

October 14, 1996

Mr. Scott Seery Alameda County Health Care Services 1131 Harbor Bay Parkway Alameda, California 94501

RE:

Unocal Service Station #3292

15008 E. 14th Street San Leandro, California

Dear Mr. Seery:

Per the request of the Unocal Corporation Project Manager, Mr. Edward C. Ralston, enclosed please find our report (MPDS-UN3292-12) dated September 12, 1996, 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) 277-2311.

Sincerely,

MPDS Services, Inc.

Jarrel F. Crider

/dr

Enclosure

cc: Mr. Edward C. Ralston



MPDS-UN3292-12 September 12, 1996

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

Attention: Mr. Edward C. Ralston

RE: Quarterly Data Report

Unocal Service Station #3292

15008 E. 14th Street San Leandro, California

Dear Mr. Ralston:

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. (MPDS).

RECENT FIELD ACTIVITIES

The Unocal monitoring wells that were monitored and sampled during this quarter are indicated in Table 1. Prior to sampling, the Unocal wells were checked for depth to water and the presence of free product or sheen. The monitoring data and the ground water elevations for the Unocal wells are summarized in Table 1.

A joint monitoring event was conducted with the consultant for the nearby former Mobil site on August 9, 1996. The monitoring data collected from the monitoring wells at the former Mobil site (provided by Alton GeoScience) are summarized in Table 4. MPDS was informed by the consultant for the nearby Chevron site that this site is on a semi-annual monitoring and sampling schedule (months of May and November). Therefore, MPDS will resume joint monitoring with the Mobil and Chevron sites in November, 1996. The ground water flow direction in the vicinity of Unocal and Mobil sites during the most recent quarter is shown on the attached Figure 1.

Ground water samples were collected from the Unocal wells on August 9, 1996. In addition, dissolved oxygen concentrations were measured and are presented in Table 3. Prior to sampling, the Unocal wells were each purged of between 6 and 9 gallons of water. 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. Trip blank, Field blank and Equipment blank samples (denoted as ES1, ES2 and ES3 respectively) were also collected for quality assurance and control. MPDS 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 collected from the Unocal wells were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The

MPDS-UN3292-12 September 12, 1996 Page 2

analytical results of the ground water samples collected to date from the Unocal wells are summarized in Table 2. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and benzene detected in the ground water samples collected from the Unocal wells this quarter are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation for the Unocal wells 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. Joel G. Greger at (510) 602-5120.

JOEL G. GREGER

No. EG 1633

CERTIFIED

ENGINEERING

GEGLOGIST

Sincerely,

MPDS Services, Inc.

Haig (Gary) Tejirian Senior Staff Geologist

Joel G. Greger, C.E.G.

Senior Engineering Geologist

License No. EG 1633 Exp. Date 8/31/98

/aab

Attachments: Tables 1 through 4

Location Map Figures 1 & 2

Laboratory Analyses

Chain of Custody documentation

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

Table 1
Summary of Monitoring Data

	Ground Water Elevation	Depth to Water	Total Well Depth	Product Thickness	æ	Water Purged
Well#	(feet)	(feet)+	(feet)+	(feet)	Sheen	(gallons)
		(Monitored a	nd Sampled on .	August 9, 1996)		
MW1	26.65	9.72	19.00	0	No	6.5
MW2	26.80	9.54	19.12	0	No	6.5
MW3	26.89	9.53	22,16	0	No	9
MW4	26.80	10.24	19.64	0	No	6.5
MW5	26.57	9,37	22.16	0	No	9
MW6	26.95	8.72	20.15	0	No	8
MW7	27.02	9.07	21.25	0	No	8,5
MW8	26.42	10.47	19.10	0	No	6
MW9	26.45	9.84	19.11	0	No	6.5
MW10	26.28	9.76	19.91	0	No	7
MW11	26.04	9.46	19.00	0	No	6.5
MW2‡	25.46	9,98	19.99	0	No	7
MW3‡	26.08	9.73	20.20	0	No	7.5
		(Monitored	and Sampled or	n May 8, 1996)		
MW1	27.87	8.50	19.00	0	No	7.5
MW2	28.13	8.21	19,11	0	No	7.5
MW3	28.22	8.20	22.16	0	No	9.5
MW4	WELL WAS INA		22.10	~		
MW5	27.69	8.25	22.16	0	No	10
	28.27	7.40	20.16	0	No	9
MW6	28.98	7.40	21.25	0	No	10
MW7		9.46	19.10	0	No	7
MW8 MW9	27.43 27.54	9.40 8.75	19.10	0	No	7.5
MW10	27.34	8.70	19.90	0	No	8
MW11	27.00	8.50	18.98	0	No	7.5
	26.32	9.12	20.00	0	No	7.5
MW2‡ MW3‡	27.08	8.73	20.20	o	No	8
		(Monitored an	d Sampled on F	ebruary 14, 1996)		
MW8★★	27.65	9.24	19.10	0	No	7
MW11★★		8.18	19.02	0	No	7.5

Table 1
Summary of Monitoring Data

	Ground Water	Depth to	Total Well	Product		Water
	Elevation	Water	Depth	Thickness	e:	Purged
Well#	(feet)	(feet)+	(feet)•	(feet)	Sheen	(gallons)
		(Monitored an	id Sampled on Fe	bruary 8, 1996)		
MW1	28.63	7.74	18.98	0	No	8
MW2	28.82	7.52	19. 12	0	No	8
MW3	29.01	7.41	22.16	0	No	10.5
MW4	28.89	8.15	19.65	0	No	8
MW5	28.58	7.36	22.16	0	No	10.5
MW6	29.01	6.66	20.16	0	No	9.5
MW7	28.96	7.13	21.23	0	No	10
MW8★★	27.91	8.98	19.10	0	No	7
MW9	28.14	8.15	19.11	0	No	7.5
MW10	27.99	8.05	19.91	0	No	8.5
MW11★★	27.74	7.76	19.05	0	No	8
MW1 ★	25.18	11.19	d Sampled on Nov	0 0	No	6
		(Monitored an	ıd Sampled on No	wember 2, 1995)		
MW1★	25.26	11.11	18.98	0	No	5.5
MW2	25.39	10.95	19.11	0	No	6
MW3	25.42	11.00	22.16	0	No	8
MW4	25.37	11.67	19.65	0	No	5.5
MW5	25.24	10,70	22.18	0	No	8
	25.47	10.20	20.15	0	No	7
MW6				0	No	7.5
	25.54	10.55	21.30	U		,,,5
MW7		10.55 11.80	21.30 19.10	0	No	5
MW7 MW8	25.54					5 5.5
MW6 MW7 MW8 MW9 MW10	25.54 25.09	11.80	19.10	0	No	5

