GETTLER-RYAN INC.

TRANSMITTAL

September 11, 2000 G-R #180061

TO:

Mr. David B. De Witt

Tosco Marketing Company

2000 Crow Canyon Place, Suite 400

San Ramon, California 94583

Gettler-Ryan Inc.

6747 Sierra Court, Suite J

CC:

Mr. David Vossler Gettler-Ryan Inc.

Petaluma, California

FROM:

Deanna L. Harding

Project Coordinator

Dublin, California 94568

RE: Tosco (Unocal) SS #5325

3220 Lakeshore Avenue

Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1,	August 31, 2000	Groundwater Monitoring and Sampling Report Second Quarter 2000 - Event of June 21, 2000

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by September 22, 2000, this report will be distributed to the following:

Alameda County Health Care Services, 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Enclosure

trans/5325.dbd

August 31, 2000 G-R Job #180061

Mr. David B. De Witt Tosco Marketing Company 2000 Crow Canyon Place, Suite 400 San Ramon, California 94583

RE: Second Quarter 2000 Groundwater Monitoring & Sampling Report

Tosco (Unocal) Service Station #5325

3220 Lakeshore Avenue Oakland, California

Dear Mr. De Witt:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On June 21, 2000, field personnel monitored and sampled six wells (U-1 through U-6) at the above referenced site.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 3. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by Standard Operating Procedure Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1 and 2. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

Deanna L. Harding Project Coordinator

Stephen J. Carter / Senior Geologist, R.G. No.5577

Figure 1: Potentiome

Figure 1: Potentiometric Map
Figure 2: Concentration Map

Table 1: Groundwater Monitoring Data and Analytical Results

Table 2: Groundwater Analytical Results
Table 3: Dissolved Oxygen Concentrations

Attachments: Standard Operating Procedure - Groundwater Sampling

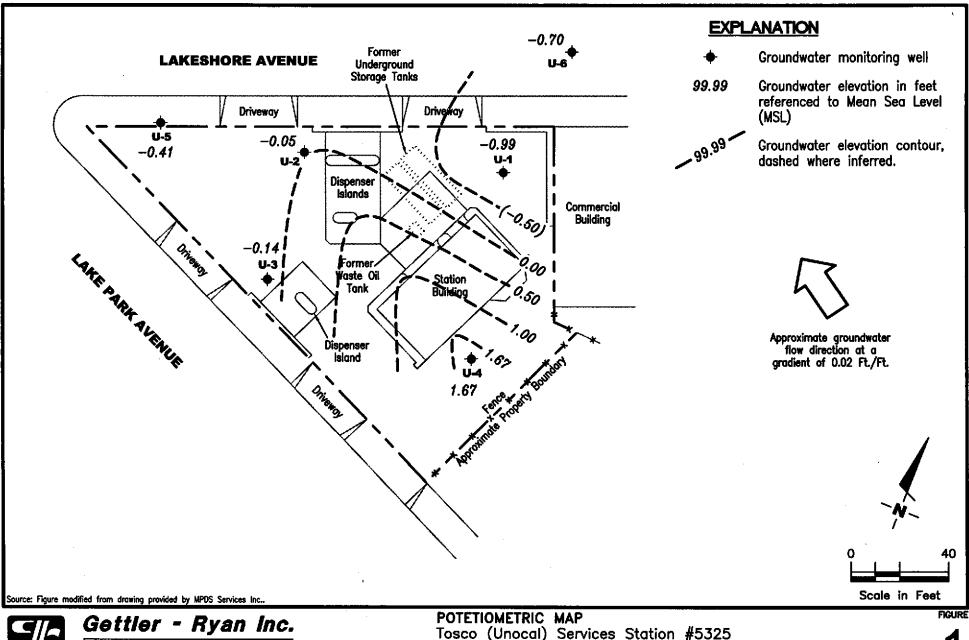
Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

No. 5577

FOF CALL

5325.qml



PROJECT NUMBER

6747 Sierra Ct., Suite J **Dublin, CA 94568**

(925) 551-7555

Tosco (Unocal) Services Station #5325 3220 Lakeshore Avenue

REVISED DATE

Oakaland, California

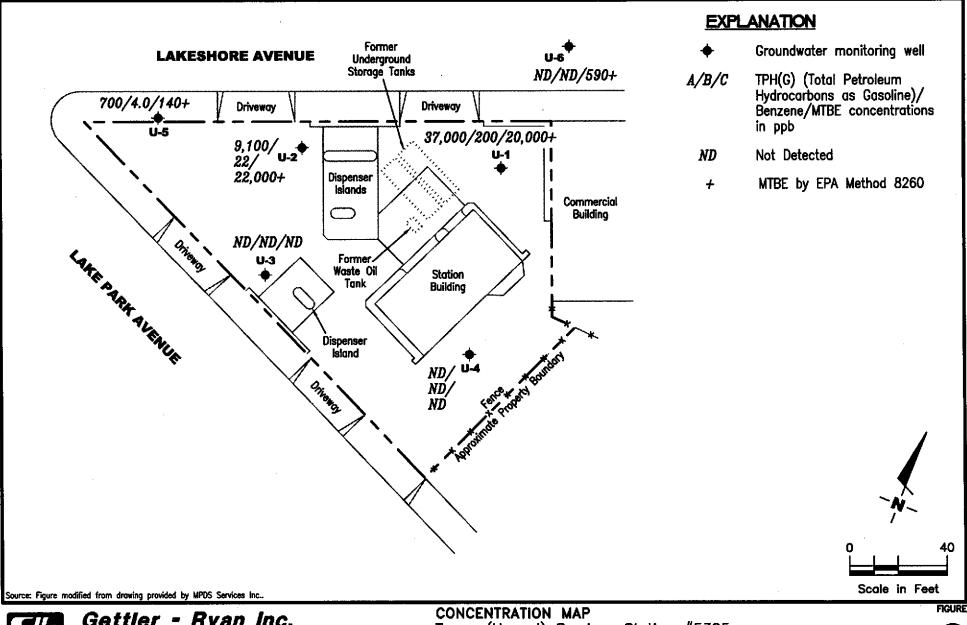
DATE

180061

June 21, 2000

FILE NAME: P:\ENVIRO\TOSCO\5325\QQQ-5325.DWG | Layout Tab: Pot2

REVIEWED BY





PROJECT NUMBER

180061

Gettler - Ryan Inc.

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6747 Sierra Ct., Suite J Dublin, CA 94568

(925) 551-7555

Tosco (Unocal) Services Station #5325 3220 Lakeshore Avenue

REVISED DATE

Oakaland, California

DATE June 21, 2000

FILE NAME: P:\ENVIRO\TOSCO\5325\Q00-5325.DWG | Layout Tab: Con2

Table 1
Groundwater Monitoring Data and Analytical Results

				Product						
WELL ID/	DATE	DTW	GWE	Thickness	TPH(G)	В	T	E	X	MTBE
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ррв)	(ppb)	(ppb)	(ppb)	(ppb)
U-1	08/10/90				690	38	75	8.6	130	
0-1	01/07/91	<u></u>	••		250	22	16	4.2	17	
	04/01/91				160	13	8.6	1.0	15	
	07/03/91				140	21	4.3	0.36	17	
	10/09/91				ND	ND	ND	ND	ND	
	02/12/92				250	ND	ND	ND	ND	
	05/05/92				230	1.2	ND	ND	ND	
	06/11/92				1,000	80	1.4	6.7	41	
	08/20/92				400¹	1.0	ND	ND	0.6	
	02/22/93				34,000	1,400	5,500	910	7,300	
	05/07/93				8,700	600	240	650	3,300	
	08/08/93				4,900 ²	79	ND	832	270	
5.32	11/16/93	8.61	-3.29	0.00	690 ³	ND	ND	ND	ND	
	02/16/94	8.54	-3.22	0.00	6,800 ⁴	ND	ND	ND	ND	
8.46	06/22/94	8.39	0.07	0.00	200	ND	ND	5.9	21	
	09/22/94	8.66	-0.20	0.00	$6,100^3$	ND	ND	ND	ND	
	12/24/94	8.04	0.42	0.00	50,000	2,500	9,700	2,400	17,000	
	03/25/95	7.72	1.02**	0.37	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREE	E PRODUCT		
	06/21/95	9.30	-0.69**	0.20	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREE	E PRODUCT		
-	09/19/95	9.29	-0.53**	0.40	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		
	12/19/95	8.98	-0.50**	0.03	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		
	03/18/96	8.25	0.21	0.00	27,000	ND	2,300	1,400	11,000	4,900
	06/27/96	7.92	0.54	< 0.01	120,000	540	4,300	2,600	26,000	ND.
	09/26/96	9.10	-0.62**	0.02	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		
	12/09/96	6.88	1.60**	0.03	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		
	03/14/97	9.02	-0.15**	0.55	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		
	06/30/97	8.41	0.07**	0.02	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		
	09/19/97	8.56	-0.08**	0.02	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		
	12/12/97	8.58	-0.11**	0.01	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		
	03/03/98	8.23	0.26**	0.04	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREI	E PRODUCT		

