



# GETTLER-RYAN INC.

RO - 203

Would air sparge help?

## TRANSMITTAL

January 15, 2002

G-R #180063

TO: Mr. David B. De Witt  
Phillips 66 Company  
2000 Crow Canyon Place, Suite 400  
San Ramon, California 94583

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

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

JAN 29 2002

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	December 28, 2001	Groundwater Monitoring and Sampling Report Second Semi-Annual-Event of November 23, 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 *January 24, 2002*, this report will be distributed to the following:

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

Enclosure

trans/0746-DBD



# GETTLER-RYAN INC.

December 28, 2001  
G-R Job #180063

Mr. David B. De Witt  
Phillips 66 Company  
2000 Crow Canyon Place, Suite 400  
San Ramon, California 94583

**RE: Second Semi-Annual Event of November 23, 2001**  
Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #0746  
3943 Broadway  
Oakland, California

JAN 8 9 2002

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,

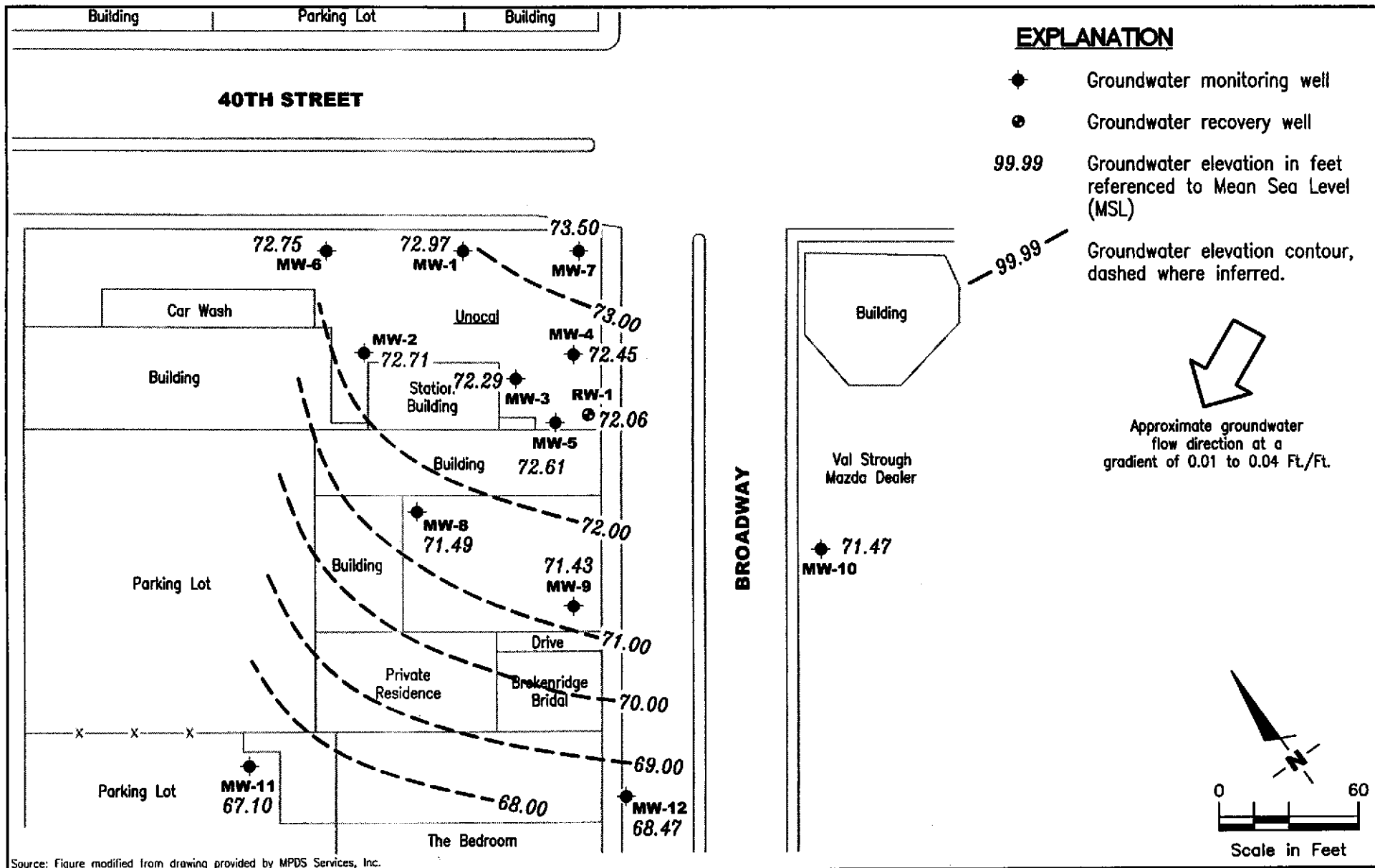
Deanna L. Harding  
Project Coordinator

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



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

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

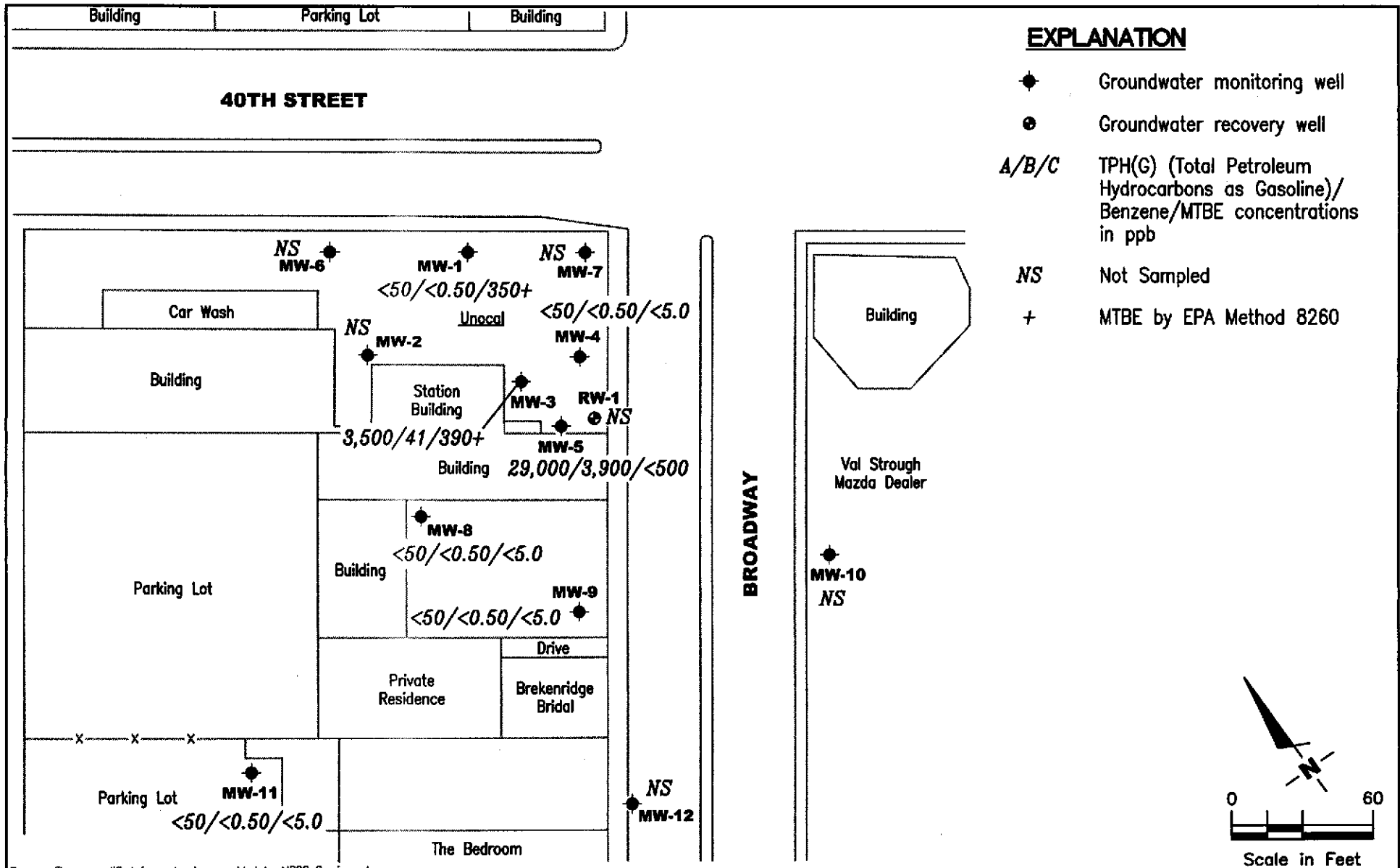
FIGURE  
**1**

JOB NUMBER  
 180063

REVIEWED BY

DATE  
 November 23, 2001

REVISED DATE



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

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

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

FIGURE  
**2**

JOB NUMBER <b>180063</b>	REVIEWED BY	DATE November 23, 2001	REVISED DATE
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**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	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 <sup>7,8,9</sup>
	11/15/99	7.84	72.70	0.00	ND	ND	ND	ND	ND	8.12/7.19 <sup>12</sup>
	05/22/00	7.53	73.01	0.00	ND	0.89	ND	ND	ND	220/290 <sup>12</sup>
	11/22/00	7.35	73.19	0.00	ND	ND	ND	ND	ND	105/142 <sup>7</sup>
	05/15/01	7.48	73.06	0.00	345 <sup>11</sup>	ND <sup>5</sup>	3.41	2.77	25.2	178/374 <sup>12</sup>
	11/23/01	7.57	72.97	0.00	<50	<0.50	<0.50	<0.50	<0.50	350/350 <sup>12</sup>
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 <sup>1</sup>	ND	ND	ND	ND	--
81.62	12/21/92	9.14	72.48	0.00	--	--	--	--	--	--
	01/30/93	8.99	72.63	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	02/24/93	8.03	73.59	0.00	11,000 <sup>1</sup>	ND	ND	ND	ND	--
(cont)	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	ND	ND	ND	ND	--
	02/16/94	8.91	72.41	0.00	3,200 <sup>1</sup>	ND	ND	ND	ND	--
	05/31/94	9.36	71.96	0.00	1,100 <sup>1</sup>	ND	ND	ND	ND	--
	08/31/94	9.85	71.47	0.00	310 <sup>1</sup>	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 <sup>2</sup>	ND	ND	ND	ND	--
