

MPDS-UN7376-09
April 10, 1997

Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, California 94583

Attention: Ms. Tina R. Berry

RE: Quarterly Data Report
Unocal Service Station #7376
4191 First Street
Pleasanton, California

Dear Ms. Berry:

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 March 7, 1997. Prior to sampling, the wells were each purged of between 8 and 13.5 gallons of water. During purging operations, the field parameters pH, temperature, and electrical conductivity were recorded on the purging/sampling data sheets which are attached to this report. Once the field parameters were observed to stabilize, and where possible, a minimum of approximately three casing volumes had been removed from each well, samples were then collected using a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. ~~MPDS Services, Inc.~~ transported the purged ground water to the Tosco 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, TPH as diesel, and benzene detected in the ground water samples collected this quarter are shown on the attached Figure 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 Mr. Scott Seery of the Alameda County Health Care Services Agency.

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

Sincerely,

MPDS Services, Inc.



Haig (Gary) Tejrjian
Senior Staff Geologist



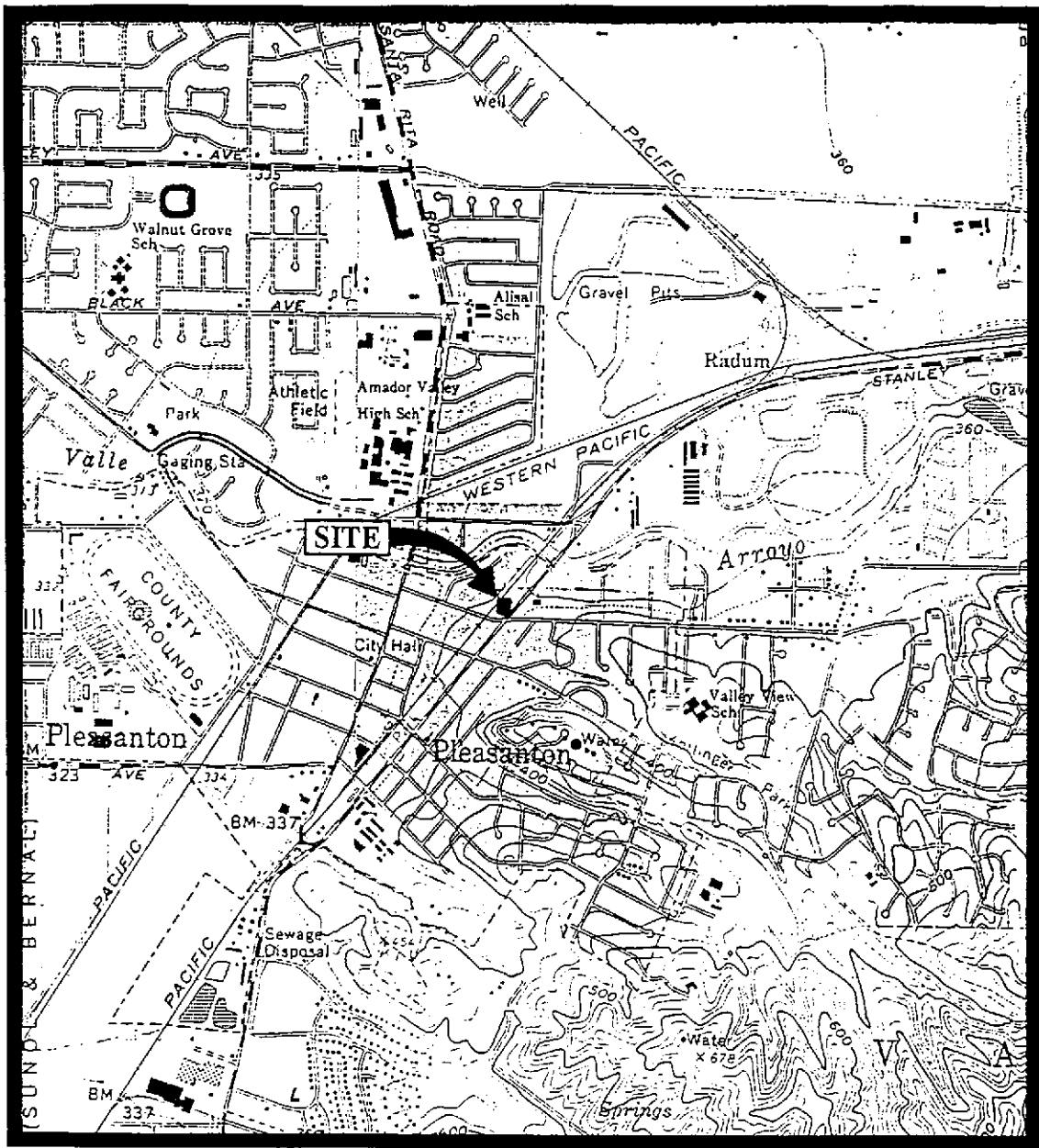
Hagop Kevork, P.E.
Senior Staff Engineer



