMPLED SEM	II-ANNUALLY				
	MW2	SAMPLED SEM	II-ANNUALLY				
	EWM	24,000	3,100	ND	3,300	820	
	MW4	SAMPLED SEM	II-ANNUALLY				
	MW5	260	1.4	ND	0.88	ND	- -
	MW6	SAMPLED SEM	II-ANNUALLY				
1/11/94	MW1	ND	ND	ND	ND	ND	
1, 11, 51	MW2	120*	ND	ND	ND	ND	
	MW3	19,000	3,300	31	3,300	890	
	MW4	ND	ND	ND	ND	ND	
	MW5	160	ND	0.79	0.54	ND	
	MW6	ND	ND	ND	ND	ND	
10/06/93	MW1	SAMPLED SEM	II-ANNUALLY				
10/06/33	MW2		II-ANNUALLY				
	MW3	24,000	4,100	ND	3,600	2,000	ND
			II-ANNUALLY	112	5,000	2,000	
	MW4	150	1.1	ND	3.1	0.85	57
	MW5		II-ANNUALLY	1415	3.1	0.00	
	MW6	SAMPLED SER	11-ANNOALL I				
7/22/93	MW1	ND	ND	ND	ND	ND	77
	MW2	62*	ND	ND	ND	ND	42
	MM3	16,000	4,500	17	3,600	1,900	440
	MW4	ND	ND	ND	ND	ND	54
	MW5	59**	ND	ND	2.6	ND	42
	MW6	ND	ND	ND	ND	ND	ND
4/20/93	MW1						56
&	MW2	***					80
4/23/93	EWM.	18,000	3,700	11	2,300	1,300	410
-, -, ,	MW4						65
	MW5	99*	ND	ND	ND	ND	120
	MW6					- -	ND

TABLE 2 (Continued)
SUMMARY OF LABORATORY ANALYSES

WATER

	** 77 0	TPH as	7	mal	Ethyl-	w.Jawaa	NACTION TO
<u>Date</u>	Well #	Gasoline	<u>Benzene</u>	<u>Toluene</u>	<u>benzene</u>	<u>Xylenes</u>	MTBE
1/21/93	MW1	ND	ND	ND	ND	ND	42
, .	MW2	ND	ND	ND	ND	ND	17
	MW3	12,000	2,800	11	1,600	590	
	MW4	ND	ND	ND	ND	ND	- -
	MW5	100*	ND	ND	ND	ND	160
	MW6	ND	ND	ND	ND	ND	
10/28/92	MW1	SAMPLED SE	MI-ANNUALLY				
	MW2	SAMPLED SE	MI-ANNUALLY				
	MW3	15,000	4,400	15	2,400	800	
	MW4	SAMPLED SE	MI-ANNUALLY				
	MW5	ND	ND	ND	ND	ND	45
	MW6	SAMPLED SE	MI-ANNUALLY				
7/09/92	MW1	70*	ND	ND	ND	ND	130
., .,	MW2	ND	ND	ND	ND	ND	49
	MW3	13,000	3,200	12	1,900	1,100	
	MW4	ND	ND	ND	ND	ND	- -
	MW5	ND	ND	ND	ND	ND	71
	MW6	ND	ND	ND	ND	ND	
4/14/92	MW1	76*	ND	ND	ND	ND	
	MW2	45*	ND	ND	ND	ND	- -
	MW3	16,000	3,400	19	1,400	1,300	
	MW4	ND	ND	ND	ND	ND	
	MW5	86*	ND	ND	ND	ND	
	MW6	ND	ND	ND	ND	ND	
1/14/92	MW1	ND	ND	ND	ND	ND	
	MW2	ND	ND	ND	ND	ND	
	MW3	13,000	6,600	19	2,600	1,800	
	MW4	ND	ND	ND	ND	ND	
	MW5	60*	ND	ND	ND	ND	- -
	MW6	ND	ND	ND	ND	ND	
10/14/91	MW1.	ND	ND	ND	, N D	ND	