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Groundwater Monitoring Data and Analytical Results

				Product						
WELL ID/	DATE	DTW	GWE	Thickness	TPH(G)	В	T	E	X	MTBE
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
U-1	06/15/98	8.37	0.09	Sheen	52,000	ND ⁷	900	1,800	13,000	ND ⁷
(cont)	09/30/98	8.94	-0.48	Sheen	1,000,0008	ND^7	2,600	13,000	83,000	4,800
()	12/28/98	8.57	-0.11	< 0.01	1,100,0009	ND^7	1,600	8,600	71,000	5,700
	03/22/99	8.18	0.28	Sheen	130,000	470	1,100	2,000	28,000	5,700
	06/09/99	9.37	-0.91	0.00	40,000	230	640	590	13,000	3,500/2,100 ¹⁰
	09/08/99	9.53	-1.07	0.00	55,000 ¹¹	217	202	745	14,300	6,890/6,690 ¹⁰
	12/07/99	9.67	-1.21	0.00	41,200 ¹³	89.3	ND ⁷	385	6,930	15,800/14,700 ¹²
	03/13/00	8.44	0.02	0.00	48,000 ¹¹	490	610	2,400	10,000	22,000/23,00010
	06/21/00	9.45	-0.99	0.00	37,000 ¹¹	200	ND ⁷	1,200	7,200	15,000/20,000 ¹⁰
U-2	08/10/90	**			780	27	46	15	130	
	01/07/91				1,900	67	5.8	58	69	
	04/01/91				1,700	250	89	34	190	
	07/03/91				2,100	150	25	3.1	290	
	10/09/91				230	7.1	ND	ND	11	
	02/12/92				410	1.9	ND	0.36	0.4	
	05/05/92				1,600	120	52	6.2	290	
	06/11/92				620	17	2.1	ND	37	
	08/20/92				700	28	6.5	1.3	4.6	
	02/22/93				3,400	2,400	2,100	1,200	5,800	
	05/07/93				17,000	1,800	660	1,700	4,000	
	08/08/93				$5,600^2$	420	ND	410	670	
4.53	11/16/93	8.17	-3.64	0.00	510 ³	ND	ND	ND	ND	
	02/16/94	7.73	-3.20	0.00	980 ⁴	49	13	2.7	40	
7.62	06/22/94	7.60	0.02	0.00	31,000	2,200	62	1,500	3,500	
	09/22/94	7.93	-0.31	0.00	$8,500^3$	29	ND	ND	ND	
	12/24/94	7.27	0.35	0.00	32,000	1,500	890	1,300	5,000	
	03/25/95	7.01	0.61	0.00	170,000	1,900	21,000	4,800	33,000	
	06/21/95	6.98	0.64	0.00	16,000	2,100	ND	1,800	1,700	

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Groundwater Monitoring Data and Analytical Results

				Product						
WELL ID/	DATE	ÐTW	GWE	Thickness	TPH(G)	В	T	E	X	MTBE
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ррб)	(ppb)	(ppb)	(ppb)	(ppb)
U-2	09/19/95	7.70	-0.08	0.00	3,000	610	ND	78	240	5
(cont)	12/19/95	7.30	0.32	0.00	1,600	140	55	52	270	6
(cont)	03/18/96	6.45	1.17	0.00	12,000	2,200	ND	1,200	2,200	22,000
	06/27/96	7.41	0.21	0.00	28,000	3,400	ND	2,800	3,100	3,000
	09/26/96	7.90	-0.28	0.00	5,900	750	ND	ND	ND	18,000
	12/09/96	6.76	0.86	0.00	13,000	5,100	290	980	370	2,700
	03/14/97	7.12	0.52**	0.03	•	•	ESENCE OF FREE	PRODUCT		
	06/30/97	6.19	1.43	< 0.01	NOT SAMPLED	DUE TO THE PR	ESENCE OF FREE	PRODUCT		
	09/19/97	7.31	0.31	<0.01			ESENCE OF FREE			
	12/12/97	6.75	0.88**	< 0.01			ESENCE OF FREE			
	03/03/98	6.36	1.26	Sheen	80,000	3,000	1,100	820	16,000	16,000
	06/15/98	6.51	1.11	Sheen	48,000	1,800	330	470	7,900	20,000
	09/30/98	7.17	0.45	Sheen	60,000	1,300	ND^7	500	9,700	19,000
	12/28/98	7.06	0.56	0.00	63,000	590	160	320	5,600	16,000
	03/22/99	6.82	0.80	0.00	28,000	1,100	ND^7	360	2,900	25,000
	06/09/99	7.51	0.11	0.00	21,000	110	190	310	2,600	7,900/7,800 ¹⁰
	09/08/99	8.16	-0.54	0.00	23,300 ¹¹	477	138	286	4,110	16,400/15,300 ¹⁰
	12/07/99	8.31	-0.69	0.00	4,840 ¹³	17.2	ND ⁷	ND ⁷	157	14,900/15,600 ¹²
	03/13/00	6.69	0.93	0.00	11,00011	380	160	ND ⁷	2,100	22,000/26,000 ¹⁰
	06/21/00	7.67	-0.05	0.00	9,10011	22	ND ⁷	ND ⁷	800	16,000/22,000 ¹⁰
U-3	08/10/90			_	ND	ND	ND	ND	ND	
0-3	01/07/91				ND	ND	ND	ND	1.8	
	04/01/91				ND	1.0	2.9	0.53	5.4	
	04/01/91	 		••	ND	ND	ND	ND	ND	·
	10/09/91			•-	ND	ND	ND	ND	ND	
	02/12/92				ND	ND	ND	ND	ND	
	05/05/92		••		ND	ND	ND	ND	ND	
	05/05/92				ND	ND	ND	ND	ND	
	00/11/92				ND	ND	110	112	1112	

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				Product	Product						
WELL ID/	DATE	DTW	GWE	Thickness	TPH(G)	В	T	E	X	MTBE	
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	
U-3	08/20/92			••	ND	ND	ND	ND	ND		
(cont)	02/22/93				ND	ND	ND	ND	ND		
	05/07/93				ND	ND	ND	ND	ND		
	08/08/93			**	210	5.0	9.7	0.7	4.1		
7.86	11/16/93	11.82	-3.96	0.00	ND	ND	ND	ND	ND	••	
	02/16/94	11.62	-3.76	0.00	ND	ND	ND	ND	ND		
10.98	06/22/94	11.64	-0.66	0.00	ND	ND	ND	ND	ND		
	09/22/94	11.76	-0.78	0.00	ND	ND	ND	ND	ND		
	12/24/94	11.28	-0.30	0.00	ND	ND	ND	ND	ND		
	03/25/95	10.96	0.02	0.00	ND	ND	ND	ND	ND		
	06/21/95	11.37	-0.39	0.00	ND	ND	ND	ND	ND		
	09/19/95	11.55	-0.57	0.00	ND	ND	ND	ND	ND	5	
	12/19/95	11.45	-0.47	0.00	ND	ND	ND	ND	ND		
	03/18/96	11.10	-0.12	0.00	ND	ND	ND	ND	ND		
	06/27/96	11.16	-0.18	0.00	440	49	50	51	140	50	
	09/26/96	11.55	-0.57	0.00	ND	ND	ND	ND	ND	ND	
	12/09/96	10.12	0.86	0.00	ND	ND	ND	ND	ND	29	
	03/14/97	10.87	0.11	0.00	ND	ND	ND	ND	ND	ND	
	06/30/97	11.08	-0.10	0.00	ND	ND	ND	ND	ND	ND	
	09/19/97	11.05	-0.07	0.00	ND	ND	ND	ND	ND	ND	
	12/12/97	10.58	0.40	0.00	ND	ND	ND	ND	ND	ND	
	03/03/98	9.84	1.14	0.00	ND	ND	ND	ND	ND	ND	
	06/15/98	10.56	0.42	0.00	ND	ND	ND	ND	NĐ	ND	
	09/30/98	11.12	-0.14	0.00	ND	ND	ND	ND	ND	ND	
	12/28/98	10.96	0.02	0.00	ND	ND	ND	ND	ND	ND	
	03/22/99	9.46	1.52	0.00	ND	ND	ND	ND	ND	ND	
	06/09/99	11.01	-0.03	0.00	ND	ND	ND	ND	ND	ND	

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Groundwater Monitoring Data and Analytical Results