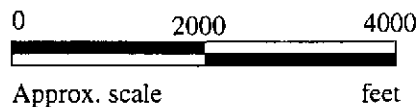
License No. C55734
Exp. Date December 31, 2000

- Attachments: Tables 1 & 2
Location Map
Figures 1 & 2
Laboratory Analyses
Chain of Custody documentation
Purging/Sampling Data Sheets

cc: Mr. Robert H. Kezerian, Kaprealian Engineering, Inc.



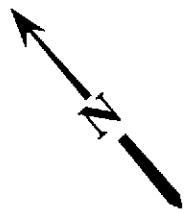
Base modified from 7.5 minute U.S.G.S. Dublin and Livermore Quadrangles
(both photorevised 1980)



mpds SERVICES, INCORPORATED

**UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA**

**LOCATION
MAP**



MW5
(306.93)*

Existing Building

U.G. Fuel Tanks

MW2B
(295.38)

Planter

MW1
(295.50)

(295.43)
MW3

Pump

MW6
(295.51)

Islands

296

297

298

Existing Building

299

Retaining Wall

MW4
(300.99)

Pump

Islands

300

RAY STREET

1ST STREET

Approximate Location of Former Railroad Tracks (Southern Pacific)

Approximate Location of Underground Petroleum Pipeline (Santa Fe)

LEGEND

⊕ Monitoring well

() Ground water elevation
in feet above Mean Sea Level

→ Direction of ground water flow
with approximate hydraulic gradient

— Contours of ground water elevation

* Elevation was not used to calculate contours

POTENTIOMETRIC SURFACE MAP FOR THE MARCH 7, 1997 MONITORING EVENT



UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

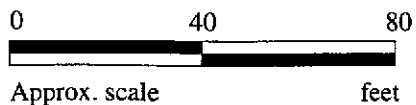
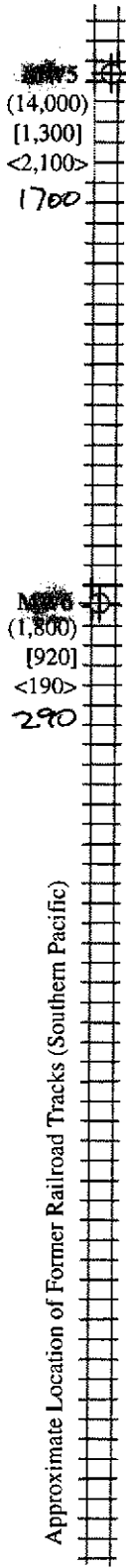
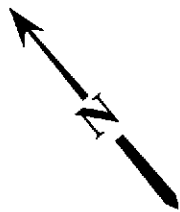


