



GETTLER-RYAN INC.

TRANSMITTAL

June 28, 2001
G-R #: 180063

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

CC: Mr. Douglas Lee
Gettler Ryan, Inc.
Dublin, California

JUL 16 2001

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Tosco (Unocal) SS #0746
3943 Broadway
Oakland California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	June 22, 2001	Groundwater Monitoring and Sampling Report First Semi-Annual - Event of May 15, 2001

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 **July 11, 2001**, this report will be distributed to the following:

Ms. Eva Chu, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502

Enclosure

trans/0746-DBD



GETTLER-RYAN INC.

June 22, 2001
G-R Job #180063

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

RE: First Semi-Annual Event of May 15, 2001
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

Dear Mr. De Witt:

This report documents the monthly site visits and the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

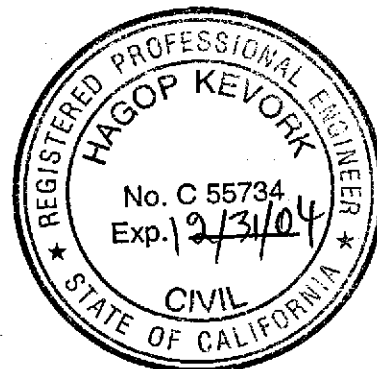
Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. ~~Product Thickness/Removal Data are presented in Table 3.~~ Dissolved Oxygen Concentrations are summarized in Table 2. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R 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 4. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

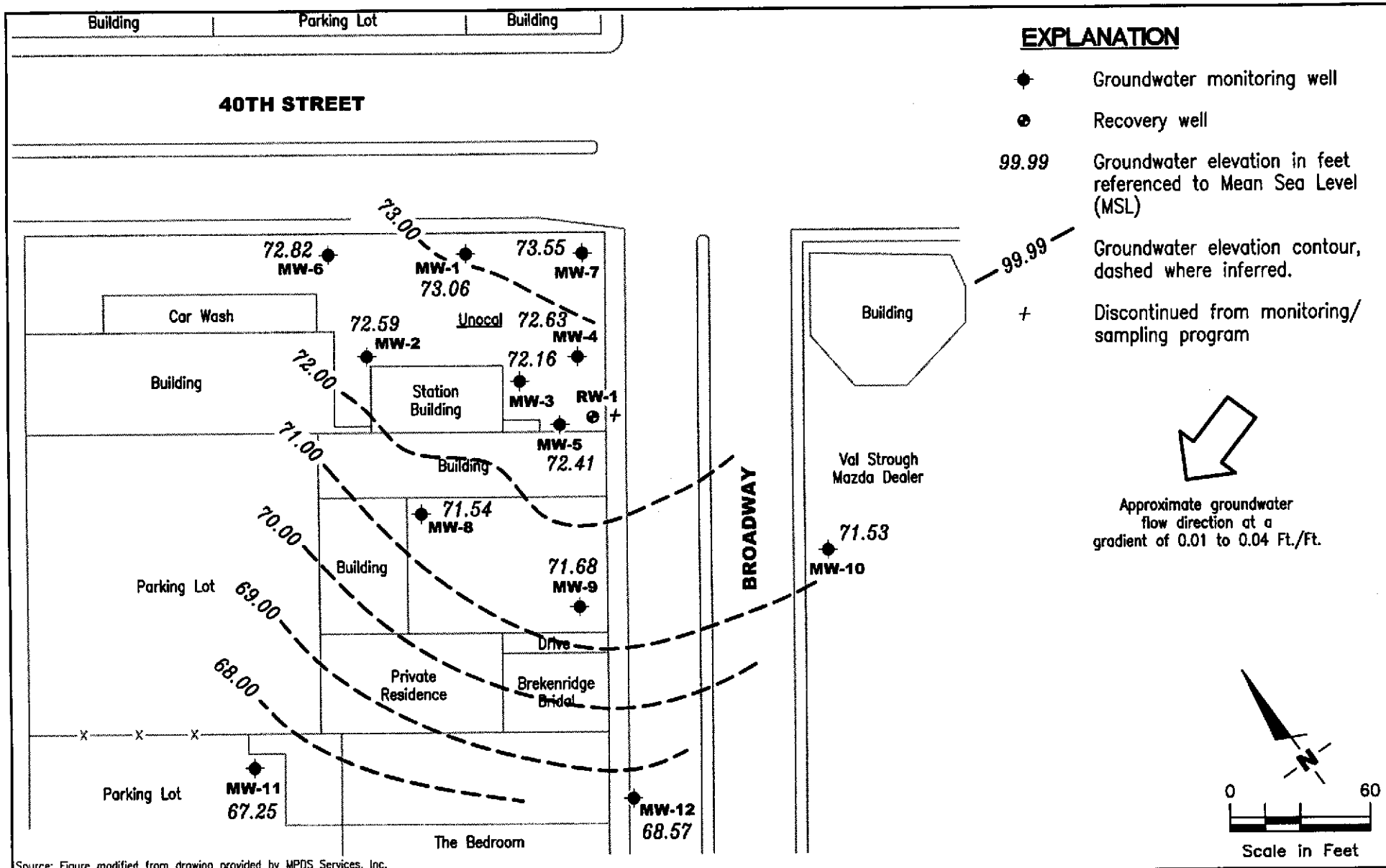
Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734



- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Dissolved Oxygen Concentrations
- Table 3: Product Thickness/Removal Data
- Table 4: Groundwater Analytical Results - Oxygenate Compounds
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

0746.qml



Source: Figure modified from drawing provided by MPDS Services, Inc.

GETTLER - RYAN INC.
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 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

FIGURE

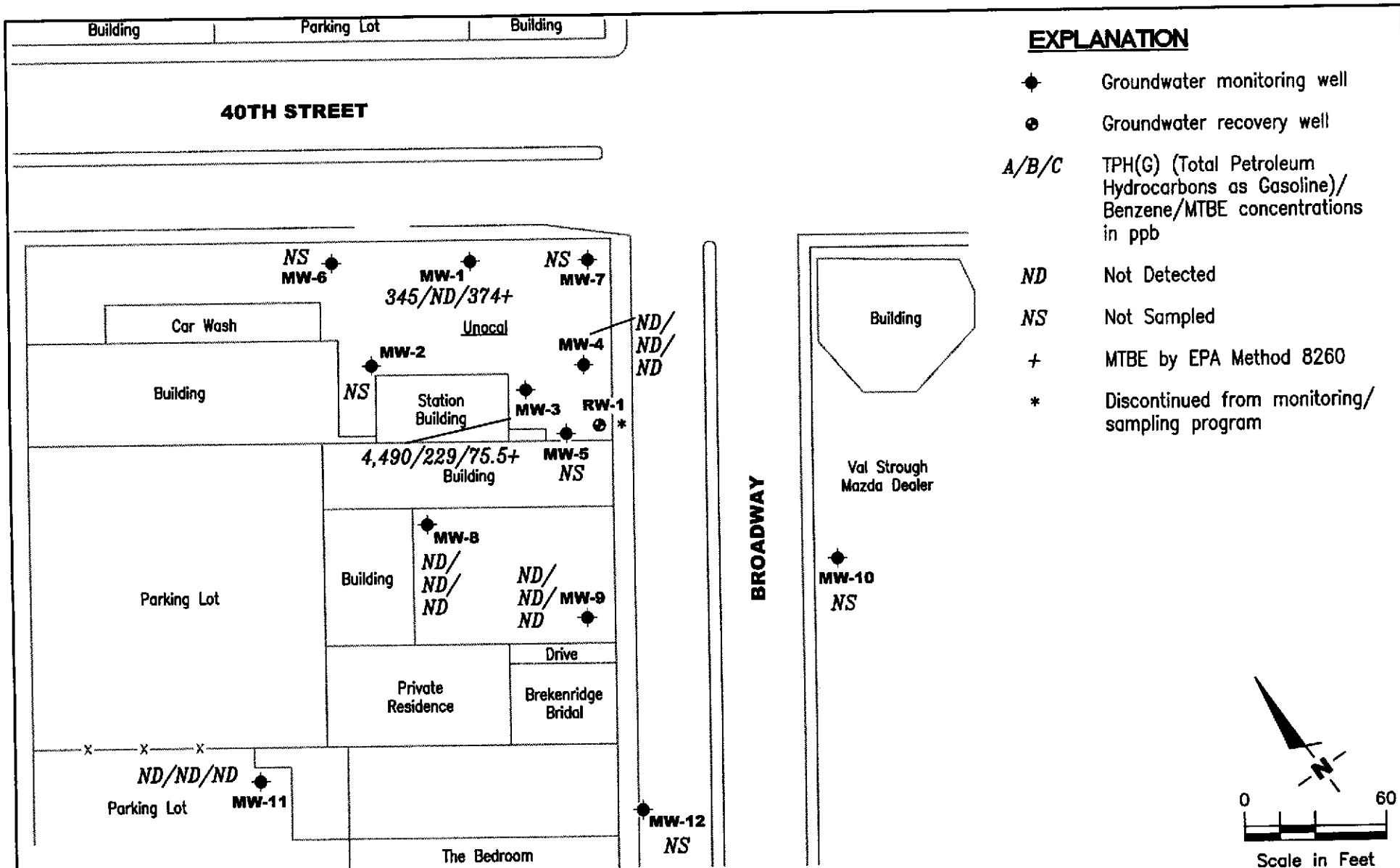
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JOB NUMBER
180063

REVIEWED BY

DATE
May 15, 2001

REVISED DATE



Source: Figure modified from drawing provided by MPDS Services, Inc.