Table 1Summary of Monitoring Data

	Well Casing
	Elevation
Well #	(feet)*
MW1	36.37
MW2	36,34
MW3	36.42
MW4	37.04
MW5	35.94
MW6	35.67
MW7	36.09
MW8	36.89
MW9	36,29
MW10	36,04
MW11	35,50
MW2‡	35.44**
MW3‡	35.81**
•	

- ♦ The depth to water level and total well depth measurements were taken from the top of the well casings.
- ★ Monitoring well MW1 was resampled on November 20, 1995. The vial containing the ground water sample collected from this well on November 2, 1995, was inadvertently broken by the laboratory.
- ★★ Monitoring wells MW8 and MW11 were resampled on February 14, 1996. The vials containing the ground water samples collected from these wells on February 8, 1996, were inadvertently broken by the laboratory.
- * The elevations of the top of the well casings are relative to Mean Sea Level (MSL), per a Benchmark located at the northwest corner of East 14th Street and 150th Avenue (elevation = 36.88 feet MSL).
- ** The elevations of the top of the well casings are relative to Mean Sea Level (MSL), per Chevron monitoring well MW-6 used as a benchmark (elevation = 36.92 feet MSL).
- ‡ Wells located on Shadrall Property.

Table 2
Summary of Laboratory Analyses
Water

Water							
Well#	Date	TPH as Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	мтве
MW1	5/4/91	31,000	74	20	920	1,500	
141 44 1	9/19/91	26,000	130	16	1,300	1,800	
	12/18/91	17,000	160	20	1,400	1,600	
	3/17/92	23,000	320	19	1,000	940	
	5/19/92	29,000	650	370	1,100	1,200	
	8/20/92	18,000	230	22	640	950	
	11/10/92	18,000	220	ND	690	830	
	2/20/93	19,000	190	ND	880	620	
	5/21/93	27,000	150	200	1,200	950	
	8/23/93	24,000	160	110	840	810	
	11/23/93	18,000	210	63	900	620	
	2/24/94	18,000	74	30	940	480	
	5/25/94▲	6,400	72	ND	170	67	
	8/23/94	24,000	130	57	970	320	
	11/23/94	23,000	180	44	970	270	
	2/3/95	20,000	77	17	950	390	
	5/10/95	16,000	230	27	880	630	
	8/2/95	18,000	190	ND	860	590	
	11/20/95▼	20,000	180	ND	960	450	970
	2/8/96	15,000	43	16	940	410	5,200
	5/8/96	16,000	37	16	930	410	1,600
	8/9/96	2,300	25	ND	77	39	1,200
MW2	5/4/91	19,000	6.6	1.4	460	630	
	9/19/91	19,000	100	6.8	790	310	
	12/18/91	10,000	110	5.1	420	9 6	
	3/17/92	16,000	110	ND	730	220	
	5/19/92	17,000	140	87	680	170	
	8/20/92	13,000	52	ND	660	70	
	11/10/92	11,000	36	7.2	570	45	
	2/20/93	1,500	2.9	3.8	9.1	ND	
	5/21/93	9,500	37	ND	470	62	
	8/23/93	15,000	110	ND	590	64	
	11/23/93	11,000	80	10	480	20	
	2/24/94◆	11,000	44	ND	580	32	
	5/25/94	11,000	5 0	ND	400	22	
•	8/23/94	12,000	45	10	360	20	
	11/23/94	15,000	61	24	440	ND	
	2/3/95	9,700	5.7	ND	250	10	
	5/10/95	7,500	56	4.7	310	33	
•	8/2/95	8,200	53	22	220	25	110
	11/2/95	5,000	56	4.5	170	7.7	110 ND
	2/8/96	7,200	ND	ND	170	ND	ND 130
	5/8/96	8,400	5.6	9.0	170	10 ND	130 64
	8/9/96	3,100	24	ND	80	ND	04