				Product						
WELL ID/	DATE	DTW	GWE	Thickness	TPH(G)	В	T	E	X	MTBE
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
U-3	09/08/99	11.31	-0.33	0.00	ND	ND	ND	ND	ND	ND
(cont)	12/07/99	11.26	-0.28	0.00	ND	ND	ND	ND	ND	ND
,,	03/13/00	8.28	2.70	0.00	ND	ND	ND	ND	ND	ND
	06/21/00	11.12	-0.14	0.00	ND	ND	ND	ND	ND	ND
U-4										
11.15	06/22/94	10.16	0.99	0.00	ND	ND	ND	ND	ND	
	09/22/94	10.79	0.36	0.00	ND	0.78	1.3	ND	1.4	
	12/24/94	9.81	1.34	0.00	ND	ND	ND	ND	ND	
	03/25/95	9.51	1.64	0.00	ND	ND	ND	ND	ND	
	06/21/95	9.54	1.61	0.00	ND	ND	ND	ND	ND	
	09/19/95	10.17	0.98	0.00	ND	ND	ND	ND	ND	
	12/19/95	9.98	1.17	0.00	ND	ND	ND	ND	ND	
	03/18/96	9.66	1.49	0.00	ND	ND	ND	ND	ND	
	06/27/96	9.74	1.41	0.00	ND	ND	ND	ND	ND	ND
	09/26/96	10.14	1.01	0.00	ND	ND	ND	ND	ND	ND
	12/09/96	8.67	2.48	0.00	ND	ND	ND	ND	ND	33
	03/14/97	9.35	1.80	0.00	ND	ND	ND	ND	ND	ND
	06/30/97	9.89	1.26	0.00	ND	ND	ND	ND	ND	ND
	09/19/97	9.96	1.19	0.00	ND	ND	ND	ND	ND	ND
	12/12/97	8.56	2.59	0.00	ND	ND	ND	ND	ND	ND
	03/03/98	7.85	3.30	0.00	ND	ND	ND	ND	ND	ND
	06/15/98	9.08	2.07	0.00	ND	ND	ND	ND	ND	ND
	09/30/98	9.75	1.40	0.00	ND	ND	ND	ND	ND	ND
	12/28/98	9.59	1.56	0.00	ND	ND	ND	ND	ND	ND
	03/22/99	8.34	2.81	0.00	ND	ND	ND	ND	ND	ND
	06/09/99	9.39	1.76	0.00	ND	ND	ND	ND	ND	ND
	09/08/99	9.90	1.25	0.00	ND	ND	ND	ND	ND	ND

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Groundwater Monitoring Data and Analytical Results

				Product						
WELL ID/	DATE	DTW	GWE	Thickness	TPH(G)	В	T	E	x	MTBE
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(pph)	(ppb)	(ppb)	(ppb)	(ppb)
								NE	NID	ND
U-4	12/07/99	10.05	1.10	0.00	ND	ND	ND	ND	ND	
(cont)	03/13/00	7.24	3.91	0.00	ND	ND	ND	ND	ND	ND
	06/21/00	9.48	1.67	0.00	ND	ND	ND	ND	ND	ND
U-5										
6.98	06/22/94	6.83	0.15	0.00	210	7.1	13	4.5	26	**
	09/22/94	6.90	0.08	0.00	170	8.4	10	8.5	18	
	12/24/94	6.43	0.55	0.00	8,700	560	70	670	430	
	03/25/95	6.35	0.63	0.00	44,000	390	960	1,500	7,600	
	06/21/95	7.11	-0.13	0.00	400	2.3	ND	9.1	3.5	
	09/19/95	6.99	-0.01	0.00	850	14	7.1	13	66	5
	12/19/95	7.17	-0.19	0.00	ND	ND	ND	ND	ND	
	03/18/96	6.65	0.33	0.00	100	0.67	0.5	0.51	5.4	
	06/27/96	6.49	0.49	0.00	16,000	280	150	1,400	4,600	530
	09/26/96	7.13	-0.15	0.00	ND	ND	0.57	ND	0.96	ND
	12/09/96	5.90	1.08	0.00	1,300	29	46	ND	140	97
	03/14/97	6.99	-0.01	0.00	ND	ND	ND	ND	ND	14
	06/30/97	7.08	-0.10	0.00	4,200	74	51	180	980	270
	09/19/97	6.78	0.20	0.00	6,300	160	13	370	1000	480
	12/12/97	6.94	0.04	0.00	60	1.3	ND	1.6	2.1	47
	03/03/98	6.50	0.48	0.00	1,700	29	ND ⁷	150	190	330
	06/15/98	6.85	0.13	0.00	1,500	32	ND ⁷	91	83	330
	09/30/98	7.31	-0.33	0.00	1,700	44	ND ⁷	39	150	60
	12/28/98	7.25	-0.27	0.00	1,400	59	ND ⁷	13	27	150
	03/22/99	6.86	0.12	0.00	780	8.9	ND	0.76	4.5	350
	06/09/99	7.28	-0.30	0.00	1,000	ND^7	ND ⁷	10	35	280/350 ¹⁰

Table 1
Groundwater Monitoring Data and Analytical Results

				Product					<u></u>	
WELL ID/	DATE	DTW	GWE	Thickness	TPH(G)	В	T	E	X	MTBE
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ррь)	(ppb)	(ppb)
					2,62011	26.2	ND^7	32.2	157	280/239 ¹²
U-5	09/08/99	7.52	-0.54	0.00	2,620 949 ¹¹	26.2	ND ⁷	11.2	22.7	235/301 12
(cont)	12/07/99	7.67	-0.69	0.00	949 ⁻⁴ 880 ¹⁴	9.26			8.7	46/37 ¹⁰
	03/13/00	6.73	0.25	0.00		12	1.0	5.6		120/140 ¹⁰
	06/21/00	7.39	-0.41	0.00	700 ¹¹	4.0	ND	0.99	4.0	120/140
U-6										
7.14	06/22/94	7.14	0.00	0.00	ND	ND	ND	ND	ND	
	09/22/94	7.34	-0.20	0.00	130	1.3	0.8	ND	0.73	
	12/24/94	6.67	0.47	0.00	6,900	500	59	600	380	
	03/25/95	6.29	0.85	0.00	47,000	450	1,300	1,700	8,200	
	06/21/95	7.60	-0.46	0.00	ND	ND	ND	ND	ND	
	09/19/95	7.70	-0.56	0.00	ND	ND	ND	ND	ND	5
	12/19/95	7.75	-0.61	0.00	210	2.5	1.0	2.9	17	
	03/18/96	6.86	0.28	0.00	ND	ND	ND	ND	ND	
	06/27/96	6.52	0.62	0.00	ND	ND	ND	ND	ND	510
	09/26/96	7.62	-0.48	0.00	ND	ND	ND	ND	ND	1,400
	12/09/96	5.88	1.26	0.00	1,200	29	48	6.4	140	- 58
	03/14/97	7.30	-0.16	0.00	ND	ND	ND	ND	ND	1,500
	06/30/97	7.35	-0.21	0.00	ND	ND	ND	ND	ND	990
	09/19/97	7.25	-0.11	0.00	ND	ND	ND	ND	ND	1,400
	12/12/97	7.29	-0.15	0.00	ND	ND	ND	ND	ND	680
	03/03/98	7.00	0.14	0.00	ND	ND	ND	ND	ND	1,600
	06/15/98	7.18	-0.04	0.00	ND ⁷	ND ⁷	ND^7	ND ⁷	ND^7	1,000
	09/30/98	7.90	-0.76	0.00	ND	ND	ND	ND	ND	1,200
	12/28/98	7.79	-0.65	0.00	ND ⁷	ND^7	ND^7	ND ⁷	ND ⁷	730
	03/22/99	7.47	-0.33	0.00	ND	ND	ND	ND	ND.	1,800

Table 1
Groundwater Monitoring Data and Analytical Results

				Product						
WELL ID/	DATE	ĐTW	GWE	Thickness	TPH(G)	В	T	E	X	MTBE
TOC*		(ft.)	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
U-6	06/09/99	7.73	-0.59	0.00	ND^7	ND ⁷	ND ⁷	ND ⁷	ND ⁷	1,000/850 ¹⁰
(cont)	09/08/99	7.95	-0.81	0.00	ND	ND	ND	ND	ND	851/1,040 ¹⁰
()	12/07/99	8.10	-0.96	0.00	ND	ND	ND	ND	ND	1,140/1,150 ¹²
	03/13/00	6.95	0.19	0.00	ND	ND	ND	ND	ND	560/670 ¹⁰
	06/21/00	7.84	-0.70	0.00	ND	ND	ND	ND	ND	400/590 ¹⁰
Trip Blank										
TB-LB	03/03/98				ND	ND	ND	ND	ND	ND
	06/15/98				ND	ND	ND	ND	ND	ND
	09/30/98				ND	ND	1.7	ND	2.2	ND
	12/28/98			••	ND	ND	0.71	ND	0.72	9.5
	03/22/99				ND	ND	ND	ND	ND	ND
	06/09/99				ND	ND	ND	ND	ND	ND
	09/08/99				ND	ND	ND	ND	ND	ND
	12/07/99				ND	ND	0.762	ND	ND	ND
	03/13/00				ND	ND	ND	ND	ND	ND
	06/21/00				ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5325 3220 Lakeshore Avenue Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 3, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing

B = Benzene

ppb = Parts per billion

DTW = Depth to Water

T = Toluene

ppm = Parts per million

(ft.) = Feet

E = Ethylbenzene

ND = Not Detected

GWE = Groundwater Elevation

X = Xvlenes

-- = Not Measured/Not Analyzed

TPH(G) = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl tertiary butyl ether

9

- * TOC elevations are surveyed relative to City of Oakland Benchmark, at the northeasterly corner of Weller and Cheney Avenue (Elevation = 9.055 feet, city datum; add 3.00' to U.S.G.S. datum). Prior to November 16, 1993, the DTW measurements were taken from the well cover.
- ** Groundwater elevation corrected due to the presence of free product; correction factor = [(TOC-DTW)+(Product Thickness x 0.75)].
- The positive result for gasoline does not appear to have a typical gasoline pattern.
- The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
- Laboratory report indicates the hydrocarbons detected did not appear to be gasoline
- Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 5 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- Detection limit raised. Refer to analytical reports.
- 8 Laboratory report indicates unidentified hydrocarbons C6-C12.
- Laboratory report indicates gasoline and unidentified hydrocarbons >C8.
- ¹⁰ MTBE by EPA Method 8260.
- 11 Laboratory report indicates gasoline C6-C12.
- 12 MTBE by EPA Method 8260 analyzed past the recommended holding time.
- Laboratory report indicates weathered gasoline C6-C12.
- Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons < C6.

Table 2

Groundwater Analytical Results
Tosco (Unocal) Service Station #5325 3220 Lakeshore Avenue Oakland, California

WELL ID	DATE	Iron (ppm)	Nitrate as NO3 (ppm)	Phosphate as PO4 (ppm)	Redox Potential mV²	
nclebill	DATE	(рунь)	(ppm)	Ληνασ		
J-1	06/15/98	39	ND	ND	382 ²	
	09/30/98	17	ND	ND	366 ²	
	12/28/98	4.3	6.3	28	298 ²	
	03/22/99	4.9	ND	3.5	320^{3}	
	06/09/99	1.2	ND	ND	260^{3}	
	09/08/99	1.80	ND^1	\mathbf{ND}^1	85 ³	
	12/07/99	5.70	ND ¹	17.0	404 ³	
	03/13/00	8.0	0.18	ND	² 11 7/262 ³	
	06/21/00	9.3	ND¹	ND ¹	148 ²	
J -2	03/03/98	25	ND	ND	369 ²	
	06/15/98	42	ND	ND	341 ²	
	09/30/98	25	ND	ND	354 ²	
	12/28/98	28	ND	ND	276 ²	
	03/22/99	0.68	ND	2.3	320^{3}	
	06/09/99	0.50	ND	ND	290 ³	
	09/08/99	1.90	ND^1	ND^1	235 ³	
	12/07/99	0.250	ND^1	ND^1	389 ³	
	03/13/00	4.3	0.31	ND	² 121/184 ³	
	06/21/00	0.26	ND ¹	ND ¹	136 ²	
U-3	06/30/97	1.4	21	0.86	190 ³	
U-3	09/19/97	0.57	19	ND	75 ³	
	12/12/97	1.9	23	0.85	390 ³	
	03/03/98	0.013	36	ND	358 ²	
	06/15/98	0.16	33	ND	318 ²	
	09/30/98	0.040	31	ND	295 ²	
	12/28/98	ND	29	ND	281 ²	
	03/22/99	0.015	30	0.14	310 ³	
	06/09/99	ND	26	1.2	350 ³	
	09/08/99	ND	32.9	ND ¹	417 ³	
	12/07/99	0.0520	27.9	ND ¹	437 ³	
	03/13/00	0.0320	33	ND	² 226/307 ³	
	06/21/00	0.20	32	ND ¹	225 ²	
rT 4	06/00/07	0.12	25	0.52	200 ³	
U-4	06/30/97	0.13	35 30	ND	45 ³	
	09/19/97	0.35	30 31	0.73	380 ³	
	12/12/97	0.68	31	ND	284 ²	
	03/03/98	0.018	3.2		256 ²	
	06/15/98	0.14	33	ND ND	276 ²	
	09/30/98 12/28/98	0.049 0.36	31 31	ND ND	280 ²	
5325.xls/#180	061		10		As of 06/21/0	

Table 2
Groundwater Analytical Results

		Iron	Nitrate as NO3	Phosphate as PO4	Redox Potential
WELL ID	DATE	(ppm)	(ppm)	(ppm)	mV^2
T. 4	02/02/00	ND	30	0.14	320 ³
J -4	03/22/99		35	0.91	340 ³
cont)	06/09/99	ND	24	ND ¹	391 ³
	09/08/99	ND		ND ¹	478 ³
	12/07/99	ND	27.7	ND	² 219/244 ³
	03/13/00	ND	33	ND ¹	248 ²
	06/21/00	0.034	32	ND	240
J -5	06/30/97	16	ND	ND	160 ³
	09/19/97	0.22	ND	ND	63 ³
	12/12/97	6.7	ND	ND	4003
	03/03/98	18	3.1	ND	345 ²
	06/15/98	17	ND	ND	333 ²
	09/30/98	17	ND	ND	318 ²
	12/28/98	17	6.6	ND	305 ²
	03/22/99	0.12	ND	2.4	340 ³
	06/09/99	0.23	ND	ND	320 ³
	09/08/99	2.10	ND ¹	ND^1	335 ³
	12/07/99	0.310	ND ¹	ND^1	408 ³
	03/13/00	0.33	0.16	ND	² 111/264 ³
	06/21/00	0.15	ND^1	ND¹	159 ²
J -6	06/30/97	88	0.80	ND	190 ³
) -U	09/19/97	2.9	1.80	ND	ND^3
	12/12/97	51	ND	ND	380^{3}
	03/03/98	60	3.5	ND	327 ²
	05/05/98	590	4.8	ND	315 ²
	09/30/98	33	ND	ND	345 ²
	12/28/98	83	7.2	ND	297 ²
	03/22/99	2.1	ND	0.98	330^{3}
	06/09/99	0.47	0.20	ND	320^{3}
	09/08/99	0.140	5.59	ND ¹	305 ³
	12/07/99	0.260	ND ¹	ND^1	443 ³
	03/13/00	0.79	0.26	ND	² 68/222 ³
•	05/15/00	1.9	ND ¹	ND ¹	159 ²

Table 2

Groundwater Analytical Results

Tosco (Unocal) Service Station #5325 3220 Lakeshore Avenue Oakland, California

EXPLANATIONS:

Groundwater analytical results prior to March 3, 1998, were compiled from reports prepared by MPDS Services, Inc.

ppm = Parts per million

ND = Not Detected

mV = millivolts

- Detection limit raised. Refer to analytical reports.
- ² Field measurement.
- ³ Analyzed by laboratory.