FIGURE
1



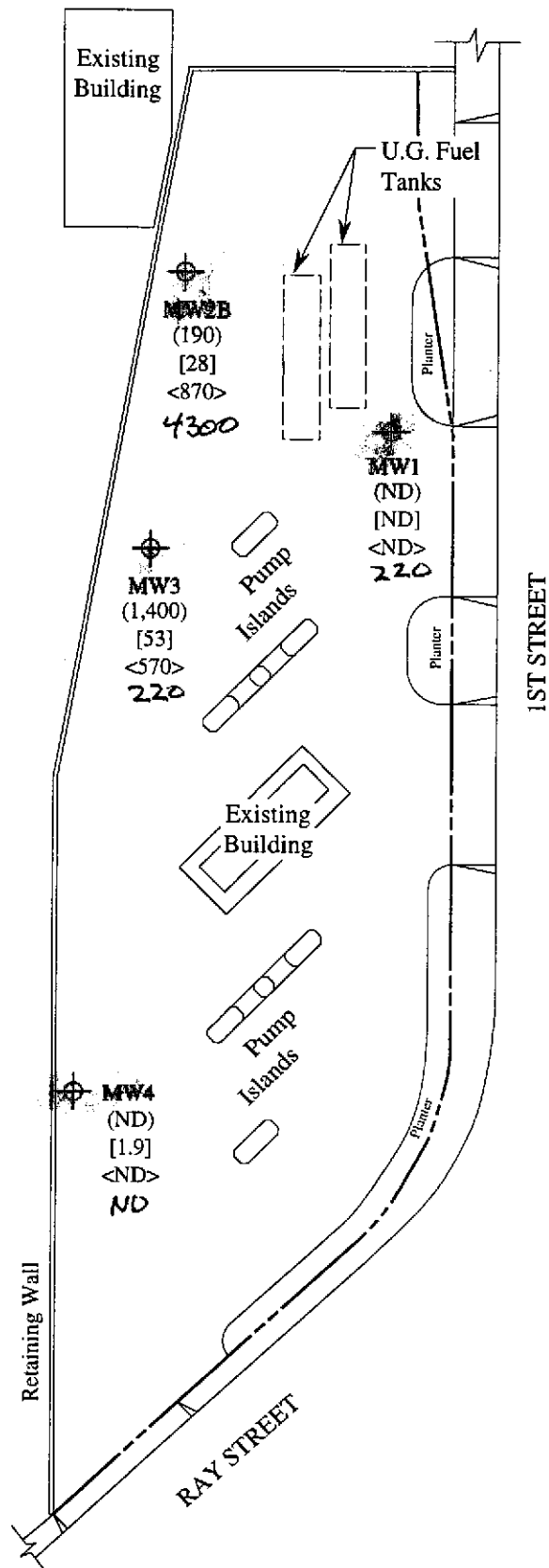
Approximate Location of Former Railroad Tracks (Southern Pacific)

Approximate Location of Underground Petroleum Pipeline (Santa Fe)

MEBE

LEGEND

- ⊕ Monitoring well
- () Concentration of TPH as gasoline in $\mu\text{g/L}$
- [] Concentration of benzene in $\mu\text{g/L}$
- < > Concentration of TPH as diesel in $\mu\text{g/L}$
- ND Non-detectable



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON MARCH 7, 1997



UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

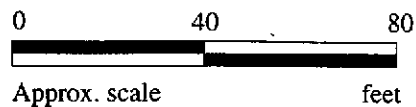


FIGURE
2

Table 1
Summary of Monitoring Data

Well #	Ground Water Elevation (feet)	Depth to Water (feet)*	Total Well Depth (feet)*	Product Thickness (feet)	Seen	Water Purged (gallons)
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(Monitored and Sampled on March 7, 1997)

MW1	295.50	71.49	86.40	0	No	8
MW2B	295.38	69.67	85.25	0	Yes	8
MW3	295.43	71.58	94.09	0	No	12
MW4	300.99	68.04	94.95	0	No	13.5
MW5	306.93	56.30	72.59	0	Yes	9
MW6	295.51	67.61	88.09	0	No	11

(Monitored and Sampled on December 21, 1996)