Table 2
Summary of Laboratory Analyses
Water

			Wa	ater			
Well #	Date	TPH as Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	MTBE
MW3	5/4/91	9,100	2.0	ND	55	180	
141 44 3	9/19/91	7,600	ND	13	190	170	
	12/18/91	5,900	54	6.4	110	64	
	3/17/92	5,800	66	7.5	100	58	
	5/19/92	3,400	25	3.6	66	41	
	8/20/92	4,500	58	ND	65	35	
	11/10/92	3,400	37	ND	85	34	
	2/20/93	1,600	12	18	8.9	12	
	5/21/93	2,600	42	ND	43	15	
	8/23/93	2,900	25	ND	50	18	
	11/23/93	2,300	34	ND	24	5.6	
	2/24/94	3,400	46	ND	53	11	
	5/25/94	1,400	20	ND	ND	ND	
	8/23/94	2,900	37	49	14	2.9	
	11/23/94	3,200	48	ND	22	ND	
	2/3/95	780	13	ND	2.1	ND	
	5/10/95	1,300	ND	ND	ND	ND	
	8/2/95	1,500	6.3	ND	16	2.1	
	11/2/95	1,100	5.2	2.1	7.4	0.5	15
	2/8/96	450	ND	ND	ND	ND	ND
	5/8/96	590	ND	11	10	ND	ND
	8/9/96	ND	ND	ND	ND	ND	ND
MW4	5/4/91	6,300	ND	ND	2.8	61	
	9/19/91	1,800	0.83	ND	54	46	
	12/18/91	2,500	28	2.5	54	22	
	3/17/92	1,800	3.7	1.4	90	21	
	5/19/92	2,000	20	3.5	42	8.3	
	8/20/92	1,000	15	ND	11	3.0	
	11/10/92	690	9.1	ND	16	2.8	
	2/20/93	2,400	40	2.1	33	ND	
	5/21/93	1,900	31	ND	20	4.5	
	8/23/93	1,200	5.0	ND	16	ND	
	11/23/93	720	10	ND	8.7	ND	
	2/24/94	1,300	8.9	ND	20	ND	
	5/25/94	1,700	22	ND	4.5	ND	
	8/23/94	690	9.2	1.3	7.1	1.9	
	11/23/94	420	5.0	1.1	4.2	1.2	
	2/3/95	620	6.4	ND	9.3	ND	
	5/10/95	280	2.8	ND	2.7	2.4	
$\overline{}$	8/2/95	290	3.6	ND	2.8	ND	
<i>ب</i>	11/2/95	42,000	390	210	2,800	6,300	270
•	2/8/96	130	2.1	ND	1.5	0.69	ND
	5/8/96 8/9/96	WELL WAS ND	INACCESSIB ND	LE ND	ND	ND	ND
	J/ J/ JU	1112	. 125	- 1-			

Table 2
Summary of Laboratory Analyses
Water

Water							
Well#	Date	TPH as Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	МТВЕ
MW5	5/4/91	69,000	1,400	2,500	3,500	15,000	
WIWS	9/19/91	57,000	1,600	2,700	5,200	20,000	
	12/18/91	31,000	1,600	3,100	4,800	19,000	
	3/17/92	81,000	850	1,600	4,800	18,000	
	5/19/92	84,000	760	1,500	4,000	17,000	
	8/20/92	58,000	660	1,700	4,200	19,000	
	11/10/92	57,000	800	1,800	4,400	18,000	
	2/20/93	17,000	75	ND	1,000	620	
	5/21/93	55,000	ND	160	3,500	12,000	
	8/23/93	61,000	340	380	3,600	14,000	
	11/23/93	46,000	290	310	4,100	15,000	
	2/24/94	57,000	140	400	4,400	16,000	
	5/25/94	53,000	ND	ND	4,000	14,000	
	8/23/94	61,000	360	380	4,800	17,000	
	11/23/94	46,000	230	260	3,900	14,000	
	2/3/95	56,000	140	330	3,500	13,000	
	5/10/95	27,000	160	170	2,200	5,200	
	8/2/95	65,000	260	300	3,500	12,000	
	11/2/95	240	0.76	ND	1.1	ND	ND
	2/8/96	54,000	210	150	3,400	12,000	170
	5/8/96	52,000	170	200	3,600	11,000	170
	8/9/96	25,000	54	16	1,700	4,700	ND
MW6	5/19/92	1,300	2.0	2.1	ND	2.7	
	8/20/92	280	8.4	ND	0.51	0.84	
	11/10/92	490	7.0	1.2	1.7	ND	
	2/20/93	2,400	43	ND	33	2.0	
	5/21/93	940	18	1.0	7.1	2.7	
	8/23/93	1,000	9.4	2.3	5.0	2.3	v1.00
	11/23/93	520	ND	1.7	1.9	0.82	
	2/24/94◆	810	12	ND	2.6	0.77	
	5/25/94	500	11	ND	ND	0.73	
	8/23/94	570	8.8	2.5	3.2	2.6	
	11/23/94	460	6.4	1.1	1.9	1.1	
	2/3/95	660	4.8	13	1.4	ND	
	5/10/95	470	ND	0.65	1.4	0.67	
	8/2/95	360	3.2	ND	1.6	ND	 E
	11/2/95	470	ND	0.92	0.89	0.58	5.5
	2/8/96	450	3.1	ND	1.1	0.68	ND
	5/8/96	ND	ND	ND	ND	ND ND	ND ND
	8/9/96	ND	ND	ND	ND	ND	MD
MW7	5/19/92	17,000	540	90	1,200	1,900	
	8/20/92	13,000	460	54	ND	3,100	
	11/10/92	1,800	74	ND	230	350	

Table 2
Summary of Laboratory Analyses
Water

11862							
Well#	Date	TPH as Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	MTBE
MW7	2/20/93	1,800	37	4.6	11	7.7	
(Cont.)	5/21/93	22,000	330	37	2,100	2,900	
	8/23/93	33,000	360	ND	2,500	4,300	
	11/23/93	19,000	310	30	2,500	2,300	
	2/24/94♦	16,000	220	19	2,400	3,200	
	5/25/94	14,000	200	ND	1,500	1,800	
	8/23/94	19,000	210	50	2,000	2,800	
	11/23/94	10,000	220	ND	1,000	730	
	2/3/95	26,000	170	ND	2,300	3,700	
	5/10/95	1,300	13	1.5	170	230	~-
	8/2/95	15,000	200	ND	2,200	2,000	
	11/2/95	18,000	190	9.4	2,100	2,200	72
	2/8/96	19,000	150	ND	2,100	3,000	ND
	5/8/96	13,000	130	18	1,900	1,600	85
	8/9/96	11,000	• •	ND	1,700	1,800	ND
MW8	5/19/92	5,300	28	3.3	2.6	2.1	
	8/20/92	3,500*	67	11	ND	ND	
	11/10/92	1,800	20	ND	ND	ND	
	2/20/93	2,200	32	ND	42	5.0	
	5/21/93	2,500	44	ND	ND	ND	
	8/23/93	280*	49	4.5	ND	ND	
	11/23/93	1,800	ND	3.4	ND	ND	
	2/24/94	1,200	10	2.3	ND	3.2	
	5/25/94	14,000	29	ND	ND	ND	
	8/23/94	3,200	46	18	2.0	7.2	
	11/23/94	1,700	34	ND	ND	3.1	
	2/3/95	800	6.1	ND	ND	ND	
	5/10/95	1,400	15	1.5	0.65	0.84	
	8/2/95	690	8.3	1.9	ND	ND	
	11/2/95	1,200	ND	1.9	0.56	ND	6.4
	2/14/96▼▼	650	9.0	1.2	ND	0.52	ND
	5/8/96	1,200	0.7	35	2.2	3.0	ND
	8/9/96	350	ND	12	0.81	0.95	ND
MW9	5/19/92	8,100	11	ND	25	5.8	
	8/20/92	3,800*	37	ND	ND	ND	
	11/10/92	4,200	ND	ND	21	23	
	2/20/93	2,300	47	ND	32	ND	
	5/21/93	3,200	32	ND	8.1	ND	
	8/23/93	3,000	29	ND	ND	ND	
	11/23/93	2,500	23	2.1	ND	ND	
	2/24/94	2,900	35	ND	ND	ND	
•	5/25/94	ND	ND	ND	ND	ND	
	8/23/94	2,800	28	32	ND	ND	