Table 3

Groundwater Analytical Results Tosco (Unocal) Service Station #5325 3220 Lakeshore Avenue Oakland, California



Oakland, California										
WELL ID	DATE	Before Purge								
		(mg/L)								
U-1	12/07/99	1.36								
0-1	06/21/00	1.53								
		-100								
U-2	12/07/99	2.28								
	06/21/00	1.96								
U-3	06/30/97	4.1								
0-3	09/19/97	4.2								
	12/12/97	2.97								
	03/03/98	2.63								
	06/15/98	2.93								
	09/30/98	3.11								
	12/28/98	3.59								
	03/22/99	4.02								
	06/09/99	3.70								
	09/08/99	3.96								
	12/07/99	4.21								
	06/21/00	4.27								
U-4	06/30/97	5.4								
- -	09/19/97	5.1								
	12/12/97	3.11								
	03/03/98	2.94								
	06/15/98	3.08								
	09/30/98	4.05								
	12/28/98	4.57								
	03/22/99	4.26								
	06/09/99	3.61								
	09/08/99	3.75								
	12/07/99	4.03								
	06/21/00	4.89								
U-5	06/30/97	3.4								
	09/19/97	0.6								
	12/12/97	1.75								
	03/03/98	2.36								
	06/15/98	2.55								
	09/30/98	1.93								

Table 3 Groundwater Analytical Results

Tosco (Unocal) Service Station #5325 3220 Lakeshore Avenue Oakland, California

WELL ID	DATE	Before Purge (mg/L)
U-5	12/28/98	1.64
(cont)	03/22/99	1.99
	06/09/99	2.10
	09/08/99	2.21
	12/07/99	2.66
	06/21/00	3.42
U-6	06/30/97	0.30
	09/19/97	0.60
	12/12/97	2.70
	03/03/98	2.18
	06/15/98	2.48
	09/30/98	3.06
	12/28/98	3.42
	03/22/99	3.88
	06/09/99	3.29
	09/08/99	3.12
	12/07/99	3.44
	06/21/00	3.27

EXPLANATIONS:

Dissolved oxygen concentrations prior to March 3, 1998, were compiled from reports prepared by MPDS Services, Inc.

mg/L = milligrams per liter

STANDARD OPERATING PROCEDURE -GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Tosco Marketing Company, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

Client/ Facility #53	25			ob#:	18006		
Address: _32	20 Lakesh	oce A	10. C	ate:	6-21-0	90	
City: Oski				ampler:	Joe_	·	·
							
Well ID	<u>U-I</u>	Well	Condition:		0.k.		
Well Diameter	3 in		rocarbon kness:	<u>Bin</u>	Amount Ba	-	(gel.)
Total Depth	19.70 #	Vol	unc	2" = 0.17	3" = 0.38		= 0.66
Depth to Water	9.45 tr.	Fac	xor (VF)		' = 1.50 	12" = 5.80	
	10.25 x	vf <u>0.38</u>	= <u>3,90</u> x3	(case volum	ne) = Estimated Pu	rge Volume:) Z Toal
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:	_	Samp Equip	ment:	Disposable Bailer Pressure Baile Grab Sample	*	
Starting Time: Sampling Time: Purging Flow Rate Did well de-water			If ves. Tim	:C escription: ee:	lear_	Odor:	(gal.)
	/oiume pH (gal.)	Con µm	ductivity \) * Temperatu *F	re D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:49	\$ 6.95 8 7.05 6.92		.85 .80 .86	70.7	1,53	148	·
SAMPLE ID	(#) - CONTAINER	LABO REFRIG.	RATORY INF		N LABORATORY	ANAL	YSES
U- I	3 VeA	Υ	HCL		Sequoia	TPHG, BTE	X, MTBE
	plastic	1/	_		11	(Iron	
					<u> </u>	Mitrate,	-
	1	l	<u></u>			Phospha	10
COMMENTS: _	No Ff for	nd	Skimu	10(

Client/ Facility # <u>53</u>	.25		Job#	• — —	8006		
	220 Lakest	o(e /	Ave. Date:	_6	-21-	00	
City: Oak	land		Samp	oler:	10 C		
Well ID	U-2	Wel	l Condition:	O	<u>, k · </u>	11 New Loc	K"
Well Diameter			Irocarbon ckness:		mount Ba	سجير	- loel.)
Total Depth	19.62 #		olume 2° = 0		3" = 0.38		= 0.66
Depth to Water	7.67 4	1	ctor (VF)	6" = 1.50		12" = 5.80	
	11.95 x	vf #138	=4,54 x 3 (case	volume) = E:	stimated Pu	ırge Volume:	1 4 lost)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:	<u> </u>	Sampling Equipment	Baile Pres:	osable Ba r sure Baile Sample		,
Starting Time: Sampling Time: Purging Flow Ra Did well de-wate		Am	Weather Condition Water Color: Sediment Descrip If yes; Time:	Clear	one	Odor: 4	e S (gal.)
Time	Volume pH (gal.)	ħz		perature F	D.O. (mg/L) 1.96	ORP (mV) 136	Alkalinity (ppm)
11:12 - 11:14 -	14 7.21 14 7.13		148 -	71.2			
			DRATORY INFORM	ATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABOR	ATORY		YSES
U- v	3464	Y	HCL	Sequ		TPHG, BTE	X,MTBE
	1 plastic	"		1		Mitrate,	
 						Phospha	اح
COMMENTS:							·

Client/ Facility #53	25	,	Job	#:	18006		
	20 Lakest	ore !	re Date	e:	6-21-0	90	
City: Oak!	Ē			npler:	Joe		
Well ID	U-3	Wel	Condition:		o.k.		•
Well Diameter		-	rocarbon kness:	<u>in</u>	Amount Ba	سوب	(gal.)
Total Depth	19,40 m	Vo	lume 2" =	0.17	3" = 0.38		= 0.66
Depth to Water	11.12 #	Fa	ctor (VF)	6* =	1.50	12" = 5.80	
	<u>8.28</u> x	VF 0.3	3.15 x 3 (car	se volume) :	= Estimated Pu	rge Volume:	/ <i>O</i> (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack		Sampling Equipmen	nt: 🗅	sposable Ba	iler	,
	Suction	•.			ressure Baile rab Sample	г	
	Other:	_		Other: .			
Starting Time: Sampling Time:	8:30 01,00 A	 !_w	Weather Condit	~ i	Hot ac	Odor:	one
Purging Flow Rat	te:	iur .	Sediment Desc			<u></u>	
Did well de-water	er?	_	If yes; Time:	.	Volum	e:	lgal_1
Time	Volume pH (gal.)	Cor µn	ductivity Ten	nperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:40	35 7.65		3.41	72-0	4.27	225	
8:42	7 7.60		2.56	72-1	 –	· •	•
8.44	10. 7.55	<u>.</u> —	<u>8 -51 —</u>	723			. -
		_ —				•	
	<u>.</u>						
		LABO	RATORY INFORI	MATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LAE	ORATORY	ANAL	YSES
U-3	3464	Υ	HCL	S ₆	quoia	TPHG, BTE	X,MTBG
	1 plastic	11			"	(Itron	
	·	.				Phospha	le
	·	· · ·				~ U "	
COMMENTS: .							
	<u> </u>						

Client/ Facility # <u>53</u>	25		Job#	<i>t</i> : _	18006		
	20 Lakesh	ore 1	Are. Date	: _	6-21-	90	
City: Oski		·		pler: _	Joe		<u> </u>
Well ID	U- ch	We	l Condition: _		o.k.		
Well Diameter		-	Irocarbon B	- .	Amount Ba	سموب	
Total Depth	20.15		okness:	in.	(product/wat 3" = 0.38		= 0.66
Depth to Water	9,48 +	1 .	ctor (VF)		= 1.50	12" = 5.80	
	10.67 x	vF <u>0.66</u>	= 7.04 x 3 (case	o volume) = Estimated Pu	rge Volume: 2	/ (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack		Sampling Equipmen		Osposable Ba Bailer Pressure Baile		,
	Gundfos Other:	<u>.</u>			Grab Sample	-	
Starting Time: Sampling Time:	9:10	_	Weather Conditi	<u> </u>	Hot	Odor: 10	A =
Purging Flow Rat Did well de-wate	re:	<u> </u>	Sediment Describer 1 Sediment	•		e:	lgal_)
7 ime 1 9'20	Volume pH (gal.) 7 7.7/ 14 7.53 21 7.5		ahos/cm *C	1.9 2.2 2.4	D.O. (mg/L) 4.89	ORP (mV) 248	Alkalinity (ppm)
SAMPLE ID	(#) - CONTAINER	LABC REFRIG.	RATORY INFORM		ABORATORY	ANALY	'SES
U- 4	3 VeA	Υ	HCL	9	sequoia	TPHG, BTEX	, MTBE
	1 plastic	11			11	(Iron	
	`					Phosphal	د ۱۸۰
COMMENTS: .						· · · · · · · · · · · · · · · · · · ·	

Client/ Facility #53	.25			ob#:	18006	5 1	
Address: 32		01e /	Are. D	ate:	6-21-	00	
City: Osk	_	<u> </u>	s	ampler:	Joe		
Well ID	U-5	We	Il Condition:		o.k.	"New Lo	CK_(II
Well Diameter	d in	•	Irocarbon	B :-	Amount Ba		- (gel.)
Total Depth	20.05 H		ckness:	= 0.17	3" = 0.38		≈ 0.66
Depth to Water	<u>7.39 #</u>		ctor (VF)	6" = 1	1.50	12" = 5.30	
	12.66 x	VF <u>0:66</u>	= <u>8.36</u> x 3	(case volume) :	■ Estimated Pu	irge Volume: 🚄	2 5 (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:	_	Sampl Equipr	nent: Q Ba Pr G	sposable Ba ailer ressure Baile rab Sample		
Starting Time: Sampling Time: Purging Flow Rat Did well de-wate	10:33 10:55 te: Zor	<u>#</u>	Weather Cor Water Color: Sediment De If yes; Time	 scription: _	NONE	Odor:	(Oal.)
	Volume pH (gal.)	Cor µn	رُي َ		D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:36 -	8 11 25 7.17 7.19		75 280 282	73.6	3.42		
SAMPLE ID	(#) - CONTAINER	LABO	RATORY INFO		ORATORY	ANAL'	YSES
0- Z	3 VeA	Y	HCL		quoia	TPHG, BTE	
-	Iplastic	11			11	(Iron	
						Mitrate,	- A
			ــــــــــــــــــــــــــــــــــــــ		<u> </u>	Phospha	٠
COMMENTS:							
						· · ·	