MW1	288.03	78.96	86.43	0	No	4
MW2B	287.70	77.35	85.29	0	No	4.5
MW3	287.72	79.29	94.15	0	No	8
MW4	291.34	77.69	93.10	0	No	8
MW5	301.46	61.77	72.55	0	Yes	5.5
MW6	287.72	75.40	88.02	0	No	6.5

(Monitored and Sampled on September 18, 1996)

MW1	287.09	79.90	86.39	0	No	3.5
MW2B	283.97	81.08	85.25	0	No	2.5
MW3	284.17	82.84	94.10	0	No	6
MW4	295.36	73.67	94.99	0	No	13
MW5	299.03	64.20	72.58	0	No	5.5
MW6	284.05	79.07	88.09	0	No	6

(Monitored and Sampled on June 15, 1996)

MW1	291.92	75.07	86.40	0	No	8
MW2B	291.84	73.21	85.25	0	No	8.5
MW3	291.88	75.13	94.09	0	No	13

Well #	Well Casing Elevation (feet)*
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MW1	366.99
MW2B	365.05
MW3	367.01
MW4	369.03
MW5	363.23
MW6	363.12

Table 1
Summary of Monitoring Data

- ◆ The depth to water level and total well depth measurements were taken from the top of the well casings.
- * The elevations of the top of the well casings were surveyed relative to City of Pleasanton Benchmark V1, a brass disk on the north curb of Ray Street, approximately 200 feet northwest of the centerline of First Street (elevation = 367.17 feet Mean Sea Level).

Table 2
 Summary of Laboratory Analyses
 Water

Well #	Date	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE
MW1	12/8/87*	2,100**	50♦	58	8	ND	10	--
	12/7/94	--	ND	ND	ND	ND	ND	--
	3/1/95	120	ND	ND	1.1	ND	1.3	--
	6/1/95	54††	130	1.0	2.9	0.79	4.5	--
	9/6/95	690	ND	ND	ND	ND	ND	§
	12/12/95	190††	ND	ND	ND	ND	ND	--
	3/1/96	56	ND	ND	ND	ND	ND	370
	6/15/96	ND	ND	ND	ND	ND	ND	200
	9/18/96	130††	ND	ND	ND	ND	ND	200
	12/21/96	ND	ND	ND	ND	ND	ND	150
3/7/97	ND	ND	ND	ND	ND	ND	200	
MW2	12/8/87	620**	1,800♦	910	800	260	1,200	--
	12/7/94	WELL WAS DAMAGED						
	2/7/95	WELL WAS DESTROYED						
MW2B	3/1/95	320	ND	ND	ND	ND	ND	--
	6/1/95	280	350	19	5.8	ND	7.7	--
	9/6/95	ND	ND	90	ND	ND	ND	§
	12/12/95	850†	1,200	630	ND	15	57	§§
	3/1/96	870†	1,000	620	ND	ND	5.3	§§
	6/15/96	420	910	350	ND	ND	ND	§§
	9/18/96	600	1,200	95	ND	ND	ND	§§
	12/21/96	470	330‡	57	ND	ND	ND	§§
3/7/97	870†	190	28	0.64	ND	1.5	§§	
MW3	12/8/87	2300**	24,000♦	2,600	1,300	160	660	--
	12/7/94	--	ND	ND	ND	ND	ND	--
	3/1/95	140†	ND	ND	1.1	ND	1.1	--
	6/1/95	140††	62	7.8	0.90	ND	1.6	--
	9/6/95	880††	4,100	380	490	130	710	§
	12/12/95	3,100†	19,000	600	380	2,100	5,300	§§
	3/1/96	1,500††	3,400	950	3.2	1,900	290	59
	6/15/96	400†	780	190	8.8	3.8	4.0	630
	9/18/96	170	2,800	340	12	11	110	§§
	12/21/96	64†	51	1.3	ND	ND	0.53	§§
3/7/97	570†	1,400	53	14	29	68	§§	
MW4	9/18/96	200	160	14	ND	ND	1.6	ND
	12/21/96	ND	ND	ND	ND	ND	ND	ND
	3/7/97	ND	ND	1.9	0.99	ND	1.5	ND