ND

6,300

ND

0.72

ND

ND

25,000

ND

140

ND

MW2

EWM

MW4

MW5

MW6

ND

78

ND

ND

ND

ND

2,000

ND

1.3

ND

ND

1,400

ND

0.89

ND

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE
						reference de la companya de la comp	
7/23/91	MW1	ND	ND	ND	ND	ND	
	MW2	ND	ND	ND	ND	ND	
	MW3	17,000	5,500	26	1,800	2,800	
	MW4	ND	ND	ND	ND	ND	
	MW5	260	1.2	0.39	10	0.71	
	MW6	ND	ND	ND	ND	ND	
5/04/91	MWl	ND	ND	ND	ND	ND	
	MW2	ND	ND	ND	ND	ND	
	MW3	34,000	6,100	32	1,200	6,100	

MTBE = Methyl tert butyl ether.

- Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
- ** Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

ND = Non-detectable.

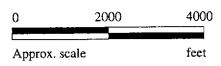
-- Indicates analysis was not performed.

Results are in micrograms per liter ($\mu g/L$), unless otherwise indicated.

Note: Laboratory analyses data prior to January 11, 1994, were provided by Kaprealian Engineering, Inc.



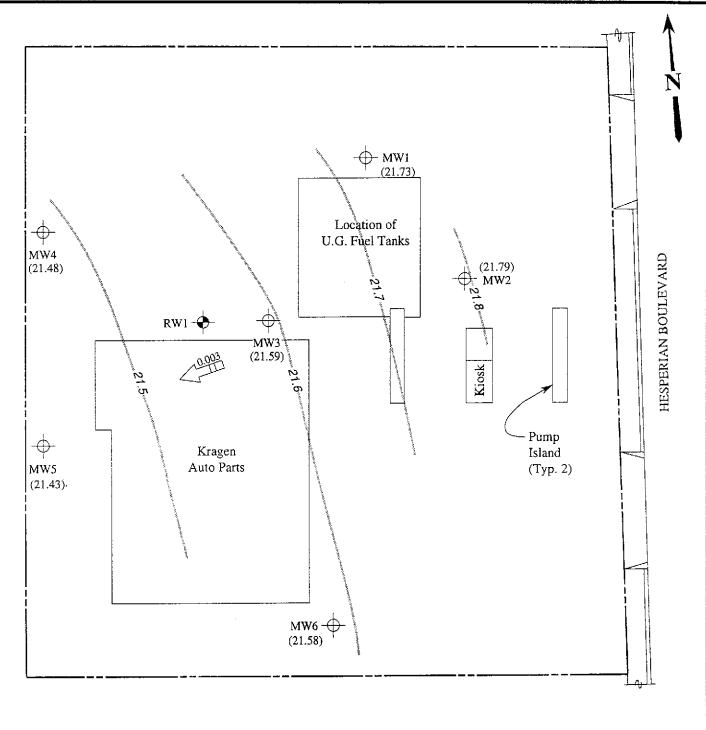
Base modified from 7.5 minute U.S.G.S. Hayward and San Leandro Quadrangles (both photorevised 1980)