Client/ Facility # <u>53</u>	.25		Job)#:	18006	5 1	
	220 Lakesh	ore !	re. Dat	te:	6-21-	00	
City: Osk	•			mpler:	Joe		
Weil ID	U-6	Wel	Condition:		o.k.		
Well Diameter	2 in.	-	rocarbon	3	Amount Ba	سير	- (cal.)
Total Depth	23.80 ft.		kness:	= 0.17	(product/wat 3" = 0.38		= 0.66
Depth to Water	7.84 4.		lume 2* = ctor (VF)	6" =]	= :	12" = 5.80	
	15.96 x	VF 0.1	= 2.7/ x3 (c)	asa voluma) =	Estimated Pu	ırge Volume: _	8. 5 (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos		Samplin Equipme	ent: D(Ba Pr	sposable Ba ailer ressure Baile rab Sample		,
Starting Time: Sampling Time:	Other:	<u>A</u> , m	Weather Condi	Cle	Hot ac	Odor:	o n E
	te:g	·	Sediment Desc				(cal.)
Did well de-wate	er?		If yes; Time:	•	voluit	ie:	;
Time	Volume pH (gal.)	Con μπ	ductivity Can to Te	mperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10'00	3 7.51 5 7.39	- 60	.36	73.1	<u>3.27</u>	159	·
<u> 10.02</u> _	7.38			<u> </u>			
SAMPLE ID	(#) - CONTAINER	LABO REFRIG.	RATORY INFOR		ORATORY	ANAI	LYSES
U- 6	3 YeA	Y	HCL		quoia	TPHG, BTE	
	Iplastic	11			11	(Iron	
						Mitrate,	
		L			<u> </u>	Phospha	te_
COMMENTS: .							
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· •	•	T	Facili	the Mumb	. Uuc	cal ssH	532	5					Contact (Name) Wr. Dave De Witt								
			Fool	ity Addres	. 32	20 Lake	shoc	e Av	2. O.	k (au	هک که		(925) 277-5325								
18	r	Cons	utlant Pr	oject Nu	nber	180061.	25					_ ı	Loborotory Name Sequoia Analytical W006544					06544			
TOS	CO	Cone	uttant He	omo <u>G</u> e	ttler	-Ryan Inc	<u>. (G</u> -					- ı	aberalor	y Relso	oo Numi	ber					· · · · · · · · · · · · · · · · · · ·
Pasan Markeling	Company .					Court.			սիլքո	1CA	9456	iβ :	Samples Collected by (Name) JOE ASEMIAN								
2000 Com Corps San Flatence, Carl	o PL, 346. 400 Spein (486)	F	Project C	Ject Contect (Name) <u>Deanna L. Harding</u> (Phone) 925-551-7555 (Fax Number) 925-551-7888						- ['	Collection	Date_	_{	21-0							
•				(P	hone) <u> 1</u>	<u>5-551-755</u>	5_(Fax	Number	7452	-551-	7888	L	Signolure	<u></u>	<u> </u>	2011	7 -				T
			8	1		1		<u> </u>			,	·	Analys	4 Ta B	e Perfo	med I	4		т	F	DO NOT BILL
	¥	Ę	Zk. Charooa	Composite Discrete		8		2 _ 1			g X	rtice	1	. į		7	Nitrate, Shosphat				TB-LB ANALYSIS
)	E S	Containe	1	2 6 6		, de	€	K WANTEE		1	locoor	Aromati	T T	Organica	9 -	Iron	100				MTEE hit by
1	Sample Number	2	<u> </u>	111		å	5	1 🖺	7	§	<u>유</u>	*_	9	4	दुई	ا رُبِ	30	į	1	Ì	8260
Sample Numb		Ž	¥.85 28 ±	000	•	. Somple	ئ	THE CONT	TPH Diamed (8015)	Oil and Great (5520)	Purpeoble Holood (8010)	Purpedble ((5020)	Purpedble Organic (8240)	Extractable (8270)	Metals C4Cr.Pb.Zn.M (ICVP or AL)	Ferrous	12				
į Ā	<u>ۇ</u>	2	N N	<u> </u>	Ę.	Š	3	F	F [™]	8.0	ا چې	23	1 5 5	720	13 E	15	8.				Remorks
TB-LB	OIA	VOA	W	G	_	HCL	Y	7				-									Please filter
U-1	·	340A	1	/	12:15	/	/	1					1		,	~	/	·			from plain
U-2	03	/	1	/	11:30	/	1	/							3	/	/				plastic and
U-3	04	,	^.	/	9:00	,	/	1								~	/		<u> </u>		Riespive foi
U-4	05	,	7	1	9:40		1	7								~	/		<u> </u>		Ferrous Iron
0-5	16	,	/	入	10:55	1	1	1							<u>.</u>	~	1				dualysis.
U-6	07	/		/	10.15	>	1	/						<u> </u>	<u> </u>	. ~					
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[\ .	Dus		G-	-R Inc		6-21-00	<u> </u>	Kin	'n	On	<u></u>	_			9/2	110					Hre.
Relinquiched By	(Signature)			onization		Date/Time		Devies	y (Sign	sture)		- 1	Organizal	_	,	•/Time	7.65				l Hre. Daye
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Rollingulohed By	(Signature)		I~'	nəlfəxlər C		Date/Ilme	Res	pleved F	or Labo	retory [ly (Signa	ature)	ive res		18	/IIme / <u>22</u>	100			An C	
192	-			-13 م	z_ _[- 47		12	m	46	2	12	121	2		4-1	7 5_	L			



13 July, 2000

Deanna L. Harding Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

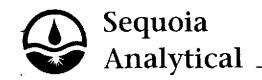
RE: Unocal Sequoia Report: W006544

Enclosed are the results of analyses for samples received by the laboratory on 21-Jun-00 20:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding **Reported:** 13-Jul-00 08:38

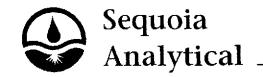
ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W006544-01	Water	21-Jun-00 00:00	21-Jun-00 20:00
U-1	W006544-02	Water	21-Jun-00 12:15	21-Jun-00 20:00
U-2	W006544-03	Water	21-Jun-00 11:30	21-Jun-00 20:00
U-3	W006544-04	Water	21-Jun-00 09:00	21-Jun-00 20:00
U-4	W006544-05	Water	21-Jun-00 09:40	21-Jun-00 20:00
U-5	W006544-06	Water	21-Jun-00 10:55	21-Jun-00 20:00
U-6	W006544-07	Water	21-Jun-00 10:15	21-Jun-00 20:00

Sequoia Analytical - Walnut Creek

Charlie Westwater, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

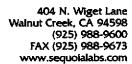
Dublin CA, 94568

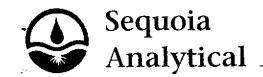
Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported: 13-Jul-00 08:38

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W006544-01) Water	Sampled: 21-Jun-00 00:00	Receive	d: 21-Ju	n-00 20:00					
Purgeable Hydrocarbons	ND	50	ug/l	1	0F30001	30-Jun-00	30-Jun-00	EPA 8015M/8020	
Benzene	ND	0.50	**	**		н	11	H	
Toluene	ND	0.50	#	71	"	H	11	ii.	
Ethylbenzene	ND	0.50		11	11	"	, n	n	
Xylenes (total)	ND	0.50	4	11	11	D	н		
Methyl tert-butyl ether	ND	2.5	н	n	Ħ	н	P	n	
Surrogate: a,a,a-Trifluorotolue	ene	99.3 %	70	-130	"	"	, rr	"	
U-1 (W006544-02) Water S:	ampled: 21-Jun-00 12:15 R	eceived: :	21-Jun-0	0 20:00					P-01
Purgeable Hydrocarbons	37000	5000	ug/l	100	0F30001	30-Jun-00	30-Jun-00	EPA 8015M/8020	
Benzene	200	50	•	**	**	10		et	
Toluene	ND	50	77	"	n	ū	"		
Ethylbenzene	1200	50	и	**		II.	н	n	
Xylenes (total)	7200	50	11		"	**			
Methyl tert-butyl ether	15000	250	**	**		"	tr	**	
Surrogate: a,a,a-Trifluorotolue	ene	100 %	70	-130	"	"	"	. "	
U-2 (W006544-03) Water S	ampled: 21-Jun-00 11:30 R	eceived:	21-Jun-(0 20:00				<u> </u>	P-01
Purgeable Hydrocarbons	9100	2000	ug/l	40	0F30001	30-Jun-00	30-Jun-00	EPA 8015M/8020	
Benzene	22	20		11	"	11	н	77	
Toluene	ND	20	#	Ħ	11	ır	"	#	
Ethylbenzene	ND	20	"	**	II	*	11		
Xylenes (total)	800	20	*1	W	n	W	11	#	
Methyl tert-butyl ether	16000	100	11	It	n	#	Ħ	**	
Surrogate: a,a,a-Trifluorotolue	ene	94.7 %	70	-130	n	"	"	"	