Table 2
 Summary of Laboratory Analyses
 Water

Well #	Date	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE
MW5	9/18/96	4,700††	36,000	6,700	410	730	6,500	ND
	12/21/96	4,700†	25,000	3,200	300	780	3,600	ND
	3/7/97	2,100†	14,000	1,300	120	410	1,200	ND
MW6	9/18/96	ND	160	5.4	ND	ND	ND	ND
	12/21/96	ND	300‡	96	1.3	ND	1.7	21
	3/7/97	190†	1,800‡	920	18	ND	31	ND

- * 1,2 - Dichloroethene was detected at a concentration of 18 µg/L.
- ** Reported as Total Extractable Hydrocarbons (TEH).
- ◆ Reported as Total Petroleum Hydrocarbons (TPH).
- † Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- †† Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.
- ‡ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- § Sequoia Analytical Laboratory has potentially identified the presence of MTBE at reportable levels in the ground water sample collected from this well.
- §§ Sequoia Analytical Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 µg/L in the sample collected from this well.

MTBE = Methyl tert butyl ether.

ND = Non-detectable.

-- Indicates analysis was not performed.

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

Note: The detection limit for results reported as ND by Sequoia Analytical Laboratory is equal to the stated detection limit times the dilution factor indicated on the laboratory analytical sheets.

Prior to August 1, 1995, the total purgeable petroleum hydrocarbon (TPH as gasoline) quantification range used by Sequoia Analytical Laboratory was C4 - C12. Since August 1, 1995, the quantification range used by Sequoia Analytical Laboratory is C6 - C12.

Laboratory analyses data prior to March 1, 1995 were provided by Kaprealian Engineering, Inc.



MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #7376, 4191-1st St., Pleasanton Matrix Descript: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 703-0724	Sampled: Mar 7, 1997 Received: Mar 7, 1997 Reported: Mar 24, 1997
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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
703-0724	MW-1	ND	ND	ND	ND	ND
703-0725	MW-2B	190	28	0.64	ND	1.5
703-0726	MW-3	1,400	53	14	29	68
703-0727	MW-4	ND	1.9	0.99	ND	1.5
703-0728	MW-5	14,000	1,300	120	410	1,200
703-0729	MW-6	1,800 [^]	920	18	ND	31

[^] Hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

Detection Limits:	50	0.50	0.50	0.50	0.50
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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





MPDS Services	Client Project ID: Unocal #7376, 4191-1st St., Pleasanton	Sampled: Mar 7, 1997
2401 Stanwell Dr., Ste. 300	Matrix Descript: Water	Received: Mar 7, 1997
Concord, CA 94520	Analysis Method: EPA 5030/8015 Mod./8020	Reported: Mar 24, 1997
Attention: Jarrel Crider	First Sample #: 703-0724	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Chromatogram Pattern	DL Mult. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130
703-0724	MW-1	--	1.0	3/13/97	HP-4	106
703-0725	MW-2B	Gasoline	1.0	3/13/97	HP-4	103
703-0726	MW-3	Gasoline	10	3/13/97	HP-4	101
703-0727	MW-4	--	1.0	3/13/97	HP-4	102
703-0728	MW-5	Gasoline	200	3/13/97	HP-4	104
703-0729	MW-6	Gasoline & Unidentified Hydrocarbons <C7^	10	3/14/97	HP-4	108

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Please Note:
^ "Unidentified Hydrocarbons <C7" refers to unidentified peaks in the EPA 8010 range.





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #7376, 4191-1st St., Pleasanton
Sample Descript: Water
Analysis for: MTBE (Modified EPA 8020)
First Sample #: 703-0724

Sampled: Mar 7, 1997
Received: Mar 7, 1997
Analyzed: Mar 13-14, 97
Reported: Mar 24, 1997

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L
703-0724	MW-1	5.0	220
703-0725	MW-2B	50	4,300
703-0726	MW-3	25	220
703-0727	MW-4	25	N.D.
703-0728	MW-5	500	1,700
703-0729	MW-6	25	290

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #7376, 4191-1st St., Pleasanton Sample Matrix: Water Analysis Method: EPA 3510/8015 Mod. First Sample #: 703-0724	Sampled: Mar 7, 1997 Received: Mar 7, 1997 Reported: Mar 24, 1997
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TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 703-0724 MW-1	Sample I.D. 703-0725 MW-2B [^]	Sample I.D. 703-0726 MW-3 [^]	Sample I.D. 703-0727 MW-4	Sample I.D. 703-0728 MW-5 [^]	Sample I.D. 703-0729 MW-6 [^]
Extractable Hydrocarbons	50	N.D.	870	570	N.D.	2,100	190
Chromatogram Pattern:		--	Diesel & Unidentified Hydrocarbons >C20	Diesel & Unidentified Hydrocarbons <C15 >C20	--	Diesel & Unidentified Hydrocarbons <C15 >C20	Diesel & Unidentified Hydrocarbons <C15 >C20

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	3/13/97	3/13/97	3/13/97	3/13/97	3/13/97	3/13/97
Date Analyzed:	3/14/97	3/14/97	3/14/97	3/14/97	3/14/97	3/14/97
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

Signature on File
 Alan B. Kemp
 Project Manager

Please Note:
[^] This sample appears to contain diesel and non-diesel mixtures. "Unidentified Hydrocarbons <C15" are probably gasoline; ">C20" refers to unidentified peaks in the total oil and grease range.





MPDS Services
 2401 Stanwell Dr., Ste. 300
 Concord, CA 94520
 Attention: Jarrel Crider

Client Project ID: Unocal #7376, 4191-1st St., Pleasanton
 Matrix: Liquid

QC Sample Group: 7030724-729

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Sharma

MS/MSD Batch#:	7030690	7030690	7030690	7030690	BLK031397
Date Prepared:	3/13/97	3/13/97	3/13/97	3/13/97	3/13/97
Date Analyzed:	3/13/97	3/13/97	3/13/97	3/13/97	3/14/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Matrix Spike % Recovery:	90	95	95	95	90
Matrix Spike Duplicate % Recovery:	90	95	95	95	90
Relative % Difference:	0.0	0.0	0.0	0.0	0.0

LCS Batch#:	4LCS031397	4LCS031397	4LCS031397	4LCS031397	LCS031397
Date Prepared:	3/13/97	3/13/97	3/13/97	3/13/97	3/13/97
Date Analyzed:	3/13/97	3/13/97	3/13/97	3/13/97	3/14/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A
LCS % Recovery:	90	95	95	97	107

% Recovery Control Limits:	60-140	60-140	60-140	60-140	60-140
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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, #1271

Signature on File

Alan B. Kemp
 Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #7376, 4191-1st St., Pleasanton
Matrix: Liquid

QC Sample Group: 7030724-729

Reported: Mar 27, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes
Batch#:	7030466	7030466	7030466	7030466
Date Prepared:	3/14/97	3/14/97	3/14/97	3/14/97
Date Analyzed:	3/14/97	3/14/97	3/14/97	3/14/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	90	95	95	98
Matrix Spike Duplicate % Recovery:	90	95	95	98
Relative % Difference:	0.0	0.0	0.0	0.0

LCS Batch#:	4LCS031497	4LCS031497	4LCS031497	4LCS031497
Date Prepared:	3/14/97	3/14/97	3/14/97	3/14/97
Date Analyzed:	3/14/97	3/14/97	3/14/97	3/14/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	90	95	95	98

% Recovery Control Limits:	60-140	60-140	60-140	60-140
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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, #1271

Signature on File

Alan B. Kemp
Project Manager



M P D S Services, Inc.