Table 2
Summary of Laboratory Analyses
Water

water							
	_	TPH as	_		Ethyl-		A ACTION
Well#	Date	Gasoline	Benzene	Toluene	Benzene	Xylenes	MTBE
MW9	11/23/94	2,000	24	2.2	2.2	2.5	
(Cont.)	2/3/95	2,100	26	2.5	ND	ND	
(Conc.)	5/10/95	1,700	0.81	2.2	1.0	1.4	
	8/2/95	1,900	26	6.6	ND	3.9	
	11/2/95	1,600	ND	1.3	ND	ND	11
	2/8/96	1,900	ND	ND	ND	ND	ND
	5/8/96	1,700	1.9	22	1.7	2.7	ND
	8/9/96	200	ND	4.5	ND	0.58	ND
MW10	8/20/92	15,000	230	ND	1,000	350	
MW10	11/10/92	15,000	300	42	3,500	330	
	2/20/93	17,000	300 74	ND	1,000	620	
	5/21/93	23,000	250	ND	3,000	240	
	8/23/93	20,000	230	13	3,200	140	
	11/23/93	18,000	300	10	2,800	110	
	2/24/94	15,000	330	19	2,000	83	
	5/25/94	14,000	240	ND	230	62	
	8/23/94	16,000	250	41	1,800	74	
	11/23/94	16,000	260	ND	1,600	49	
	2/3/95	17,000	310	ND	1,500	93	
	5/10/95	12,000	260	16	1,200	54	
	8/2/95	8,900	240	ND	780	40	
	11/2/95	9,300	190	ND	470	1.7	110
	2/8/96	9,700	170	ND	440	ND	ND
	5/8/96	7,100	100	ND	240	ND	43
	8/9/96	4,400	59	7.5	110	6.5	73
MW11	8/20/92	4,600*	62	ND	ND	54	
IVI VV I I	11/10/92	5,800	130	ND	260	42	
	2/20/93	18,000	76	ND	1,000	630	
	5/21/93	7,100	64	ND	340	120	
	8/23/93	5,400	68	ND	230	43	
	11/23/93	3,400	105	ND	120	43	
	2/24/94	4,600	170	ND	140	36	
	5/25/94	1,400	49	ND	26	ND	
	8/23/94	7,300	250	13	150	42	
	11/23/94	5,800	250	10	120	22	
	2/3/95	4,400	110	ND	150	37	
	5/10/95	4,200	120	ND	170	38	
	8/2/95	4,200	110	ND	110	22	
	11/2/95	6,100	150	ND	78	6.8	6,200
	2/14/96∀∀	3,100	60	ND	98	ND	4,000
	5/8/96	3,500	120	ND	160	ND	6,400
•	8/9/96	1,100	42	ND	15	ND	4,300

Table 2
Summary of Laboratory Analyses
Water

Well #	Date	TPH as Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	MTBE
MW2‡	5/8/96	540	0.68	21	1.0	1.7	ND
	8/9/96	170	ND	7.8	ND	ND	ND
MW3‡	5/8/96	4,700	7.9	36	13	4.0	42
	8/9/96	2,000	ND	14	7.6	ND	ND

- * Wells located on Shadrall Property.
- The analytical results of the ground water sample for well MW1 was inconsistent with the previous analytical results for this well. Therefore, Sequoia Analytical Laboratory re-analyzed the sample past hold time; therefore the results may be biased low.
- Monitoring well MW1 was resampled on November 20, 1995. The vial containing the water sample collected from this well on November 2, 1995, was inadvertently broken by the laboratory.
- Monitoring wells MW8 and MW11 were resampled on February 14, 1996. The vials containing the water samples collected from the wells on February 8, 1996, were inadvertently broken by the laboratory.
- * Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- All EPA 8010 constituents were non-detectable.

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 November 23, 1993, were provided by Kaprealian Engineering, Inc.