UNOCAL SERVICE STATION #7004 15599 HESPERIAN BOULEVARD SAN LEANDRO, CA

LOCATION MAP



LEGEND

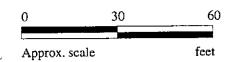
- Monitoring well

- Aquifer testing well

() Ground water elevation in feet above Mean Sea Level

Direction of ground water flow with approximate hydraulic gradient

Contours of ground water elevation

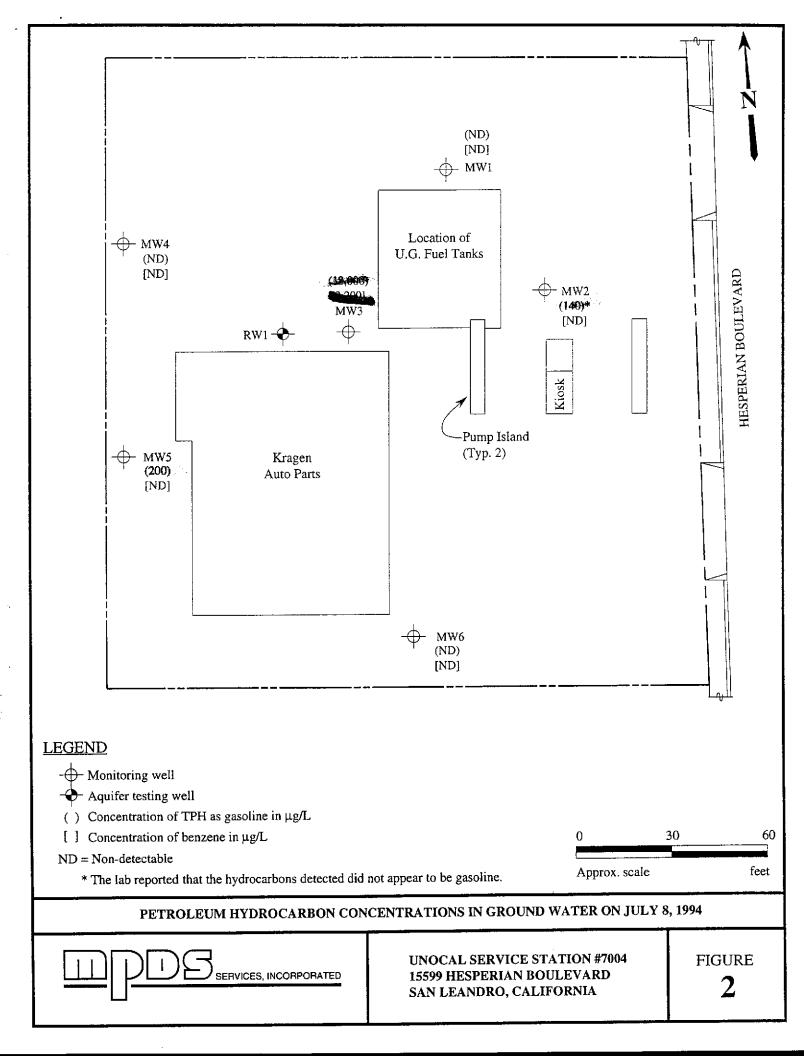


POTENTIOMETRIC SURFACE MAP FOR THE JULY 8, 1994 MONITORING EVENT



UNOCAL SERVICE STATION #7004 15599 HESPERIAN BOULEVARD SAN LEANDRO, CALIFORNIA FIGURE

1





680 Chesapeake Drive 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

): Unocal #7004, 15599 Hesperian Blvd., Sampled: Jul 8, 1994 Water

San Leandro

Received:

Jul 8, 1994

Attention: Avo Avedessian

Matrix Descript: Analysis Method:

EPA 5030/8015/8020

Reported:

Jul 22, 1994

First Sample #: 407-0735

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons μg/L	Benzene μg/L	Toluene μg/L	Ethyl Benzene μg/L	Total Xylenes µg/L
407-0735	MW1	ND	ND	ND	ND	ND
407-0736	MW2	140*	ND	ND	ND	ND
407-0737	мwз	18,000	2,200	25	2,500	860
407-0738	MW4	ND	ND	ND	ND	ND
407-0739	MW5	200	ND	ND	ND	ND
407-0740	MW6	ND	ND	ND	ND	ND

Hydrocarbons detected did not appear to be gasoline.

Detection Limits:	50	0.50	0.50	0.50	0.50	

Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as ND were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp Project Manager





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Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 400

Concord, CA 94520

Client Project ID:

Unocal #7004, 15599 Hesperian Blvd.,

San Leandro

Received:

Sampled: Jul 8, 1994 Jul 8, 1994

Attention: Avo Avedessian

Matrix Descript: Analysis Method: First Sample #:

Water EPA 5030/8015/8020

Reported:

Jul 22, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

407-0735

Sample Number	Sample Description	Chromatogram Pattern	DL Mult. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130%
407-0735	MW1		1.0	7/20/94	HP-2	98
407-0736	MW2	Discrete Peaks*	1.0	7/20/94	HP-4	97
407-0737	MW3	Gasoline	20	7/20/94	HP-4	79
407-0738	MW4	-	1.0	7/21/94	HP-2	101
407-0739	MW5	Gasoline	1.0	7/21/94	HP-4	72
407-0740	MW6		1.0	7/21/94	HP-2	101