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CONCENTRATION MAP
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

FIGURE

2

JOB NUMBER
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REVIEWED BY

DATE
May 15, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product							MTBE (ppb)
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)		
MW-1	11/01/89	--	--	--	ND	ND	ND	ND	ND	0.3	--
	02/15/90	--	--	--	170	7.9	ND	2.2	2.8	--	--
	08/16/90	--	--	--	ND	ND	ND	ND	ND	--	--
	11/07/90	--	--	--	45	ND	ND	ND	ND	--	--
	02/25/91	--	--	--	ND	ND	ND	ND	ND	--	--
	05/28/91	--	--	--	ND	ND	ND	ND	ND	--	--
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--	--
	11/19/91	--	--	--	ND	ND	ND	ND	ND	--	--
	02/06/92	--	--	--	ND	ND	ND	ND	ND	--	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--	--
11/20/92	--	--	--	ND	0.75	ND	ND	ND	ND	--	--
81.07	12/21/92	8.12	72.95	0.00	--	--	--	--	--	--	--
	01/30/93	7.63	73.44	0.00	--	--	--	--	--	--	--
	02/24/93	7.16	73.91	0.00	1,100	280	4.9	120	140	--	--
	03/22/93	6.26	74.81	0.00	--	--	--	--	--	--	--
	04/28/93	7.91	73.16	0.00	--	--	--	--	--	--	--
05/25/93	7.87	73.20	0.00	260	27	4.9	2.6	54	--	--	
80.54	06/23/93	7.66	72.88	0.00	--	--	--	--	--	--	--
	07/22/93	7.87	72.67	0.00	--	--	--	--	--	--	--
	08/25/93	8.00	72.54	0.00	ND	ND	ND	ND	ND	--	--
	09/22/93	8.10	72.44	0.00	--	--	--	--	--	--	--
	10/28/93	8.15	72.39	0.00	--	--	--	--	--	--	--
	11/30/93	7.65	72.89	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--
	02/16/94	7.46	73.08	0.00	ND	0.84	ND	ND	0.59	--	--
	05/31/94	7.80	72.74	0.00	--	--	--	--	--	--	--
	08/31/94	8.27	72.27	0.00	ND	ND	0.98	ND	0.84	--	--
	09/27/94	8.37	72.17	0.00	--	--	--	--	--	--	--
	10/11/94	8.36	72.18	0.00	--	--	--	--	--	--	--
	11/10/94	6.43	74.11	0.00	--	--	--	--	--	--	--
02/07/95	7.06	73.48	0.00	6,100	670	ND	120	60	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	05/03/95	6.85	73.69	0.00	260	21	39	17	24	--
(cont)	08/03/95	7.69	72.85	0.00	--	--	--	--	--	--
	11/07/95	8.15	72.39	0.00	ND	ND	ND	ND	ND	--
	05/06/96	7.40	73.14	0.00	170	1.0	20	2.3	17	55
	11/05/96	7.90	72.64	0.00	ND	ND	ND	ND	ND	5.2
	05/15/97	7.77	72.77	0.00	ND	ND	ND	ND	ND	16
	11/12/97	7.48	73.06	0.00	ND	ND	ND	ND	ND	11
NP	05/04/98	7.39	73.15	0.00	ND	ND	ND	ND	ND	320
NP	11/11/98	7.37	73.17	0.00	ND	ND	ND	ND	ND	200
NP	05/20/99	7.41	73.13	0.00	ND	ND	ND	ND	ND	89/47 ^{7,8,9}
	11/15/99	7.84	72.70	0.00	ND	ND	ND	ND	ND	8.12/7.19 ¹²
	05/22/00	7.53	73.01	0.00	ND	0.89	ND	ND	ND	220/290 ¹²
	11/22/00	7.35	73.19	0.00	ND	ND	ND	ND	ND	105/142 ⁷
	05/15/01	7.48	73.06	0.00	345¹¹	ND⁵	3.41	2.77	25.2	178/374¹²
MW-2	11/01/89	--	--	--	200	ND	ND	3.0	1.2	--
	02/15/90	--	--	--	ND	ND	ND	ND	ND	--
	08/16/90	--	--	--	ND	ND	6.7	ND	ND	--
	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	ND	0.68	0.42	ND	0.86	--
	05/28/91	--	--	--	ND	ND	ND	ND	ND	--
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--
	11/19/91	--	--	--	ND	ND	ND	ND	ND	--
	02/06/92	--	--	--	ND	0.36	0.66	ND	0.62	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	510 ¹	ND	ND	ND	ND	--
81.62	12/21/92	9.14	72.48	0.00	--	--	--	--	--	--
	01/30/93	8.99	72.63	0.00	--	--	--	--	--	--
	02/24/93	8.03	73.59	0.00	11,000 ¹	ND	ND	ND	ND	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	03/22/93	9.50	72.12	0.00	--	--	--	--	--	--
(cont)	04/28/93	8.87	72.75	0.00	--	--	--	--	--	--
	05/25/93	9.04	72.58	0.00	1,300 ¹	ND	ND	ND	ND	2,700
81.32	06/23/93	9.17	72.15	0.00	--	--	--	--	--	--
	07/22/93	9.42	71.90	0.00	--	--	--	--	--	--
	08/25/93	9.53	71.79	0.00	190 ¹	ND	ND	ND	ND	--
	09/22/93	9.67	71.65	0.00	--	--	--	--	--	--
	10/28/93	9.65	71.67	0.00	--	--	--	--	--	--
	11/30/93	9.18	72.14	0.00	480 ¹	ND	ND	ND	ND	--
	02/16/94	8.91	72.41	0.00	3,200 ¹	ND	ND	ND	ND	--
	05/31/94	9.36	71.96	0.00	1,100 ¹	ND	ND	ND	ND	--
	08/31/94	9.85	71.47	0.00	310 ¹	ND	ND	ND	ND	--
	09/27/94	9.95	71.37	0.00	--	--	--	--	--	--
	10/11/95	9.95	71.37	0.00	--	--	--	--	--	--
	11/10/94	7.47	73.85	0.00	95 ²	ND	ND	ND	ND	--
	02/07/95	8.29	73.03	0.00	1,600 ¹	ND	ND	ND	ND	--
	05/03/95	8.12	73.20	0.00	ND	ND	ND	ND	ND	--
	08/03/95	9.35	71.97	0.00	ND	ND	ND	ND	ND	--
	11/07/95	9.65	71.67	0.00	ND	ND	ND	ND	ND	160 ³
	05/06/96	8.90	72.42	0.00	SAMPLING DISCONTINUED ⁴			--	--	--
	11/05/96	10.98	70.34	0.00	--	--	--	--	--	--
	05/15/97	9.13	72.19	0.00	--	--	--	--	--	--
	11/12/97	9.84	71.48	0.00	--	--	--	--	--	--
	05/04/98	9.26	72.06	0.00	--	--	--	--	--	--
	11/11/98	8.88	72.44	0.00	--	--	--	--	--	--
	05/20/99	8.68	72.64	0.00	--	--	--	--	--	--
	11/15/99	8.91	72.41	0.00	--	--	--	--	--	--
	05/22/00	8.61	72.71	0.00	--	--	--	--	--	--
	11/22/00	8.64	72.68	0.00	--	--	--	--	--	--
	05/15/01	8.73	72.59	0.00	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	11/01/89	--	--	--	13,000	57	48	1.7	120	--
	02/15/90	--	--	--	20,000	1,700	2,100	750	3,100	--
	08/16/90	--	--	--	6,800	600	660	760	160	--
	11/07/90	--	--	--	42,000	1,400	5,000	1,800	7,500	--
	02/25/91	--	--	--	37,000	730	2,900	1,300	7,300	--
	05/28/91	--	--	--	24,000	570	1,100	810	4,200	--
	08/28/91	--	--	--	16,000	650	2,200	1,100	5,400	--
	11/19/91	--	--	--	22,000	250	440	660	3,000	--
	02/06/92	--	--	--	24,000	600	1,800	1,200	5,800	--
	05/23/92	--	--	--	25,000	300	130	880	4,900	--
	08/26/92	--	--	--	20,000	690	1,900	1,300	5,700	--
11/20/92	--	--	--	1,100,000 ²	1,800	6,400	3,000	15,000	--	
82.01	12/04/92	10.30	71.71**	0.00	--	--	--	--	--	--
	12/21/92	9.78	72.23	Trace	--	--	--	--	--	--
	01/09/93	8.55	73.46	0.00	--	--	--	--	--	--
	01/30/93	8.90	73.11	0.00	--	--	--	--	--	--
	02/10/93	9.01	73.01**	0.01	--	--	--	--	--	--
	02/24/93	8.26	73.76**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/09/93	9.18	72.85**	0.02	--	--	--	--	--	--
	03/22/93	8.81	73.22**	0.02	--	--	--	--	--	--
	04/08/93	9.14	72.89**	0.02	--	--	--	--	--	--
	04/28/93	9.44	72.59**	0.03	--	--	--	--	--	--
	05/12/93	9.57	72.46**	0.03	--	--	--	--	--	--
05/25/93	9.45	72.58**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	
81.41	06/07/93	8.94	72.47	<0.01	--	--	--	--	--	--
	06/23/93	9.20	72.23**	0.02	--	--	--	--	--	--
	07/08/93	9.31	72.12**	0.03	--	--	--	--	--	--
	07/22/93	9.47	71.94	<0.01	--	--	--	--	--	--
	08/11/93	9.59	71.82	<0.01	--	--	--	--	--	--
	08/25/93	9.67	71.76**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/08/93	10.34	71.07	<0.01	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
				Thickness (ft.)						
MW-3	09/22/93	9.84	71.59**	0.02	--	--	--	--	--	--
(cont)	10/07/93	9.87	71.54	<0.01	--	--	--	--	--	--
	10/28/93	10.03	71.38	0.00	--	--	--	--	--	--
	11/12/93	9.76	71.65	<0.01	--	--	--	--	--	--
	11/30/93	9.66	71.77**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/16/94	8.87	72.54	Sheen	57,000	910	2,500	2,100	9,000	--
	05/31/94	9.48	71.93	<0.01	39,000	670	630	1,500	6,200	--
	08/31/94	10.08	71.33	0.00	44,000	500	240	1,400	5,700	--
	09/24/94	10.22	71.19	0.00	--	--	--	--	--	--
	10/11/94	10.41	71.01**	0.01	--	--	--	--	--	--
	11/10/94	7.47	73.94	Sheen	86,000	3,300	3,800	1,800	8,300	--
	02/07/95	8.05	73.36	0.00	45,000	1,400	1,300	1,500	5,600	--
	03/14/95	7.05	74.36	0.00	--	--	--	--	--	--
	05/03/95	7.91	73.50	0.00	26,000	740	990	1,100	4,400	--
	08/03/95	9.28	72.13	0.00	18,000	59	ND	530	1,900	--
	11/07/95	10.79	70.62	0.00	17,000	110	26	400	1,500	880 ³
	05/06/96	9.44	71.97	Sheen	5,100	48	ND	87	210	370
	11/05/96	10.64	70.77	0.00	35,000	2,200	ND	1,200	2,800	460
	05/15/97	9.61	71.80	0.00	2,400	110	ND	ND	140	100
	11/12/97	9.18	72.23	0.00	29,000	2,000	ND	1,800	3,000	ND
NP	05/04/98	9.50	71.91	0.00	8,200	430	ND ⁵	310	320	ND ⁵
NP	11/11/98	9.25	72.16	0.00	8,700	500	ND ⁵	330	310	ND ⁵
NP	05/20/99	8.95	72.46	0.00	4,300	250	ND ⁵	ND ⁵	86	ND ⁵
	11/15/99	10.35	71.06	0.00	6,720 ¹¹	326	ND ⁵	398	226	120/45.1 ¹²
	05/22/00	9.14	72.27	0.00	4,000 ¹¹	99	4.5	190	75	100/94 ¹²
	11/22/00	9.33	72.08	0.00	6,130 ¹⁵	93.7	6.71	174	47.8	212/131 ⁷
	05/15/01	9.25	72.16	0.00	4,490 ¹¹	229	7.09	160	31.6	97.1/75.5 ¹²