Table 3
Summary of Monitoring Data
Dissolved Oxygen (DO) Concentration Measurements

000000000000000000000000000000000000000	Disserved Only Bon (
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		DO Reading	DO Reading
Well#	Date	(mg/L)◆	(mg/L) • •
MW1	11/2/95	1.8	2.83
212712	2/8/96		2.58
	5/8/96	**	1.92
	8/9/96		2.14
MW2	11/2/95	2.3	2.80
	2/8/96		2.21
	5/8/96		3.89
	8/9/96		3.36
MW3	11/2/95	2.2	4.98
	2/8/96		2.78
	5/8/96		3.73
	8/9/96		3.29
MW4	11/2/95	3.0	7.91
	2/8/96		2.66
	5/8/96		**
	8/9/96		2.92
MW5	11/2/95	3.0	2.30
	2/8/96		2,35
	5/8/96		1.29
	8/9/96		2.19
MW6	11/2/95	3.8	4.55
	2/8/96		3.77
	5/8/96		3.40
	8/9/96		3.53
MW7	11/2/95		
	2/8/96	~~	2.67
	5/8/96		2.20
	8/9/96		2.37
MW8	11/2/95		
	2/8/96		3.85
	5/8/96		2.09
	8/9/96		2.56

Table 3
Summary of Monitoring Data
Dissolved Oxygen (DO) Concentration Measurements

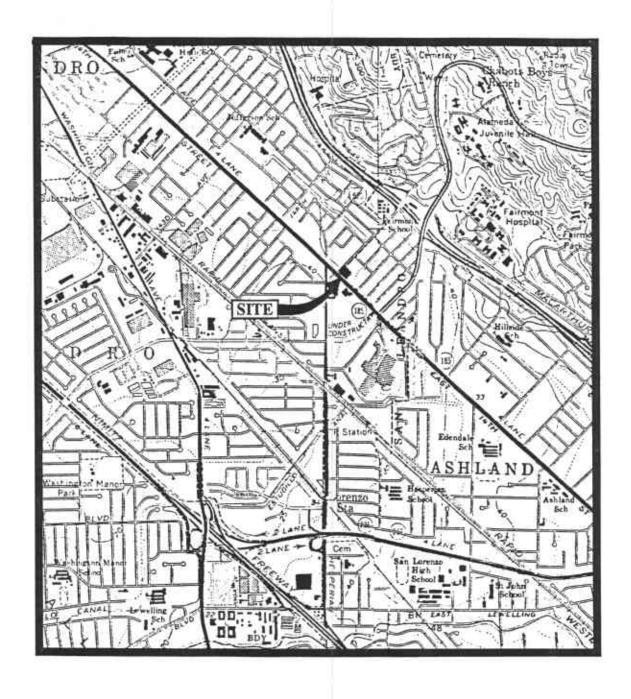
		DO Reading	DO Reading
Well#	Date	(mg/L)◆	(mg/L)◆◆
MW9	11/2/95	~~	
	2/8/96		3.62
	5/8/96		2.20
	8/9/96		2.51
MW10	11/2/95	3.1	3.96
•	2/8/96		2.88
	5/8/96		2.71
	8/9/96		2.63
MW11	11/2/95	2.6	3.55
	2/8/96		2.19
	5/8/96		2.06
	8/9/96		2.11

- Dissolved oxygen concentrations measured in the laboratory.
- ♦ ◆ Dissolved oxygen concentrations measured in the field using a LaMotte DO4000 dissolved oxygen meter.
- -- Indicates reading was not taken.

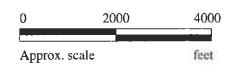
Table 4
Summary of Monitoring Data
Former Mobil Service Station Monitoring Wells
(Provided by Alton GeoScience)

	Ground Water Elevation	Depth to Water	Well Casing Elevation
Well #	(feet)	(feet)+	(feei)*
	(Monitored on A	August 9, 1996)	
MW-1A	27.00	9.63	36.63
MW-2A	26.91	9.71	36.62
MW-3A	26.98	9.95	36.93
MW-4A	27.13	10.05	37.18
MW-5A	27.10	8.81	35.91
MW-6A	27.28	9.82	37.10
MW-7A	27.08	10.31	37.39

- The depth to water level measurements were taken from the top of the well casings.
- * The elevations of the top of the well casings have been surveyed relative to Mean Sea Level.