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp **Project Manager**





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

MPDS Services

2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedessian

Client Project ID:

Matrix:

Unocal #7004, 15599 Hesperian Blvd., San Leandro

Liqu

QC Sample Group: 4070735-40

Reported:

Jul 2, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	ХуІепез	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	
MS/MSD					
Batch#:	4070736	4070736	4070736	4070736	
Date Prepared:	7/20/94	7/20/94	7/20/94	7/20/94	
Date Analyzed:	7/20/94	7/20/94	7/20/94	7/20/94	
nstrument I.D.#:	HP-4	HP-4	HP-4	HP-4	
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	
Matrix Spike					
% Recovery:	90	95	90	93	
Matrix Spike					
Duplicate %					
Recovery:	85	90	90	93	
Relative %					
Difference:	5.7	5.4	0.0	0.0	

LCS Batch#:	2LCS072094	2LCS072094	2LCS072094	2LCS072094	
Date Prepared:	7/20/94	7/20/94	7/20/94	7/20/94	
Date Analyzed:	7/20/94	7/20/94	7/20/94	7/20/94	
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	
LCS %					
Recovery:	89	91	92	94	
% Recovery Control Limits:	71-133	72-128	72-130	71-120	

SEQUOIA ANALYTICAL, #1271

Signature on File

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.





680 Chesapeake Drive 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID: Matrix:

Unocal #7004, 15599 Hesperian Blvd., San Leandro Liquid

Attention: Avo Avedessian

QC Sample Group: 4070735-40

Reported:

Jul 2, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	
MS/MSD					
Batch#:	4070651	4070651	4070651	4070651	
Date Prepared:	7/21/94	7/21/94	7/21/94	7/21/94	
Date Analyzed:	7/21/94	7/21/94	7/21/94	7/21/94	
nstrument I.D.#:	HP-2	HP-2	HP-2	HP-2	
Conc. Spiked:	20 μg/L	20 μg/L	20 μ g /L	60 μg/L	
Matrix Spike					
% Recovery:	105	105	105	107	
Matrix Spike					
Duplicate %					
Recovery:	105	100	100	105	
Relative %			•		
Difference:	0.0	4.9	4.9	1.9	

LCS Batch#:	1LCS072194	1LCS072194	1LCS072194	1LCS072194		
Date Prepared:	7/21/94	7/21/94	7/21/94	7/21/94		
Date Analyzed:	7/21/94	7/21/94	7/21/94	7/21/94		
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2		
LCS %						
Recovery:	97	96	96	98		
% Recovery			70.400	74.400	 	
Control Limits:	71-133	72-128	72-130	71-120	 	

SEQUOIA ANALYTICAL, #1271

Signature on File

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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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedessian

Unocal #7004, 15599 Hesperian Blvd., San Leandro Client Project ID:

Liquid Matrix:

QC Sample Group: 4070735-40

Reported:

Jul 2, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	
MS/MSD					
Batch#:	4070996	4070996	4070996	4070996	
Date Prepared:	7/21/94	7/21/94	7/21/94	7/21/94	
Date Analyzed:	7/21/94	7/21/94	7/21/94	7/21/94	
nstrument l.D.#:	HP-4	HP-4	HP-4	HP-4	
Conc. Spiked:	20 μg/L	20 μg/L	$20\mu\mathrm{g/L}$	60 μg/L	
Matrix Spike					
% Recovery:	90	92	92	95	
Matrix Spike Duplicate %					
Recovery:	95	97	97	98	
Relative %					
Difference:	5.4	5.3	5.3	3.1	

LCS Batch#:	2LCS072194	2LCS072194	2LCS072194	2LCS072194		
Date Prepared:	7/21/94	7/21/94	7/21/94	7/21/94		
Date Analyzed:	7/21/94	7/21/94	7/21/94	7/21/94		
Instrument i.D.#:	HP-4	HP-4	HP-4	HP-4		
LCS %						
Recovery:	92	94	95	98		
% Recovery						
Control Limits:	71-133	72-128	72-130	71-120		