	02/07/95	8.29	73.03	0.00	1,600 <sup>1</sup>	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 <sup>3</sup>
	05/06/96	8.90	72.42	0.00	SAMPLING DISCONTINUED <sup>4</sup>			--	--	--
	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	--	--	--	--	--	--

**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	11/22/00	8.64	72.68	0.00	--	--	--	--	--	--
(cont)	05/15/01	8.73	72.59	0.00	--	--	--	--	--	--
	<b>11/23/01</b>	<b>8.61</b>	<b>72.71</b>	<b>0.00</b>	--	--	--	--	--	--
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 <sup>2</sup>	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	--	--	--	--	--	--



**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	07/08/93	9.31	72.12**	0.03	--	--	--	--	--	--
(cont)	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	--
	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 <sup>3</sup>
	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 <sup>5</sup>	310	320	ND <sup>5</sup>
NP	11/11/98	9.25	72.16	0.00	8,700	500	ND <sup>5</sup>	330	310	ND <sup>5</sup>
NP	05/20/99	8.95	72.46	0.00	4,300	250	ND <sup>5</sup>	ND <sup>5</sup>	86	ND <sup>5</sup>
	11/15/99	10.35	71.06	0.00	6,720 <sup>11</sup>	326	ND <sup>5</sup>	398	226	120/45.1 <sup>12</sup>
	05/22/00	9.14	72.27	0.00	4,000 <sup>11</sup>	99	4.5	190	75	100/94 <sup>12</sup>

**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 (cont)	11/22/00	9.33	72.08	0.00	6,130 <sup>15</sup>	93.7	6.71	174	47.8	212/131 <sup>7</sup>
	05/15/01	9.25	72.16	0.00	4,490 <sup>11</sup>	229	7.09	160	31.6	97.1/75.5 <sup>12</sup>
	11/23/01	9.12	72.29	0.00	3,500 <sup>11</sup>	41	<5.0	120	8.0	320/390 <sup>7</sup>
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	--	--	--	--	--	--
	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	--

**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-4	09/27/94	10.09	71.20	0.00	--	--	--	--	--	--	--
(cont)	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	0.86
	05/06/96	8.70	72.59	0.00	1,200	12	11	15	36	ND	ND
	11/05/96	10.00	71.29	0.00	700	32	0.71	1.8	1.3	6.5	6.5
	05/15/97	9.37	71.92	0.00	51	ND	ND	ND	ND	ND	ND
	11/12/97	8.92	72.37	0.00	74	1.7	ND	ND	ND	ND	ND
	NP 05/04/98	9.48	71.81	0.00	ND	ND	ND	ND	ND	ND	ND
	NP 11/11/98	9.13	72.16	0.00	ND	0.63	ND	ND	ND	ND	ND
	NP 05/20/99	8.41	72.88	0.00	ND	ND	ND	ND	ND	ND	ND
	11/15/99	9.68	71.61	0.00	ND	ND	ND	ND	ND	ND	ND
	05/22/00	8.60	72.69	0.00	ND	ND	ND	ND	ND	ND	ND
	11/22/00	8.91	72.38	0.00	ND	ND	ND	ND	ND	ND	ND
	05/15/01	8.66	72.63	0.00	ND	ND	1.10	ND	1.16	ND	ND
	11/23/01	8.84	72.45	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0
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 (msl)	Product						MTBE (ppb)		
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (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	--	--	--	--	--	--	--		

