



GETTLER-RYAN INC.

TRANSMITTAL

January 19, 2000

G-R #:180063

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

CC: Mr. Doug Lee
Gettler-Ryan Inc.
Dublin, California

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	January 10, 2000	Groundwater Monitoring and Sampling Report Semi-Annual 1999 - Event of November 15, 1999 Monthly Events of August 24, September 27, and October 28, 1999

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 *January 31, 2000*, this report will be distributed to the following:

Enclosure

cc: Ms. Eva Chu
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502

00 FEB -2 PM 2:47
ENVIRONMENTAL PROTECTION

agency/0746dbd.qmt



GETTLER-RYAN Inc.

January 10, 2000
G-R Job #180063

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

RE: Semi-Annual 1999 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

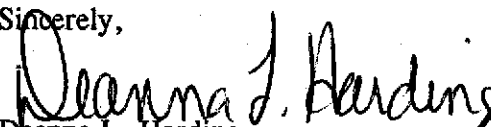
Dear Mr. De Witt:

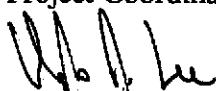
This report documents the monthly and semi-annual groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On August 24, September 27, and October 28, 1999, field personnel monitored one well (MW-5). In addition, on November 15, 1999, field personnel monitored eleven wells (MW-1 through MW-7 and MW-9 through MW-12) and sampled five wells (MW-1, MW-3, MW-4, MW-9, and MW-11) at the above referenced site. One well (MW-8) was inaccessible.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one well (MW-5). 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.

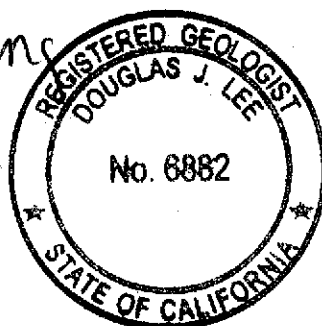
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1 and 4. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,