SEQUOIA ANALYTICAL, #1271

Signature on File

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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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

Unocal #7004, 15599 Hesperian Blvd., San Leandro

Matrix:

Liquid

Attention: Avo Avedessian

QC Sample Group: 4070735-40

Reported:

Jul 2, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	
MS/MSD					
Batch#:	4070481	4070481	4070481	4070481	
Date Prepared:	7/19/94	7/19/94	7/19/94	7/19/94	
Date Analyzed:	7/19/94	7/19/94	7/19/94	7/19/94	
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	
Conc. Spiked:	20 μg/L	20 μg/L	$20\mu\mathrm{g/L}$	60 μg/L	
Matrix Spike					
% Recovery:	105	100	90	102	
Matrix Spike					
Duplicate %					
Recovery:	100	90	75	95	
Relative %					
Difference:	4.9	11	18	7.1	

1LC\$072094	1LCS072094	1LCS072094	1LCS072094			
7/20/94	7/20/94	7/20/94	7/20/94			
7/20/94	7/20/94	7/20/94	7/20/94			
HP-2	HP-2	HP-2	HP-2			
99	98	98	100			
	· · · · · · · · · · · · · · · · · · ·					
	7/20/94 7/20/94 HP-2	7/20/94 7/20/94 7/20/94 7/20/94 HP-2 HP-2	7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 HP-2 HP-2 HP-2	7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 HP-2 HP-2 HP-2 HP-2	7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 HP-2 HP-2 HP-2 HP-2	7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 7/20/94 HP-2 HP-2 HP-2 HP-2

SEQUOIA ANALYTICAL, #1271

Signature on File

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.



M P D S Services, Inc.

2401 Stanwell Drive, Suite 400, Concord, CA 94520 Tel: (510) 602-5120 Fax: (510) 689-1918

CHAIN OF CUSTODY

SAMPLER	V MADANGO		UNOCAL S/S # 100 4 CITY: SAN LEANDRE					ANALYSES REQUESTED								TURN AROUND TIME:
WITNESSING AGENCY	RAY MARANGOSIAN				UNOCAL S/S # 100 4 CITY: SAN LEANDRO ADDRESS: 15599 HESPERAN BLU WATER GRAB COMP NO. OF CONT. SAMPLING LOCATION					U	, 0					KEBULAR
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	СОМР	NO. OF CONT.	SAMPLING LOCATION	TPH BTE	TPH-DIESEL	TOG	8010					REMARKS
MWI	7-8.94	9:15	7	×		2	well	Y								4070735 /
MWZ	4	11:25	7	ャ		и	ч	K						<u> </u>		4070736
MW3	9	12:40	×	x		ц	4	×								4070737
MWY	4	9:50	R	X		4	п	7								4070738
mw5	4	11:50	×	x		и	4	×						ļ		4070739
MW6	4	N:40	*	<i>y</i> C		n	4	×				ļ				4070740
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				<u> </u>						<u> </u>						
RELIN	OUISHED BY:	1	13	3: \(ATE/TII) ME.	RECEIV	'ED BY:	1. HAVE	ALL SAMP	,				RATORY AC		SAMPLES FOR ANALYSES:
Kay Ma	ranger	iau	1,7-	8-	4/4	(SIGNATURE)		2. WILL S	LLS AMPLES F	EMAIN REI	RIGERATE	D UNTIL AI	VALYZED?			· · · · · · · · · · · · · · · · · · ·
(SIGNATURE)	GNATURE) (SIGNATURE)						3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE?									
(SIGNATURE)					-	(SIGNATURE)	SAMPLES	IN APPROP	PILATE CON	ITAINERS /	AND PROPI	ERLY PACK	AGED?			
(SIGNATURE)						ISIGNATURE)		SIGNATURE DATE: TITLE: DATE: TROUMDY 78							ATE: つるイイ	
(SIGNATURE)	Lita A	0	71194		Rece	ISIGNATURE)	/ 72	<u> </u>	U/E/		will de		itle: =\ma	W/24		ATE: PBPH , PFT DAG