2401 Stanwell Drive, Suite 400, Concord, CA 94520

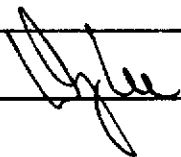
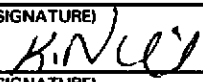
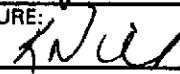
Tel: (510) 602-5120

Fax: (510) 689-1918

CHAIN OF CUSTODY

9705101

SAMPLER			UNOCAL					ANALYSES REQUESTED					TURN AROUND TIME:		
DOUG LEE			S/S # <u>7376</u> CITY: <u>PLEASANTON</u>					TPH-S	BTEX	TPH-D	PHE SPG DET.	LIMIT			REGULAR
			ADDRESS: <u>4191 1ST STREET</u>												
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION								
MW1	3-7-97		X	X		2VON/1L						7030724	A-C		
MW2B	↓		↓	↓		↓						7030725			
MW3	↓		↓	↓		↓						7030726			
MW4	↓		↓	↓		↓						7030727			
MW5	↓		↓	↓		↓						7030728			
MW6	↓		↓	↓		↓						7030729	↓		

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	THE FOLLOWING <u>MUST</u> BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:
(SIGNATURE) 	3-7-97/18:38	(SIGNATURE) 	1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? yes
(SIGNATURE)		(SIGNATURE)	2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? yes
(SIGNATURE)		(SIGNATURE)	3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? NO
(SIGNATURE)		(SIGNATURE)	4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? yes
(SIGNATURE)		(SIGNATURE)	SIGNATURE:  TITLE: <u>analyst</u> DATE: <u>3/7/97</u>

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: UNOCAL #7376/PLEASANTON DATE & TIME SAMPLED 3-7-97 15:10 A.M. P.M.

4191 1st STREET FIELD TECHNICIAN DOUG LEE

PURGE METHOD SUB. PUMP DATE(S) PURGED 3-7-97

WELL NUMBER MW1

WATER LEVEL-INITIAL 71.49 SAMPLING METHOD BAILEY

WATER LEVEL-FINAL 71.79 CONTAINERS 2 VOA / 1 Q

WELL DEPTH 86.40 PRESERVATIVES HCL (VOAs)

WELL CASING VOLUME 2.53 †CASING DIAMETER 2"

TIME	GALLONS PURGED	TEMPERATURE (°F) (± 1°F)	ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL)	pH (± 0.2)
13:23	2	78.9	7.61	7.28
	4	79.1	7.45	7.22
	6	79.0	7.47	7.21
13:28	8	79.2	7.14	7.21

† Correction Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.6
12"	5.87

13:20
13:28

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: UNOCAL #7376 / PLEASANTON DATE & TIME SAMPLED 3-7-97 13:35 A.M. P.M.

4191 1ST STREET FIELD TECHNICIAN DOUG LEE

PURGE METHOD SUB. PUMP DATE(S) PURGED 3-7-97

WELL NUMBER MU2B

WATER LEVEL-INITIAL 69.67 SAMPLING METHOD BAILER

WATER LEVEL-FINAL 71.10 CONTAINERS 2 VOA / 1 L

WELL DEPTH 85.25 PRESERVATIVES HCL (VOAs)

WELL CASING VOLUME 2.65 † CASING DIAMETER 2"

TIME	GALLONS PURGED	TEMPERATURE (°F) (± 1°F)	ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL)	pH (± 0.2)
14:16	2.5	78.5	1.31 mS	7.15
	4.5	78.0	1.32	7.11
	6	78.1	1.30	7.09
14:22	8	77.9	1.30	7.08

† Correction Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.6
12"	5.87

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: UNOCAL # 7376 / PLEASANTON DATE & TIME SAMPLED 3-7-97 15:25 A.M.
4191 1ST STREET FIELD TECHNICIAN DOUG LEE P.M.

PURGE METHOD SUB. PUMP DATE(S) PURGED 3-7-97

WELL NUMBER MW3

WATER LEVEL-INITIAL 71.58 SAMPLING METHOD BAILER

WATER LEVEL-FINAL 72.41 CONTAINERS 2 VOA / 1 P

WELL DEPTH 94.09 PRESERVATIVES HCL (VOAs)

WELL CASING VOLUME 3.83 †CASING DIAMETER 2"

TIME	GALLONS PURGED	TEMPERATURE (°F) (± 1°F)	ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL)	pH (± 0.2)
13:47	4	78.9	10.59	7.25
	6	78.8	11.59	7.26
	8	78.7	11.51	7.25
	10	78.7	12.40	7.27
	12	78.5	12.40	7.28

† Correction Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.6
12"	5.87

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: UNOCAL #7376 DATE & TIME SAMPLED: 3-7-97 14:53 A.M. P.M.

4191 1ST STREET FIELD TECHNICIAN: DOUG LEE

PURGE METHOD: SUB. PUMP DATE(S) PURGED: 3-7-97

WELL NUMBER: MW4

WATER LEVEL-INITIAL: 68.04 SAMPLING METHOD: BAILER

WATER LEVEL-FINAL: 78.12 CONTAINERS: 2 VOA / 1 R

WELL DEPTH: 94.95 PRESERVATIVES: HCL (VOAs)

WELL CASING VOLUME: 4.57 †CASING DIAMETER: 2"

TIME	GALLONS PURGED	TEMPERATURE (°F) (± 1°F)	ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL)	pH (± 0.2)
12:47	79.3 4.5	79.3	6.51	7.93
	9	79.1	6.75	7.90
12:57	13.5	79.3	6.77	7.89

† Correction Factors: 12.45

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.6
12"	5.87

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: UNOCAL #7376 / PLEASANTON DATE & TIME SAMPLED: 3-7-97 17:10 A.M. P.M.

4191 1ST STREET FIELD TECHNICIAN: DOUG LEE

PURGE METHOD: SUB. PUMP DATE(S) PURGED: 3-7-97

WELL NUMBER: MWS

WATER LEVEL-INITIAL: 56.30 SAMPLING METHOD: BAILER

WATER LEVEL-FINAL: 65.90 CONTAINERS: 2 VOA / 1 Q

WELL DEPTH: 72.89 PRESERVATIVES: HCL (VOA)

WELL CASING VOLUME: 2.77 †CASING DIAMETER: 2"

TIME	GALLONS PURGED	TEMPERATURE (°F) (± 1°F)	ELECTRICAL CONDUCTIVITY ([µmhos/cm]x100) (± 10% of TOTAL)	pH (± 0.2)
16:29	3	73.5	1.17 mS	7.13
	6	73.6	1.20	7.13
16:36	9	73.9	1.12	7.12

† Correction Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.6
12"	5.87

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: <u>UNOCAL #7376/PLEASANTON</u> <u>4191 1ST STREET</u> PURGE METHOD <u>SUB. PUMP</u> WELL NUMBER <u>MWB</u> WATER LEVEL-INITIAL <u>67.61</u> WATER LEVEL-FINAL <u>74.52</u> WELL DEPTH <u>88.09</u> WELL CASING VOLUME <u>3.48</u>	DATE & TIME SAMPLED <u>3-7-97 16:50</u> A.M. P.M. FIELD TECHNICIAN <u>DOUG LEE</u> DATE(S) PURGED <u>3-7-97</u> SAMPLING METHOD <u>BAILER</u> CONTAINERS <u>2 VOA / 1 L</u> PRESERVATIVES <u>HCL (VOAs)</u> CASING DIAMETER <u>2"</u>
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TIME	GALLONS PURGED	TEMPERATURE (°F) (± 1°F)	ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL)	pH (± 0.2)
16:07	3	75.8	1.28 mS	7.22
	6	75.2	1.26	7.20
	9	75.1	1.18	7.18
16:15	11	75.2	1.19	7.17

† Correction Factors:

Well Diameter	Factor
2"	0.17
3"	0.37
4"	0.65
4.5"	0.82
6"	1.46
8"	2.6
12"	5.87