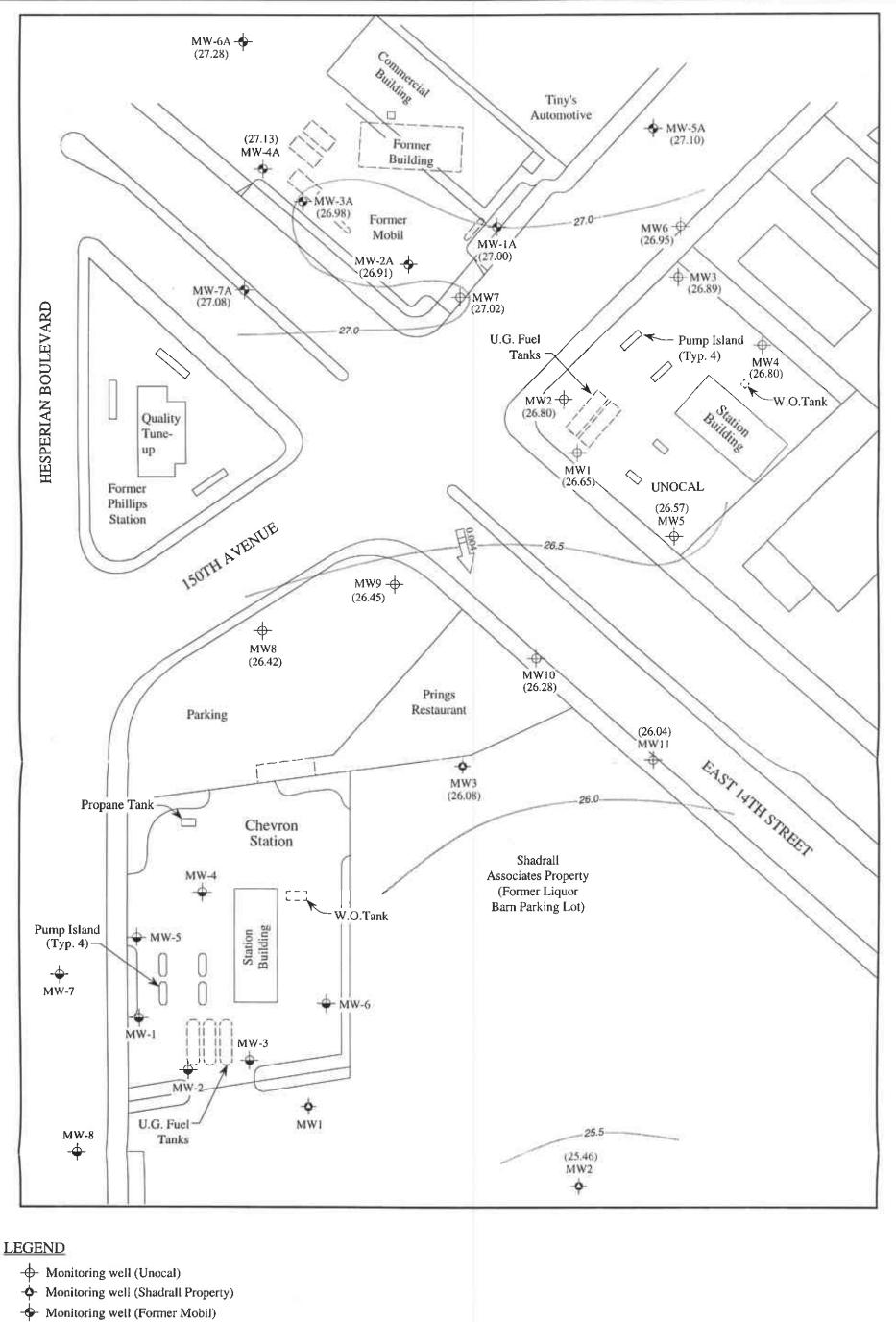


Base modified from 7.5 minute U.S.G.S. Hayward and San Leandor Quadrangles (both photorevised 1980)





UNOCAL SERVICE STATION #3292 15008 E. 14TH STREET SAN LEANDRO, CALIFORNIA LOCATION MAP



- Monitoring well (Chevron)
- () 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 AUGUST 9, 1996 MONITORING EVENT

UNOCAL SERVICE STATION #3292 15008 E. 14TH STREET SAN LEANDRO, CALIFORNIA

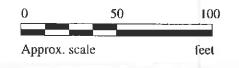
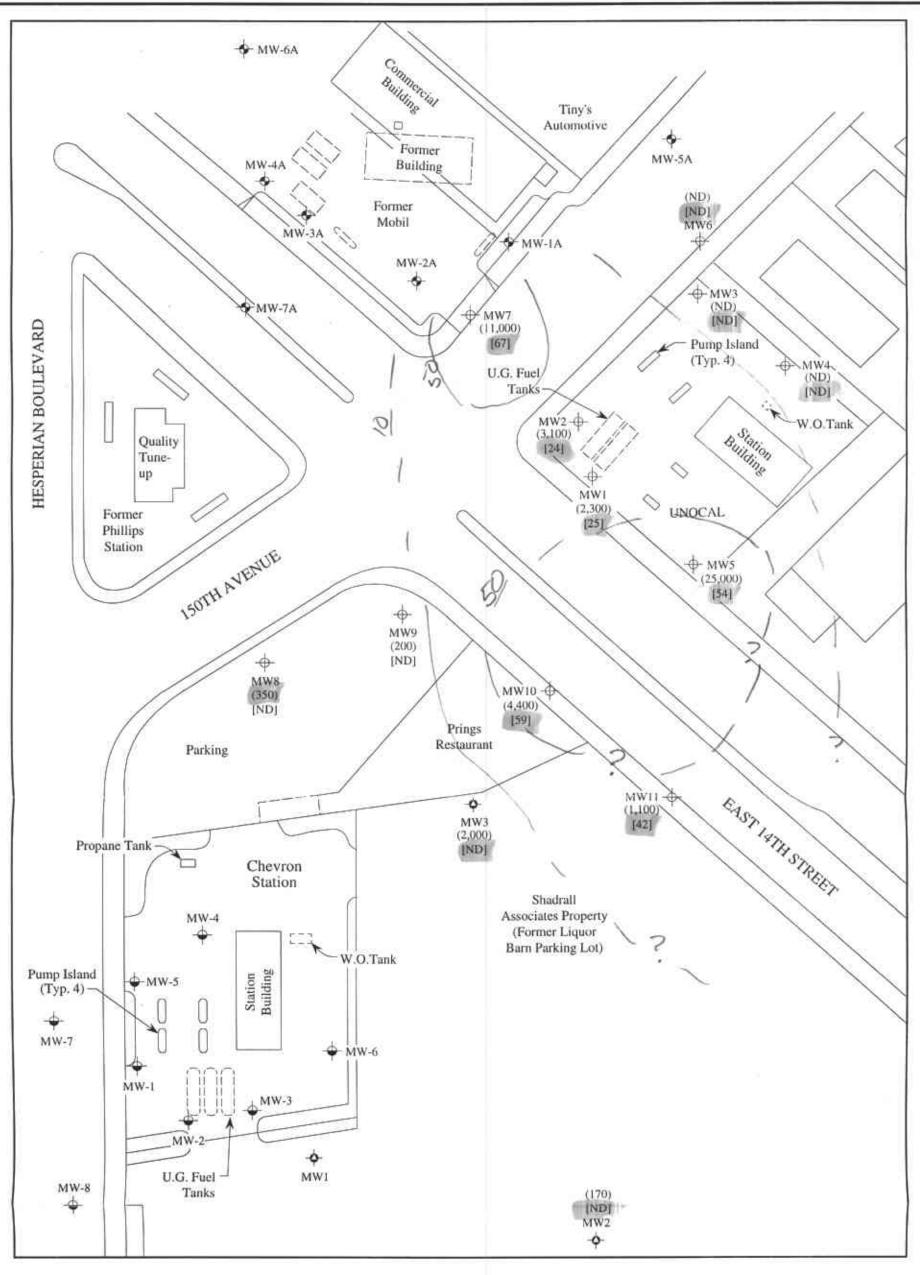




FIGURE 1

N



LEGEND

- Monitoring well (Unocal)
- → Monitoring well (Shadrall Property)
- Monitoring well (Former Mobil)
- → Monitoring well (Chevron)
- () Concentration of TPH as gasoline in $\mu\text{g/}L$
- [] Concentration of benzene in $\mu g/L$
- ND Non-detectable
 - † Well was inaccessible.

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON AUGUST 9, 1996

UNOCAL SERVICE STATION #3292 15008 E. 14TH STREET SAN LEANDRO, CALIFORNIA

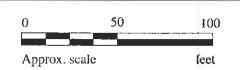




FIGURE 2

N



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider Client Project ID: Matrix Descript:

First Sample #:

Unocal #3292,15008 E.14th St., San Leandro Sampled:

Water

Analysis Method: EPA 5030/8015 Mod./8020

า

Received:

Aug 9, 1996 Aug 9, 1996

Reported:

Aug 27, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

608-0959

Sample Number	Sample Description	Purgeable Hydrocarbons μg/L	Benzene μg/L	Toluene μg/L	Ethyl Benzene μg/L	Total Xylenes μg/L
608-0959	MW-1	2,300	25	ND	77	39
608-0960	MW-2	3,100	24	ND	80	ND
608-0961	MW-3	ND	ND	ND	ND	ND
608-0962	MW-4	ND	ND	ND	ND	ND
608-0963	MW-5	25,000	54	16	1,700	4,700
608-0964	MW-6	ND	ND	ND	ND	ND
608-0965	MW-7	11,000	67	ND	1,700	1,800
608-0966	MW-8	350	ND	12	0.81	0.95
608-0967	MW-9	200	ND	4.5	ND	0.58
608-0968	MW -10	4,400	59	7.5	110	6.5

Detection Limits:	50	0.50	0.50	0.50	0.50	
		0.00	V. V V	V.V.	V. V. V	

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

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPD\$ Services 2401 Stanwell Dr., Ste. 300

Concord, CA 94520 Attention: Jarrel Crider Matrix Descript:

Client Project ID: Unocal #3292,15008 E.14th St., San Leandro Sampled: Aug 9, 1996

Water

Analysis Method: First Sample #:

EPA 5030/8015 Mod./8020 608-0959

Received: Aug 9, 1996 Reported: Aug 27, 1996

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
608-0959	MW-1	Gasoline	20	8/23/96	HP-2	106
608-0960	MW-2	Gasoline	20	8/23/96	HP-2	110
608-0961	MW-3		1.0	8/23/96	HP-2	94
608-0962	MW-4		1.0	8/23/96	HP-2	98
608-0963	MW-5	Gasoline	40	8/23/96	HP-11	91
608-0964	MW-6		1.0	8/23/96	HP-11	87
608-0965	MW-7	Gasoline	40	8/23/96	HP-11	92
608-0966	MW-8	Gasoline	1.0	8/23/96	HP-11	91
608-0967	MW-9	Gasoline	1.0	8/23/96	HP-11	94
608-0968	MW-10	Gasoline	10	8/23/96	HP-11	115

SEQUOIA ANALYTICAL, #1271

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

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

Client Project ID: Unocal #3292,15008 E Matrix Descript:

Unocal #3292,15008 E.14th St., San Leandro

Water

Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 608-0969

Sampled:

Aug 9, 1996

Received: Aug 9, 1996 Reported: Aug 27, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons $\mu \mathrm{g}/\mathrm{L}$	Benzene μg/L	Toluene μg/L	Ethyl Benzene μg/L	Total Xylenes μg/L	
608-0969	MW-11	1,100	42	ND	15	ND	
608-0970	MW-2SH	170	ND	7.8	ND	ND	
608-0971	MW-3SH	2,000	ND	14	7.6	ND	
608-0972	E\$-1	ND	ND	ND	ND	ND	
608-0973	ES-2	ND	ND	ND	ND	ND	
608-0974	ES-3	ND	ND	ND	ND	ND	

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

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680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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

Client Project ID: Matrix Descript:

Unocal #3292,15008 E.14th St., San Leandro Water

Received:

Sampled: Aug 9, 199 Aug 9, 1996 Aug 9, 1996

Analysis Method: First Sample #:

EPA 5030/8015 Mod./8020 608-0969

Reported:

Aug 27, 1996

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
608-0969	MW-11	Gasoline	10	8/23/96	HP-11	92
608-0970	MW-2SH	Gasoline	1.0	8/23/96	HP-11	89
608-0971	MW-3SH	Gasoline	10	8/23/96	HP-11	92
608-0972	ES-1		1.0	8/23/96	HP-4	94
608-0973	ES-2		1.0	8/23/96	HP-4	90
608-0974	ES-3		1.0	8/23/96	HP-4	94

SEQUOIA ANALYTICAL, #1271

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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

Client Project ID: Sample Descript: Unocal #3292,15008 E.14th St., San Leandro Water Sampled: Received: Aug 9, 1996 Aug 9, 1996

Analysis for: First Sample #: MTBE (Modified EPA 8020)

Analyzed:

Aug 23, 1996

rst Sample #: 608-0959

Reported: Aug 27, 1996

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit $\mu \mathrm{g/L}$	Sample Result μg/L
608-0959	MW-1	40	1,200
608-0960	MW-2	40	64
608-0961	MW-3	40	N.D.
608-0962	MW-4	40	N.D.
608-0963	MW-5	40	N.D.
608-0964	MW-6	40	N.D.
608-0965	MW-7	40	N.D.
608-0966	MW-8	40	N.D.
608-0967	MW-9	40	N.D.
608-0968	MW-10	40	73

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

SEQUOIA ANALYTICAL, #1271

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Client Project ID: Sample Descript:

Unocal #3292,15008 E.14th St., San Leandro Water

Sampled: Received: Aug 9, 1996 Aug 9, 1996

Concord, CA 94520 Attention: Jarrel Crider Analysis for: First Sample #:

MTBE (Modified EPA 8020) 608-0969

Analyzed:

Aug 23, 1996

Reported: Aug 27, 1996

LABORATORY ANALYSIS FOR:

MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit $\mu {\rm g/L}$	Sample Result $\mu \mathrm{g}/\mathrm{L}$
608-0969	MW-11	40	4,300
608-0970	MW-2SH	40	N.D.
608-0971	MW-3SH	40	N.D.