Gettler Ryan, Inc. - Dublin

Project: Unocal

6747 Sierra Court Suite J Dublin CA, 94568 Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported: 13-Jul-00 08:38

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-3 (W006544-04) Water	Sampled: 21-Jun-00 09:00	Received: 2	21-Jun-0	0 20:00					
Purgeable Hydrocarbons	ND	50	ug/l	1	0F30001	30-Jun-00	30-Jun-00	EPA 8015M/8020	
Benzene	ND	0.50	tr	Ħ	н	**	H	*	
Toluene	ND	0.50	Ħ	R	II .	**	"	n	
Ethylbenzene	ND	0.50	-	. "	H	11	n ·	*	
Xylenes (total)	ND	0.50	**			11	"	•	
Methyl tert-butyl ether	ND	2.5	11	н	•	tt .	H	•	
Surrogate: a,a,a-Trifluoroto	oluene	95.3 %	70-	-130	#	"	m	#	
U-4 (W006544-05) Water	Sampled: 21-Jun-00 09:40	Received: 2	21-Jun-0	0 20:00					
Purgeable Hydrocarbons	ND	50	ug/l	1	0F30001	30-Jun-00	30-Jun-00	EPA 8015M/8020	
Benzene	ND	0.50	"	**	- 17	"	11	₩	٠.
Toluene	ND	0.50	"		•	"	H	•	
Ethylbenzene	ND	0.50	**	**		**	. "		
Xylenes (total)	ND	0.50	"		₩,	u	n	Ħ	
Methyl tert-butyl ether	ND	2.5	**	*		11	"		
Surrogate: a,a,a-Trifluoroto	oluene	101 %	70-	-130	#	,,	"	#	
U-5 (W006544-06) Water	Sampled: 21-Jun-00 10:55	Received: 2	21 -J un-0	0 20:00					P-01
Purgeable Hydrocarbons	700	50	ug/l	1	0F30001	30-Jun-00	30-Jun-00	EPA 8015M/8020	
Benzene	4.0	0.50	11	**	•	"	H	HT .	
Toluene	ND	0.50	Ħ	**	=	"	Ħ		
Ethylbenzene	0.99	0.50	н	**	"	11	"		
Xylenes (total)	4.0	0.50	n	11	*1	11	**	*	
Methyl tert-butyl ether	120	2.5	n	**	**	П	н	**	,
Surrogate: a,a,a-Trifluorote	oluene	176 %	70	-130	,,	n	"	*	S-04



Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J

Dublin CA, 94568

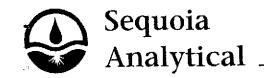
Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported:

13-Jul-00 08:38

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-6 (W006544-07) Water	Sampled: 21-Jun-00 10:15	Received:	21-Jun-0	0 20:00					
Purgeable Hydrocarbons	ND	50	ug/l	1	0F30001	30-Jun-00	30-Jun-00	EPA 8015M/8020	
Benzene	ND	0.50	17	•	•		11	"	
Toluene	ND	0.50	Ħ	n	*	in	· ·	H	
Ethylbenzene	ND	0.50	n	,,	,	n	n	#1	
Xylenes (total)	ND	0.50	H		*		•	Ħ	
Methyl tert-butyl ether	400	2.5	"	**			n	n	
Surrogate: a,a,a-Trifluorote	oluene	105 %	70-	130	"	"	"	"	.



Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported: 13-Jul-00 08:38

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W006544-02) Water	Sampled: 21-Jun-00 12:15	Received: 2	21-Jun-0	20:00			•		
Methyl tert-butyl ether	20000	1000	ug/l	500	0G05015	03-Jul-00	05-Jul-00	EPA 8260A	
Surrogate: Dibromofluorom	ethane	94.0 %	50-	150	n	"	"	"	
Surrogate: 1,2-Dichloroethe	ane-d4	82.0 %	50-	150	n	"	n	"	
U-2 (W006544-03) Water	Sampled: 21-Jun-00 11:30	Received:	21-Jun-0	D 20:00					
Methyl tert-butyl ether	22000	1000	ug/l	500	0G05015	03-Jul-00	05-Jul-00	EPA 8260A	
Surrogate: Dibromofluorom	ethane	94.0 %	50-	150	"	"	"	п	
Surrogate: 1,2-Dichloroethe	ane-d4	82.0 %	50-	150	"	"	"	,,	
U-5 (W006544-06) Water	Sampled: 21-Jun-00 10:55	Received:	21-Jun-0	0 20:00					
Methyl tert-butyl ether	140	2.0	ug/l	1	0G05015	03-Jul-00	05-Jul-00	EPA 8260A	
Surrogate: Dibromofluoron	iethane	94.0 %	50-	150	11	"	"	"	
Surrogate: 1,2-Dichloroeth		84.0 %	50-	150	n	n	Ħ	#	
U-6 (W006544-07) Water	Sampled: 21-Jun-00 10:15	Received:	21-Jun-0	0 20:00					
Methyl tert-butyl ether	590	5.0	ug/l	2.5	0G05015	03-Jul-00	05-Jul-00	EPA 8260A	
Surrogate: Dibromofluoron	rethane	106 %	50-	150	Ħ	"	PF	"	
Surrogate: 1,2-Dichloroeth	ane-d4	90.0 %	<i>50</i> -	150	"	"	"	. "	





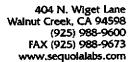
Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Unocal

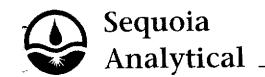
Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported: 13-Jul-00 08:38

Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W006544-02) Water	Sampled: 21-Jun-00 12:15	Received:	21-Jun-0	0 20:00					
Ferrous Iron	9.3	0.010	mg/l	1	0G05014	05-Jul-00	11-Jul-00	EPA 6010A	
U-2 (W006544-03) Water	Sampled: 21-Jun-00 11:30	Received:	21-Jun-0	0 20:00					
Ferrous Iron	0.26	0.010	mg/l	1	0G05014	05-Jul-00	1 1-Jul-00	EPA 6010A	······································
U-3 (W006544-04) Water	Sampled: 21-Jun-00 09:00	Received:	21-Jun-0	0 20:00					_
Ferrous Iron	0.20	0.010	mg/l	1	0G05014	05-Jul-00	1 1-Jul-00	EPA 6010A	
U-4 (W006544-05) Water	Sampled: 21-Jun-00 09:40	Received:	21-Jun-0	0 20:00					
Ferrous Iron	0.034	0.010	mg/l	1	0G05014	05-Jul-00	11-Jul-00	EPA 6010A	
U-5 (W006544-06) Water	Sampled: 21-Jun-00 10:55	Received:	21-Jun-0	0 20:00					
Ferrous Iron	0.15	0.010	mg/l	1	0G05014	05-Jul-00	11-Jul-00	EPA 6010A	
U-6 (W006544-07) Water	Sampled: 21-Jun-00 10:15	Received:	21-Jun-0	0 20:00					
Ferrous Iron	1.9	0.010	mg/l	1	0G05014	05-Jul-00	11-Jul-00	EPA 6010A	