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	02/15/90	--	--	--	150	8.0	8.0	10	45	--
	08/16/90	--	--	--	3,600	480	17	230	260	--
	11/07/90	--	--	--	180	1.5	0.37	6.3	26	--
	02/25/91	--	--	--	22,000	600	1,300	780	2,800	--
	05/28/91	--	--	--	38	ND	ND	ND	1.9	--
	08/28/91	--	--	--	2,000	1,500	20	120	300	--
	11/19/91	--	--	--	55	9.2	4.5	1.4	6.7	--
	02/06/92	--	--	--	5,700	2,200	140	57	980	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	120	86	0.52	0.57	1.6	--
	11/20/92	--	--	--	ND	6.2	ND	1.2	0.52	--
81.48	12/21/93	9.10	72.38	0.00	--	--	--	--	--	--
	01/30/93	8.35	73.13	0.00	--	--	--	--	--	--
	02/24/93	8.17	73.31	0.00	140	12	0.64	9.4	3.7	--
	03/22/93	8.12	73.36	0.00	--	--	--	--	--	--
	04/28/93	9.36	72.12	0.00	--	--	--	--	--	--
81.29	05/25/93	8.75	72.73	0.00	74	10	ND	4.6	1.8	--
	06/23/93	8.90	72.39	0.00	--	--	--	--	--	--
	07/22/93	9.26	72.03	0.00	--	--	--	--	--	--
	08/25/93	9.45	71.84	0.00	640	100	1.1	100	22	--
	09/22/93	9.63	71.66	0.00	--	--	--	--	--	--
	10/28/93	9.62	71.67	0.00	--	--	--	--	--	--
	11/30/93	9.40	71.89	0.00	200	28	ND	17	8.1	--
	02/16/94	9.21	72.08	0.00	190	11	0.98	21	6.6	--
	05/31/94	9.11	72.18	0.00	1,100	190	ND	100	58	--
	08/31/94	10.01	71.28	0.00	400	17	0.94	14	5.2	--
	09/27/94	10.09	71.20	0.00	--	--	--	--	--	--
	10/11/94	11.50	69.79	0.00	--	--	--	--	--	--
	11/10/94	9.21	72.08	0.00	7,700	1,800	280	460	1,300	--
	02/07/95	7.66	73.63	0.00	540	47	ND	17	2.5	--
	05/03/95	8.29	73.00	0.00	160	8.3	0.52	1.5	3.7	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	08/03/95	8.60	72.69	0.00	57	2.0	ND	ND	ND	--
(cont)	11/07/95	10.28	71.01	0.00	ND	0.71	ND	ND	ND	0.86
	05/06/96	8.70	72.59	0.00	1,200	12	11	15	36	ND
	11/05/96	10.00	71.29	0.00	700	32	0.71	1.8	1.3	6.5
	05/15/97	9.37	71.92	0.00	51	ND	ND	ND	ND	ND
	11/12/97	8.92	72.37	0.00	74	1.7	ND	ND	ND	ND
NP	05/04/98	9.48	71.81	0.00	ND	ND	ND	ND	ND	ND
NP	11/11/98	9.13	72.16	0.00	ND	0.63	ND	ND	ND	ND
NP	05/20/99	8.41	72.88	0.00	ND	ND	ND	ND	ND	ND
	11/15/99	9.68	71.61	0.00	ND	ND	ND	ND	ND	ND
	05/22/00	8.60	72.69	0.00	ND	ND	ND	ND	ND	ND
	11/22/00	8.91	72.38	0.00	ND	ND	ND	ND	ND	ND
	05/15/01	8.66	72.63	0.00	ND	ND	1.10	ND	1.16	ND
MW-5	02/15/90	--	--	--	24,000	1,500	1,700	260	3,600	--
	08/16/90	--	--	--	16,000	1,400	1,900	2,800	660	--
	11/07/90	--	--	--	20,000	640	1,100	670	3,000	--
	02/25/91	--	--	--	25,000	950	1,300	900	3,500	--
	05/28/91	--	--	--	24,000	2,300	3,400	1,300	6,000	--
	08/28/91	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/19/91	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/06/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	05/23/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	08/26/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/20/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
81.59	12/04/92	10.03	71.62**	0.08	--	--	--	--	--	--
	12/21/92	9.50	72.10**	0.01	--	--	--	--	--	--
	01/09/93	8.22	73.37	0.00	--	--	--	--	--	--
	01/30/93	8.58	73.01	Trace	--	--	--	--	--	--
	02/10/93	8.68	72.91	Trace	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
				Thickness (ft.)						
MW-5	02/24/93	7.91	73.69**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
(cont)	03/09/93	8.87	72.73**	0.01	--	--	--	--	--	--
	03/22/93	8.46	73.14**	0.01	--	--	--	--	--	--
	04/08/93	8.84	72.76**	0.01	--	--	--	--	--	--
	04/28/93	9.14	72.47**	0.02	--	--	--	--	--	--
	05/12/93	9.28	72.33**	0.02	--	--	--	--	--	--
	05/25/93	9.63	72.06**	0.13	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
81.38	06/07/93	9.75	71.64**	0.01	--	--	--	--	--	--
	06/23/93	9.32	72.08**	0.03	--	--	--	--	--	--
	07/08/93	9.48	71.93**	0.04	--	--	--	--	--	--
	07/22/93	9.73	71.77**	0.16	--	--	--	--	--	--
	08/11/93	9.84	71.57**	0.04	--	--	--	--	--	--
	08/25/93	9.81	71.59**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/08/93	10.09	71.31**	0.03	--	--	--	--	--	--
	09/22/93	10.01	71.41**	0.05	--	--	--	--	--	--
	10/07/93	9.94	71.46**	0.03	--	--	--	--	--	--
	10/28/93	10.04	71.36**	0.02	--	--	--	--	--	--
	11/12/93	9.79	71.59	<0.01	--	--	--	--	--	--
	11/30/93	9.62	71.76	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/16/94	8.95	72.45**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	05/31/94	9.63	71.75	<0.01	43,000	1,500	1,200	1,600	6,700	--
	08/31/94	10.25	71.15**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/27/94	10.38	71.00	<0.01	--	--	--	--	--	--
	10/11/94	10.45	70.95**	0.02	--	--	--	--	--	--
	11/10/94	7.54	73.90**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/07/95	8.10	73.28	0.00	25,000	1,400	740	990	3,000	--
	03/14/95	7.04	74.34	0.00	--	--	--	--	--	--
	05/03/95	7.98	73.40	0.00	12,000	680	160	600	1,800	--
	08/03/95	9.25	72.13	0.00	23,000	940	280	810	2,700	--
	11/07/95	10.00	71.38	0.00	40,000	510	280	1,000	5,700	630 ³
	05/06/96	9.03	72.35	Sheen	13,000	200	ND	180	610	170

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	11/05/96	10.41	70.97	0.00	35,000	1,800	ND	1,300	4,900	580
(cont)	05/15/97	9.41	71.97	Sheen	10,000	490	ND	ND	1,300	ND
	11/12/97	9.27	72.11	0.00	100	5.1	ND	ND	ND	74
NP	05/04/98	9.18	72.20	0.00	39,000	1,600	230	1,000	3,200	ND ⁵
	11/11/98	9.23	72.43**	0.37	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/22/99	7.69	73.88**	0.25	--	--	--	--	--	--
	04/02/99 ⁶	8.19	73.40**	0.28	--	--	--	--	--	--
	05/04/99	8.44	72.95**	0.01	--	--	--	--	--	--
	05/20/99	8.73	72.68**	0.04	--	--	--	--	--	--
	06/29/99	8.91	72.51**	0.05	--	--	--	--	--	--
	07/29/99	9.12	72.31**	0.07	--	--	--	--	--	--
	08/24/99	9.37	72.08**	0.09	--	--	--	--	--	--
	09/27/99	9.51	71.92**	0.06	--	--	--	--	--	--
	10/28/99	--	--	0.05	--	--	--	--	--	--
	11/15/99	9.29	72.09	Sheen	--	--	--	--	--	--
	12/20/99 ¹³	9.14	72.24	0.00	--	--	--	--	--	--
	01/20/00 ¹³	9.08	72.30	0.00	--	--	--	--	--	--
	02/26/00 ¹³	8.69	72.69	0.00	--	--	--	--	--	--
	03/31/00 ¹³	8.48	72.90	0.00	--	--	--	--	--	--
	04/13/00	8.66	72.72	0.00	--	--	--	--	--	--
	05/22/00 ¹⁴	9.06	72.32	0.00	240,000 ¹¹	33,000	5,000	18,000	59,000	640/21 ¹²
	11/22/00 ¹⁶	9.24	72.64**	0.67	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/14/01 ¹⁷	7.63	74.00**	0.33	--	--	--	--	--	--
	03/28/01 ¹⁷	8.82	72.56	0.00	2002	--	--	--	--	--
	04/28/01 ¹⁷	8.66	72.72	0.00	702	--	--	--	--	--
	05/15/01 ¹⁷	8.97	72.41	0.00	603	--	--	--	--	--
					in skimmer					
MW-6	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	ND	0.37	0.4	0.35	1.5	--
	05/28/91	--	--	--	ND	ND	ND	ND	0.42	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product							MTBE (ppb)
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)		
MW-6	08/28/91	--	--	--	ND	ND	ND	ND	ND	ND	--
(cont)	11/19/91	--	--	--	ND	ND	ND	ND	ND	ND	--
	02/06/92	--	--	--	ND	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	ND	--
80.47	12/21/92	7.71	72.76	0.00	--	--	--	--	--	--	--
	01/30/93	7.25	73.22	0.00	--	--	--	--	--	--	--
	02/24/93	6.74	73.73	0.00	ND	ND	ND	ND	ND	ND	--
	03/22/93	5.85	74.62	0.00	--	--	--	--	--	--	--
	04/28/93	7.58	72.89	0.00	--	--	--	--	--	--	--
	05/25/93	7.48	72.99	0.00	ND	ND	ND	ND	ND	ND	--
79.94	06/23/93	7.34	72.60	0.00	--	--	--	--	--	--	--
	07/22/93	7.53	72.41	0.00	--	--	--	--	--	--	--
	08/25/93	7.66	72.28	0.00	ND	ND	ND	ND	ND	ND	--
	09/22/93	7.76	72.18	0.00	--	--	--	--	--	--	--
	10/28/93	8.30	71.64	0.00	--	--	--	--	--	--	--
	11/30/93	7.40	72.54	0.00	SAMPLED SEMI-ANNUALLY						
	02/16/94	7.13	72.81	0.00	ND	ND	ND	ND	ND	ND	--
	05/31/94	7.49	72.45	0.00	--	--	--	--	--	--	--
	08/31/94	7.93	72.01	0.00	ND	ND	1.5	ND	1.6	--	--
	09/27/94	8.03	71.91	0.00	--	--	--	--	--	--	--
	10/11/94	8.05	71.89	0.00	--	--	--	--	--	--	--
	11/10/94	6.12	73.82	0.00	--	--	--	--	--	--	--
	02/07/95	6.65	73.29	0.00	ND	ND	ND	ND	ND	ND	--
	05/03/95	6.47	73.47	0.00	ND	ND	ND	ND	1.0	--	--
	08/03/95	7.28	72.66	0.00	--	--	--	--	--	--	--
	11/07/95	7.98	71.96	0.00	ND	ND	ND	ND	ND	ND	--
	05/06/96	7.80	72.14	0.00	SAMPLING DISCONTINUED ⁴						
	11/05/96	7.63	72.31	0.00	--	--	--	--	--	--	--
	05/15/97	7.41	72.53	0.00	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	11/12/97	7.51	72.43	0.00	--	--	--	--	--	--
(cont)	05/04/98	7.15	72.79	0.00	--	--	--	--	--	--
	11/11/98	7.04	72.90	0.00	--	--	--	--	--	--
	05/20/99	7.00	72.94	0.00	--	--	--	--	--	--
	11/15/99	7.42	72.52	0.00	--	--	--	--	--	--
	05/22/00	7.24	72.70	0.00	--	--	--	--	--	--
	11/22/00	7.40	72.54	0.00	--	--	--	--	--	--
	05/15/01	7.12	72.82	0.00	--	--	--	--	--	--
MW-7	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	70	ND	ND	ND	0.52	--
	05/28/91	--	--	--	39	ND	ND	ND	0.73	--
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--
	11/19/91	--	--	--	32	ND	ND	ND	ND	--
	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	0.73	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
81.83	12/21/92	8.42	73.41	0.00	--	--	--	--	--	--
	01/30/93	8.21	73.62	0.00	--	--	--	--	--	--
	02/24/93	7.85	73.98	0.00	ND	ND	ND	ND	ND	--
	03/22/93	6.97	74.86	0.00	--	--	--	--	--	--
	04/28/93	8.39	73.44	0.00	--	--	--	--	--	--
	05/25/93	8.43	73.40	0.00	ND	ND	ND	ND	ND	--
81.64	06/23/93	8.47	73.17	0.00	--	--	--	--	--	--
	07/22/93	8.83	72.81	0.00	--	--	--	--	--	--
	08/25/93	8.81	72.83	0.00	ND	ND	ND	ND	ND	--
	09/22/93	8.96	72.68	0.00	--	--	--	--	--	--
	10/28/93	8.98	72.66	0.00	--	--	--	--	--	--
	11/30/93	8.65	72.99	0.00	SAMPLED SEMI-ANNUALLY			--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (pph)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	02/16/94	8.36	73.28	0.00	ND	ND	ND	ND	0.7	--
(cont)	05/31/94	8.67	72.97	0.00	--	--	--	--	--	--
	08/31/94	9.12	72.52	0.00	ND	ND	0.8	ND	0.75	--
	09/27/94	9.22	72.42	0.00	--	--	--	--	--	--
	10/11/94	9.23	72.41	0.00	--	--	--	--	--	--
	11/10/94	7.66	73.98	0.00	--	--	--	--	--	--
	02/07/95	7.88	73.76	0.00	ND	ND	ND	ND	ND	--
	05/03/95	7.71	73.93	0.00	ND	ND	ND	ND	1.0	--
	08/03/95	8.40	73.24	0.00	--	--	--	--	--	--
	11/07/95	8.95	72.69	0.00	ND	ND	ND	ND	ND	--
	05/06/96	8.15	73.49	0.00	--	--	--	--	--	--
	11/05/96	8.67	72.97	0.00	--	--	--	--	--	--
	05/15/97	8.47	73.17	0.00	--	--	--	--	--	--
	11/12/97	7.88	73.76	0.00	--	--	--	--	--	--
	05/04/98	7.93	73.71	0.00	--	--	--	--	--	--
	11/11/98	8.20	73.44	0.00	--	--	--	--	--	--
	05/20/99	8.04	73.60	0.00	--	--	--	--	--	--
	11/15/99	8.17	73.47	0.00	--	--	--	--	--	--
NP	05/22/00	8.10	73.54	0.00	--	--	--	--	--	--
	11/22/00	8.30	73.34	0.00	--	--	--	--	--	--
	05/15/01	8.09	73.55	0.00	--	--	--	--	--	--
MW-8	11/07/90	--	--	--	4,700	28	38	86	7,200	--
	02/25/91	--	--	--	5,300	17	6.1	53	300	--
	05/28/91	--	--	--	4,800	4.2	1.3	5.1	170	--
	08/28/91	--	--	--	1,800	3.2	1.9	19	74	--
	11/19/91	--	--	--	1,600	8.1	1.8	19	52	--
	02/06/92	--	--	--	2,600	4.1	7.0	31	93	--
	05/23/92	--	--	--	2,100	8.6	1.6	1.7	28	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product		B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
				Thickness (ft.)	TPH-G (ppb)					
MW-8	08/26/92	--	--	--	1,800	12	8.0	4.0	13	--
(cont)	11/20/92	INACCESSIBLE	--	--	--	--	--	--	--	--
81.71	12/21/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	01/09/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	01/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/10/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/24/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	03/09/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	03/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/08/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/28/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	05/12/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	05/25/93	10.12	71.59	0.00	1,200	5.4	ND	9.0	21	--
81.41	06/07/93	9.98	71.43	0.00	--	--	--	--	--	--
	06/23/93	10.36	71.05	0.00	--	--	--	--	--	--
	07/08/93	10.52	70.89	0.00	--	--	--	--	--	--
	07/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	08/11/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	08/25/93	10.95	70.46	0.00	1,800	11	17	8.9	29	--
	09/08/93	11.34	70.07	0.00	--	--	--	--	--	--
	09/22/93	11.13	70.28	0.00	--	--	--	--	--	--
	10/07/93	10.96	70.45	0.00	--	--	--	--	--	--
	10/28/93	11.19	70.22	0.00	--	--	--	--	--	--
	11/12/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	11/30/93	10.42	70.99	0.00	3,500	18	ND	ND	ND	--
	02/16/94	9.86	71.55	0.00	990	4.9	1.8	2.4	4.5	--
	05/31/94	10.61	70.80	0.00	350	3.0	1.0	0.73	1.7	--
	08/31/94	11.37	70.04	0.00	1,800 ¹	ND	ND	ND	ND	--
	09/27/94	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	10/11/94	11.50	69.91	0.00	--	--	--	--	--	--
	11/10/94	7.81	73.60	0.00	940	6.7	6.3	ND	16	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product		B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
				Thickness (ft.)	TPH-G (ppb)					
MW-8	02/07/95	8.69	72.72	0.00	230	1.4	0.95	0.9	1.1	--
(cont)	05/03/95	8.60	72.81	0.00	75	ND	ND	ND	1.0	--
	08/03/95	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/07/95	11.05	70.36	0.00	210	1.3	1.2	ND	ND	-- ³
	05/06/96	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/05/96	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	05/15/97	10.46	70.95	0.00	ND	ND	ND	ND	ND	43
	11/12/97	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	05/04/98	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/11/98	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
NP	05/20/99	9.75	71.66	0.00	ND	ND	ND	ND	ND	23/10 ^{7,8,10}
	11/15/99	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
NP	05/22/00	9.80	71.61	0.00	ND	ND	1.9	ND	3.3	ND
NP	11/22/00	9.76	71.65	0.00	ND	ND	1.16	ND	1.22	ND
NP	05/15/01	9.87	71.54	0.00	ND	ND	ND	ND	ND	ND
MW-9	11/07/90	--	--	--	480	7.8	1.2	13	47	--
	02/25/91	--	--	--	390	13	1.1	2.8	14	--
	05/28/91	--	--	--	590	6.0	0.43	6.8	1.4	--
	08/28/91	--	--	--	450	17	0.9	13	14	--
	11/19/91	--	--	--	360	17	0.45	15	11	--
	02/06/92	--	--	--	660	41	1.0	33	15	--
	05/23/92	--	--	--	460	18	0.66	1.4	3.2	--
	08/26/92	--	--	--	250	13	ND	8.6	3.8	--
	11/20/92	INACCESSIBLE		--	--	--	--	--	--	--
81.13	12/21/92	INACCESSIBLE		--	--	--	--	--	--	--
	01/30/93	INACCESSIBLE		--	--	--	--	--	--	--
	02/24/93	INACCESSIBLE		--	--	--	--	--	--	--
	03/22/93	INACCESSIBLE		--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	04/28/93	INACCESSIBLE	--	--	--	--	--	--	--	--
(cont)	05/25/93	11.50	69.63	0.00	160	6.1	ND	7.4	1.1	--
80.53	06/23/93	9.78	70.75	0.00	--	--	--	--	--	--
	07/22/93	10.10	70.43	0.00	--	--	--	--	--	--
	08/25/93	10.44	70.09	0.00	220	10	ND	6.8	1.4	--
	09/22/93	10.64	69.89	0.00	--	--	--	--	--	--
	10/28/93	10.68	69.85	0.00	--	--	--	--	--	--
	11/30/93	9.87	70.66	0.00	200	5.6	ND	2.9	2.7	--
	02/16/94	9.21	71.32	0.00	250	5.1	1.3	4.4	1.5	--
	05/31/94	10.15	70.38	0.00	360	7.8	0.97	4.6	2.2	--
	08/31/94	10.97	69.56	0.00	650	7.7	2.8	4.4	5.0	59
	09/27/94	11.10	69.43	0.00	--	--	--	--	--	--
	10/11/94	11.20	69.33	0.00	--	--	--	--	--	--
	11/10/94	7.25	73.28	0.00	ND	ND	ND	ND	ND	--
	02/07/95	7.76	72.77	0.00	57	0.7	ND	0.86	ND	--
	05/03/95	7.82	72.71	0.00	ND	0.85	0.67	1.3	1.0	--
	08/03/95	9.70	70.83	0.00	91	1.1	ND	ND	ND	--
	11/07/95	10.64	69.89	0.00	130	1.5	0.62	0.71	ND	60 ³
	05/06/96	9.01	71.52	0.00	860	6.1	13	6.0	25	ND
	11/05/96	11.42	69.11	0.00	84	0.74	ND	1.2	4.5	ND
	05/15/97	9.89	70.64	0.00	ND	ND	ND	ND	ND	ND
	11/12/97	10.22	70.31	0.00	ND	0.55	ND	ND	ND	74
NP	05/04/98	10.05	70.48	0.00	ND	ND	ND	ND	ND	45
NP	11/11/98	9.23	71.30	0.00	ND	ND	ND	ND	ND	ND
NP	05/20/99	8.78	71.75	0.00	ND	ND	ND	ND	ND	ND
	11/15/99	9.12	71.41	0.00	ND	ND	ND	ND	ND	ND
	05/22/00	9.17	71.36	0.00	ND	ND	1.9	ND	3.5	ND
	11/22/00	9.08	71.45	0.00	ND	ND	1.18	ND	1.16	ND
	05/15/01	8.85	71.68	0.00	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product							
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-10	02/06/92	--	--	--	ND	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	ND	--
81.90	12/21/92	13.41	68.49	0.00	--	--	--	--	--	--	--
	01/30/93	11.60	70.30	0.00	--	--	--	--	--	--	--
	02/24/93	11.23	70.67	0.00	ND	ND	ND	ND	ND	ND	--
	03/22/93	10.89	71.01	0.00	--	--	--	--	--	--	--
	04/28/93	12.11	69.79	0.00	--	--	--	--	--	--	--
81.61	05/25/93	12.02	69.88	0.00	ND	ND	ND	ND	ND	ND	--
	06/23/93	12.11	69.50	0.00	--	--	--	--	--	--	--
	07/22/93	12.49	69.12	0.00	--	--	--	--	--	--	--
	08/25/93	12.78	68.83	0.00	ND	ND	ND	ND	ND	ND	--
	09/22/93	13.06	68.55	0.00	--	--	--	--	--	--	--
	10/28/93	13.23	--	0.00	--	--	--	--	--	--	--
	11/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--	--
	02/16/94	12.43	69.18	0.00	ND	ND	ND	ND	ND	ND	--
	05/31/94	12.69	68.92	0.00	ND	ND	0.9	ND	ND	0.91	--
	08/31/94	13.47	68.14	0.00	ND	ND	0.64	ND	ND	0.54	--
	09/27/94	13.72	67.89	0.00	--	--	--	--	--	--	--
	10/11/94	14.80	66.81	0.00	--	--	--	--	--	--	--
	11/10/94	12.64	68.97	0.00	ND	ND	ND	ND	ND	ND	--
	02/07/95	10.29	71.32	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--
	05/03/95	10.22	71.39	0.00	ND	ND	ND	ND	ND	0.65	--
	08/03/95	11.73	69.88	0.00	--	--	--	--	--	--	--
	11/07/95	12.98	68.63	0.00	ND	ND	ND	ND	ND	ND	--
05/06/96	10.90	70.71	0.00	SAMPLING DISCONTINUED ⁴			--	--	--	--	
11/05/96	11.96	69.65	0.00	--	--	--	--	--	--	--	
05/15/97	10.79	70.82	0.00	--	--	--	--	--	--	--	
11/12/97	10.07	71.54	0.00	--	--	--	--	--	--	--	
05/04/98	10.01	71.60	0.00	--	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10 (cont)	11/11/98	12.03	69.58	0.00	--	--	--	--	--	--
	05/20/99	10.05	71.56	0.00	--	--	--	--	--	--
	11/15/99	10.16	71.45	0.00	--	--	--	--	--	--
	05/22/00	10.06	71.55	0.00	--	--	--	--	--	--
	11/22/00	10.12	71.49	0.00	--	--	--	--	--	--
	05/15/01	10.08	71.53	0.00	--	--	--	--	--	--
MW-11	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
78.43	12/21/92	12.34	66.09	0.00	--	--	--	--	--	--
	01/30/93	14.17	64.26	0.00	--	--	--	--	--	--
	02/24/93	12.70	65.73	0.00	ND	ND	ND	ND	ND	--
	03/22/93	8.95	69.48	0.00	--	--	--	--	--	--
	04/28/93	13.87	64.56	0.00	--	--	--	--	--	--
	05/25/93	15.14	63.29	0.00	ND	ND	0.75	ND	1.0	--
78.18	06/23/93	15.08	63.10	0.00	--	--	--	--	--	--
	07/22/93	15.46	62.72	0.00	--	--	--	--	--	--
	08/25/93	14.10	64.08	0.00	ND	ND	ND	ND	ND	--
	09/22/93	15.03	63.15	0.00	--	--	--	--	--	--
	10/28/93	13.84	64.34	0.00	--	--	--	--	--	--
	11/30/93	13.04	65.14	0.00	ND	ND	ND	ND	ND	--
	02/16/94	12.76	65.42	0.00	ND	ND	ND	ND	ND	--
	05/31/94	12.79	65.39	0.00	ND	ND	ND	ND	ND	--
	08/31/94	12.97	65.21	0.00	ND	ND	1.5	ND	1.8	--
	09/27/94	14.88	63.30	0.00	--	--	--	--	--	--
	10/11/94	13.40	64.78	0.00	--	--	--	--	--	--
	11/10/94	13.57	64.61	0.00	ND	ND	ND	ND	ND	--
02/07/95	12.28	65.90	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	05/03/95	9.28	68.90	0.00	ND	ND	ND	ND	ND	--
(cont)	08/03/95	12.67	65.51	0.00	--	--	--	--	--	--
	11/07/95	12.28	65.90	0.00	ND	ND	ND	ND	ND	--
	05/06/96	13.30	64.88	0.00	SAMPLING DISCONTINUED ⁴			--	--	--
	11/05/96	10.90	67.28	0.00	--	--	--	--	--	--
	05/15/97	11.65	66.53	0.00	--	--	--	--	--	--
	11/12/97	9.66	68.52	0.00	--	--	--	--	--	--
	05/04/98	10.87	67.31	0.00	--	--	--	--	--	--
	11/11/98	11.40	66.78	0.00	--	--	--	--	--	--
NP	05/20/99	10.71	67.47	0.00	ND	ND	ND	ND	ND	ND
	11/15/99	11.32	66.86	0.00	ND	ND	1.04	ND	ND	ND
	05/22/00	10.98	67.20	0.00	ND	ND	ND	ND	ND	ND
	11/22/00	11.17	67.01	0.00	ND	ND	ND	ND	ND	ND
	05/15/01	10.93	67.25	0.00	ND	ND	ND	ND	ND	ND
MW-12	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
79.89	12/21/92	12.11	67.78	0.00	--	--	--	--	--	--
	01/30/93	13.18	66.71	0.00	--	--	--	--	--	--
	02/24/93	12.13	67.76	0.00	ND	ND	ND	ND	ND	--
	03/22/93	11.22	68.67	0.00	--	--	--	--	--	--
	04/28/93	13.42	66.47	0.00	--	--	--	--	--	--
	05/25/93	13.68	66.21	0.00	ND	ND	ND	ND	ND	--
79.61	06/23/93	14.56	65.05	0.00	--	--	--	--	--	--
	07/22/93	14.96	64.65	0.00	--	--	--	--	--	--
	08/25/93	13.61	66.00	0.00	ND	ND	ND	ND	ND	--
	09/22/93	15.02	64.59	0.00	--	--	--	--	--	--
	10/28/93	14.04	65.57	0.00	--	--	--	--	--	--
	11/30/93	13.28	66.33	0.00	ND	ND	ND	ND	ND	--
	02/16/94	12.76	66.85	0.00	ND	ND	ND	ND	ND	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-12	08/31/94	12.82	66.79	0.00	ND	ND	1.0	ND	1.0	ND
(cont)	05/31/94	12.64	66.97	0.00	ND	ND	0.81	ND	0.82	--
	09/27/94	14.66	64.95	0.00	--	--	--	--	--	--
	10/11/94	14.25	65.36	0.00	--	--	--	--	--	--
	11/10/94	13.40	66.21	0.00	ND	ND	ND	ND	ND	--
	02/07/95	11.72	67.89	0.00	SAMPLED SEMI-ANNUALLY			--	--	--
	05/03/95	13.38	66.23	0.00	ND	ND	ND	ND	ND	--
	08/03/95	13.47	66.14	0.00	--	--	--	--	--	--
	11/07/95	12.78	66.83	0.00	ND	ND	ND	ND	ND	--
	05/06/96	13.25	66.36	0.00	SAMPLING DISCONTINUED ⁴			--	--	--
	11/05/96	11.88	67.73	0.00	--	--	--	--	--	--
	05/15/97	11.72	67.89	0.00	--	--	--	--	--	--
	11/12/97	10.01	69.60	0.00	--	--	--	--	--	--
	05/04/98	10.96	68.65	0.00	--	--	--	--	--	--
	11/11/98	11.53	68.08	0.00	--	--	--	--	--	--
	05/20/99	10.84	68.77	0.00	--	--	--	--	--	--
	11/15/99	11.36	68.25	0.00	--	--	--	--	--	--
	05/22/00	11.19	68.42	0.00	--	--	--	--	--	--
	11/22/00	11.36	68.25	0.00	--	--	--	--	--	--
	05/15/01	11.04	68.57	0.00	--	--	--	--	--	--
RW-1										
81.20	02/24/93	7.19	74.01	0.00	--	--	--	--	--	--
	05/12/93	8.82	72.38	0.00	--	--	--	--	--	--
	05/25/93	8.58	72.62	0.00	--	--	--	--	--	--
80.63	06/07/93	8.16	72.47	0.00	--	--	--	--	--	--
	06/23/93	8.53	72.10	0.00	--	--	--	--	--	--
	07/08/93	8.69	71.94	0.00	--	--	--	--	--	--
	08/11/93	9.00	71.63	0.00	--	--	--	--	--	--
	08/25/93	9.07	71.56	0.00	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
RW-1	09/08/93	9.71	70.92	0.00	--	--	--	--	--	--
(cont)	09/22/93	9.25	71.38	0.00	--	--	--	--	--	--
	11/12/93	9.00	71.63	<0.01	--	--	--	--	--	--
	02/16/94	7.82	72.81	0.00	--	--	--	--	--	--
	05/31/94	8.81	71.82	0.00	--	--	--	--	--	--
	08/31/94	9.61	71.02	0.00	--	--	--	--	--	--
	11/10/94	6.34	74.29	0.00	--	--	--	--	--	--
	02/07/95	7.18	73.45	0.00	--	--	--	--	--	--
	03/14/95	6.01	74.62	0.00	--	--	--	--	--	--
NOT MONITORED/SAMPLED										
Trip Blank										
TB-LB	05/04/98	--	--	--	ND	ND	ND	ND	ND	ND
	11/11/98	--	--	--	ND	ND	ND	ND	ND	ND
	05/20/99	--	--	--	ND	ND	ND	ND	ND	ND
	11/15/99	--	--	--	ND	ND	1.12	ND	ND	ND
	05/22/00	--	--	--	ND	ND	ND	ND	ND	ND
	11/22/00	--	--	--	ND	ND	ND	ND	ND	ND
	05/15/01	--	--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 4, 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	ND = Not Detected
(ft.) = Feet	E = Ethylbenzene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation	X = Xylenes	NP = No Purge
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	
TPH-G = Total Petroleum Hydrocarbons as Gasoline		

- * TOC elevations have been surveyed relative to mean sea level (msl) per the City of Oakland Benchmark BM#1336 (Elevation = 82.28 feet msl).
 Prior to June 7, 1993, DTW measurements were taken from the top of well covers.
- ** Groundwater elevation corrected due to the presence of free product; correction factor: [(TOC-DTW)+(Product Thickness x 0.75)].
- 1 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 2 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 3 Laboratory has identified the presence of MTBE at a level greater than or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 4 Sampling discontinued per Alameda County Health Care Services' letter dated January 24, 1996.
- 5 Detection limit raised. Refer to analytical reports.
- 6 Twelve minutes after water/product was bailed, well was monitored again, (DTW = 8.06 ft. and Product Thickness 0.04 ft.).
- 7 MTBE by EPA Method 8260.
- 8 Sample analyzed past hold time (June 9, 1999).
- 9 First run on MTBE by EPA Method 8260 was 92 ppb and analyzed past hold time (June 9, 1999).
- 10 First run on MTBE by EPA Method 8260 was 12 ppb and analyzed past hold time (June 9, 1999).
- 11 Laboratory report indicates gasoline C6-C12.
- 12 MTBE by EPA Method 8260 analyzed outside the EPA recommended holding time.
- 13 Less than 1 ounce of product found in skimmer.
- 14 1.5 ounces of product found in skimmer.
- 15 Laboratory report indicates weathered gasoline C6-C12.
- 16 Skimmer not present in well.
- 17 Skimmer installed/present in well.

Table 2
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-1	05/06/96	5.21	4.13
	11/05/96	3.12	-- ¹
	05/15/97	3.92	-- ¹
	11/12/97	4.16	-- ¹
	05/04/98	3.84	-- ¹
	11/11/98	2.85	-- ¹
	05/20/99	3.30	-- ¹
MW-2	08/19/95	--	2.77
	05/15/97	3.01	-- ¹
	11/12/97	3.27	-- ¹
	05/04/98	3.63	-- ¹
MW-3	08/19/95	--	2.06
	11/07/95	--	1.68
	05/06/96	3.18	3.40
	11/05/96	2.03	-- ¹
	05/15/97	3.08	-- ¹
	05/04/98	2.98	-- ¹
	11/11/98	2.22	-- ¹
05/20/99	2.60	-- ¹	
MW-4	08/19/95	--	2.19
	11/07/95	--	8.43
	05/06/96	3.75	5.97
	11/05/96	2.11	-- ¹
	05/15/97	3.24	-- ¹
	11/12/97	3.11	-- ¹
	05/04/98	3.73	-- ¹
	11/11/98	4.33	-- ¹
	05/20/99	3.90	-- ¹
MW-5	08/19/95	--	2.09
	11/07/95	--	1.79
	05/06/96	2.91	1.80
	11/05/96	1.85	-- ¹
	05/15/97	2.10	-- ¹
	11/12/97	1.98	-- ¹
	05/04/98	1.69	-- ¹
MW-6	05/15/97	2.90	-- ¹
	05/04/98	3.57	-- ¹

Table 2
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-7	05/15/97	2.21	-- ¹
	05/04/98	3.09	-- ¹
MW-8	11/05/96	INACCESSIBLE (PARKED OVER)	
	05/15/97	2.88	-- ¹
	11/12/97	INACCESSIBLE (PARKED OVER)	
	05/04/98	INACCESSIBLE (PARKED OVER)	
	11/11/98	INACCESSIBLE (PARKED OVER)	
	05/20/99	3.55	-- ¹
MW-9	05/06/96	4.23	3.25
	11/05/96	2.98	-- ¹
	05/15/97	3.04	-- ¹
	11/12/97	4.02	-- ¹
	05/04/98	3.41	-- ¹
	11/11/98	5.19	-- ¹
	05/20/99	4.46	-- ¹
MW-10	05/15/97	1.61	-- ¹
	05/04/98	2.85	-- ¹
MW-11	05/15/97	1.68	-- ¹
	05/04/98	2.94	-- ¹
	05/20/99	3.22	-- ¹
MW-12	05/15/97	2.10	-- ¹
	05/04/98	3.41	-- ¹
RW-1	11/07/95	--	2.13

EXPLANATIONS:

Dissolved oxygen concentrations prior to May 4, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = milligrams per liter

-- = Not Measured

¹ Wells were not purged prior to sampling.

Table 3
Product Thickness/Removal Data
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID	DATE	DTW (ft.)	Product Thickness (ft.)	Amount Bailed		Amount Bailed (Product + Water)
				Product	Water	
MW-5	11/11/98	9.23	0.37	--	--	0.25 gallons
	02/22/99	7.69	0.25	5 oz.	3 gallons	--
	04/02/99 ^{1,2}	8.19	0.28	9 oz.	20 oz.	29 oz.
	05/04/99	8.44	0.01	--	--	--
	05/20/99	8.73	0.04	--	--	1 oz.
	06/29/99	8.91	0.05	--	--	4 oz.
	07/29/99	9.12	0.07	4 oz.	8 oz.	12 oz.
	08/24/99	9.37	0.09	--	--	4 oz.
	09/27/99	9.51	0.06	--	--	3.5 oz.
	10/28/99 ³	--	0.05	--	--	3.0 oz.
	11/15/99	9.29	Sheen	--	--	16 oz.
	12/20/99	9.14	0.00	-- ⁴	--	<1.0 oz
	01/20/00	9.08	0.00	-- ⁴	--	<1.0 oz
	02/26/00	8.69	0.00	-- ⁴	--	<1.0 oz
	03/31/00	8.48	0.00	-- ⁴	--	<1.0 oz
	04/13/00	8.66	0.00	0.00	0.00	0.00
	05/22/00	9.06	0.00	-- ⁵	--	1.5 oz.
	11/22/00 ⁶	9.24	0.67	15 oz.	3 gallons	3.12 gallons
	02/14/01 ⁷	7.63	0.33	8 oz.	64 oz.	72 oz.
	03/28/01	8.82	0.00	-- ⁸	--	20 oz.
	04/28/01	8.66	0.00	-- ⁹	--	7 oz.
	05/15/01	8.97	0.00	-- ¹⁰	--	6 oz.

EXPLANATIONS:

DTW = Depth to water

(ft.) = Feet

oz. = ounces

-- = Not Measured

¹ A new skimmer (Petro Trap) was installed.

² Twelve minutes after water/product was bailed, well was monitored again, (DTW = 8.06 ft. and Product Thickness 0.04 ft.).

³ Replaced skimmer.

⁴ Less than 1 oz. of product found in skimmer.

⁵ 1.5 oz. of product found in skimmer.

⁶ Skimmer not present in well.

⁷ Skimmer was re-installed.

⁸ 20 oz. of product found in skimmer.

⁹ 7 oz. of product found in skimmer.

¹⁰ 6 oz. of product found in skimmer.

Table 4
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1	05/20/99 ^{1,3}	ND	ND	² 92/47	ND	ND	ND
	11/15/99 ⁴	ND	ND	7.19	ND	ND	ND
	05/22/00 ⁴	ND	130	290	ND	ND	ND
	11/22/00	-- ⁶	-- ⁶	142	ND	ND	ND
	05/15/01 ⁴	ND ⁵	ND ⁵	374	ND ⁵	ND ⁵	ND ⁵
MW-3	05/22/00 ⁴	ND	ND	94	ND	ND	ND
	11/22/00	-- ⁶	-- ⁶	131	ND	ND	ND
	05/15/01 ⁴	ND ⁵	ND ⁵	75.5	ND ⁵	ND ⁵	ND ⁵
MW-5	05/22/00 ⁴	ND ⁵	ND ⁵	21	ND ⁵	ND ⁵	ND ⁵
MW-8	05/20/99 ^{1,3}	ND	ND	² 12/10	ND	ND	ND
	11/15/99 ⁴	ND ⁵	ND ⁵	45.1	ND ⁵	ND ⁵	ND ⁵

Table 4
Groundwater Analytical Results - Oxygenate Compounds
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol

(ppb) = Parts per billion

MTBE = Methyl tertiary butyl ether

ND = Not Detected

DIPE = Di-isopropyl ether

-- = Not Analyzed/Not Sampled

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

¹ Analyzed past hold time (June 9, 1999).

² First run MTBE was for qualitative use only.

³ Report revised July 6, 1999.

⁴ Laboratory report indicates sample was analyzed outside of the EPA recommended holding time.

⁵ Detection limit raised. Refer to analytical reports.

⁶ Laboratory did not analyze for Ethanol and TBA.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

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.

**TOSCO (UNOCAL) SS #0746
OAKLAND, CA**

**MONITORING
EVENT OF MARCH 28, 2001**

**TOSCO (UNOCAL) SS #0746
OAKLAND, CA**

**MONITORING
EVENT OF APRIL 28, 2001**

**TOSCO (UNOCAL) SS #0746
OAKLAND, CA**

**MONITORING AND SAMPLING
EVENT OF MAY 15, 2001**

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA.

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID: MW-1
Well Diameter: 2 in.
Total Depth: 19.84 ft
Depth to Water: 7.48 ft

Well Condition: O.K.

Hydrocarbon Thickness:	<u>0</u> in.	Amount Bailed (product/water):	<u>0</u> (gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

12.36 x VF 0.17 = 2.10 x 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 9:02
Sampling Time: 9:28 A.M. (9:28)
Purging Flow Rate: 1 gpm
Did well de-water? _____

Weather Conditions: Hot
Water Color: clear Odor: none
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{hos/cm}^\circ\text{C}$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:10	2	7:67	6.98	72.8			
9:12	4	7.36	7.12	72.5			
9:14	6.5	7.32	7.15	72.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3vol	Y	HCL	Seq.	TPHG, BTEX, MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA.

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID MW-2
Well Diameter 2 in.
Total Depth 19.90 ft.
Depth to Water 8.73 ft.

Well Condition: O.K.

Hydrocarbon Thickness:	<u>0</u> in.	Amount Bailed (product/water):	<u>0</u> (gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: _____ Weather Conditions: Hot
Sampling Time: _____ Water Color: clear Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^3$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-</u>	<u>3Y04</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: M. only

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA.

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID: MW-3 Well Condition: O.K.
Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Total Depth: 22.40 ft. Volume Factor (VF):

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

Depth to Water: 9.25 ft.
13.15 x VF 0.17 = 2.24 x 3 (case volume) = Estimated Purge Volume: 7 (gal.)
Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____
 Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 11:00 Weather Conditions: Hot
 Sampling Time: 11:30 a.m. (11:30) Water Color: clear Odor: yes
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm K)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:08</u>	<u>2.5</u>	<u>6.97</u>	<u>2.68</u>	<u>72.9</u>	_____	_____	_____
<u>11:10</u>	<u>5</u>	<u>7.17</u>	<u>2.72</u>	<u>72.6</u>	_____	_____	_____
<u>11:12</u>	<u>7</u>	<u>7.21</u>	<u>2.75</u>	<u>72.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID MW-4 Well Condition: O.K.

Well Diameter 2 in Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19.98 ft
Depth to Water 8.66 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.32 X VF 0.17 = 1.92 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 9:30 Weather Conditions: Hot
Sampling Time: 9:55 AM (9:55) Water Color: clear Odor: none
Purging Flow Rate: _____ gpm Sediment Description: _____
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:40	2	7.60	9.58	72.2			
9:42	4	7.50	9.62	72.5			
9:44	6	7.55	9.66	72.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3Y04	Y	HCL	Seq.	TPHG, BTEX, MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA.

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID: MW-5
Well Diameter: 2 in.
Total Depth: 20.14 ft
Depth to Water: 8.97 ft

Well Condition: O.K.
Hydrocarbon Thickness: 0 in.
Amount Bailed (product/water): 6 ounces of FP only from Skimmer (gal.)
Volume Factor (VF):

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: _____
Sampling Time: _____
Purging Flow Rate: _____ gpm.
Did well de-water? _____

Weather Conditions: Hot
Water Color: clear Odor: _____
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3Vol	Y	HCL	Seq.	TPHG, BTEX, MTBE

COMMENTS: Removed 6 ounces of FP collected from skimmer and placed it inside (dedicated) yellow drum on site.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID MW-6
Well Diameter 2 in.
Total Depth 19.75 ft.
Depth to Water 7.12 ft.

Well Condition: O.K.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: _____ Weather Conditions: Hot
Sampling Time: _____ Water Color: clear Odor: _____
Purging Flow Rate: _____ gpm Sediment Description: _____
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm K}$	Temperature $^{\circ}\text{C}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: M. only

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA.

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID: MW-7
Well Diameter: 2 in.
Total Depth: 18.46 ft.
Depth to Water: 8.09 ft.

Well Condition: O.K.
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Volume Factor (VF):

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: _____
Sampling Time: _____
Purging Flow Rate: _____ gpm.
Did well de-water? _____

Weather Conditions: Hot
Water Color: clear Odor: _____
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°C)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-</u>	<u>3Yot</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: M - only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland CA

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID MW-8
Well Diameter 2 in
Total Depth 21.32 ft
Depth to Water 9.87 ft

Well Condition: O.K.

Hydrocarbon Thickness:	<u>0</u> in.	Amount Bailed (product/water):	<u>0</u> (gal)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: _____
Sampling Time: 11:50 AM (11:50)
Purging Flow Rate: _____ gpm
Did well de-water? _____

Weather Conditions: Hot
Water Color: clear Odor: None
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm} \times$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3Y0A</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: No Purge grab sample. Barely enough room to sample from this well by a shortened (weighted) dedicated bailer. Owner refuses to move junky case around.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0746

Job#: 180063

Address: 3943 Broadway

Date: 5-15-01

City: Oakland, CA.

Sampler: Joe

Well ID MW-9

Well Condition: O.K.

Well Diameter 2 in.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 21.85 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

Depth to Water 8.85 ft

13.00 x VF 0.17 = 2.21 x 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 12:07

Weather Conditions: Hot

Sampling Time: 12:30 P.M. (12:30)

Water Color: clear Odor: none

Purging Flow Rate: 0.1 gpm

Sediment Description: _____

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:15</u>	<u>2.5</u>	<u>7.59</u>	<u>10.38</u>	<u>66.3</u>	_____	_____	_____
<u>12:18</u>	<u>5</u>	<u>7.49</u>	<u>10.46</u>	<u>66.7</u>	_____	_____	_____
<u>12:22</u>	<u>7</u>	<u>7.53</u>	<u>10.47</u>	<u>66.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3Y04</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 0746 Job#: 180063
 Address: 3943 Broadway Date: 5-15-01
 City: Oakland, CA. Sampler: Joe

Well ID MW-10 Well Condition: o.k.
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal)
 Total Depth 21.55 ft
 Depth to Water 10.08 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: _____ Weather Conditions: Hot
 Sampling Time: _____ Water Color: clear Odor: _____
 Purging Flow Rate: _____ gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{C}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3Y04</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: NA, only

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID: MW-11
Well Diameter: 2 in.
Total Depth: 19.17 ft.
Depth to Water: 10.93 ft.

Well Condition: O.K.

Hydrocarbon Thickness:	Amount Bailed (product/water):		
<u>0</u> in.	<u>0</u> gal.	<u>0</u> gal.	<u>0</u> gal.
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

8.2d X VF 0.17 = 1.40 X 3 (case volume) = Estimated Purge Volume: 4.5 gal.

Purge Equipment: Disposable Bailer Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 10:08
Sampling Time: 10:35 A.M. (10:35)
Purging Flow Rate: _____ gpm.
Did well de-water? _____

Weather Conditions: Hot
Water Color: clear Odor: none
Sediment Description: _____
If yes, Time: _____ Volume: _____ gal.

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm K}$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:16</u>	<u>1.5</u>	<u>7.80</u>	<u>9.31</u>	<u>65.9</u>	_____	_____	_____
<u>10:20</u>	<u>3</u>	<u>7.67</u>	<u>9.46</u>	<u>66.2</u>	_____	_____	_____
<u>10:23</u>	<u>4.5</u>	<u>7.58</u>	<u>9.32</u>	<u>66.3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>3YOA</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 0746
Address: 3943 Broadway
City: Oakland, CA

Job#: 180063
Date: 5-15-01
Sampler: Joe

Well ID MW-12
Well Diameter 2 in.
Total Depth 17.53 ft.
Depth to Water 11.04 ft.

Well Condition: O.K.

Hydrocarbon Thickness:	<u>0</u> in.	Amount Bailed (product/water):	<u>0</u> (gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: _____ Weather Conditions: Hot
Sampling Time: _____ Water Color: clear Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: M. only



Sequoia Analytical

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San Carlos, CA 94070-4111
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May 31 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L105131

Enclosed are the results of analyses for samples received by the laboratory on 05/15/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#BP0746, Oakland, CA
Project Manager: Deanna Harding

Reported:
05/31/01 13:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L105131-01	Water	05/15/01 00:00	05/15/01 19:00
MW-1	L105131-02	Water	05/15/01 09:28	05/15/01 19:00
MW-3	L105131-03	Water	05/15/01 11:30	05/15/01 19:00
MW-4	L105131-04	Water	05/15/01 09:55	05/15/01 19:00
MW-8	L105131-05	Water	05/15/01 11:50	05/15/01 19:00
MW-9	L105131-06	Water	05/15/01 12:30	05/15/01 19:00
MW-11	L105131-07	Water	05/15/01 10:35	05/15/01 19:00

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#BP0746, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 05/31/01 13:59

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L105131-01) Water Sampled: 05/15/01 00:00 Received: 05/15/01 19:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050119	05/26/01	05/26/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	70-130		"	"	"	"	
MW-1 (L105131-02) Water Sampled: 05/15/01 09:28 Received: 05/15/01 19:00									
Purgeable Hydrocarbons as Gasoline	345	100	ug/l	2	1050120	05/29/01	05/29/01	DHS LUFT	P-01
Benzene	ND	1.00	"	"	"	"	"	"	
Toluene	3.41	1.00	"	"	"	"	"	"	
Ethylbenzene	2.77	1.00	"	"	"	"	"	"	
Xylenes (total)	25.2	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	178	10.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.5 %	70-130		"	"	"	"	
MW-3 (L105131-03) Water Sampled: 05/15/01 11:30 Received: 05/15/01 19:00									
Purgeable Hydrocarbons as Gasoline	4490	500	ug/l	10	1050119	05/26/01	05/26/01	DHS LUFT	P-01
Benzene	229	5.00	"	"	"	"	"	"	
Toluene	7.09	5.00	"	"	"	"	"	"	
Ethylbenzene	160	5.00	"	"	"	"	"	"	
Xylenes (total)	31.6	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	97.1	50.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		115 %	70-130		"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#BP0746, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 05/31/01 13:59

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (L105131-04) Water Sampled: 05/15/01 09:55 Received: 05/15/01 19:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050120	05/29/01	05/29/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	1.10	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.16	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93.6 %		70-130	"	"	"	"	
MW-8 (L105131-05) Water Sampled: 05/15/01 11:50 Received: 05/15/01 19:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050119	05/26/01	05/26/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.0 %		70-130	"	"	"	"	
MW-9 (L105131-06) Water Sampled: 05/15/01 12:30 Received: 05/15/01 19:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050119	05/26/01	05/26/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.9 %		70-130	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#BP0746, Oakland, CA
Project Manager: Deanna Harding

Reported:
05/31/01 13:59

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (L105131-07) Water Sampled: 05/15/01 10:35 Received: 05/15/01 19:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050119	05/26/01	05/26/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		92.7 %	70-130		"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#BP0746, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 05/31/01 13:59

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L105131-02) Water									I-02
Sampled: 05/15/01 09:28 Received: 05/15/01 19:00									
Ethanol	ND	2000	ug/l	2	1050129	05/30/01	05/30/01	EPA 8260B	
1,2-Dibromoethane	ND	4.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	4.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	4.00	"	"	"	"	"	"	
Methyl tert-butyl ether	374	4.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	4.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	200	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.0 %		76-114	"	"	"	"	
Surrogate: Toluene-d8		98.0 %		88-110	"	"	"	"	

MW-3 (L105131-03) Water									I-02
Sampled: 05/15/01 11:30 Received: 05/15/01 19:00									
Ethanol	ND	2000	ug/l	2	1050129	05/30/01	05/30/01	EPA 8260B	
1,2-Dibromoethane	ND	4.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	4.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	4.00	"	"	"	"	"	"	
Methyl tert-butyl ether	75.5	4.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	4.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	200	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %		76-114	"	"	"	"	
Surrogate: Toluene-d8		97.0 %		88-110	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#BP0746, Oakland, CA
Project Manager: Deanna Harding

Reported:
05/31/01 13:59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050119 - EPA 5030B (P/T)

Blank (1050119-BLK1)

Prepared & Analyzed: 05/26/01

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	9.18		"	10.0		91.8	70-130			

LCS (1050119-BS1)

Prepared & Analyzed: 05/26/01

Benzene	9.34	0.500	ug/l	10.0		93.4	70-130			
Toluene	9.31	0.500	"	10.0		93.1	70-130			
Ethylbenzene	9.29	0.500	"	10.0		92.9	70-130			
Xylenes (total)	28.1	0.500	"	30.0		93.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	11.1		"	10.0		111	70-130			

LCS (1050119-BS2)

Prepared & Analyzed: 05/26/01

Purgeable Hydrocarbons as Gasoline	261	50.0	ug/l	250		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	11.5		"	10.0		115	70-130			

Matrix Spike (1050119-MS1)

Source: L105131-07

Prepared & Analyzed: 05/29/01

Purgeable Hydrocarbons as Gasoline	247	50.0	ug/l	250	ND	98.8	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.51		"	10.0		95.1	70-130			

Matrix Spike Dup (1050119-MSD1)

Source: L105131-07

Prepared & Analyzed: 05/29/01

Purgeable Hydrocarbons as Gasoline	274	50.0	ug/l	250	ND	110	60-140	10.4	25	
Surrogate: a,a,a-Trifluorotoluene	9.26		"	10.0		92.6	70-130			

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#BP0746, Oakland, CA
Project Manager: Deanna Harding

Reported:
05/31/01 13:59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050120 - EPA 5030B (P/T)

Blank (1050120-BLK1)

Prepared & Analyzed: 05/29/01

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	9.40		"	10.0		94.0	70-130			

LCS (1050120-BS1)

Prepared & Analyzed: 05/29/01

Benzene	7.76	0.500	ug/l	10.0		77.6	70-130			
Toluene	7.77	0.500	"	10.0		77.7	70-130			
Ethylbenzene	7.66	0.500	"	10.0		76.6	70-130			
Xylenes (total)	23.3	0.500	"	30.0		77.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.44		"	10.0		94.4	70-130			

LCS (1050120-BS2)

Prepared & Analyzed: 05/29/01

Purgeable Hydrocarbons as Gasoline	261	50.0	ug/l	250		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.37		"	10.0		93.7	70-130			

Matrix Spike (1050120-MS1)

Source: L105132-06

Prepared & Analyzed: 05/29/01

Benzene	10.8	0.500	ug/l	10.0	ND	108	60-140			
Toluene	10.7	0.500	"	10.0	ND	107	60-140			
Ethylbenzene	10.7	0.500	"	10.0	ND	107	60-140			
Xylenes (total)	32.3	0.500	"	30.0	ND	108	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.17		"	10.0		91.7	70-130			

Matrix Spike Dup (1050120-MSD1)

Source: L105132-06

Prepared: 05/29/01 Analyzed: 05/30/01

Benzene	8.42	0.500	ug/l	10.0	ND	84.2	60-140	24.8	25	
Toluene	8.38	0.500	"	10.0	ND	83.8	60-140	24.3	25	
Ethylbenzene	8.32	0.500	"	10.0	ND	83.2	60-140	25.0	25	
Xylenes (total)	25.4	0.500	"	30.0	ND	84.7	60-140	23.9	25	
Surrogate: a,a,a-Trifluorotoluene	9.29		"	10.0		92.9	70-130			

Sequoia Analytical - San Carlos

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/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#BP0746, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 05/31/01 13:59

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050129 - EPA 5030B [P/T]

Blank (1050129-BLK1)

Prepared & Analyzed: 05/30/01

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							

Surrogate: 1,2-Dichloroethane-d4

42.4

"

50.0

84.8

76-114

Surrogate: Toluene-d8

49.2

"

50.0

98.4

88-110

LCS (1050129-BS1)

Prepared & Analyzed: 05/30/01

Methyl tert-butyl ether	61.5	2.00	ug/l	50.0		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	45.3		"	50.0		90.6	76-114			
Surrogate: Toluene-d8	45.4		"	50.0		90.8	88-110			

Matrix Spike (1050129-MS1)

Source: L105198-05

Prepared & Analyzed: 05/30/01

Methyl tert-butyl ether	60.0	2.00	ug/l	50.0	ND	120	60-140			
Surrogate: 1,2-Dichloroethane-d4	51.5		"	50.0		103	76-114			
Surrogate: Toluene-d8	48.3		"	50.0		96.6	88-110			

Matrix Spike Dup (1050129-MSD1)

Source: L105198-05

Prepared & Analyzed: 05/30/01

Methyl tert-butyl ether	57.5	2.00	ug/l	50.0	ND	115	60-140	4.26	25	
Surrogate: 1,2-Dichloroethane-d4	50.6		"	50.0		101	76-114			
Surrogate: Toluene-d8	47.7		"	50.0		95.4	88-110			

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#BP0746, Oakland, CA
Project Manager: Deanna Harding

Reported:
05/31/01 13:59

Notes and Definitions

I-02 This sample was analyzed outside of the EPA recommended holding time.

P-01 Chromatogram Pattern: Gasoline C6-C12

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