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

SEQUOIA ANALYTICAL, #1271

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

ess, MPDS Services

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

Client Project ID:

Unocal #3292,15008 E.14th St., San Leandro

Matrix:

Liquid

QC Sample Group: 6080959-974

Reported:

Aug 27, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene	•	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	
MS/MSD					
Batch#:	6080962	6080962	6080962	6080962	
Date Prepared:	8/23/96	8/23/96	8/23/96	8/23/96	
Date Analyzed:	8/23/96	8/23/96	8/23/96	8/23/96	
Instrument 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	105	105	
Relative %					
Difference:	0.0	4.9	0.0	1.6	
LCS Batch#:	2LCS082396	2LCS082396	2LCS082396	2LCS082396	
Date Prepared:	8/23/96	8/23/96	8/23/96	8/23/96	

LCS Batch#:	2LCS082396	2LCS082396	2LCS082396	2LCS082396
Date Prepared:	8/23/96	8/23/96	8/23/96	8/23/96
Date Analyzed:	8/23/96	8/23/96	8/23/96	8/23/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS %				
Recovery:	105	105	115	110
% Recovery			•	
Control Limits:	60-140	60-140	60-140	60-140

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.



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 300 Concord, CA 94520

Client Project ID:

Unocal #3292,15008 E.14th St., San Leandro

Matrix:

Liquid

Attention: Jarrel Crider

QC Sample Group: 6080959-974

Reported:

Aug 27, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn	
MS/MSD					
Batch#:	6080964	6080964	6080964	6080964	
Date Prepared:	8/23/96	8/23/96	8/23/96	8/23/96	
Date Analyzed:	8/23/96	8/23/96	8/23/96	8/23/96	
Instrument I.D.#:	HP-11	HP-11	HP-11	HP-11	
Conc. Spiked:	20 μg/L	20 μ g /L	20 μg/L	60 μg/L	
Matrix Spike					
% Recovery:	105	90	100	98	
Matrix Spike Duplicate % Recovery:	105	90	100	98	
Relative %					
Difference:	0.0	0.0	0.0	0.0	
LCS Batch#:	11LCS082396	11LCS082396	11LCS082396	11LCS082396	
Date Prepared:	8/23/96	8/23/96	8/23/96	8/23/96	
Date Analyzed:	8/23/96	8/23/96	8/23/96	8/23/96	
Instrument I.D.#:	HP-11	HP-11	HP-11	HP-11	

Recovery:	110	95	105
9/ Pagayany	· · · · · ·		

Control Limits:	60-140	60-140	60-140	60-140
% necovery				

SEQUOIA ANALYTICAL, #1271

LCS %

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.

103

6080959.MPD <8>



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider Client Project ID:

Unocal #3292,15008 E.14th St., San Leandro

Matrix: Liquid

QC Sample Group: 6080959-974

Reported:

Aug 27, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	
MS/MSD					
Batch#:	6080836	6080836	6080836	6080836	
Date Prepared:	8/23/96	8/23/96	8/23/96	8/23/96	
Date Analyzed:	8/23/96	8/23/96	8/23/96	8/23/96	
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	$60\mu\mathrm{g/L}$	
Matrix Spike					
% Recovery:	90	95	95	93	
Matrix Spike					
Duplicate %					
Recovery:	75	80	80	78	
Relative %					
Difference:	18	17	17	17	

LCS Batch#:	4LCS082396	4LCS082396	4LCS082396	4LCS082396	
Date Prepared:	8/23/96	8/23/96	8/23/96	8/23/96	
Date Analyzed:	8/23/96	8/23/96	8/23/96	8/23/96	
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	٠
LCS %			•		
Recovery:	85	90	85	92	
% Recovery					
Control Limits:	60-140	60-140	60-140	60-140	

Please Note:

SEQUOIA ANALYTICAL, #1271

Signature on File

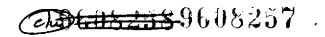
Alan B. Kemp Project Manager The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected 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.



CHAIN OF CUSTODY

CAMPIED.				(n. nr						J F C	031	<u> </u>		ALYSES	===:-				<u> </u>
SAMPLER	HAIG KEVOBK SIS # 3292 CITY: S. LEANDROL											1	TURN AROUND TIME:						
WITNESSING AGENCY				ADDR	ess: 1	506	08 E, 14 TH ST.			AS	rph-diesel			8 E				REGULAR	
	í			ļ	1				I SAN	IPLING	TPH-GAS BTEX	H-DI	TOG	8010					
SAMPLE ID NO.	DA	TE	TIME	WATER	GRAB	СОМР	NO. OF	CONT.		ATION	F 18	T P	Ĭ	80	Σ		:		REMARKS
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						K.O	KIDUL			THE FOLLOWING MUST BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES: 1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? 2. WILLISAMPLES REMAIN REFRIGERATED UNTIL ANALYZED?							AMPLES FOR ANALYSES:		
(SIGNATURE)					(SIGNATURE)			3. DID N	3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? VICTOR OF THE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED?										
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M P D S Services, Inc.



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HAIG KEVORK UNOCAL 3292 CITY: SILEANDRD											TURN AROUND TIME:					
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HA16	KEVO	RK	S/S	S#3292 CITY: S.LISAUDRO					,	AN		TURN AROUND TIME					
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SAMPLE ID NO.	DATE	TIME	WATER	GRAB C	DMP	NO. OF CONT,	SAMPLING LOCATION	표	Ŧ	T0G	8010					REMARKS	
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