Deanna L. Harding
Project Coordinator


Douglas J. Lee

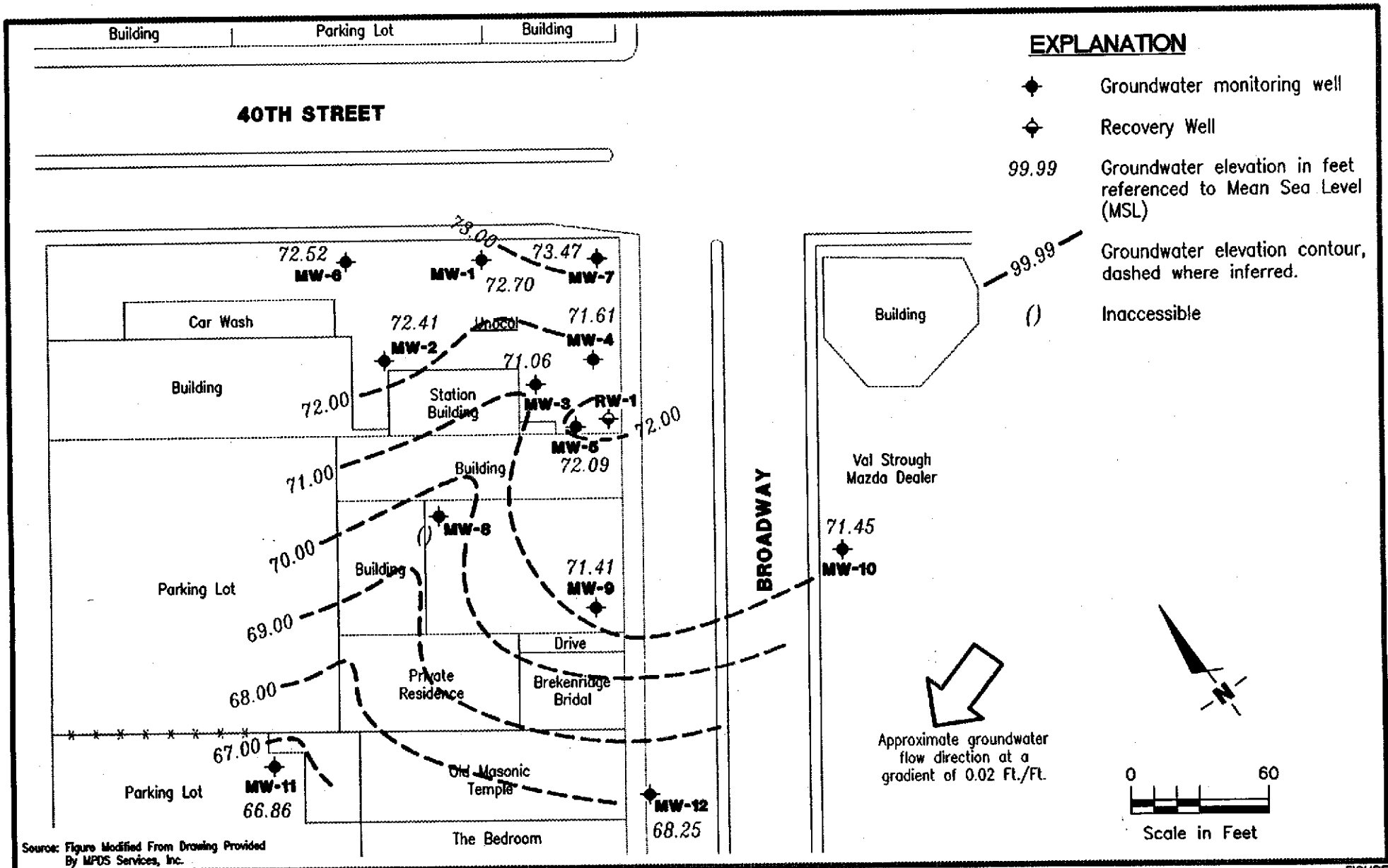
Senior Geologist, R.G. No. 6882



- 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: Oxygenate Compounds
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets

0746.qml

Chain of Custody Document and Laboratory Analytical Reports



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 0746
3943 Broadway
Oakland, California

FIGURE

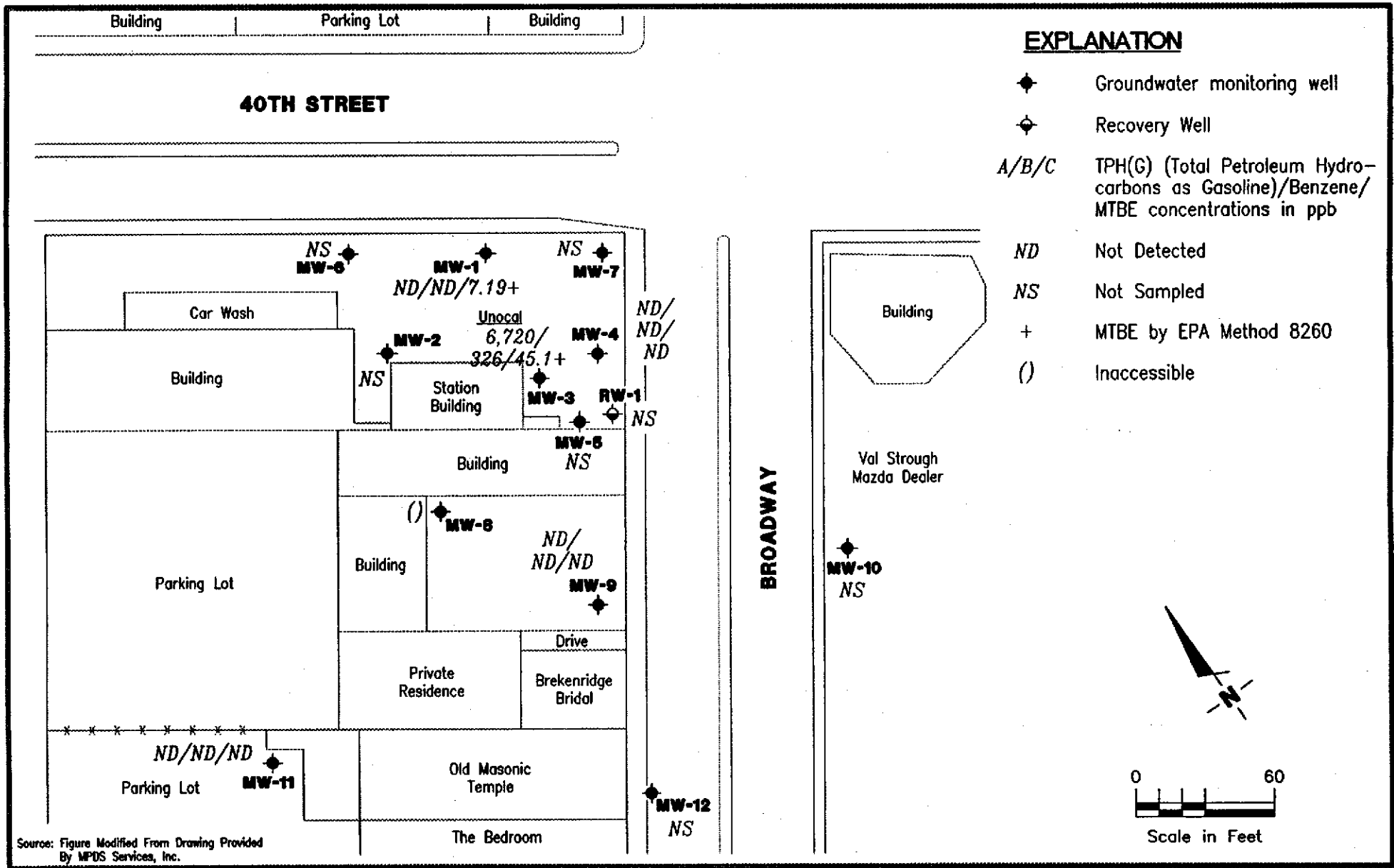
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JOB NUMBER
180063

REVIEWED BY

DATE
November 15, 1999

REVISED DATE



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 Dublin, CA 94568

CONCENTRATION MAP
 Tosco (Unocal) Service Station No. 0746
 3943 Broadway
 Oakland, California

FIGURE
2

JOB NUMBER
 180063

REVIEWED BY

DATE
 November 15, 1999

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 Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	11/01/89	--	--	--	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	--	
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	--
	05/03/95	6.85	73.69	0.00	260	21	39	17	24	--
08/03/95	7.69	72.85	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-1	11/07/95	8.15	72.39	0.00	ND	ND	ND	ND	ND	--
(cont)	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	8.12/7.19¹²
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	--
	03/22/93	9.50	72.12	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--

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	10/28/93	9.65	71.67	0.00	--	--	--	--	--	--
(cont)	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	--	--	--	--	--	--
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	--

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Groundwater Monitoring Data and Analytical Results
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 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	08/26/92	--	--	--	20,000	690	1,900	1,300	5,700	--
(cont)	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	--	--	--	--	--	--
	09/22/93	9.84	71.59**	0.02	--	--	--	--	--	--
	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	--

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	03/14/95	7.05	74.36	0.00	--	--	--	--	--	--
(cont)	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	6,720¹¹	326	ND⁵	398	226	120/45.1¹²
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	--	--	--	--	--	--
	05/25/93	8.75	72.73	0.00	74	10	ND	4.6	1.8	--
81.29	06/23/93	8.90	72.39	0.00	--	--	--	--	--	--
	07/22/93	9.26	72.03	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-4	08/25/93	9.45	71.84	0.00	640	100	1.1	100	22	--	
(cont)	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	--	
	08/03/95	8.60	72.69	0.00	57	2.0	ND	ND	ND	--	
	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	
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					--	--

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (mst)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	08/26/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
(cont)	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	--	--	--	--	--	--
	02/24/93	7.91	73.69**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	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	--

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	03/14/95	7.04	74.34	0.00	--	--	--	--	--	--	
(cont)	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	
	11/05/96	10.41	70.97	0.00	35,000	1,800	ND	1,300	4,900	580	
	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	--	--	--	--	--	--	
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	--	
	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	ND	ND	ND	ND	--	
80.47	12/21/92	7.71	72.76	0.00	--	--	--	--	--	--	
	01/30/93	7.25	73.22	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	02/24/93	6.74	73.73	0.00	ND	ND	ND	ND	ND	--
(cont)	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	--
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	--
	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	--
	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	--
	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	--
	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	--	--	--	--	--	--
	11/12/97	7.51	72.43	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--
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	--

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-7	08/28/91	--	--	--	ND	ND	ND	ND	ND	--
(cont)	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		--	--	--	--
	02/16/94	8.36	73.28	0.00	ND	ND	ND	ND	0.7	--
	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	--	--	--	--	--	--

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-7	11/11/98	8.20	73.44	0.00	--	--	--	--	--	--
(cont)	05/20/99	8.04	73.60	0.00	--	--	--	--	--	--
	11/15/99	8.17	73.47	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	--
	08/26/92	--	--	--	1,800	12	8.0	4.0	13	--
	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	--	--	--	--	--	--

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (mst)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	10/28/93	11.19	70.22	0.00	--	--	--	--	--	--
(cont)	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	--
	02/07/95	8.69	72.72	0.00	230	1.4	0.95	0.9	1.1	--
	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)	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--

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	02/24/93	INACCESSIBLE	--	--	--	--	--	--	--	--
(cont)	03/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/28/93	INACCESSIBLE	--	--	--	--	--	--	--	--
80.53	05/25/93	11.50	69.63	0.00	160	6.1	ND	7.4	1.1	--
	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
MW-10	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	--
81.90	12/21/92	13.41	68.49	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	01/30/93	11.60	70.30	0.00	--	--	--	--	--	--
(cont)	02/24/93	11.23	70.67	0.00	ND	ND	ND	ND	ND	--
	03/22/93	10.89	71.01	0.00	--	--	--	--	--	--
	04/28/93	12.11	69.79	0.00	--	--	--	--	--	--
	05/25/93	12.02	69.88	0.00	ND	ND	ND	ND	ND	--
81.61	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	--
	09/22/93	13.06	68.55	0.00	--	--	--	--	--	--
	10/28/93	13.23	68.38	0.00	--	--	--	--	--	--
	11/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/16/94	12.43	69.18	0.00	ND	ND	ND	ND	ND	--
	05/31/94	12.69	68.92	0.00	ND	ND	0.9	ND	0.91	--
	08/31/94	13.47	68.14	0.00	ND	ND	0.64	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	--
	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	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	--
	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	--	--	--	--	--	--
	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	--	--	--	--	--	--

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (mst)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
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		--	--	--	--	--
	05/03/95	9.28	68.90	0.00	ND	ND	ND	ND	ND	--	
	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	

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

Well ID/ TOC*	Date	DFW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
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	--
	08/31/94	12.82	66.79	0.00	ND	ND	1.0	ND	1.0	ND
	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	--	--	--	--	--	--

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										
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	--	--	--	--	--	--
	09/08/93	9.71	70.92	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--
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

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 = Relative to 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.

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.

Note : Measurements were taken using a LaMotte DO4000 dissolved oxygen meter.

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 Product	Amount Bailed Water	Amount Bailed (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.

EXPLANATIONS:

DTW = Depth to water
 (ft.) = Feet
 oz. = ounces
 -- = Not Analyzed

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.

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
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

EXPLANATIONS:

TBA = Tertiary Butyl Alcohol
 MTBE = Methyl Tertiary Butyl Ether
 DIPE = Di-isopropyl Ether
 ETBE = Ethyl Tertiary Butyl Ether
 TAME = Tertiary Amyl Methyl Ether
 ppb = Parts per billion
 ND = Not Detected

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

- 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 past holding time.
- ⁵ Detection limit raised. Refer to analytical reports.

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 a MMC flexi-dip 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 AUGUST 24, 1999*

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility TOSCO 46 # 0746
Address: 3943 BROADWAY
City: OAKLAND, CA

Job#: 180063
Date: 8/24/99
Sampler: HAIG KEVOAK

Well ID MW-5
Well Diameter 2 in.
Total Depth 19.81 ft.
Depth to Water 9.37 ft.

Well Condition: OK (well WITH SKIMMER)

Hydrocarbon Thickness: 0.09 (feet) Amount Bailed ~40Z (Gallons)

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: _____~~
N/A

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
_____	_____	Y	_____	SEQUOIA	TPH(G)/btex/mtbe
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: PRODUCT FROM SKIMMER AND PRODUCT BAILED FROM MW-5 \approx 40Z. (TOTAL).

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

*MONITORING
EVENT OF SEPTEMBER 27, 1999*

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility TOSCO 76#0746
Address: 3943 Broadway
City: Oakland, CA

Job#: 180063
Date: 9/27/1994
Sampler: HAIG KEVOAK

Well ID MW-5
Well Diameter 2 in.
Total Depth 19.81 ft.
Depth to Water 9.51 ft.

Well Condition: OK

Hydrocarbon Thickness: 0.06 (feet) Amount Bailed From Well & SKIMMER 3.502 (Gallons)

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: _____~~

N/A

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

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

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

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	<u>N/A</u>		_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

N/A

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
_____	_____	Y	_____	SEQUOIA	TPHIG)/btex/mtbe
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: Product bailed from MW-5 and emptied from Skimmer \approx Total 3.502.

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

*MONITORING
EVENT OF OCTOBER 28, 1999*

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility: Tosco 76 #0746 Job#: 180063
 Address: 3943 Broadway Date: 10/28/99
 City: Oakland, CA Sampler: Clyde Galantine

Well ID: MW-5 Well Condition: O.K.
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.05 (feet) Amount Bailed (product/water): 3.002 (Gallons)
 Total Depth: 19.81 ft.
 Depth to Water: N/A 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: _____

N/A

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

Starting Time: 3:15 pm Weather Conditions: _____
 Sampling Time: 3:45 pm Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y		SEQUOIA	

COMMENTS: Skimmer was empty. Measured 0.05' of FP in well. Bailed 3 oz. of FP from well. Replaced Skimmer DTW was accidentally not taken.

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

*MONITORING & SAMPLING
EVENT OF NOVEMBER 15, 1999*

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

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

Job#: 180063
Date: 11-15-99
Sampler: Joc

Well ID MW-1
Well Diameter 2 in.
Total Depth 19.90 ft.
Depth to Water 7.84 ft.

Well Condition: O.F.
Hydrocarbon Amount Bailed
Thickness: 0 (feet) (product/water): 0 (Gallons)
Volume 2" = 0.17 3" = 0.38 4" = 0.66
Factor (VF) 6" = 1.50 12" = 5.80

12.06 X VF 0.17 = 2.05 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: 12:35 Weather Conditions: cloudy
Sampling Time: 12:53 PM Water Color: clear Odor: none
Purging Flow Rate: 1 gpm. Sediment Description: none
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times \text{d}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:42</u>	<u>2</u>	<u>7.76</u>	<u>4.86</u>	<u>64.9</u>			
<u>12:44</u>	<u>4</u>	<u>7.53</u>	<u>5.41</u>	<u>65.1</u>			
<u>12:46</u>	<u>6.5</u>	<u>7.51</u>	<u>5.48</u>	<u>64.8</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>300A</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtba</u>

COMMENTS: Removed Old ORC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility #0746

Job#: 180063

Address: 3943 Broadway

Date: 11-15-99

City: Oakland, CA

Sampler: Joc

Well ID MW-2

Well Condition: O.K.

Well Diameter 2 in.

Hydrocarbon Amount Bailed
Thickness: 0 (feet) (product/water): 0 (Gallons)

Total Depth 19.96 ft.

Depth to Water 8.91 ft.

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

0.17 X VF = 0.17 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: cloudy

Sampling Time: _____

Water Color: clear Odor: _____

Purging Flow Rate: _____ gpm.

Sediment Description: none

Did well de-water? _____

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MAW</u>	<u>3 x 0.1</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>PPH(G)/btox/mcbs</u>

COMMENTS: M. only

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility #0746

Job#: 180063

Address: 3943 Broadway

Date: 11-15-99

City: Oakland, CA

Sampler: Joe

Well ID MW-3

Well Condition: O.K.

Well Diameter 2 in.

Hydrocarbon
Thickness: 0 (feet) Amount Bailed
(product/water): 0 (Gallons)

Total Depth 22.43 ft.

Depth to Water 10.35 ft.

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

12.08 x VF 0.17 = 2.05 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: 1:35

Weather Conditions: cloudy

Sampling Time: 1:55 P.M.

Water Color: clear Odor: yes

Purging Flow Rate: 1 gpm.

Sediment Description: none

Did well de-water? _____

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)
<u>1:42</u>	<u>2</u>	<u>6.95</u>	<u>2.88</u>	<u>65.3</u>			
<u>1:44</u>	<u>4</u>	<u>6.91</u>	<u>3.06</u>	<u>69.3</u>			
<u>1:46</u>	<u>6</u>	<u>6.94</u>	<u>3.09</u>	<u>69.8</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>300A</u>	<u>Y</u>	<u>NCL</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btax/mtbe</u>

COMMENTS: REMOVED OLD ORC

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job#: 180063
Date: 11-15-99
Sampler: Joc

Well ID MW-4
Well Diameter 2 in.
Total Depth 20.03 ft.
Depth to Water 9.68 ft.

Well Condition: O.K.

Hydrocarbon Thickness:	Amount Bailed (product/water):			
	(feet)	(Gallons)		
Volume	2" = 0.17	3" = 0.38	4" = 0.66	
Factor (VF)	6" = 1.50	12" = 5.80		

10.35 X VF 0.17 = 1.76 X 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

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

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

Starting Time: 1:05
Sampling Time: 1:25 p.m.
Purging Flow Rate: 1 gpm.
Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times$	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:12</u>	<u>1.5</u>	<u>7.77</u>	<u>8.31</u>	<u>65.3</u>	_____	_____	_____
<u>1:14</u>	<u>3</u>	<u>7.43</u>	<u>8.46</u>	<u>65.1</u>	_____	_____	_____
<u>1:16</u>	<u>5.5</u>	<u>7.45</u>	<u>8.41</u>	<u>65.4</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3VOA</u>	<u>Y</u>	<u>NCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: Removed Old ORC

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

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

Job#: 180063
Date: 11-15-99
Sampler: Joc

Well ID MW-5
Well Diameter 2 in.
Total Depth 20.18 ft.
Depth to Water 9.29 ft.

Well Condition: O.F. 16 ounces in Skimmer.

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

_____ X VF 0.17 = _____ 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: cloudy
Water Color: clear Odor: _____
Sediment Description: none
If yes; Time: _____ Volume: _____ (gal.)

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>-MW-</u>	<u>3x2A</u>	<u>Y</u>	<u>NCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btox/mtba</u>

COMMENTS: 16 ounces of FP removed from skimmer was taken to the lab. After talking to John, it was decided we shouldn't be sampling this well. No product was found in well water. Only product found was in

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility #0746

Job#: 180063

Address: 3943 Broadway

Date: 11-15-99

City: Oakland, CA

Sampler: Joe

Well ID MW-6

Well Condition: O.K.

Well Diameter 2 in.

Hydrocarbon
Thickness: 0 (feet) Amount Bailed
(product/water): 0 (Gallons)

Total Depth 19.78 ft.

Depth to Water 7.42 ft.

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

 X VF 0.17 = 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: cloudy

Sampling Time:

Water Color: clear Odor:

Purging Flow Rate: gpm.

Sediment Description: none

Did well de-water?

If yes; Time: Volume: (gal.)

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3.0A</u>	<u>Y</u>	<u>NCL</u>	<u>SEQUOIA</u>	<u>TPH/CB/TOX/MT/BE</u>

COMMENTS: M. only

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job#: 180063
Date: 11-15-99
Sampler: Joc

Well ID MW-7

Well Condition: O.K.

Well Diameter 2 in.

Hydrocarbon
Thickness: 0 (feet) Amount Bailed
(product/water): 0 (Gallons)

Total Depth 18.50 ft.

Depth to Water 8.17 ft.

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

_____ X VF 0.17 = _____ 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: cloudy

Sampling Time: _____

Water Color: clear Odor: _____

Purging Flow Rate: _____ gpm.

Sediment Description: none

Did well de-water? _____

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 x 5A</u>	<u>Y</u>	<u>NCL</u>	<u>SEQUOIA</u>	<u>TPH/GH/btex/mtbe</u>

COMMENTS: no. only

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job#: 180063
Date: 11-15-99
Sampler: Joe

Well ID MW-8 Well Condition: O.K. * See notes
Well Diameter 2 in. Hydrocarbon Amount Bailed
Thickness: 0 (feet) (product/water): 0 (Gallons)
Total Depth 21.90 ft.
Depth to Water _____ ft.

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

_____ X VF 0.17 = _____ 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: cloudy
Sampling Time: _____ Water Color: clear Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: none
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}^\circ\text{C}$	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>3, 20A</u>	<u>Y</u>	<u>NCL</u>	<u>SEQUOIA</u>	<u>TPH/GH/bTEX/mtbe</u>

COMMENTS: This well was not accessible. Parked over by a junk car with completely flattened tires. Car dealer wants to be notified in writing as well as by phone. Talked to John on the phone. Enclosed is the dealers business card.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility #0746

Job#: 180063

Address: 3943 Broadway

Date: 11-15-99

City: Oakland, CA

Sampler: Joe

Well ID MW-9

Well Condition: O.K.

Well Diameter 2 in.

Hydrocarbon
Thickness: 0 (feet) Amount Bailed
(product/water): 0 (Gallons)

Total Depth 21.93 ft.

Depth to Water 9.12 ft.

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

12.81 X VF 0.17 = 2.18 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: 12:00

Weather Conditions: cloudy

Sampling Time: 12:25 PM

Water Color: clear Odor: none

Purging Flow Rate: 1 gpm.

Sediment Description: none

Did well de-water? _____

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)
<u>12:10</u>	<u>2</u>	<u>7.47</u>	<u>6.35</u>	<u>64.2</u>			
<u>12:13</u>	<u>4</u>	<u>7.40</u>	<u>6.66</u>	<u>65.1</u>			
<u>12:15</u>	<u>6.5</u>	<u>7.42</u>	<u>6.71</u>	<u>65.3</u>			
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3V0A</u>	<u>Y</u>	<u>NCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btax/mtba</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: REMOVED OLD ORC

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job#: 180063
Date: 11-15-99
Sampler: Joe

Well ID MW-10
Well Diameter 2 in.
Total Depth 21.78 ft.
Depth to Water 10.16 ft.

Well Condition: O.K.

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

0 X VF 0.17 = 0 X 3 (case volume) = Estimated Purge Volume: 0 (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: cloudy
Water Color: clear Odor: _____
Sediment Description: none
If yes; Time: _____ Volume: _____ (gal.)

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3XCA</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(C), BTEX/MTBE</u>

COMMENTS: M. only

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job#: 180063
Date: 11-15-99
Sampler: Joe

Well ID MW-11
Well Diameter 2 in.
Total Depth 19.20 ft.
Depth to Water 11.32 ft.

Well Condition: O.K.

Hydrocarbon Thickness:	(feet)	Amount Bailed (product/water):	(Gallons)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

7.88 X VF 0.17 = 1.34 X 3 (case volume) = Estimated Purge Volume: 4 (gal.)

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

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

Starting Time: 11:00
Sampling Time: 11:33 A.M.
Purging Flow Rate: 0.6 gpm.
Did well de-water? _____

Weather Conditions: cloudy
Water Color: clear Odor: none
Sediment Description: none
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)
11:20	1	7.39	9.65	63.9			
11:22	2.5	7.17	9.62	64.2			
11:24	4	7.27	9.68	64.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	3V0A	Y	HCL	SEQUOIA	TPH(G)/bTEX/mtbe

COMMENTS: To have access to this well contact American Red Cross, or Masonic Temple. Area is fenced-in with full of trucks.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility #0746

Job#: 180063

Address: 3943 Broadway

Date: 11-15-99

City: Oakland, CA

Sampler: Joc

Well ID MW-12

Well Condition: O.K.

Well Diameter 2 in.

Hydrocarbon
Thickness: 0 (feet) Amount Bailed
(product/water): 0 (Gallons)

Total Depth 17.65 ft.

Depth to Water 11.36 ft.

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

 X VF 0.17 = 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: cloudy

Sampling Time:

Water Color: clear Odor: none

Purging Flow Rate: gpm.

Sediment Description: none

Did well de-water?

If yes; Time: Volume: (gal.)

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>3, VOA</u>	<u>Y</u>	<u>NCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btox/mtbe</u>

COMMENTS: M. only



Tosco Marketing Company
3030 Cole Canyon Pl., Box 408
San Ramon, California 94583

Facility Number: UNOCAL SS/BPO746
 Facility Address: 3943 BROADWAY, OAKLAND, CA
180063.85
 Consultant Project Number: _____
 Consultant Name: Gettler-Ryan Inc. (G-R Inc.)
 Address: 6747 Sierra Court, Suite J, Dublin, CA 94568
 Project Contact (Name): Deanna L. Harding
 (Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name): DAVE DeWitt
 (Phone): 925-277-2384
 Laboratory Name: Sequoia Analytical
 Laboratory Release Number: _____
 Samples Collected by (Name): JOE A SEMIAN
 Collection Date: 11-15-99
 Signature: [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iod (Yes or No)	Analytes To Be Performed													
								TPH G4 + STEK w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)						
TB-LB	01	1	W	G		NCL	Y	✓													
MW-1	02	3	W		12:55 P.M.			✓													
MW-3	03	1			1:55 P.M.			✓													
MW-4	04	1			1:25 P.M.			✓													
MW-9	05	1			12:15 P.M.			✓													
MW-11	06	1			11:55 A.M.			✓													

DO NOT BILL TB-LB ANALYSIS
 * CONFIRM ANY MTBE HIT BY RUNNING (6) Oxygens + Remarks 8260 compounds

L911177

Relinquished By (Signature) <u>[Signature]</u>	Organization G-R Inc.	Date/Time 11-15-99	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time 11/15/99 1600
Relinquished By (Signature) <u>[Signature]</u>	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature) <u>[Signature]</u>	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time

Turn Around Time (Circle Choice)
 24 Hrs.
 48 Hrs.
 5 Days
 10 Days
As Contracted



December 9, 1999

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

RE: Tosco(4)/L911177

Dear Deanna Harding

Enclosed are the results of analyses for sample(s) received by the laboratory on November 15, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Wayne Stevenson
Project Manager

CA ELAP Certificate Number 2245





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: SS# BP0746/ 3943 Broadway Project Manager: Deanna Harding	Sampled: 11/15/99 Received: 11/15/99 Reported: 12/9/99
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ANALYTICAL REPORT FOR L911177

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	L911177-01	Water	11/15/99
MW-1	L911177-02	Water	11/15/99
MW-3	L911177-03	Water	11/15/99
MW-4	L911177-04	Water	11/15/99
MW-9	L911177-05	Water	11/15/99
MW-11	L911177-06	Water	11/15/99





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: SS# BP0746/ 3943 Broadway Project Manager: Deanna Harding	Sampled: 11/15/99 Received: 11/15/99 Reported: 12/9/99
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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>L911177-01</u>				
TB-LB								<u>Water</u>
Purgeable Hydrocarbons as Gasoline	9110155	11/25/99	11/25/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	1.12	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		109	%	
				<u>L911177-02</u>				
MW-1								<u>Water</u>
Purgeable Hydrocarbons as Gasoline	9110155	11/25/99	11/25/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	8.12	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		115	%	
				<u>L911177-03</u>				
MW-3								<u>Water</u>
Purgeable Hydrocarbons as Gasoline	9110155	11/25/99	11/25/99		1000	6720	ug/l	1
Benzene	"	"	"		10.0	326	"	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	398	"	
Xylenes (total)	"	"	"		10.0	226	"	
Methyl tert-butyl ether	"	"	"		100	120	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		115	%	
				<u>L911177-04</u>				
MW-4								<u>Water</u>
Purgeable Hydrocarbons as Gasoline	9110155	11/26/99	11/26/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		110	%	
				<u>L911177-05</u>				
MW-9								<u>Water</u>
Purgeable Hydrocarbons as Gasoline	9110155	11/26/99	11/26/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	





Gentler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: SS# BP0746/ 3943 Broadway Project Manager: Deanna Harding	Sampled: 11/15/99 Received: 11/15/99 Reported: 12/9/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-9 (continued)				<u>L911177-05</u>			<u>Water</u>	
Methyl tert-butyl ether	9110155	11/26/99	11/26/99		5.00	ND	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		118	%	
MW-11				<u>L911177-06</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	9110155	11/26/99	11/26/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	1.04	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		109	%	





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: SS# BP0746/ 3943 Broadway Project Manager: Deanna Harding	Sampled: 11/15/99 Received: 11/15/99 Reported: 12/9/99
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**MTBE by EPA Method 8260A
Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1				L911177-02			Water	2
Di-isopropyl ether	9120020	12/5/99	12/5/99		2.00	ND	ug/l	
Ethanol	"	"	"		500	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Tert-butyl alcohol	"	"	"		100	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	7.19	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	76.0-114		108	%	
MW-3				L911177-03			Water	2
Di-isopropyl ether	9120020	12/5/99	12/5/99		4.00	ND	ug/l	
Ethanol	"	"	"		1000	ND	"	
Ethyl tert-butyl ether	"	"	"		4.00	ND	"	
Tert-amyl methyl ether	"	"	"		4.00	ND	"	
Tert-butyl alcohol	"	"	"		200	ND	"	
Methyl tert-butyl ether	"	"	"		4.00	45.1	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	76.0-114		97.6	%	





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: SS# BP0746/ 3943 Broadway Project Manager: Deanna Harding	Sampled: 11/15/99 Received: 11/15/99 Reported: 12/9/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9110155			Date Prepared: 11/25/99			Extraction Method: EPA 5030B (P/T)				
Blank			9110155-BLK1							
Purgeable Hydrocarbons as Gasoline	11/25/99			ND	ug/l	50.0				
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	"	10.0		11.1	"	70.0-130	111			
Blank			9110155-BLK2							
Purgeable Hydrocarbons as Gasoline	11/26/99			ND	ug/l	50.0				
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	"	10.0		11.0	"	70.0-130	110			
LCS			9110155-BS1							
Benzene	11/25/99	10.0		8.82	ug/l	70.0-130	88.2			
Toluene	"	10.0		8.60	"	70.0-130	86.0			
Ethylbenzene	"	10.0		8.97	"	70.0-130	89.7			
Xylenes (total)	"	30.0		26.8	"	70.0-130	89.3			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		10.4	"	70.0-130	104			
LCS			9110155-BS2							
Purgeable Hydrocarbons as Gasoline	11/25/99	250		230	ug/l	70.0-130	92.0			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		11.1	"	70.0-130	111			
LCS			9110155-BS3							
Benzene	11/26/99	10.0		9.30	ug/l	70.0-130	93.0			
Toluene	"	10.0		9.07	"	70.0-130	90.7			
Ethylbenzene	"	10.0		9.36	"	70.0-130	93.6			
Xylenes (total)	"	30.0		27.9	"	70.0-130	93.0			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		10.8	"	70.0-130	108			
LCS			9110155-BS4							
Purgeable Hydrocarbons as Gasoline	11/26/99	250		230	ug/l	70.0-130	92.0			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		11.1	"	70.0-130	111			





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: SS# BP0746/ 3943 Broadway Project Manager: Deanna Harding	Sampled: 11/15/99 Received: 11/15/99 Reported: 12/9/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike	9110155-MS1	L911233-01								
Purgeable Hydrocarbons as Gasoline	11/25/99	250	ND	230	ug/l	60.0-140	92.0			
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		11.0	"	70.0-130	110			
Matrix Spike Dup	9110155-MSD1	L911233-01								
Purgeable Hydrocarbons as Gasoline	11/25/99	250	ND	234	ug/l	60.0-140	93.6	25.0	1.72	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		10.2	"	70.0-130	102			





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: SS# BP0746/ 3943 Broadway Project Manager: Deanna Harding	Sampled: 11/15/99 Received: 11/15/99 Reported: 12/9/99
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**MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9120020		Date Prepared: 12/5/99		Extraction Method: EPA 5030B [P/T]						
Blank		9120020-BLK1								
Methyl tert-butyl ether	12/5/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		54.1	"	76.0-114	108			
LCS		9120020-BS1								
Methyl tert-butyl ether	12/5/99	50.0		49.4	ug/l	70.0-130	98.8			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.5	"	76.0-114	105			
Matrix Spike		9120020-MS1 L911177-02								
Methyl tert-butyl ether	12/5/99	50.0	7.19	54.1	ug/l	60.0-140	93.8			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		50.6	"	76.0-114	101			
Matrix Spike Dup		9120020-MSD1 L911177-02								
Methyl tert-butyl ether	12/5/99	50.0	7.19	52.5	ug/l	60.0-140	90.6	25.0	3.47	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		50.8	"	76.0-114	102			





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: SS# BP0746/ 3943 Broadway Project Manager: Deanna Harding	Sampled: 11/15/99 Received: 11/15/99 Reported: 12/9/99
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Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
2	This sample was analyzed outside the EPA recommended holding time.
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
Recov.	Recovery
RPD	Relative Percent Difference