**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	11/10/94	7.54	73.90**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
(cont)	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 <sup>3</sup>
	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 <sup>5</sup>
	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 <sup>6</sup>	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 <sup>13</sup>	9.14	72.24	0.00	--	--	--	--	--	--
	01/20/00 <sup>13</sup>	9.08	72.30	0.00	--	--	--	--	--	--
	02/26/00 <sup>13</sup>	8.69	72.69	0.00	--	--	--	--	--	--
	03/31/00 <sup>13</sup>	8.48	72.90	0.00	--	--	--	--	--	--
	04/13/00	8.66	72.72	0.00	--	--	--	--	--	--
	05/22/00 <sup>14</sup>	9.06	72.32	0.00	240,000 <sup>11</sup>	33,000	5,000	18,000	59,000	640/21 <sup>12</sup>
	11/22/00 <sup>16</sup>	9.24	72.64**	0.67	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/14/01 <sup>17</sup>	7.63	74.00**	0.33	--	--	--	--	--	--
	03/28/01 <sup>17</sup>	8.82	72.56	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)
MW-5	04/28/01 <sup>17</sup>	8.66	72.72	0.00	--	--	--	--	--	--
(cont)	05/15/01 <sup>17</sup>	8.97	72.41	0.00	--	--	--	--	--	--
	06/29/01 <sup>17</sup>	8.73	72.65	0.00	--	--	--	--	--	--
	07/17/01 <sup>17</sup>	8.92	72.48**	0.02	--	--	--	--	--	--
	08/30/01 <sup>17</sup>	8.85	72.53	0.00	--	--	--	--	--	--
	09/24/01 <sup>17</sup>	8.89	72.49	0.00	--	--	--	--	--	--
	10/15/01 <sup>17</sup>	9.11	72.29**	0.03	--	--	--	--	--	--
	11/23/01 <sup>17</sup>	8.77	72.61	0.00	29,000 <sup>11</sup>	3,900	450	1,400	3,500	<500
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	--	--	--	--	--	--
	02/24/93	6.74	73.73	0.00	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	--
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			--	--	--

**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	02/16/94	7.13	72.81	0.00	ND	ND	ND	ND	ND	--
(cont)	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 <sup>4</sup>			--	--	--
	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	--	--	--	--	--	--
	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	--	--	--	--	--	--
	<b>11/23/01</b>	<b>7.19</b>	<b>72.75</b>	<b>0.00</b>	--	--	--	--	--	--
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	--

**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	08/26/92	--	--	--	ND	ND	ND	0.73	ND	--
(cont)	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	--	--	--	--	--	--
	11/11/98	8.20	73.44	0.00	--	--	--	--	--	--
	05/20/99	8.04	73.60	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							MTBE (ppb)
				Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)		
MW-7	11/15/99	8.17	73.47	0.00	--	--	--	--	--	--	
(cont)	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	--	--	--	--	--	--	
	11/23/01	8.14	73.50	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	--	--	--	--	--	--	--	--	

**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-8	08/11/93	INACCESSIBLE	--	--	--	--	--	--	--	--
(cont)	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 <sup>1</sup>	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	-- <sup>3</sup>
	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 <sup>7,8,10</sup>
	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
NP	11/23/01	9.92	71.49	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0

**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-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	--	--	--	--	--	--	--	--
	04/28/93	INACCESSIBLE	--	--	--	--	--	--	--	--
		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 <sup>3</sup>	

**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	05/06/96	9.01	71.52	0.00	860	6.1	13	6.0	25	ND
(cont)	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
	<b>11/23/01</b>	<b>9.10</b>	<b>71.43</b>	<b>0.00</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;5.0</b>
<b>MW-10</b>	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	--	--	--	--	--	--
	01/30/93	11.60	70.30	0.00	--	--	--	--	--	--
	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	--	0.00	--	--	--	--	--	--
	11/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/16/94	12.43	69.18	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-10	05/31/94	12.69	68.92	0.00	ND	ND	0.9	ND	0.91	--
(cont)	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 <sup>4</sup>			--	--	--
	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	--	--	--	--	--	--
	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	--	--	--	--	--	--
	<b>11/23/01</b>	<b>10.14</b>	<b>71.47</b>	<b>0.00</b>	--	--	--	--	--	--
<b>MW-11</b>	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	--	--	--	--	--	--

**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	04/28/93	13.87	64.56	0.00	--	--	--	--	--	--
(cont)	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 <sup>4</sup>			--	--	--
	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
	11/23/01	11.08	67.10	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0

**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	08/26/92	--	--	--	ND	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	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	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	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	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	ND	--
	02/16/94	12.76	66.85	0.00	ND	ND	ND	ND	ND	ND	--
	08/31/94	12.82	66.79	0.00	ND	ND	1.0	ND	1.0	ND	ND
	05/31/94	12.64	66.97	0.00	ND	ND	0.81	ND	0.82	ND	--
	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	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	ND	--
	08/03/95	13.47	66.14	0.00	--	--	--	--	--	--	--
	11/07/95	12.78	66.83	0.00	ND	ND	ND	ND	ND	ND	--
	05/06/96	13.25	66.36	0.00	SAMPLING DISCONTINUED <sup>4</sup>			--	--	--	--
	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	--	--	--	--	--	--	--	

**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	11/15/99	11.36	68.25	0.00	--	--	--	--	--	--
(cont)	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	--	--	--	--	--	--
	11/23/01	11.14	68.47	0.00	--	--	--	--	--	--
<b>RW-1</b>										
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	--	--	--	--	--	--
	10/15/01	8.43	72.20	0.00	--	--	--	--	--	--
	11/23/01	8.57	72.06	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)	
<b>Trip Blank</b>											
TB-LB	05/04/98	--	--	--	ND	ND	ND	ND	ND	ND	ND
	11/11/98	--	--	--	ND	ND	ND	ND	ND	ND	ND
	05/20/99	--	--	--	ND	ND	ND	ND	ND	ND	ND
	11/15/99	--	--	--	ND	ND	1.12	ND	ND	ND	ND
	05/22/00	--	--	--	ND	ND	ND	ND	ND	ND	ND
	11/22/00	--	--	--	ND	ND	ND	ND	ND	ND	ND
	05/15/01	--	--	--	ND	ND	ND	ND	ND	ND	ND
	11/23/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0

**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	TPH-G = Total Petroleum Hydrocarbons as Gasoline	MTBE = Methyl tertiary butyl ether
DTW = Depth to Water	B = Benzene	(ppb) = Parts per billion
(ft.) = Feet	T = Toluene	ND = Not Detected
GWE = Groundwater Elevation	E = Ethylbenzene	-- = Not Measured/Not Analyzed
(msl) = Mean sea level	X = Xylenes	NP = No Purge

- \* 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.).  
 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	-- <sup>1</sup>
	05/15/97	3.92	-- <sup>1</sup>
	11/12/97	4.16	-- <sup>1</sup>
	05/04/98	3.84	-- <sup>1</sup>
	11/11/98	2.85	-- <sup>1</sup>
	05/20/99	3.30	-- <sup>1</sup>
MW-2	08/19/95	--	2.77
	05/15/97	3.01	-- <sup>1</sup>
	11/12/97	3.27	-- <sup>1</sup>
	05/04/98	3.63	-- <sup>1</sup>
MW-3	08/19/95	--	2.06
	11/07/95	--	1.68
	05/06/96	3.18	3.40
	11/05/96	2.03	-- <sup>1</sup>
	05/15/97	3.08	-- <sup>1</sup>
	05/04/98	2.98	-- <sup>1</sup>
	11/11/98	2.22	-- <sup>1</sup>
MW-4	05/20/99	2.60	-- <sup>1</sup>
	08/19/95	--	2.19
	11/07/95	--	8.43
	05/06/96	3.75	5.97
	11/05/96	2.11	-- <sup>1</sup>
	05/15/97	3.24	-- <sup>1</sup>
	11/12/97	3.11	-- <sup>1</sup>
	05/04/98	3.73	-- <sup>1</sup>
	11/11/98	4.33	-- <sup>1</sup>
05/20/99	3.90	-- <sup>1</sup>	
MW-5	08/19/95	--	2.09
	11/07/95	--	1.79
	05/06/96	2.91	1.80
	11/05/96	1.85	-- <sup>1</sup>
	05/15/97	2.10	-- <sup>1</sup>
	11/12/97	1.98	-- <sup>1</sup>
	05/04/98	1.69	-- <sup>1</sup>
MW-6	05/15/97	2.90	-- <sup>1</sup>
	05/04/98	3.57	-- <sup>1</sup>

**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	-- <sup>1</sup>
	05/04/98	3.09	-- <sup>1</sup>
MW-8	11/05/96	INACCESSIBLE (PARKED OVER)	
	05/15/97	2.88	-- <sup>1</sup>
	11/12/97	INACCESSIBLE (PARKED OVER)	
	05/04/98	INACCESSIBLE (PARKED OVER)	
	11/11/98	INACCESSIBLE (PARKED OVER)	
	05/20/99	3.55	-- <sup>1</sup>
MW-9	05/06/96	4.23	3.25
	11/05/96	2.98	-- <sup>1</sup>
	05/15/97	3.04	-- <sup>1</sup>
	11/12/97	4.02	-- <sup>1</sup>
	05/04/98	3.41	-- <sup>1</sup>
	11/11/98	5.19	-- <sup>1</sup>
	05/20/99	4.46	-- <sup>1</sup>
MW-10	05/15/97	1.61	-- <sup>1</sup>
	05/04/98	2.85	-- <sup>1</sup>
MW-11	05/15/97	1.68	-- <sup>1</sup>
	05/04/98	2.94	-- <sup>1</sup>
	05/20/99	3.22	-- <sup>1</sup>
MW-12	05/15/97	2.10	-- <sup>1</sup>
	05/04/98	3.41	-- <sup>1</sup>
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

<sup>1</sup> 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 <sup>1,2</sup>	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 <sup>3</sup>	--	0.05	--	--	3.0 oz.
	11/15/99	9.29	Sheen	--	--	16 oz.
	12/20/99	9.14	0.00	-- <sup>4</sup>	--	<1.0 oz
	01/20/00	9.08	0.00	-- <sup>4</sup>	--	<1.0 oz
	02/26/00	8.69	0.00	-- <sup>4</sup>	--	<1.0 oz
	03/31/00	8.48	0.00	-- <sup>4</sup>	--	<1.0 oz
	04/13/00	8.66	0.00	0.00	0.00	0.00
	05/22/00	9.06	0.00	-- <sup>5</sup>	--	1.5 oz.
	11/22/00 <sup>6</sup>	9.24	0.67	15 oz.	3 gallons	3.12 gallons
	02/14/01 <sup>7</sup>	7.63	0.33	8 oz.	64 oz.	72 oz.
	03/28/01 <sup>7</sup>	8.82	0.00	-- <sup>8</sup>	--	20 oz.
	04/28/01 <sup>7</sup>	8.66	0.00	-- <sup>9</sup>	--	7 oz.
	05/15/01 <sup>7</sup>	8.97	0.00	-- <sup>10</sup>	--	6 oz.
	06/29/01 <sup>7</sup>	8.73	0.00	-- <sup>11</sup>	--	3 oz.
	07/17/01 <sup>7</sup>	8.92	0.02	-- <sup>11</sup>	--	3 oz.
	08/30/01 <sup>7</sup>	8.85	0.00	0.00	0.00	0.00
	09/24/01 <sup>7</sup>	8.89	0.00	-- <sup>12</sup>	0.00	0.00
	10/15/01 <sup>7</sup>	9.11	0.03	4 oz.	2 gallons	2.03 gallons
	11/23/01 <sup>7</sup>	8.77	0.00	-- <sup>4</sup>	--	<1.0 oz

**EXPLANATIONS:**

DTW = Depth to water

oz. = ounces

(ft.) = Feet

-- = Not Measured

<sup>1</sup> A new skimmer (Petro Trap) was installed.

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

<sup>3</sup> Replaced skimmer.

<sup>4</sup> Less than 1 oz. of product found in skimmer.

<sup>5</sup> 1.5 oz. of product found in skimmer.

<sup>6</sup> Skimmer not present in well.

<sup>7</sup> Skimmer was re-installed / skimmer present in well.

<sup>8</sup> 20 oz. of product found in skimmer.

<sup>9</sup> 7 oz. of product found in skimmer.

<sup>10</sup> 6 oz. of product found in skimmer.

<sup>11</sup> 3 oz. of product found in skimmer.

<sup>12</sup> A few drops 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)	1,2-DCA (ppb)	EDB (ppb)
MW-1	05/20/99 <sup>1,3</sup>	ND	ND	<sup>2</sup> 92/47	ND	ND	ND	--	--
	11/15/99 <sup>4</sup>	ND	ND	7.19	ND	ND	ND	--	--
	05/22/00 <sup>4</sup>	ND	130	290	ND	ND	ND	--	--
	11/22/00	-- <sup>6</sup>	-- <sup>6</sup>	142	ND	ND	ND	--	--
	05/15/01 <sup>4</sup>	ND <sup>5</sup>	ND <sup>5</sup>	374	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	--	--
	11/23/01 <sup>4</sup>	<1,400	<57	350	<2.9	<2.9	<2.9	<2.9	<2.9
MW-3	05/22/00 <sup>4</sup>	ND	ND	94	ND	ND	ND	--	--
	11/22/00	-- <sup>6</sup>	-- <sup>6</sup>	131	ND	ND	ND	--	--
	05/15/01 <sup>4</sup>	ND <sup>5</sup>	ND <sup>5</sup>	75.5	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	--	--
	11/23/01	<1,200	79	390	<2.5	<2.5	<2.5	<2.5	<2.5
MW-5	05/22/00 <sup>4</sup>	ND <sup>5</sup>	ND <sup>5</sup>	21	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	--	--
MW-8	05/20/99 <sup>1,3</sup>	ND	ND	<sup>2</sup> 12/10	ND	ND	ND	--	--
	11/15/99 <sup>4</sup>	ND <sup>5</sup>	ND <sup>5</sup>	45.1	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	--	--

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

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
1,2-DCA = 1,2-Dichloroethane  
EDB = 1,2-Dibromoethane  
(ppb) = Parts per billion  
ND = Not Detected  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

- <sup>1</sup> Analyzed past hold time (June 9, 1999).
- <sup>2</sup> First run MTBE was for qualitative use only.
- <sup>3</sup> Report revised July 6, 1999.
- <sup>4</sup> Laboratory report indicates sample was analyzed outside of the EPA recommended holding time.
- <sup>5</sup> Detection limit raised. Refer to analytical reports.
- <sup>6</sup> Laboratory did not analyze for Ethanol and TBA.

## 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 Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.



**TOSCO (UNOCAL) SERVICE STATION #0746  
OAKLAND, CA**

**MONITORING AND SAMPLING  
EVENT OF JUNE 29, 2001**

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

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

Job#: 180063  
Date: 6-29-01  
Sampler: Joe

Well ID: MW-5  
Well Diameter: 2 in.  
Total Depth: 20.14 ft.  
Depth to Water: 8.73 ft.

Well Condition: O.K.  
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 3 ounces of FP found (only inside 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: \_\_\_\_\_  
Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

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

**LABORATORY INFORMATION**

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

COMMENTS: Removed 3 ounces of FP from skimmer. No FP found in well itself. Dedicated FP drum onsite.

**TOSCO (UNOCAL) SERVICE STATION #0746  
OAKLAND, CA**

**MONITORING AND SAMPLING  
EVENT OF JULY 17, 2001**

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

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

Job#: 180063  
Date: 7-17-01  
Sampler: \_\_\_\_\_

Well ID MW-5  
Well Diameter 2 in  
Total Depth 20.14 ft  
Depth to Water 8.92 ft

Well Condition: OK  
Hydrocarbon Thickness: 0.02' in  
Amount Bailed (product/water): 3 ounces of FP found inside 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: \_\_\_\_\_  
Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
Sediment Description: \_\_\_\_\_  
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)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

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

COMMENTS: Placed 3 ounces of FP found in skimmer inside dedicated drum on site. Skimmer rubber tubing was broken. See enclosed picture. Do we have spare parts of this skimmer?

**TOSCO (UNOCAL) SERVICE STATION #0746  
OAKLAND, CA**

**MONITORING AND SAMPLING  
EVENT OF AUGUST 30, 2001**

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job#: 180063  
Date: 8-30-01  
Sampler: Joe

Well ID: MW-5  
Well Diameter: 2 in.  
Total Depth: 20.14 ft.  
Depth to Water: 8.85 ft.

Well Condition: O.K.

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

\_\_\_\_\_ 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: \_\_\_\_\_  
Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

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

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	3 X VDA VIAL	Y	HCL	Seq.	TPHG/BTEX/MTOE

COMMENTS: Replaced skimmer hose.

**TOSCO (UNOCAL) SERVICE STATION #0746  
OAKLAND, CA**

**MONITORING AND SAMPLING  
EVENT OF SEPTEMBER 24, 2001**

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job#: 180063  
Date: 9-24-01  
Sampler: Soe

Well ID mw-5

Well Condition: o.k.

Well Diameter 2 in.

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

Total Depth 20.14 ft

Depth to Water 8.89 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: \_\_\_\_\_  
Sampling Time: \_\_\_\_\_  
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 $\mu\text{mhos/cm } ^\circ\text{K}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

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

COMMENTS: Negligible amount (a few drops) of FP found in skimmer only.



**TOSCO (UNOCAL) SERVICE STATION #0746  
OAKLAND, CA**

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job#: 180063  
Date: 10-15-01  
Sampler: JOC

Well ID: MW-5  
Well Diameter: 2 in.  
Total Depth: 20.14 ft.  
Depth to Water: 9.11 ft.

Well Condition: O.K.  
Hydrocarbon Thickness: 0.03' Amount Bailed: 4 ounces FP / 2 g. water  
(product/water): \_\_\_\_\_ (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: \_\_\_\_\_  
Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

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

### LABORATORY INFORMATION

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

COMMENTS: Removed 1 ounce of product from skimmer & 3 ounces of product from well. A total of 4 ounces removed from well & placed in small (yellow) dedicated drum nearby.

**TOSCO (UNOCAL) SERVICE STATION #0746  
OAKLAND, CA**

**MONITORING AND SAMPLING  
EVENT OF NOVEMBER 23, 2001**

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility # 0746 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID: MW-1 Well Condition: O.K.  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal)  
 Total Depth: 19.84 ft  
 Depth to Water: 7.57 ft

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

12.77 x VF 0.17 = 2.09 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: 10:25 Weather Conditions: Wet  
 Sampling Time: 10:50 A.M. (1050) Water Color: clear Odor: None  
 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>10:34</u>	<u>2</u>	<u>7.17</u>	<u>8.31</u>	<u>71.2</u>			
<u>10:36</u>	<u>4</u>	<u>7.21</u>	<u>6.97</u>	<u>71.5</u>			
<u>10:38</u>	<u>6.5</u>	<u>7.26</u>	<u>6.94</u>	<u>71.8</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</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 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID MW-2 Well Condition: OK  
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth 19.90 ft  
 Depth to Water 8.61 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: Wet  
 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 ( $\mu$ mhos/cm X)	Temperature (F)	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 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Joc

Well ID: MW-3 Well Condition: OK  
 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: 9.12 ft.

13.28 x VF 0.17 = 2.25 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: 12:45 Weather Conditions: Wet  
 Sampling Time: 1:10 P.M. (1310) 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 $10^2$ $\mu$ mhos/cm K	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:55</u>	<u>2.5</u>	<u>7.08</u>	<u>3.15</u>	<u>71.6</u>			
<u>12:57</u>	<u>5</u>	<u>6.94</u>	<u>3.18</u>	<u>71.5</u>			
<u>12:59</u>	<u>7</u>	<u>6.91</u>	<u>3.12</u>	<u>71.9</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3YOL</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: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID MW-4 Well Condition: O.K.  
 Well Diameter 2 in. Hydrocarbon Amount Bailed  
 Thickness: 0 in. (product/water): 0 (gal.)  
 Total Depth 19.98 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water 8.84 ft. Factor (VF) 6" = 1.50 12" = 5.80

11.14 x VF 0.17 = 1.90 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: 12:05 Weather Conditions: Wet  
 Sampling Time: 12:30 P.M. (1230) Water Color: clear Odor: Some  
 Purging Flow Rate: 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</u>	<u>7.27</u>	<u>6.75</u>	<u>73.1</u>			
<u>12:17</u>	<u>4</u>	<u>7.33</u>	<u>7.17</u>	<u>71.6</u>			
<u>12:19</u>	<u>6</u>	<u>7.36</u>	<u>7.21</u>	<u>71.8</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</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 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID MW-5 Well Condition: O.K.  
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed 1/10 of amount in skimmer  
 Total Depth 20.14 ft. (product/water): \_\_\_\_\_ (gal.)  
 Depth to Water 8.77 ft.

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

11.37 x VF 0.17 = 1.93 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: 1:20 Weather Conditions: Wet  
 Sampling Time: 1:50 P.M. (1350) Water Color: clear Odor: yes/streng  
 Purging Flow Rate: 0.2 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)
<u>1:31</u>	<u>2</u>	<u>6.75</u>	<u>0.62</u>	<u>65.8</u>			
<u>1:36</u>	<u>4</u>	<u>6.85</u>	<u>0.66</u>	<u>65.4</u>			
<u>1:41</u>	<u>6</u>	<u>6.94</u>	<u>0.67</u>	<u>65.9</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3Y04</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: Negligible amount of product found in skimmer. No product found in well this time.



**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

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

Job#: 180063  
Date: 11-23-01  
Sampler: Joe

Well ID MW-6  
Well Diameter 2 in.  
Total Depth 19.75 ft.  
Depth to Water 7.19 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: Wet  
Water Color: clear Odor:           
Sediment Description:           
If yes; Time:          Volume:          (gal.)

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

**LABORATORY INFORMATION**

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

COMMENTS: M. only

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility # 0746 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Jac

Well ID: MW-7 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 18.46 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 \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

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

Starting Time: \_\_\_\_\_ Weather Conditions: Wet  
 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 ( $\mu\text{mhos/cm} \times K$ )	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: only

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility # 0746 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID MW-8 Well Condition: O.K.  
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth 21.32 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water 9.92 ft. Factor (VF) 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 Pressure Bailer Grab Sample Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_ Weather Conditions: Wet  
 Sampling Time: 11:15 A.M. (1115) 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 $\mu$ mhos/cm. X	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

**LABORATORY INFORMATION**

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

COMMENTS: No Purge Sample. Barely enough room to sample from well. Owner refuses to move parked over junk car.

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Facility # 0746 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID MW-09 Well Condition: OK  
 Well Diameter 2 in. Hydrocarbon Thickness: ✓ in. Amount Bailed (product/water): ✓ (gal.)  
 Total Depth 21.85 ft  
 Depth to Water 9.10 ft

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

12.75 X VF 0.17 = 2.17 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: 11:30 Weather Conditions: Wet  
 Sampling Time: 11:56 AM (1156) Water Color: clear Odor: none  
 Purging Flow Rate: 0.5 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)
<u>11:47</u>	<u>2</u>	<u>7.37</u>	<u>6.77</u>	<u>66.1</u>			
<u>11:46</u>	<u>4</u>	<u>7.31</u>	<u>7.15</u>	<u>65.9</u>			
<u>11:57</u>	<u>6.5</u>	<u>7.24</u>	<u>7.22</u>	<u>65.8</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-09</u>	<u>3Yok</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: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID MW-10 Well Condition: OK  
 Well Diameter 2 in. Hydrocarbon Amount Bailed  
 Thickness: 0 in. (product/water): 0 (gal.)  
 Total Depth 21.55 ft  
 Depth to Water 10.14 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: Wet  
 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 <sup>10</sup> µmhos/cm K	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3Y0A	Y	HCL	Seq.	TPHG, BTEY, MTBE

COMMENTS: None

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility # 0746 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID: MW-11 Well Condition: o.k.  
 Well Diameter: 2 in. Hydrocarbon Thickness: 1/8 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth: 19.17 ft. 

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

  
 Depth to Water: 11.08 ft.

8.09 x VF 0.17 = 1.38 x 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailor  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailor  
 Pressure Bailor  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 9:28 Weather Conditions: Wet  
 Sampling Time: 10:00 A.M. (1000) Water Color: clear Odor: none  
 Purging Flow Rate: 0.5 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)
9:25	1.5	7.96	10.61	66.1			
9:38	3	7.51	10.54	65.5			
9:41	4.5	7.48	10.49	65.4			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	3 Vol	Y	HCL	Seq.	TPHC, BTEX, MTBE

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility # 0746 Job#: 180063  
 Address: 3943 Broadway Date: 11-23-01  
 City: Oakland, CA. Sampler: Joe

Well ID MW-12 Well Condition: O.K.  
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
 Total Depth 17.53 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water 11.14 ft. 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: Wet  
 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 $\mu\text{mhos/cm} \times$	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: 11-23-01  
 Sampler: Joe

Well ID: ~~MW-1~~ RW-1  
 Well Diameter: 6 in.  
 Total Depth: 17.38 ft.  
 Depth to Water: 8.57 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	

Purge Equipment: Disposable Bailer      Sampling Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

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

Starting Time: \_\_\_\_\_ Weather Conditions: Wet  
 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 @ 25°C)	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. No product found in well





TOSCO

Tosco Marketing Company  
3000 Dan Canyon Pl., Ste. 400  
San Ramon, California 94583

Facility Number Tosco #0746  
 Facility Address 3943 Broadway, Oakland, CA  
 Consultant Project Number 180063  
 Consultant Name Gettler-Ryan Inc. (G-R Inc.)  
 Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568  
 Project Contact (Name) Deanna L. Harding  
 (Phone) (925) 551-7555 (Fax Number) 925-551-7899

Contact (Name) MR. Dave DeWitt  
 (Phone) 925-277-2384  
 Laboratory Name Sequoia Analytical  
 Laboratory Release Number \_\_\_\_\_  
 Sample Collected by (Name) JOE AJEMIAN  
 Collection Date 11-23-01  
 Signature \_\_\_\_\_

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Chloroform	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Load (Yes or No)	Analytes To Be Performed										DO NOT BILL TB-LB ANALYSIS	Remarks
								TPH (M = METHYLENE NOB) (8015)	TPH Diesel (8015)	Oil and Grease (8020)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8040)	Extractable Organics (8070)	Metals Cd, Cr, Pb, Zn, Ni (8080 or AA)				
L11152 TB-LB	01	1	W	G	-	HCC	Y	✓										Run (8) oxy's	
MW-1	02	1	W	G	1050			✓										by 8260 on all	
MW-3	03	1	W	G	1310			✓										8020 MTBE HHTS	
MW-4	04	1	W	G	1230			✓											
MW-5	05	1	W	G	1350			✓											
MW-8	06	1	W	G	1115			✓											
MW-9	07	1	W	G	1156			✓											
MW-11	08	1	W	G	1000			✓											

Relinquished By (Signature) <i>[Signature]</i>	Organization G-R Inc.	Date/Time 11-26-01	Received By (Signature) <i>[Signature]</i>	Organization	Date/Time 11-26-01	Turn Around Time (Circle Choice)  24 Hrs. 48 Hrs. 6 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time	



**Sequoia  
Analytical**

1551 Industrial Road  
San Carlos, CA 94070  
(650) 232-9600  
FAX (650) 232-9612  
www.sequoialabs.com

14 December, 2001

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

RECEIVED  
DECEMBER 14 2001  
GETTLER & RYAN INC.  
DUBLIN, CALIFORNIA

RE: Tosco(1)  
Sequoia Report: L111152

Enclosed are the results of analyses for samples received by the laboratory on 11/27/01 19:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt  
Project Manager

CA ELAP Certificate #2360



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

Project: Tosco(1)  
Project Number: Tosco #0746, Oakland, CA  
Project Manager: Deanna Harding

**Reported:**  
12/14/01 07:41

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L111152-01	Water	11/23/01 00:00	11/27/01 19:05
MW-1	L111152-02	Water	11/23/01 10:50	11/27/01 19:05
MW-3	L111152-03	Water	11/23/01 13:10	11/27/01 19:05
MW-4	L111152-04	Water	11/23/01 12:30	11/27/01 19:05
MW-5	L111152-05	Water	11/23/01 13:50	11/27/01 19:05
MW-8	L111152-06	Water	11/23/01 11:15	11/27/01 19:05
MW-9	L111152-07	Water	11/23/01 11:56	11/27/01 19:05
MW-11	L111152-08	Water	11/23/01 10:00	11/27/01 19:05

Sequoia Analytical - San Carlos

Latonya Pelt, Project Manager

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



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

Project: Tosco(1)  
Project Number: Tosco #0746, Oakland, CA  
Project Manager: Deanna Harding

Reported:  
12/14/01 07:41

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B**  
**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TB-LB (L111152-01) Water</b> Sampled: 11/23/01 00:00 Received: 11/27/01 19:05									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120017	12/05/01	12/05/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.7 %	70-130		"	"	"	"	
<b>MW-1 (L111152-02) Water</b> Sampled: 11/23/01 10:50 Received: 11/27/01 19:05									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120017	12/05/01	12/05/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	350	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.1 %	70-130		"	"	"	"	
<b>MW-3 (L111152-03) Water</b> Sampled: 11/23/01 13:10 Received: 11/27/01 19:05									
Purgeable Hydrocarbons as Gasoline	3500	500	ug/l	10	1120016	12/05/01	12/05/01	EPA 8021B	P-01
Benzene	41	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	120	5.0	"	"	"	"	"	"	
Xylenes (total)	8.0	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	320	50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.7 %	70-130		"	"	"	"	

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

 Project: Tosco(1)  
 Project Number: Tosco #0746, Oakland, CA  
 Project Manager: Deanna Harding

**Reported:**  
 12/14/01 07:41

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B**
**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (L111152-04) Water</b> Sampled: 11/23/01 12:30 Received: 11/27/01 19:05									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120016	12/05/01	12/05/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.9 %		70-130	"	"	"	"	
<b>MW-5 (L111152-05) Water</b> Sampled: 11/23/01 13:50 Received: 11/27/01 19:05									
Purgeable Hydrocarbons as Gasoline	29000	5000	ug/l	100	1120017	12/05/01	12/06/01	EPA 8021B	P-01
Benzene	3900	50	"	"	"	"	"	"	
Toluene	450	50	"	"	"	"	"	"	
Ethylbenzene	1400	50	"	"	"	"	"	"	
Xylenes (total)	3500	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %		70-130	"	"	"	"	
<b>MW-8 (L111152-06) Water</b> Sampled: 11/23/01 11:15 Received: 11/27/01 19:05									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120017	12/05/01	12/05/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.2 %		70-130	"	"	"	"	



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

Project: Tosco(1)  
Project Number: Tosco #0746, Oakland, CA  
Project Manager: Deanna Harding

**Reported:**  
12/14/01 07:41

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B**  
**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-9 (L111152-07) Water</b> Sampled: 11/23/01 11:56 Received: 11/27/01 19:05									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120017	12/05/01	12/05/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.2 %	70-130		"	"	"	"	
<b>MW-11 (L111152-08) Water</b> Sampled: 11/23/01 10:00 Received: 11/27/01 19:05									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120017	12/05/01	12/05/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93.7 %	70-130		"	"	"	"	

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

Project: Tosco(1)  
Project Number: Tosco #0746, Oakland, CA  
Project Manager: Deanna Harding

Reported:  
12/14/01 07:41

**Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B**

**Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (L111152-02) Water</b>									<b>HT-04</b>
Sampled: 11/23/01 10:50 Received: 11/27/01 19:05									
Ethanol	ND	1400	ug/l	2.86	1120041	12/12/01	12/12/01	EPA 8260B	
1,2-Dibromoethane	ND	2.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.9	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.9	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.9	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>350</b>	2.9	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.9	"	"	"	"	"	"	
Tert-butyl alcohol	ND	57	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.4 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	"	"	"	"	
<b>MW-3 (L111152-03) Water</b>									
Sampled: 11/23/01 13:10 Received: 11/27/01 19:05									
Ethanol	ND	1200	ug/l	2.5	1120032	12/07/01	12/07/01	EPA 8260B	
1,2-Dibromoethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>390</b>	2.5	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.5	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>79</b>	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	"	"	"	"	

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

 Project: Tosco(1)  
 Project Number: Tosco #0746, Oakland, CA  
 Project Manager: Deanna Harding

 Reported:  
 12/14/01 07:41

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - 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 1120016 - EPA 5030B (P/T)**
**Blank (1120016-BLK1)**

Prepared &amp; Analyzed: 12/05/01

Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	5.0	"							

<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.72		"	10.0		97.2	70-130			
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**LCS (1120016-BS1)**

Prepared &amp; Analyzed: 12/05/01

Benzene	10.3	0.50	ug/l	10.0		103	70-130			
Toluene	9.45	0.50	"	10.0		94.5	70-130			
Ethylbenzene	9.27	0.50	"	10.0		92.7	70-130			
Xylenes (total)	27.5	0.50	"	30.0		91.7	70-130			

<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	70-130			
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**LCS (1120016-BS2)**

Prepared &amp; Analyzed: 12/05/01

Purgeable Hydrocarbons as Gasoline	225	50	ug/l	250		90.0	70-130			
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<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.44		"	10.0		94.4	70-130			
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**Matrix Spike (1120016-MS1)**

Source: L111152-04

Prepared &amp; Analyzed: 12/05/01

Benzene	10.5	0.50	ug/l	10.0	ND	105	60-140			
Toluene	9.51	0.50	"	10.0	ND	95.1	60-140			
Ethylbenzene	9.39	0.50	"	10.0	ND	93.9	60-140			
Xylenes (total)	27.5	0.50	"	30.0	ND	91.7	60-140			

<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			
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**Matrix Spike Dup (1120016-MSD1)**

Source: L111152-04

Prepared &amp; Analyzed: 12/05/01

Benzene	10.4	0.50	ug/l	10.0	ND	104	60-140	0.957	25	
Toluene	9.41	0.50	"	10.0	ND	94.1	60-140	1.06	25	
Ethylbenzene	9.27	0.50	"	10.0	ND	92.7	60-140	1.29	25	
Xylenes (total)	27.2	0.50	"	30.0	ND	90.7	60-140	1.10	25	

<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.89		"	10.0		98.9	70-130			
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Gettler-Ryan/Geostrategies(1)  
 6747 Sierra Court, Suite J  
 Dublin CA, 94568

 Project: Tosco(1)  
 Project Number: Tosco #0746, Oakland, CA  
 Project Manager: Deanna Harding

 Reported:  
 12/14/01 07:41

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - 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 1120017 - EPA 5030B (P/T)**
**Blank (1120017-BLK1)**

Prepared &amp; Analyzed: 12/05/01

Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	5.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.44		"	10.0		84.4	70-130			

**LCS (1120017-BS1)**

Prepared &amp; Analyzed: 12/05/01

Benzene	10.9	0.50	ug/l	10.0		109	70-130			
Toluene	10.9	0.50	"	10.0		109	70-130			
Ethylbenzene	11.0	0.50	"	10.0		110	70-130			
Xylenes (total)	34.0	0.50	"	30.0		113	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.28		"	10.0		92.8	70-130			

**LCS (1120017-BS2)**

Prepared &amp; Analyzed: 12/05/01

Purgeable Hydrocarbons as Gasoline	227	50	ug/l	250		90.8	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.97		"	10.0		99.7	70-130			

**Matrix Spike (1120017-MS1)**

Source: L111151-10

Prepared: 12/05/01 Analyzed: 12/06/01

Benzene	10.6	0.50	ug/l	10.0	ND	106	60-140			
Toluene	10.3	0.50	"	10.0	ND	103	60-140			
Ethylbenzene	10.4	0.50	"	10.0	ND	104	60-140			
Xylenes (total)	32.1	0.50	"	30.0	ND	107	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.38		"	10.0		93.8	70-130			

**Matrix Spike Dup (1120017-MSD1)**

Source: L111151-10

Prepared: 12/05/01 Analyzed: 12/06/01

Benzene	10.4	0.50	ug/l	10.0	ND	104	60-140	1.90	25	
Toluene	10.2	0.50	"	10.0	ND	102	60-140	0.976	25	
Ethylbenzene	10.1	0.50	"	10.0	ND	101	60-140	2.93	25	
Xylenes (total)	31.3	0.50	"	30.0	ND	104	60-140	2.52	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.30		"	10.0		93.0	70-130			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Tosco #0746, Oakland, CA Project Manager: Deanna Harding	<b>Reported:</b> 12/14/01 07:41
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**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 1120032 - EPA 5030B [P/T]**

<b>Blank (1120032-BLK1)</b>										
										Prepared & Analyzed: 12/07/01
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	25.6		"	25.0		102	70-130			
<i>Surrogate: Toluene-d8</i>	24.3		"	25.0		97.2	70-130			

<b>LCS (1120032-BS1)</b>										
										Prepared & Analyzed: 12/07/01
Methyl tert-butyl ether	47.8	1.0	ug/l	50.0		95.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	25.9		"	25.0		104	70-130			
<i>Surrogate: Toluene-d8</i>	24.3		"	25.0		97.2	70-130			

<b>Matrix Spike (1120032-MS1)</b>										
										Source: L112030-22
										Prepared & Analyzed: 12/07/01
Methyl tert-butyl ether	52.3	1.0	ug/l	50.0	ND	105	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	26.2		"	25.0		105	70-130			
<i>Surrogate: Toluene-d8</i>	24.3		"	25.0		97.2	70-130			

<b>Matrix Spike Dup (1120032-MSD1)</b>										
										Source: L112030-22
										Prepared & Analyzed: 12/07/01
Methyl tert-butyl ether	50.2	1.0	ug/l	50.0	ND	100	60-140	4.88	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	26.3		"	25.0		105	70-130			
<i>Surrogate: Toluene-d8</i>	24.7		"	25.0		98.8	70-130			

**Batch 1120041 - EPA 5030B [P/T]**

<b>Blank (1120041-BLK1)</b>										
										Prepared & Analyzed: 12/11/01
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	22.7		"	25.0		90.8	70-130			

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

 Project: Tosco(1)  
 Project Number: Tosco #0746, Oakland, CA  
 Project Manager: Deanna Harding

 Reported:  
 12/14/01 07:41

### 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 1120041 - EPA 5030B [P/T]**
**Blank (1120041-BLK1)**

Prepared &amp; Analyzed: 12/11/01

Surrogate: Toluene-d8	26.0	ug/l	25.0	104	70-130
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**Blank (1120041-BLK2)**

Prepared &amp; Analyzed: 12/12/01

Ethanol	ND	500	ug/l		
1,2-Dibromoethane	ND	1.0	"		
1,2-Dichloroethane	ND	1.0	"		
Di-isopropyl ether	ND	1.0	"		
Ethyl tert-butyl ether	ND	1.0	"		
Methyl tert-butyl ether	ND	1.0	"		
Tert-amyl methyl ether	ND	1.0	"		
Tert-butyl alcohol	ND	20	"		
Surrogate: 1,2-Dichloroethane-d4	23.2		"	25.0	92.8 70-130
Surrogate: Toluene-d8	25.1		"	25.0	100 70-130

**LCS (1120041-BS1)**

Prepared &amp; Analyzed: 12/11/01

Methyl tert-butyl ether	44.0	1.0	ug/l	50.0	88.0 70-130
Surrogate: 1,2-Dichloroethane-d4	21.5		"	25.0	86.0 70-130
Surrogate: Toluene-d8	25.3		"	25.0	101 70-130

**LCS (1120041-BS2)**

Prepared &amp; Analyzed: 12/12/01

Methyl tert-butyl ether	43.1	1.0	ug/l	50.0	86.2 70-130
Surrogate: 1,2-Dichloroethane-d4	21.6		"	25.0	86.4 70-130
Surrogate: Toluene-d8	24.2		"	25.0	96.8 70-130

**Matrix Spike (1120041-MS1)**

Source: L112052-03

Prepared &amp; Analyzed: 12/12/01

Methyl tert-butyl ether	46.8	1.0	ug/l	50.0	4.4 84.8 60-140
Surrogate: 1,2-Dichloroethane-d4	21.0		"	25.0	84.0 70-130
Surrogate: Toluene-d8	26.2		"	25.0	105 70-130



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**Reported:**  
12/14/01 07:41

**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 1120041 - EPA 5030B [P/T]**

**Matrix Spike Dup (1120041-MSD1)**

Source: L112052-03

Prepared & Analyzed: 12/12/01

Methyl tert-butyl ether	48.4	1.0	ug/l	50.0	4.4	88.0	60-140	3.70	25	
Surrogate: 1,2-Dichloroethane-d4	21.5		"	25.0		86.0	70-130			
Surrogate: Toluene-d8	25.1		"	25.0		100	70-130			



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**Reported:**  
12/14/01 07:41

### Notes and Definitions

- HT-04 This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
- 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