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported: 13-Jul-00 08:38

Anions by EPA Method 300.0

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W006544-02) Water	Sampled: 21-Jun-00 12:15	Received:	21-Jun-0	0 20:00					
Nitrate as NO3	ND	1.0	mg/l	10	0F27016	23-Jun-00	23-Jun-00	EPA 300.0	
Phosphate	, ND	5.00	n	**	n	. "	11		
U-2 (W006544-03) Water	Sampled: 21-Jun-00 11:30	Received:	21-Jun-0	0 20:00					
Nitrate as NO3	ND	1.0	mg/l	10	0F27016	23-Jun-00	23-Jun-00	EPA 300.0	
Phosphate	ND	5.00	н	17	**	11	"	**	
U-3 (W006544-04) Water	Sampled: 21-Jun-00 09:00	Received:	21-Jun-0	0 20:00					
Nitrate as NO3	32	1.0	mg/l	10	0F27016	23-Jun-00	23-Jun-00	EPA 300.0	
Phosphate	ND	5.00	-	*	n	11	**	W	
U-4 (W006544-05) Water	Sampled: 21-Jun-00 09:40	Received:	21-Jun-0	0 20:00					
Nitrate as NO3	32	1.0	mg/l	10	0F27016	23-Jun-00	23-Jun-00	EPA 300.0	
Phosphate	ND	5.00	Ħ	11	**	Ħ	u	H	
U-5 (W006544-06) Water	Sampled: 21-Jun-00 10:55	Received:	21-Jun-0	0 20:00					
Nitrate as NO3	ND	1.0	mg/l	10	0F27016	23-Jun-00	23-Jun-00	EPA 300.0	
Phosphate	ND	5.00	"	**	"	11	**		
U-6 (W006544-07) Water	Sampled: 21-Jun-00 10:15	Received	21-Jun-0	0 20:00			. <u> </u>		
Nitrate as NO3	ND	1.0	mg/l	10	0F27016	23-Jun-00	23-Jun-00	EPA 300.0	
Phosphate	ND	5.00	1 11	n	"	H		u	



Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

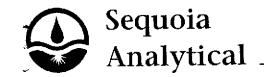
Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported:

13-Jul-00 08:38

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0F30001 - EPA 5030B [P/T]	·									
Blank (0F30001-BLK1)		·		Prepared	& Analyzo	ed: 30-Jur	1-00			
Purgeable Hydrocarbons	ND	50	ug/l	•						
Benzene	ND	0.50	**							
Toluene	NĐ	0.50	n							
Ethylbenzene	ND	0,50	u							
Xylenes (total)	ND	0.50	**							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	29.8		н	30.0		99.3	70-130			
LCS (0F30001-BS1)				Prepared	& Analyzo	ed: 30-Jur	- 00		-	
Benzene	17.1	0.50	ug/l	20.0		85.5	70-130			· · ·
Toluene	19.0	0.50	"	20.0		95.0	70-130			
Ethylbenzene	20.9	0.50	**	20.0		104	70-130			
Xylenes (total)	61.9	0.50	11	60.0		103	70-130			
Surrogate: a,a,a-Trifluorotoluene	25.0		н	30,0	•	83.3	70-130			
LCS Dup (0F30001-BSD1)				Prepared	& Analyzo	ed: 30-Jur	- 00			
Benzene	16.9	0.50	ug/l	20.0	·	84.5	70-130	1.18	20	
Toluene	18.9	0.50	Ħ	20.0		94.5	70-130	0.528	20	
Ethylbenzene	22.5	0.50	п	20.0		113	70-130	7.37	20	
Xylenes (total)	62.6	0.50	H	60.0		104	70-130	1.12	20	
Surrogate: a, a, a-Trifluorotoluene	25.4		-	30.0		84.7	70-130			

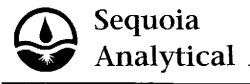


Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported: 13-Jul-00 08:38

MTBE Confirmation by EPA Method 8260A - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0G05015 - EPA 5030B [P/T]										
Blank (0G05015-BLK1)				Prepared	& Analyz	ed: 03-Jul	-00			
Methyl tert-butyl ether	ND	2.0	ug/l				-			
Surrogate: Dibromofluoromethane	50.0		"	50.0		100	50-150			
Surrogate: 1,2-Dichloroethane-d4	47.0		*	50.0		94.0	50-150			
Blank (0G05015-BLK2)				Prepared	& Analyz	ed: 05-Jul	-00			
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromosluoromethane	50.0		п	50.0		100	50-150			
Surrogate: 1,2-Dichloroethane-d4	46.0		**	50.0		92.0	50-150			
Blank (0G05015-BLK3)				Prepared	& Analyz	ed: 06 -J ul	-00			
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	48.0		н	50.0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	50-150			
LCS (0G05015-BS1)				Prepared	& Analyz	ed: 03-Jul	-00			
Methyl tert-butyl ether	43.9	2.0	ug/l	50.0		87.8	70-130			
Surrogate: Dibromofluoromethane	50.0	<u> </u>	. "	50.0		100	50-150			
Surrogate: 1,2-Dichloroethane-d4	45.0		"	50.0		90.0	50-150			
LCS (0G05015-BS2)				Prepared	& Analyz	ed: 05-Jul	-00			
Methyl tert-butyl ether	45.7	2.0	ug/l	50.0		91.4	70-130			
Surrogate: Dibromofluoromethane	49.0			50.0		98.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	45.0		**	50.0		90.0	50-150			
LCS (0G05015-BS3)				Prepared	l & Analyz	ed: 06-Ju	1-00			
Methyl tert-butyl ether	46.4	2.0	ug/l	50.0		92.8	70-130			
Surrogate: Dibromofluoromethane	50.0		"	50.0		100	50-150	-		
Surrogate: 1,2-Dichloroethane-d4	45.0		,,	50.0		90.0	50-150			



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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding

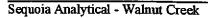
Reported: 13-Jul-00 08:38

MTBE Confirmation by EPA Method 8260A - Quality Control Sequoia Analytical - Walnut Creek

Analyte Res	Reporting sult Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch 0G05015 - EPA 5030B [P/T]

LCS Dup (0G05015-BSD1)				Prepared & A	nalyzed: 03-Jul	-00			
Methyl tert-butyl ether	48.4	2.0	ug/l	50.0	96.8	70-130	9.75	25	
Surrogate: Dibromofluoromethane	50.0		п	50.0	100	50-150			
Surrogate: 1,2-Dichloroethane-d4	49.0		"	50.0	98.0	50-150			





Sequoia Analytical

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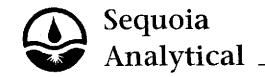
Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding

Reported: 13-Jul-00 08:38

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0G05014 - 200.7										
Blank (0G05014-BLK1)				Prepared:	05-Jul-00	Analyzed	l: 11-Jul-0	0		
Ferrous Iron	ND	0.010	mg/l					'		
LCS (0G05014-BS1)				Prepared	: 05-Jul-00	Analyzed	l: 11-Jul-0	0		
Ferrous Iron	0.980	0.010	mg/l	1.00		98.0	80-120			•
LCS Dup (0G05014-BSD1)				Prepared	: 05-Jul-00	Analyze	i: 11-Jul-0	0		
Ferrous Iron	0.960	0.010	mg/l	1.00		96.0	80-120	2.06	20	
Matrix Spike (0G05014-MS1)	So	urce: W0065	38-01	Prepared	: 05-Jul-00	Analyze	i: 11-Jul-0	0		
Ferrous Iron	1.10	0.010	mg/l	1.00	0.054	105	80-120			
Matrix Spike Dup (0G05014-MSD1)	So	urce: W0065	38-01	Prepared	: 05 -Jul -00) Analyzeo	i: 11-Jul-0	0		
Ferrous Iron	1.06	0.010	mg/l	1.00	0.054	101	80-120	3.70	20	



Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

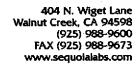
Project: Unocal

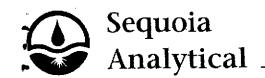
Project Number: Unocal # 5325 Project Manager: Deanna L. Harding

Reported: 13-Jul-00 08:38

Anions by EPA Method 300.0 - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0F27016 - General Preparation										
Blank (0F27016-BLK1)				Prepared	& Analyz	ed: 23-Jur	-0 0			
Nitrate as NO3	ND	0.10	mg/l							
Phosphate	ND	0.500	Ħ							
LCS (0F27016-BS1)				Prepared	& Analyz	ed: 23-Jur	- 00			
Nitrate as NO3	9.68	0.10	mg/i	10.0		96.8	80-120			
Phosphate	20.7	0.500	11	20.0		104	80-120			
Matrix Spike (0F27016-MS1)	Sc	urce: W0065	35-01	Prepared	& Analyz	ed: 23 -J ur	ı - 00			
Nitrate as NO3	11.1	0.20	mg/l	10.0	1.5	96.0	75-125		 	
Phosphate	19.7	1.00	, h	20.0	ND	98.5	75-125			
Matrix Spike Dup (0F27016-MSD1)	Sc	ource: W0065	35-01	Prepared	& Analyz	ed: 23-Jur	1-00			
Nitrate as NO3	11.0	0.20	mg/i	10.0	1.5	95.0	75-125	0.905	20	•
Phosphate	19.7	1.00	•	20.0	ND	98.5	75-125	0 .	20	





Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Unocal

Project Number: Unocal # 5325 Project Manager: Deanna L. Harding Reported: 13-Jul-00 08:38

Notes and Definitions

P-01 Chromatogram Pattern: Gasoline C6-C12

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference