



R 203

2000 Crow Canyon Place
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Risk Management &
Remediation

July 8, 2003

Re: **Tosco (Unocal) Service Station #0746**
3943 Broadway
Oakland, California

Alameda County
JUL 11 2003
Environmental Health

“ I declare under penalty of perjury, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached proposal or report is true and correct”

David B. DeWitt
Site Manager
ConocoPhillips



GETTLER-RYAN INC.

TRANSMITTAL

June 23, 2003
G-R #180063

Alameda County
JUL 11 2003
Environmental Health

TO: Mr. David B. De Witt
Phillips 66 Company
76 Broadway Avenue
Sacramento, California 95818

CC: Mr. David Vossler
Gettler-Ryan, Inc.
Petaluma, California

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	June 13, 2003	Groundwater Monitoring and Sampling Report First Semi-Annual-Event of May 15, 2003 and Monthly Site Visits

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **July 7, 2003**, 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



GETTLER-RYAN INC.

June 13, 2003
G-R Job #180063

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

**RE: First Semi-Annual Event of May 15, 2003
And Monthly Site Visits**
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #0746
3943 Broadway
Oakland, California

Dear Mr. De Witt:

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

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one well (MW-5). Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data are presented in Table 3. Dissolved Oxygen Concentrations are summarized in Table 2. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. 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

Robert C. Mallory
Registered Geologist No. 7285

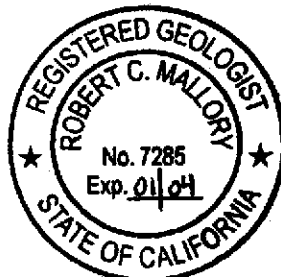
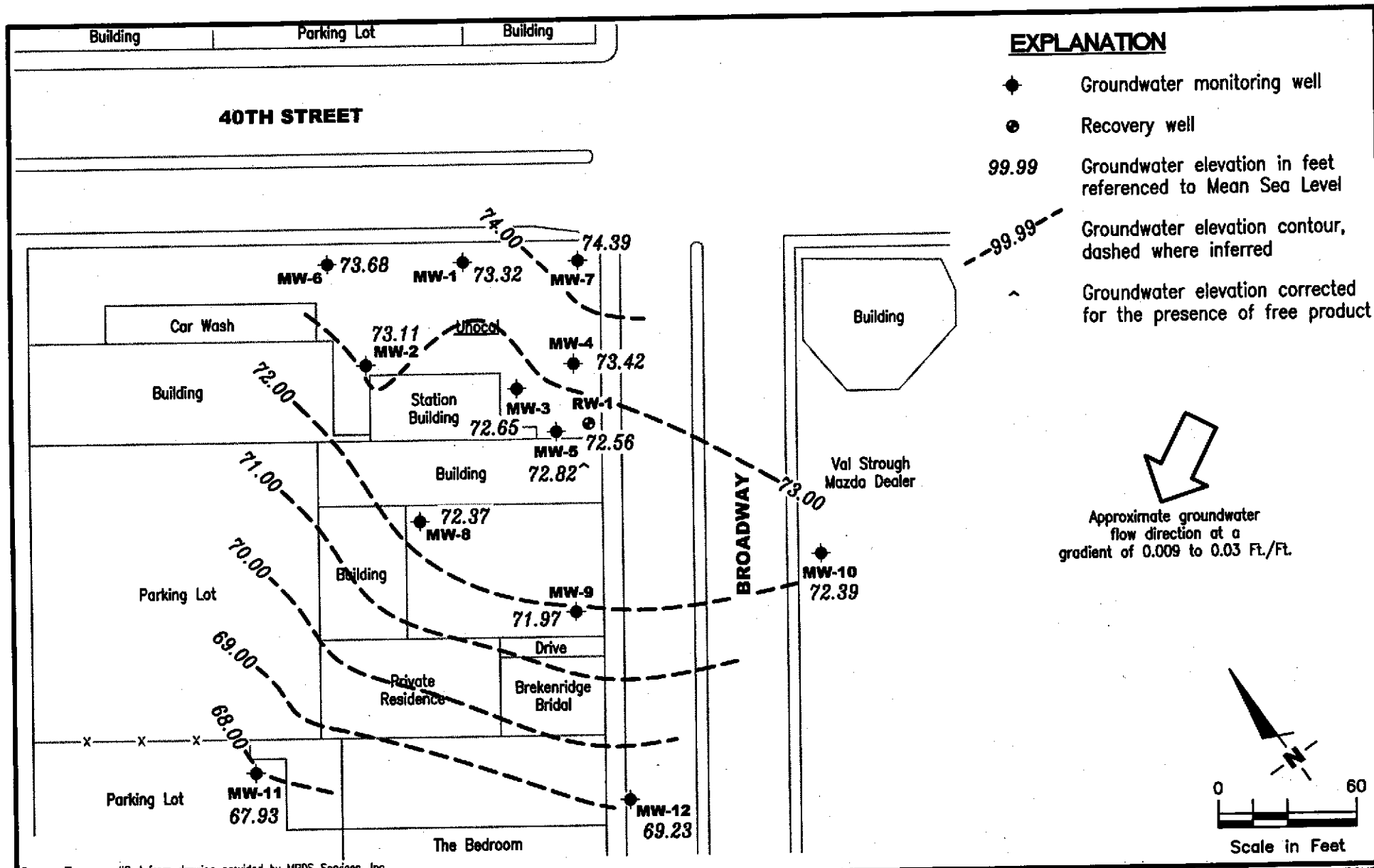


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Dissolved Oxygen Concentrations
Table 3: Product Thickness/Removal Data
Table 4: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure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

0746.qml



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

GETTLER - RYAN INC.
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POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #0746
 3943 Broadway
 Oakland, California

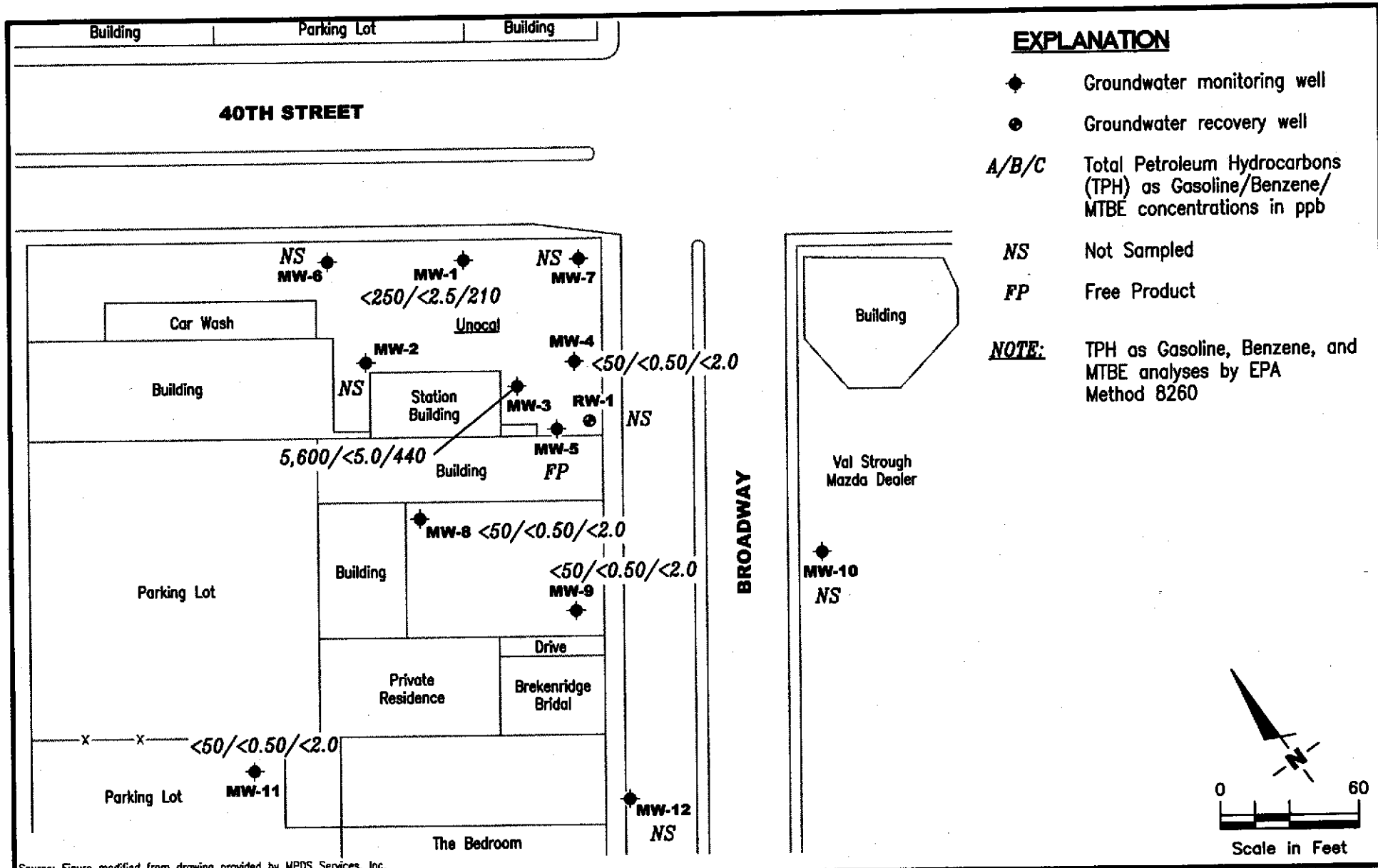
FIGURE
1

JOB NUMBER
180063

REVIEWED BY

DATE
 May 15, 2003

REVISED DATE



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

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

FIGURE

2

JOB NUMBER
 180063

REVIEWED BY

DATE
 May 15, 2003

REVISED DATE

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

WELL ID/ TOC*(ft.)	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	--	--	--	--	--	--	
80.54	05/25/93	7.87	73.20	0.00	260	27	4.9	2.6	54	--	
	06/23/93	7.66	72.88	0.00	--	--	--	--	--	--	
	07/22/93	7.87	72.67	0.00	--	--	--	--	--	--	
	08/25/93	8.00	72.54	0.00	ND	ND	ND	ND	ND	--	
	09/22/93	8.10	72.44	0.00	--	--	--	--	--	--	
	10/28/93	8.15	72.39	0.00	--	--	--	--	--	--	
	11/30/93	7.65	72.89	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--
	02/16/94	7.46	73.08	0.00	ND	0.84	ND	ND	0.59	--	
	05/31/94	7.80	72.74	0.00	--	--	--	--	--	--	
	08/31/94	8.27	72.27	0.00	ND	ND	0.98	ND	0.84	--	
	09/27/94	8.37	72.17	0.00	--	--	--	--	--	--	
	10/11/94	8.36	72.18	0.00	--	--	--	--	--	--	
	11/10/94	6.43	74.11	0.00	--	--	--	--	--	--	
02/07/95	7.06	73.48	0.00	6,100	670	ND	120	60	--		
05/03/95	6.85	73.69	0.00	260	21	39	17	24	--		

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	08/03/95	7.69	72.85	0.00	--	--	--	--	--	--
(cont)	11/07/95	8.15	72.39	0.00	ND	ND	ND	ND	ND	--
	05/06/96	7.40	73.14	0.00	170	1.0	20	2.3	17	55
	11/05/96	7.90	72.64	0.00	ND	ND	ND	ND	ND	5.2
	05/15/97	7.77	72.77	0.00	ND	ND	ND	ND	ND	16
	11/12/97	7.48	73.06	0.00	ND	ND	ND	ND	ND	11
NP	05/04/98	7.39	73.15	0.00	ND	ND	ND	ND	ND	320
NP	11/11/98	7.37	73.17	0.00	ND	ND	ND	ND	ND	200
NP	05/20/99	7.41	73.13	0.00	ND	ND	ND	ND	ND	89/47 ^{7,8,9}
	11/15/99	7.84	72.70	0.00	ND	ND	ND	ND	ND	8.12/7.19 ¹²
	05/22/00	7.53	73.01	0.00	ND	0.89	ND	ND	ND	220/290 ¹²
	11/22/00	7.35	73.19	0.00	ND	ND	ND	ND	ND	105/142 ⁷
	05/15/01	7.48	73.06	0.00	345 ¹¹	ND ⁵	3.41	2.77	25.2	178/374 ¹²
	11/23/01	7.57	72.97	0.00	<50	<0.50	<0.50	<0.50	<0.50	350/350 ¹²
	05/24/02	7.10	73.44	0.00	70 ¹¹	<0.50	<0.50	<0.50	<0.50	200/240 ⁷
	11/29/02 ¹⁸	7.96	72.58	0.00	<250	<2.5	<2.5	<2.5	<5.0	330
	05/15/03 ¹⁸	7.22	73.32	0.00	<250	<2.5	<2.5	<2.5	<5.0	210
MW-2	11/01/89	--	--	--	200	ND	ND	3.0	1.2	--
	02/15/90	--	--	--	ND	ND	ND	ND	ND	--
	08/16/90	--	--	--	ND	ND	6.7	ND	ND	--
	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	ND	0.68	0.42	ND	0.86	--
	05/28/91	--	--	--	ND	ND	ND	ND	ND	--
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--
	11/19/91	--	--	--	ND	ND	ND	ND	ND	--
	02/06/92	--	--	--	ND	0.36	0.66	ND	0.62	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	510 ¹	ND	ND	ND	ND	--
81.62	12/21/92	9.14	72.48	0.00	--	--	--	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DIW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	01/30/93	8.99	72.63	0.00	--	--	--	--	--	--
(cont)	02/24/93	8.03	73.59	0.00	11,000 ¹	ND	ND	ND	ND	--
	03/22/93	9.50	72.12	0.00	--	--	--	--	--	--
	04/28/93	8.87	72.75	0.00	--	--	--	--	--	--
	05/25/93	9.04	72.58	0.00	1,300 ¹	ND	ND	ND	ND	2,700
81.32	06/23/93	9.17	72.15	0.00	--	--	--	--	--	--
	07/22/93	9.42	71.90	0.00	--	--	--	--	--	--
	08/25/93	9.53	71.79	0.00	190 ¹	ND	ND	ND	ND	--
	09/22/93	9.67	71.65	0.00	--	--	--	--	--	--
	10/28/93	9.65	71.67	0.00	--	--	--	--	--	--
	11/30/93	9.18	72.14	0.00	480 ¹	ND	ND	ND	ND	--
	02/16/94	8.91	72.41	0.00	3,200 ¹	ND	ND	ND	ND	--
	05/31/94	9.36	71.96	0.00	1,100 ¹	ND	ND	ND	ND	--
	08/31/94	9.85	71.47	0.00	310 ¹	ND	ND	ND	ND	--
	09/27/94	9.95	71.37	0.00	--	--	--	--	--	--
	10/11/95	9.95	71.37	0.00	--	--	--	--	--	--
	11/10/94	7.47	73.85	0.00	95 ²	ND	ND	ND	ND	--
	02/07/95	8.29	73.03	0.00	1,600 ¹	ND	ND	ND	ND	--
	05/03/95	8.12	73.20	0.00	ND	ND	ND	ND	ND	--
	08/03/95	9.35	71.97	0.00	ND	ND	ND	ND	ND	--
	11/07/95	9.65	71.67	0.00	ND	ND	ND	ND	ND	160 ³
	05/06/96	8.90	72.42	0.00	SAMPLING DISCONTINUED ⁴		--	--	--	--
	11/05/96	10.98	70.34	0.00	--	--	--	--	--	--
	05/15/97	9.13	72.19	0.00	--	--	--	--	--	--
	11/12/97	9.84	71.48	0.00	--	--	--	--	--	--
	05/04/98	9.26	72.06	0.00	--	--	--	--	--	--
	11/11/98	8.88	72.44	0.00	--	--	--	--	--	--
	05/20/99	8.68	72.64	0.00	--	--	--	--	--	--
	11/15/99	8.91	72.41	0.00	--	--	--	--	--	--
	05/22/00	8.61	72.71	0.00	--	--	--	--	--	--
	11/22/00	8.64	72.68	0.00	--	--	--	--	--	--
	05/15/01	8.73	72.59	0.00	--	--	--	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (mst)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-2 (cont)	11/23/01	8.61	72.71	0.00	--	--	--	--	--	--	
	05/24/02	8.03	73.29	0.00	--	--	--	--	--	--	
	11/29/02	8.79	72.53	0.00	--	--	--	--	--	--	
	05/15/03	8.21	73.11	0.00	--	--	--	--	--	--	
MW-3	11/01/89	--	--	--	13,000	57	48	1.7	120	--	
	02/15/90	--	--	--	20,000	1,700	2,100	750	3,100	--	
	08/16/90	--	--	--	6,800	600	660	760	160	--	
	11/07/90	--	--	--	42,000	1,400	5,000	1,800	7,500	--	
	02/25/91	--	--	--	37,000	730	2,900	1,300	7,300	--	
	05/28/91	--	--	--	24,000	570	1,100	810	4,200	--	
	08/28/91	--	--	--	16,000	650	2,200	1,100	5,400	--	
	11/19/91	--	--	--	22,000	250	440	660	3,000	--	
	02/06/92	--	--	--	24,000	600	1,800	1,200	5,800	--	
	05/23/92	--	--	--	25,000	300	130	880	4,900	--	
	08/26/92	--	--	--	20,000	690	1,900	1,300	5,700	--	
11/20/92	--	--	--	1,100,000 ²	1,800	6,400	3,000	15,000	--		
82.01	12/04/92	10.30	71.71**	0.00	--	--	--	--	--	--	
	12/21/92	9.78	72.23	Trace	--	--	--	--	--	--	
	01/09/93	8.55	73.46	0.00	--	--	--	--	--	--	
	01/30/93	8.90	73.11	0.00	--	--	--	--	--	--	
	02/10/93	9.01	73.01**	0.01	--	--	--	--	--	--	
	02/24/93	8.26	73.76**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	03/09/93	9.18	72.85**	0.02	--	--	--	--	--	--	
	03/22/93	8.81	73.22**	0.02	--	--	--	--	--	--	
	04/08/93	9.14	72.89**	0.02	--	--	--	--	--	--	
	04/28/93	9.44	72.59**	0.03	--	--	--	--	--	--	
	05/12/93	9.57	72.46**	0.03	--	--	--	--	--	--	
	05/25/93	9.45	72.58**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	81.41	06/07/93	8.94	72.47	<0.01	--	--	--	--	--	--
06/23/93		9.20	72.23**	0.02	--	--	--	--	--	--	

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

WELL ID/ TOC*(ft.)	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 ³
	05/06/96	9.44	71.97	Sheen	5,100	48	ND	87	210	370
	11/05/96	10.64	70.77	0.00	35,000	2,200	ND	1,200	2,800	460
	05/15/97	9.61	71.80	0.00	2,400	110	ND	ND	140	100
	11/12/97	9.18	72.23	0.00	29,000	2,000	ND	1,800	3,000	ND
NP	05/04/98	9.50	71.91	0.00	8,200	430	ND ⁵	310	320	ND ⁵
NP	11/11/98	9.25	72.16	0.00	8,700	500	ND ⁵	330	310	ND ⁵
NP	05/20/99	8.95	72.46	0.00	4,300	250	ND ⁵	ND ⁵	86	ND ⁵
	11/15/99	10.35	71.06	0.00	6,720 ¹¹	326	ND ⁵	398	226	120/45.1 ¹²
	05/22/00	9.14	72.27	0.00	4,000 ¹¹	99	4.5	190	75	100/94 ¹²
	11/22/00	9.33	72.08	0.00	6,130 ¹⁵	93.7	6.71	174	47.8	212/131 ⁷
	05/15/01	9.25	72.16	0.00	4,490 ¹¹	229	7.09	160	31.6	97.1/75.5 ¹²

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)	11/23/01	9.12	72.29	0.00	3,500 ¹¹	41	<5.0	120	8.0	320/390 ⁷
	05/24/02	8.58	72.83	0.00	4,000 ¹¹	86	6.0	120	5.8	120/73 ⁷
	11/29/02 ¹⁸	9.81	71.60	0.00	5,300	<25	<25	65	<50	340
	05/15/03 ¹⁸	8.76	72.65	0.00	5,600	<5.0	<5.0	81	<10	440
MW-4	02/15/90	--	--	--	150	8.0	8.0	10	45	--
	08/16/90	--	--	--	3,600	480	17	230	260	--
	11/07/90	--	--	--	180	1.5	0.37	6.3	26	--
	02/25/91	--	--	--	22,000	600	1,300	780	2,800	--
	05/28/91	--	--	--	38	ND	ND	ND	1.9	--
	08/28/91	--	--	--	2,000	1,500	20	120	300	--
	11/19/91	--	--	--	55	9.2	4.5	1.4	6.7	--
	02/06/92	--	--	--	5,700	2,200	140	57	980	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	120	86	0.52	0.57	1.6	--
	11/20/92	--	--	--	ND	6.2	ND	1.2	0.52	--
81.48	12/21/93	9.10	72.38	0.00	--	--	--	--	--	--
	01/30/93	8.35	73.13	0.00	--	--	--	--	--	--
	02/24/93	8.17	73.31	0.00	140	12	0.64	9.4	3.7	--
	03/22/93	8.12	73.36	0.00	--	--	--	--	--	--
	04/28/93	9.36	72.12	0.00	--	--	--	--	--	--
81.29	05/25/93	8.75	72.73	0.00	74	10	ND	4.6	1.8	--
	06/23/93	8.90	72.39	0.00	--	--	--	--	--	--
	07/22/93	9.26	72.03	0.00	--	--	--	--	--	--
	08/25/93	9.45	71.84	0.00	640	100	1.1	100	22	--
	09/22/93	9.63	71.66	0.00	--	--	--	--	--	--
	10/28/93	9.62	71.67	0.00	--	--	--	--	--	--
	11/30/93	9.40	71.89	0.00	200	28	ND	17	8.1	--
	02/16/94	9.21	72.08	0.00	190	11	0.98	21	6.6	--
	05/31/94	9.11	72.18	0.00	1,100	190	ND	100	58	--
	08/31/94	10.01	71.28	0.00	400	17	0.94	14	5.2	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4 (cont)	09/27/94	10.09	71.20	0.00	--	--	--	--	--	--
	10/11/94	11.50	69.79	0.00	--	--	--	--	--	--
	11/10/94	9.21	72.08	0.00	7,700	1,800	280	460	1,300	--
	02/07/95	7.66	73.63	0.00	540	47	ND	17	2.5	--
	05/03/95	8.29	73.00	0.00	160	8.3	0.52	1.5	3.7	--
	08/03/95	8.60	72.69	0.00	57	2.0	ND	ND	ND	--
	11/07/95	10.28	71.01	0.00	ND	0.71	ND	ND	ND	0.86
	05/06/96	8.70	72.59	0.00	1,200	12	11	15	36	ND
	11/05/96	10.00	71.29	0.00	700	32	0.71	1.8	1.3	6.5
	05/15/97	9.37	71.92	0.00	51	ND	ND	ND	ND	ND
	11/12/97	8.92	72.37	0.00	74	1.7	ND	ND	ND	ND
	NP 05/04/98	9.48	71.81	0.00	ND	ND	ND	ND	ND	ND
	NP 11/11/98	9.13	72.16	0.00	ND	0.63	ND	ND	ND	ND
	NP 05/20/99	8.41	72.88	0.00	ND	ND	ND	ND	ND	ND
	11/15/99	9.68	71.61	0.00	ND	ND	ND	ND	ND	ND
	05/22/00	8.60	72.69	0.00	ND	ND	ND	ND	ND	ND
	11/22/00	8.91	72.38	0.00	ND	ND	ND	ND	ND	ND
	05/15/01	8.66	72.63	0.00	ND	ND	1.10	ND	1.16	ND
	11/23/01	8.84	72.45	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	05/24/02	7.93	73.36	0.00	<50	<0.50	<0.50	<0.50	<0.50	9.6/3.5 ⁷
11/29/02 ¹⁸	9.34	71.95	0.00	<50	<0.50	<0.50	<0.50	<1.0	2.6	
05/15/03 ¹⁸	7.87	73.42	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0	
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			--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	05/23/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
(cont)	08/26/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	11/20/92	--	--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
81.59	12/04/92	10.03	71.62**	0.08	--	--	--	--	--	--
	12/21/92	9.50	72.10**	0.01	--	--	--	--	--	--
	01/09/93	8.22	73.37	0.00	--	--	--	--	--	--
	01/30/93	8.58	73.01	Trace	--	--	--	--	--	--
	02/10/93	8.68	72.91	Trace	--	--	--	--	--	--
	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* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-5 (cont)	11/10/94	7.54	73.90**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	02/07/95	8.10	73.28	0.00	25,000	1,400	740	990	3,000	--	
	03/14/95	7.04	74.34	0.00	--	--	--	--	--	--	
	05/03/95	7.98	73.40	0.00	12,000	680	160	600	1,800	--	
	08/03/95	9.25	72.13	0.00	23,000	940	280	810	2,700	--	
	11/07/95	10.00	71.38	0.00	40,000	510	280	1,000	5,700	630 ³	
	05/06/96	9.03	72.35	Sheen	13,000	200	ND	180	610	170	
	11/05/96	10.41	70.97	0.00	35,000	1,800	ND	1,300	4,900	580	
	05/15/97	9.41	71.97	Sheen	10,000	490	ND	ND	1,300	ND	
	11/12/97	9.27	72.11	0.00	100	5.1	ND	ND	ND	74	
NP	05/04/98	9.18	72.20	0.00	39,000	1,600	230	1,000	3,200	ND ⁵	
	11/11/98	9.23	72.43**	0.37	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	02/22/99	7.69	73.88**	0.25	--	--	--	--	--	--	
	04/02/99 ⁶	8.19	73.40**	0.28	--	--	--	--	--	--	
	05/04/99	8.44	72.95**	0.01	--	--	--	--	--	--	
	05/20/99	8.73	72.68**	0.04	--	--	--	--	--	--	
	06/29/99	8.91	72.51**	0.05	--	--	--	--	--	--	
	07/29/99	9.12	72.31**	0.07	--	--	--	--	--	--	
	08/24/99	9.37	72.08**	0.09	--	--	--	--	--	--	
	09/27/99	9.51	71.92**	0.06	--	--	--	--	--	--	
	10/28/99	--	--	0.05	--	--	--	--	--	--	
	11/15/99	9.29	72.09	Sheen	--	--	--	--	--	--	
	12/20/99 ¹³	9.14	72.24	0.00	--	--	--	--	--	--	
	01/20/00 ¹³	9.08	72.30	0.00	--	--	--	--	--	--	
	02/26/00 ¹³	8.69	72.69	0.00	--	--	--	--	--	--	
	03/31/00 ¹³	8.48	72.90	0.00	--	--	--	--	--	--	
	04/13/00	8.66	72.72	0.00	--	--	--	--	--	--	
05/22/00 ¹⁴	9.06	72.32	0.00	240,000 ¹¹	33,000	5,000	18,000	59,000	640/21 ¹²		
11/22/00 ¹⁶	9.24	72.64**	0.67	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	
02/14/01 ¹⁷	7.63	74.00**	0.33	--	--	--	--	--	--		
03/28/01 ¹⁷	8.82	72.56	0.00	--	--	--	--	--	--		
04/28/01 ¹⁷	8.66	72.72	0.00	--	--	--	--	--	--		

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

WELL ID/ TOC*(ft)	DATE	DTW (ft)	GWE (msl)	Product	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
				Thickness (ft)							
MW-5 (cont)	05/15/01 ¹⁷	8.97	72.41	0.00	--	--	--	--	--	--	
	06/29/01 ¹⁷	8.73	72.65	0.00	--	--	--	--	--	--	
	07/17/01 ¹⁷	8.92	72.48**	0.02	--	--	--	--	--	--	
	08/30/01 ¹⁷	8.85	72.53	0.00	--	--	--	--	--	--	
	09/24/01 ¹⁷	8.89	72.49	0.00	--	--	--	--	--	--	
	10/15/01 ¹⁷	9.11	72.29**	0.03	--	--	--	--	--	--	
	11/23/01 ¹⁷	8.77	72.61	0.00	29,000 ¹¹	3,900	450	1,400	3,500	<500	
	12/10/01 ¹⁷	8.75	72.63	0.00	--	--	--	--	--	--	
	01/14/02 ¹⁷	8.26	73.12	0.00	--	--	--	--	--	--	
	02/22/02 ¹⁷	6.30	75.08	0.00	--	--	--	--	--	--	
	03/11/02 ¹⁷	6.47	74.91	0.00	--	--	--	--	--	--	
	04/15/02 ¹⁷	6.56	74.82	0.00	--	--	--	--	--	--	
	05/24/02 ¹⁷	8.32	73.17**	0.15	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	06/17/02 ¹⁷	8.41	73.12**	0.20	--	--	--	--	--	--	
	07/15/02 ¹⁷	8.63	72.90**	0.20	--	--	--	--	--	--	
	08/19/02 ¹⁷	8.76	72.85**	0.31	--	--	--	--	--	--	
	09/05/02 ¹⁷	8.73	72.77**	0.16	--	--	--	--	--	--	
	10/07/02 ¹⁷	8.79	72.66**	0.09	--	--	--	--	--	--	
	11/29/02 ¹⁷	9.18	72.24**	0.05	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/12/02 ¹⁷	9.12	72.29**	0.04	--	--	--	--	--	--	
	01/06/03 ¹⁷	9.05	72.35**	0.03	--	--	--	--	--	--	
	02/12/03 ¹⁷	8.87	72.54**	0.04	--	--	--	--	--	--	
	03/13/03 ¹⁷	8.25	73.15**	0.03	--	--	--	--	--	--	
04/07/03 ¹⁷	8.31	73.09**	0.02	--	--	--	--	--	--		
05/15/03 ¹⁷	8.58	72.82**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	
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	--	

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
(cont)	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		--	--	--	--
	02/16/94	7.13	72.81	0.00	ND	ND	ND	ND	ND	--
	05/31/94	7.49	72.45	0.00	--	--	--	--	--	--
	08/31/94	7.93	72.01	0.00	ND	ND	1.5	ND	1.6	--
	09/27/94	8.03	71.91	0.00	--	--	--	--	--	--
	10/11/94	8.05	71.89	0.00	--	--	--	--	--	--
	11/10/94	6.12	73.82	0.00	--	--	--	--	--	--
	02/07/95	6.65	73.29	0.00	ND	ND	ND	ND	ND	--
	05/03/95	6.47	73.47	0.00	ND	ND	ND	ND	1.0	--
	08/03/95	7.28	72.66	0.00	--	--	--	--	--	--
	11/07/95	7.98	71.96	0.00	ND	ND	ND	ND	ND	--
	05/06/96	7.80	72.14	0.00	SAMPLING DISCONTINUED ⁴		--	--	--	--
	11/05/96	7.63	72.31	0.00	--	--	--	--	--	--
	05/15/97	7.41	72.53	0.00	--	--	--	--	--	--
	11/12/97	7.51	72.43	0.00	--	--	--	--	--	--
	05/04/98	7.15	72.79	0.00	--	--	--	--	--	--
	11/11/98	7.04	72.90	0.00	--	--	--	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6 (cont)	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	--	--	--	--	--	--
	11/23/01	7.19	72.75	0.00	--	--	--	--	--	--
	05/24/02	6.54	73.40	0.00	--	--	--	--	--	--
	11/29/02	7.26	72.68	0.00	--	--	--	--	--	--
05/15/03	6.26	73.68	0.00	--	--	--	--	--	--	
MW-7	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	70	ND	ND	ND	0.52	--
	05/28/91	--	--	--	39	ND	ND	ND	0.73	--
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--
	11/19/91	--	--	--	32	ND	ND	ND	ND	--
	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	0.73	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
81.83	12/21/92	8.42	73.41	0.00	--	--	--	--	--	--
	01/30/93	8.21	73.62	0.00	--	--	--	--	--	--
	02/24/93	7.85	73.98	0.00	ND	ND	ND	ND	ND	--
	03/22/93	6.97	74.86	0.00	--	--	--	--	--	--
	04/28/93	8.39	73.44	0.00	--	--	--	--	--	--
81.64	05/25/93	8.43	73.40	0.00	ND	ND	ND	ND	ND	--
	06/23/93	8.47	73.17	0.00	--	--	--	--	--	--
	07/22/93	8.83	72.81	0.00	--	--	--	--	--	--
	08/25/93	8.81	72.83	0.00	ND	ND	ND	ND	ND	--
	09/22/93	8.96	72.68	0.00	--	--	--	--	--	--
	10/28/93	8.98	72.66	0.00	--	--	--	--	--	--
	11/30/93	8.65	72.99	0.00	--	--	--	--	--	--
					SAMPLED SEMI-ANNUALLY					

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	02/16/94	8.36	73.28	0.00	ND	ND	ND	ND	0.7	--
(cont)	05/31/94	8.67	72.97	0.00	--	--	--	--	--	--
	08/31/94	9.12	72.52	0.00	ND	ND	0.8	ND	0.75	--
	09/27/94	9.22	72.42	0.00	--	--	--	--	--	--
	10/11/94	9.23	72.41	0.00	--	--	--	--	--	--
	11/10/94	7.66	73.98	0.00	--	--	--	--	--	--
	02/07/95	7.88	73.76	0.00	ND	ND	ND	ND	ND	--
	05/03/95	7.71	73.93	0.00	ND	ND	ND	ND	1.0	--
	08/03/95	8.40	73.24	0.00	--	--	--	--	--	--
	11/07/95	8.95	72.69	0.00	ND	ND	ND	ND	ND	--
	05/06/96	8.15	73.49	0.00	--	--	--	--	--	--
	11/05/96	8.67	72.97	0.00	--	--	--	--	--	--
	05/15/97	8.47	73.17	0.00	--	--	--	--	--	--
	11/12/97	7.88	73.76	0.00	--	--	--	--	--	--
	05/04/98	7.93	73.71	0.00	--	--	--	--	--	--
	11/11/98	8.20	73.44	0.00	--	--	--	--	--	--
	05/20/99	8.04	73.60	0.00	--	--	--	--	--	--
	11/15/99	8.17	73.47	0.00	--	--	--	--	--	--
NP	05/22/00	8.10	73.54	0.00	--	--	--	--	--	--
	11/22/00	8.30	73.34	0.00	--	--	--	--	--	--
	05/15/01	8.09	73.55	0.00	--	--	--	--	--	--
	11/23/01	8.14	73.50	0.00	--	--	--	--	--	--
	05/24/02	7.56	74.08	0.00	--	--	--	--	--	--
	11/29/02	8.23	73.41	0.00	--	--	--	--	--	--
	05/15/03	7.25	74.39	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	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	02/06/92	--	--	--	2,600	4.1	7.0	31	93	--
(cont)	05/23/92	--	--	--	2,100	8.6	1.6	1.7	28	--
	08/26/92	--	--	--	1,800	12	8.0	4.0	13	--
81.71	11/20/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	12/21/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	01/09/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	01/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/10/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/24/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	03/09/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	03/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/08/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/28/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	05/12/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	05/25/93	10.12	71.59	0.00	1,200	5.4	ND	9.0	21	--
81.41	06/07/93	9.98	71.43	0.00	--	--	--	--	--	--
	06/23/93	10.36	71.05	0.00	--	--	--	--	--	--
	07/08/93	10.52	70.89	0.00	--	--	--	--	--	--
	07/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	08/11/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	08/25/93	10.95	70.46	0.00	1,800	11	17	8.9	29	--
	09/08/93	11.34	70.07	0.00	--	--	--	--	--	--
	09/22/93	11.13	70.28	0.00	--	--	--	--	--	--
	10/07/93	10.96	70.45	0.00	--	--	--	--	--	--
	10/28/93	11.19	70.22	0.00	--	--	--	--	--	--
	11/12/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	11/30/93	10.42	70.99	0.00	3,500	18	ND	ND	ND	--
	02/16/94	9.86	71.55	0.00	990	4.9	1.8	2.4	4.5	--
	05/31/94	10.61	70.80	0.00	350	3.0	1.0	0.73	1.7	--
	08/31/94	11.37	70.04	0.00	1,800 ¹	ND	ND	ND	ND	--
	09/27/94	INACCESSIBLE (PARKED OVER)	--	--	--	--	--	--	--	--
	10/11/94	11.50	69.91	0.00	--	--	--	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-8 (cont)	11/10/94	7.81	73.60	0.00	940	6.7	6.3	ND	16	--	
	02/07/95	8.69	72.72	0.00	230	1.4	0.95	0.9	1.1	--	
	05/03/95	8.60	72.81	0.00	75	ND	ND	ND	1.0	--	
	08/03/95	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--	--
	11/07/95	11.05	70.36	0.00	210	1.3	1.2	ND	ND	-- ³	
	05/06/96	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--	--
	11/05/96	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--	--
	05/15/97	10.46	70.95	0.00	ND	ND	ND	ND	ND	43	
	11/12/97	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--	--
	05/04/98	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--	--
	11/11/98	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--	--
	NP	05/20/99	9.75	71.66	0.00	ND	ND	ND	ND	ND	23/10 ^{7,8,10}
		11/15/99	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	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
	NP	05/24/02	9.26	72.15	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
NP	11/29/02 ¹⁸	9.71	71.70	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0	
NP	05/15/03 ¹⁸	9.04	72.37	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0	
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			--	--	--	--	--	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	01/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
(cont)	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 ³
	05/06/96	9.01	71.52	0.00	860	6.1	13	6.0	25	ND
	11/05/96	11.42	69.11	0.00	84	0.74	ND	1.2	4.5	ND
	05/15/97	9.89	70.64	0.00	ND	ND	ND	ND	ND	ND
	11/12/97	10.22	70.31	0.00	ND	0.55	ND	ND	ND	74
NP	05/04/98	10.05	70.48	0.00	ND	ND	ND	ND	ND	45
NP	11/11/98	9.23	71.30	0.00	ND	ND	ND	ND	ND	ND
NP	05/20/99	8.78	71.75	0.00	ND	ND	ND	ND	ND	ND
	11/15/99	9.12	71.41	0.00	ND	ND	ND	ND	ND	ND
	05/22/00	9.17	71.36	0.00	ND	ND	1.9	ND	3.5	ND
	11/22/00	9.08	71.45	0.00	ND	ND	1.18	ND	1.16	ND
	05/15/01	8.85	71.68	0.00	ND	ND	ND	ND	ND	ND

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9 (cont)	11/23/01	9.10	71.43	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	05/24/02	8.79	71.74	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/29/02 ¹⁸	9.24	71.29	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	05/15/03 ¹⁸	8.56	71.97	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
MW-10	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
81.90	12/21/92	13.41	68.49	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--
81.61	05/25/93	12.02	69.88	0.00	ND	ND	ND	ND	ND	--
	06/23/93	12.11	69.50	0.00	--	--	--	--	--	--
	07/22/93	12.49	69.12	0.00	--	--	--	--	--	--
	08/25/93	12.78	68.83	0.00	ND	ND	ND	ND	ND	--
	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	--
	05/31/94	12.69	68.92	0.00	ND	ND	0.9	ND	0.91	--
	08/31/94	13.47	68.14	0.00	ND	ND	0.64	ND	0.54	--
	09/27/94	13.72	67.89	0.00	--	--	--	--	--	--
	10/11/94	14.80	66.81	0.00	--	--	--	--	--	--
	11/10/94	12.64	68.97	0.00	ND	ND	ND	ND	ND	--
	02/07/95	10.29	71.32	0.00	SAMPLED SEMI-ANNUALLY			--	--	--
05/03/95	10.22	71.39	0.00	ND	ND	ND	ND	0.65	--	
08/03/95	11.73	69.88	0.00	--	--	--	--	--	--	
11/07/95	12.98	68.63	0.00	ND	ND	ND	ND	ND	--	

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	05/06/96	10.90	70.71	0.00	SAMPLING DISCONTINUED ⁴					--
(cont)	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	--	--	--	--	--	--
	11/23/01	10.14	71.47	0.00	--	--	--	--	--	--
	05/24/02	9.48	72.13	0.00	--	--	--	--	--	--
	11/29/02	10.11	71.50	0.00	--	--	--	--	--	--
	05/15/03	9.22	72.39	0.00	--	--	--	--	--	--
MW-11	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
78.43	12/21/92	12.34	66.09	0.00	--	--	--	--	--	--
	01/30/93	14.17	64.26	0.00	--	--	--	--	--	--
	02/24/93	12.70	65.73	0.00	ND	ND	ND	ND	ND	--
	03/22/93	8.95	69.48	0.00	--	--	--	--	--	--
	04/28/93	13.87	64.56	0.00	--	--	--	--	--	--
	05/25/93	15.14	63.29	0.00	ND	ND	0.75	ND	1.0	--
78.18	06/23/93	15.08	63.10	0.00	--	--	--	--	--	--
	07/22/93	15.46	62.72	0.00	--	--	--	--	--	--
	08/25/93	14.10	64.08	0.00	ND	ND	ND	ND	ND	--
	09/22/93	15.03	63.15	0.00	--	--	--	--	--	--
	10/28/93	13.84	64.34	0.00	--	--	--	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-11 (cont)	11/30/93	13.04	65.14	0.00	ND	ND	ND	ND	ND	--	
	02/16/94	12.76	65.42	0.00	ND	ND	ND	ND	ND	--	
	05/31/94	12.79	65.39	0.00	ND	ND	ND	ND	ND	--	
	08/31/94	12.97	65.21	0.00	ND	ND	1.5	ND	1.8	--	
	09/27/94	14.88	63.30	0.00	--	--	--	--	--	--	
	10/11/94	13.40	64.78	0.00	--	--	--	--	--	--	
	11/10/94	13.57	64.61	0.00	ND	ND	ND	ND	ND	--	
	02/07/95	12.28	65.90	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	05/03/95	9.28	68.90	0.00	ND	ND	ND	ND	ND	--	
	08/03/95	12.67	65.51	0.00	--	--	--	--	--	--	
	11/07/95	12.28	65.90	0.00	ND	ND	ND	ND	ND	--	
	05/06/96	13.30	64.88	0.00	SAMPLING DISCONTINUED ⁴		--	--	--	--	--
	11/05/96	10.90	67.28	0.00	--	--	--	--	--	--	
	05/15/97	11.65	66.53	0.00	--	--	--	--	--	--	
	11/12/97	9.66	68.52	0.00	--	--	--	--	--	--	
	05/04/98	10.87	67.31	0.00	--	--	--	--	--	--	
	11/11/98	11.40	66.78	0.00	--	--	--	--	--	--	
	NP	05/20/99	10.71	67.47	0.00	ND	ND	ND	ND	ND	ND
		11/15/99	11.32	66.86	0.00	ND	ND	1.04	ND	ND	ND
		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	
05/24/02		10.58	67.60	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0	
11/29/02 ¹⁸		11.27	66.91	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0	
05/15/03 ¹⁸		10.25	67.93	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0	
MW-12	08/26/92	--	--	--	ND	ND	ND	ND	ND	--	
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--	
79.89	12/21/92	12.11	67.78	0.00	--	--	--	--	--	--	
	01/30/93	13.18	66.71	0.00	--	--	--	--	--	--	

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-12	02/24/93	12.13	67.76	0.00	ND	ND	ND	ND	ND	--
(cont)	03/22/93	11.22	68.67	0.00	--	--	--	--	--	--
	04/28/93	13.42	66.47	0.00	--	--	--	--	--	--
	05/25/93	13.68	66.21	0.00	ND	ND	ND	ND	ND	--
79.61	06/23/93	14.56	65.05	0.00	--	--	--	--	--	--
	07/22/93	14.96	64.65	0.00	--	--	--	--	--	--
	08/25/93	13.61	66.00	0.00	ND	ND	ND	ND	ND	--
	09/22/93	15.02	64.59	0.00	--	--	--	--	--	--
	10/28/93	14.04	65.57	0.00	--	--	--	--	--	--
	11/30/93	13.28	66.33	0.00	ND	ND	ND	ND	ND	--
	02/16/94	12.76	66.85	0.00	ND	ND	ND	ND	ND	--
	08/31/94	12.82	66.79	0.00	ND	ND	1.0	ND	1.0	ND
	05/31/94	12.64	66.97	0.00	ND	ND	0.81	ND	0.82	--
	09/27/94	14.66	64.95	0.00	--	--	--	--	--	--
	10/11/94	14.25	65.36	0.00	--	--	--	--	--	--
	11/10/94	13.40	66.21	0.00	ND	ND	ND	ND	ND	--
	02/07/95	11.72	67.89	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	05/03/95	13.38	66.23	0.00	ND	ND	ND	ND	ND	--
	08/03/95	13.47	66.14	0.00	--	--	--	--	--	--
	11/07/95	12.78	66.83	0.00	ND	ND	ND	ND	ND	--
	05/06/96	13.25	66.36	0.00	SAMPLING DISCONTINUED ⁴		--	--	--	--
	11/05/96	11.88	67.73	0.00	--	--	--	--	--	--
	05/15/97	11.72	67.89	0.00	--	--	--	--	--	--
	11/12/97	10.01	69.60	0.00	--	--	--	--	--	--
	05/04/98	10.96	68.65	0.00	--	--	--	--	--	--
	11/11/98	11.53	68.08	0.00	--	--	--	--	--	--
	05/20/99	10.84	68.77	0.00	--	--	--	--	--	--
	11/15/99	11.36	68.25	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	I (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-12	05/24/02	10.69	68.92	0.00	--	--	--	--	--	--
(cont)	11/29/02	11.23	68.38	0.00	--	--	--	--	--	--
	05/15/03	10.38	69.23	0.00	--	--	--	--	--	--
RW-1										
81.20	02/24/93	7.19	74.01	0.00	--	--	--	--	--	--
	05/12/93	8.82	72.38	0.00	--	--	--	--	--	--
	05/25/93	8.58	72.62	0.00	--	--	--	--	--	--
80.63	06/07/93	8.16	72.47	0.00	--	--	--	--	--	--
	06/23/93	8.53	72.10	0.00	--	--	--	--	--	--
	07/08/93	8.69	71.94	0.00	--	--	--	--	--	--
	08/11/93	9.00	71.63	0.00	--	--	--	--	--	--
	08/25/93	9.07	71.56	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--
	12/10/01	8.51	72.12	0.00	--	--	--	--	--	--
	01/14/02	8.13	72.50	0.00	--	--	--	--	--	--
	02/22/02	6.18	74.45	0.00	--	--	--	--	--	--
	03/11/02	6.31	74.32	0.00	--	--	--	--	--	--
	04/15/02	6.39	74.24	0.00	--	--	--	--	--	--
	05/24/02	8.14	72.49	0.00	--	--	--	--	--	--
	06/17/02	8.18	72.45	0.00	--	--	--	--	--	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (mst)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
RW-1 (cont)	07/15/02	8.29	72.34	0.00	--	--	--	--	--	--
	08/19/02	8.44	72.19	0.00	--	--	--	--	--	--
	09/05/02	8.47	72.16	0.00	--	--	--	--	--	--
	10/07/02	8.43	72.20	0.00	--	--	--	--	--	--
	11/29/02	8.92	71.71	0.00	--	--	--	--	--	--
	12/12/02	8.87	71.76	0.00	--	--	--	--	--	--
	01/06/03	8.66	71.97	0.00	--	--	--	--	--	--
	02/12/03	8.39	72.24	0.00	--	--	--	--	--	--
	03/13/03	8.06	72.57	0.00	--	--	--	--	--	--
	04/07/03	8.09	72.54	0.00	--	--	--	--	--	--
	05/15/03	8.07	72.56	0.00	--	--	--	--	--	--
Trip Blank										
TB-LB	05/04/98	--	--	--	ND	ND	ND	ND	ND	ND
	11/11/98	--	--	--	ND	ND	ND	ND	ND	ND
	05/20/99	--	--	--	ND	ND	ND	ND	ND	ND
	11/15/99	--	--	--	ND	ND	1.12	ND	ND	ND
	05/22/00	--	--	--	ND	ND	ND	ND	ND	ND
	11/22/00	--	--	--	ND	ND	ND	ND	ND	ND
	05/15/01	--	--	--	ND	ND	ND	ND	ND	ND
	11/23/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	05/24/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	11/29/02 ¹⁸	--	--	--	<50	<0.50	0.75	<0.50	<1.0	<2.0
	05/15/03 ¹⁸	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0

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

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

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

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

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

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

EXPLANATIONS:

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

(mg/L) = milligrams per liter

-- = Not Measured

¹ Wells were not purged prior to sampling.

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

WELL ID	DATE	DTW (ft.)	Product Thickness (ft.)	Amount Bailed Product	Amount Bailed Water	Amount Bailed (Product + Water)
MW-5	11/11/1998	9.23	0.37	--	--	0.25 gallons
	02/22/99	7.69	0.25	5 oz.	3 gallons	--
	04/02/99 ^{1,2}	8.19	0.28	9 oz.	20 oz.	29 oz.
	05/04/99	8.44	0.01	--	--	--
	05/20/99	8.73	0.04	--	--	1 oz.
	06/29/99	8.91	0.05	--	--	4 oz.
	07/29/99	9.12	0.07	4 oz.	8 oz.	12 oz.
	08/24/99	9.37	0.09	--	--	4 oz.
	09/27/99	9.51	0.06	--	--	3.5 oz.
	10/28/99 ³	--	0.05	--	--	3.0 oz.
	11/15/99	9.29	Sheen	--	--	16 oz.
	12/20/99	9.14	0.00	-- ⁴	--	<1.0 oz
	01/20/00	9.08	0.00	-- ⁴	--	<1.0 oz
	02/26/00	8.69	0.00	-- ⁴	--	<1.0 oz
	03/31/00	8.48	0.00	-- ⁴	--	<1.0 oz
	04/13/00	8.66	0.00	0.00	0.00	0.00
	05/22/00	9.06	0.00	-- ⁵	--	1.5 oz.
	11/22/00 ⁶	9.24	0.67	15 oz.	3 gallons	3.12 gallons
	02/14/01 ⁷	7.63	0.33	8 oz.	64 oz.	72 oz.
	03/28/01 ⁷	8.82	0.00	-- ⁸	--	20 oz.
	04/28/01 ⁷	8.66	0.00	-- ⁹	--	7 oz.
	05/15/01 ⁷	8.97	0.00	-- ¹⁰	--	6 oz.
	06/29/01 ⁷	8.73	0.00	-- ¹¹	--	3 oz.
	07/17/01 ⁷	8.92	0.02	-- ¹¹	--	3 oz.
	08/30/01 ⁷	8.85	0.00	0.00	0.00	0.00
	09/24/01 ⁷	8.89	0.00	-- ¹²	0.00	0.00
	10/15/01 ⁷	9.11	0.03	4 oz.	2 gallons	2.03 gallons
	11/23/01 ⁷	8.77	0.00	-- ⁴	--	<1.0 oz
	12/10/01 ⁷	8.75	0.00	0.00	0.00	0.00
	01/14/02 ⁷	8.26	0.00	-- ¹²	0.00	0.00
	02/22/02 ⁷	6.30	0.00	-- ¹³	0.00	0.00
	03/11/02 ⁷	6.47	0.00	0.00	0.00	0.00
	04/15/02 ⁷	6.56	0.00	-- ¹²	0.00	0.00
	05/24/02 ⁷	8.32	0.15	4.5 oz. ¹⁴	2.00	2.04
	06/17/02 ⁷	8.41	0.20	5 oz. ¹⁵	1.5 gallons	1.53 gallons
	07/15/02 ⁷	8.63	0.20	3 oz.	2 gallons	2.02 gallons
	08/19/02 ⁷	8.76	0.31	6 oz.	1.5 gallons	1.55 gallons
	09/05/02 ⁷	8.73	0.16	4 oz.	1 gallon	1.03 gallons
	10/07/02 ⁷	8.79	0.09	2 oz.	1 gallon	1.02 gallons
	11/29/02 ⁷	9.18	0.05	2 oz.	0.00	2 oz.
	12/12/02 ⁷	9.12	0.04	1 oz.	0.00	1 oz.
	01/06/03 ⁷	9.05	0.03	1 oz.	0.00	1 oz.
	02/12/03 ⁷	8.87	0.04	2.5 oz.	1 gallon	1.02 gallons
	03/13/03 ⁷	8.25	0.03	2 oz.	0.00	2 oz.
	04/07/03 ⁷	8.31	0.02	1.5 oz.	0.00	1.5 oz.
	05/15/03 ⁷	8.58	0.03	3.5 oz. ¹⁶	0.00	3.5 oz.

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

EXPLANATIONS:

DTW = Depth to water

(ft.) = Feet

oz. = ounces

-- = Not Measured

- 1 A new skimmer (Petro Trap) was installed.
- 2 Twelve minutes after water/product was bailed, well was monitored again, (DTW = 8.06 ft. and Product Thickness 0.04 ft.).
- 3 Replaced skimmer.
- 4 Less than 1 oz. of product found in skimmer.
- 5 1.5 oz. of product found in skimmer.
- 6 Skimmer not present in well.
- 7 Skimmer was re-installed / skimmer present in well.
- 8 20 oz. of product found in skimmer.
- 9 7 oz. of product found in skimmer.
- 10 6 oz. of product found in skimmer.
- 11 3 oz. of product found in skimmer.
- 12 A few drops of product found in skimmer.
- 13 Approximately 1 oz. of product found in skimmer.
- 14 1.5 oz. of product found in skimmer and 3 oz. of product from well.
- 15 1 oz. of product found in skimmer and 4 oz. of product from well.
- 16 2 oz. of product found in skimmer and 1.5 oz. of product from well.

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 ^{1,3}	ND	ND	² 92/47	ND	ND	ND	--	--
	11/15/99 ⁴	ND	ND	7.19	ND	ND	ND	--	--
	05/22/00 ⁴	ND	130	290	ND	ND	ND	--	--
	11/22/00	-- ⁶	-- ⁶	142	ND	ND	ND	--	--
	05/15/01 ⁴	ND ⁵	ND ⁵	374	ND ⁵	ND ⁵	ND ⁵	--	--
	11/23/01 ⁴	<1,400	<57	350	<2.9	<2.9	<2.9	<2.9	<2.9
	05/24/02	<1,000	<200	240	<4.0	<4.0	<4.0	<4.0	<4.0
	11/29/02	<2,500	<500	330	<10	<10	<10	<10	<10
05/15/03	<2,500	<500	210	<10	<10	<10	<10	<10	
MW-3	05/22/00 ⁴	ND	ND	94	ND	ND	ND	--	--
	11/22/00	-- ⁶	-- ⁶	131	ND	ND	ND	--	--
	05/15/01 ⁴	ND ⁵	ND ⁵	75.5	ND ⁵	ND ⁵	ND ⁵	--	--
	11/23/01	<1,200	79	390	<2.5	<2.5	<2.5	<2.5	<2.5
	05/24/02	<500	<100	73	<2.0	<2.0	<2.0	<2.0	<2.0
	11/29/02	<25,000	<5,000	340	<100	<100	<100	<100	<100
	05/15/03	<5,000	<1,000	440	<20	<20	<20	<20	<20
MW-4	05/24/02	<500	<100	3.5	<2.0	<2.0	<2.0	<2.0	<2.0
	11/29/02	<500	<100	2.6	<2.0	<2.0	<2.0	<2.0	<2.0
	05/15/03	--	--	<2.0	--	--	--	--	--
MW-5	05/22/00 ⁴	ND ⁵	ND ⁵	21	ND ⁵	ND ⁵	ND ⁵	--	--
MW-8	05/20/99 ^{1,3}	ND	ND	² 12/10	ND	ND	ND	--	--
	11/15/99 ⁴	ND ⁵	ND ⁵	45.1	ND ⁵	ND ⁵	ND ⁵	--	--
	11/29/02	--	--	<2.0	--	--	--	--	--
	05/15/03	--	--	<2.0	--	--	--	--	--

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-9	11/29/02	--	--	<2.0	--	--	--	--	--
	05/15/03	--	--	<2.0	--	--	--	--	--
MW-11	11/29/02	--	--	<2.0	--	--	--	--	--
	05/15/03	--	--	<2.0	--	--	--	--	--

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

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

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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

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 disposable 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 and is labeled as QA. 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

MONTHLY MONITORING EVENT
OF December 12, 2002



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 12-12-02 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-5 Date Monitored: 12-12-02 Well Condition: 0.1c
 Well Diameter: 2 in.
 Total Depth: 20.16 ft.
 Depth to Water: 9.12 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: 9.16 ft
 Depth to Water: 9.12 ft
 Hydrocarbon Thickness: 0.04 ft
 Visual Confirmation/Description:
Dark (black) color
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: 0 gal
 Amt Removed from Well: 1 ounce gal
 Product Transferred to: overpack drums

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: Skimmer in well

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 12-12-02 (Inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: Rw-1 Date Monitored: 12-12-02 Well Condition: O.K.
 Well Diameter: 6 in.
 Total Depth: 17.38 ft.
 Depth to Water: 8.87 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / Water Color: _____ Odor: _____
 Purging Flow Rate: gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

TOSCO (UNOCAL) SERVICE STATION #0746
OAKLAND, CA

MONTHLY MONITORING EVENT
OF January 6, 2003



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 1-6-03 (inclusive)
 City: Oakland, CA Sampler: JRC

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.16 ft.
 Depth to Water: 9.05 ft.

Date Monitored: 1-6-03 Well Condition: OK

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: 9.02 ft
 Depth to Water: 9.05 ft
 Hydrocarbon Thickness: 0.03 ft
 Visual Confirmation/Description:
Pack (black) color
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: 0 gal
 Amt Removed from Well: 1 ounce gal
 Product Transferred to: overpack drum

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: Skimmer in well

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 1-6-03 (inclusive)
 City: Oakland, CA Sampler: Jec

Well ID: RW-1
 Well Diameter: 6 in.
 Total Depth: 17.38 ft.
 Depth to Water: 8.66 ft.

Date Monitored: 1-6-03 Well Condition: o/c.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

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

**MONTHLY MONITORING EVENT OF
February 12, 2003**



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 2-12-03 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.16 ft.
 Depth to Water: 8.87 ft.

Date Monitored: 2-12-03 Well Condition: O.K.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: 8.83 ft
 Depth to Water: 8.87 ft
 Hydrocarbon Thickness: 0.01 ft
 Visual Confirmation/Description:
Dark (shiny) color
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: 0 gal
 Amt Removed from Well: 2.5 cases gal
 Product Transferred to: over pack drum

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

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

COMMENTS: Skimmer in well 1 gal of water removed from well during boiling, transferred to test truck.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 2-12-03 (inclusive)
 City: Oakland, CA Sampler: Sec

Well ID: Rw-1 Date Monitored: 2-12-03 Well Condition: O.K.

Well Diameter: 6 in.

Total Depth: 17.38 ft.

Depth to Water: 8.39 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

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

**MONTHLY MONITORING EVENT
OF March 13, 2003**



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 180063
 Event Date: 3-13-03 (inclusive)
 Sampler: Joe

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.16 ft.
 Depth to Water: 8.25 ft.

Date Monitored: 3-13-03 Well Condition: O.K.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: 8.22 ft
 Depth to Water: 8.25 ft
 Hydrocarbon Thickness: 0.03 ft
 Visual Confirmation/Description:
Dark colored product
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: 2 ounces
 Product Transferred to: overpack down

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

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

COMMENTS: Skimmer in well

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 180063
 Event Date: 3-13-03 (inclusive)
 Sampler: Joe

Well ID: Rw-1
 Well Diameter: 6 in.
 Total Depth: 17.38 ft.
 Depth to Water: 8.06 ft.

Date Monitored: 3-13-03 Well Condition: OK

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Bailed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Product Transferred to:	_____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

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

COMMENTS: monitor only / no SPH

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____

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

**MONTHLY MONITORING EVENT
OF April 7, 2003**



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 180063
 Event Date: 4-7-03 (inclusive)
 Sampler: Joc

Well ID: MW-5 Date Monitored: 4-7-03 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 20.16 ft.
 Depth to Water: 8.31 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: 8.29 ft
 Depth to Water: 8.31 ft
 Hydrocarbon Thickness: 0.02 ft
 Visual Confirmation/Description:
Dork product
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: 6 gal
 Amt Removed from Well: 1.5 ounces gal
 Product Transferred to: ever pack drum

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

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

COMMENTS: Skimmer in well

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 180063
 Event Date: 4-7-03 (inclusive)
 Sampler: Joc

Well ID: RW-1
 Well Diameter: 6 in.
 Total Depth: 17.38 ft.
 Depth to Water: 8.09 ft.

Date Monitored: 4-7-03 Well Condition: OK

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

TOSCO (UNOCAL) SERVICE STATION #0746
OAKLAND, CA

SEMI-ANNUAL MONITORING AND SAMPLING
Event of May 15, 2003



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-1 Date Monitored: 5-15-03 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 19.83 ft.
 Depth to Water: 7.22 ft.
12.61 xVF 0.17 = 2.14 x3 (case volume) = Estimated Purge Volume: 7 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump ✓
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer ✓
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 0823 Weather Conditions: Partly
 Sample Time/Date: 0842 15-15-03 Water Color: clear Odor: mild
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) x100	Temperature (C/E)	D.O. (mg/L)	ORP (mV)
<u>0830</u>	<u>2.5</u>	<u>7.51</u>	<u>8.10</u>	<u>71.5</u>	_____	_____
<u>0832</u>	<u>5</u>	<u>7.45</u>	<u>7.96</u>	<u>70.5</u>	_____	_____
<u>0834</u>	<u>7</u>	<u>7.48</u>	<u>8.04</u>	<u>70.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-15</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-2 Date Monitored: 5-15-03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 19.85 ft.
 Depth to Water: 8.21 ft.

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voc vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)

COMMENTS: M. only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-3 Date Monitored: 5-15-03 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 22.37 ft.
 Depth to Water: 8.76 ft.
 Volume Factor (VF) table:

3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

 xVF 0.17 = 2.31 x3 (case volume) = Estimated Purge Volume: 7 gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft.
 Depth to Water: _____ ft.
 Hydrocarbon Thickness: 0.2 ft.
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 0900 Weather Conditions: Foggy
 Sample Time/Date: 0925 15-15-03 Water Color: Clear Odor: Some
 Purging Flow Rate: 8 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0910</u>	<u>2.5</u>	<u>7.25</u>	<u>5.42</u>	<u>69.7</u>		
<u>0912</u>	<u>5</u>	<u>7.30</u>	<u>5.58</u>	<u>70.5</u>		
<u>0915</u>	<u>7</u>	<u>7.27</u>	<u>5.60</u>	<u>70.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: _____

Add/Replaced Lock:

Add/Replaced Plug: Size: 2"



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-4 Date Monitored: 5-15-03 Well Condition: O.K.

Well Diameter: 2 in.

Total Depth: 20.01 ft.

Depth to Water: 7.87 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

12.14 x VF 0.17 = 2.06 x3 (case volume) = Estimated Purge Volume: 6.0 gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer
 Stack Pump
 Suction Pump
 Grundfos
 Other:

Sampling Equipment:

Disposable Bailer
 Pressure Bailer
 Discrete Bailer
 Other:

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0.5 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 0750 Weather Conditions: Foggy
 Sample Time/Date: 0815 15-15-03 Water Color: Clear Odor: Mild
 Purging Flow Rate: 6.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) ^{x100}	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0758</u>	<u>2</u>	<u>7.14</u>	<u>3.95</u>	<u>71.2</u>	_____	_____
<u>0801</u>	<u>4</u>	<u>7.16</u>	<u>3.92</u>	<u>72.2</u>	_____	_____
<u>0803</u>	<u>6.5</u>	<u>7.17</u>	<u>4.07</u>	<u>71.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 x voc vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 180063
 Event Date: 5.15.03 (inclusive)
 Sampler: Jee

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.16 ft.
 Depth to Water: 8.58 ft.

Date Monitored: 5.15.03 Well Condition: o.k

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: 8.55 ft
 Depth to Water: 8.58 ft
 Hydrocarbon Thickness: 0.03 ft
 Visual Confirmation/Description:
dark colored product
 Skimmer/ Absorbant Sock (circle one)
 Amt Removed from Skimmer: 2 ounces gal
 Amt Removed from Well: 1.5 ounces gal
 Product Transferred to: over pump down

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)

COMMENTS: Removed a total of 3.5 ounces of product from well. 2 ounces from the skimmer and 1.5 ounces from well.

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 180063
 Event Date: 5-15-03 (inclusive)
 Sampler: JRC

Well ID: MW-6
 Well Diameter: 2 in.
 Total Depth: 19.65 ft.
 Depth to Water: 6.26 ft.

Date Monitored: 5-15-03 Well Condition: OK

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer ✓
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Bailed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Product Transferred to:	_____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)

COMMENTS: no - only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-7
 Well Diameter: 2 in.
 Total Depth: 18.40 ft.
 Depth to Water: 7.25 ft.

Date Monitored: 5-15-03 Well Condition: O.K.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer ~~_____~~
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>2 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: M. July

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Ice

Well ID: MW-8 Date Monitored: 5-15-03 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 21.25 ft.
 Depth to Water: 9.04 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: Foggy
 Sample Time/Date: 1045 15-15-03 Water Color: clear Odor: none
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 x vov vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)

COMMENTS: No Purge S.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-9
 Well Diameter: 2 in.
 Total Depth: 21.83 ft.
 Depth to Water: 8.56 ft.
13.27 xVF 0.17 = 2.26 x3 (case volume) = Estimated Purge Volume: 7 gal.

Date Monitored: 5-15-03 Well Condition: o.i.c.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailor
 Stainless Steel Bailor _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailor
 Pressure Bailor _____
 Discrete Bailor _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 1004 Weather Conditions: Foggy
 Sample Time/Date: 1032 / 5-15-03 Water Color: clear Odor: none
 Purging Flow Rate: 0 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) ¹¹⁰	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1012</u>	<u>2.5</u>	<u>7.4</u>	<u>10.06</u>	<u>61.5</u>		
<u>1016</u>	<u>5</u>	<u>7.42</u>	<u>9.51</u>	<u>61.6</u>		
<u>1021</u>	<u>7</u>	<u>7.53</u>	<u>9.48</u>	<u>62.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: _____

Add/Replaced Lock:

Add/Replaced Plug: Size: 2 1/4



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 180063
 Event Date: 5-15-03 (inclusive)
 Sampler: Joe

Well ID: MW-10
 Well Diameter: 2 in.
 Total Depth: 21.95 ft.
 Depth to Water: 9.22 ft.

Date Monitored: 5.15.03 Well Condition: OK

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μ mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)

COMMENTS: ML only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-11 Date Monitored: 5-15-03 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 19.16 ft.
 Depth to Water: 10.25 ft.
 Volume Factor (VF): 8.91 xVF 0.57 = 1.51 x3 (case volume) = Estimated Purge Volume: 4.5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 0715 Weather Conditions: Foggy clear
 Sample Time/Date: 0738 15-15-03 Water Color: Clear Odor: none
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0723</u>	<u>1.5</u>	<u>8.04</u>	<u>10.14</u>	<u>62.9</u>	_____	_____
<u>0726</u>	<u>3</u>	<u>7.55</u>	<u>10.25</u>	<u>63.1</u>	_____	_____
<u>0730</u>	<u>4.5</u>	<u>7.56</u>	<u>10.33</u>	<u>63.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>3 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Soe

Well ID: MW-12 Date Monitored: 5-15-03 Well Condition: O.K.
 Well Diameter: 2 in.
 Total Depth: 17.50 ft.
 Depth to Water: 10.38 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF = x3 (case volume) = Estimated Purge Volume: gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: _____
 Purging Flow Rate: gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)

COMMENTS: mt. only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063
 Site Address: 3943 Broadway Event Date: 5-15-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: RW-1
 Well Diameter: 6 in.
 Total Depth: 17.38 ft.
 Depth to Water: 8.07 ft.

Date Monitored: 5-15-03 Well Condition: O.K.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: 5/15/03 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
RW-1	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)

COMMENTS: Monitored & checked for product

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

2003-05-0509

74334 Gettler-Ryan Inc., Chain-of-Custody

Toaco Corp./
Phillips 66 Co.
2000 Crow Canyon Place
Suite 400
San Ramon, CA 94583

Facility Number: 90748
Facility Address: 3943 BROADWAY, OAKLAND, CA
Global ID: 20800101471 Project: 180063.80
Client Contact: MR. DAVID B. DEWITT
Phone: (825) 277-2384

Laboratory Name: STL - PLEASANTON, CA
Consultant: GETTLER-RYAN, INC. DEANNA L. HARDING
Address: 6747 SIERRA CT., SUITE J, DUBLIN, CA 94568
Phone: (925) 551-7555 Fax: (925) 551-7899
Samples Collected by: JOE ASEMIAN

SAMPLE ID	Number of Containers Matrix	S = Soil A = Air W = Water C = Chloroform	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/MTBE/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/MTBE/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Ca, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HCC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SIOC'S EPA 8270	Remarks
QA	1	W	HCl	5-15-03					✓									3.6e
MW-1	3	✓	✓	6 0842					✓									Run 8 Oxy's by 8260 on all 8260 MTBE hits.
MW-3	3	✓	✓	6 0925					✓									
MW-4	3	✓	✓	6 0815					✓									
MW-8	3	✓	✓	6 1045					✓									
MW-9	3	✓	✓	6 1032					✓									
MW-11	3	✓	✓	6 0738					✓									

- OXYGENATES 8260
- 1 - MTBE
 - 2 - TBA
 - 3 - TAME
 - 4 - DIPE
 - 5 - ETBE
 - 6 - 1,2-DCA
 - 7 - EDB
 - 8 - ETHANOL

Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>C-R</u>	Date/Time: <u>5-15-03</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>C-R</u>	Date/Time: <u>5/15/03</u>	Lead: <u>Y/N</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Requested
Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>C-R</u>	Date/Time: <u>5/16/03</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>STL-SF</u>	Date/Time: <u>5/16/03</u>	Lead: <u>Y/N</u>	
Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>STL-SF</u>	Date/Time: <u>5-16-03</u>	Received For Laboratory By (Signature): <u>Nouma K.</u>	Organization: <u>STL-SF</u>	Date/Time: <u>5/16/03</u>	Lead: <u>Y/N</u>	

FILE NAME: P:\ENVROY-C\ADMIN\STOCKY STD-COC.doc | Layout: Test.doc

Gettler Ryan

June 02, 2003

6747 Sierra Court Suite J
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180063.80

Project: Tosco #0746

Site: 3943 Broadway, Oakland

RECEIVED

GETTLER RYAN INC
GENERAL LABORATORIES

Dear Ms. Harding,

Attached is our report for your samples received on 05/16/2003 18:22

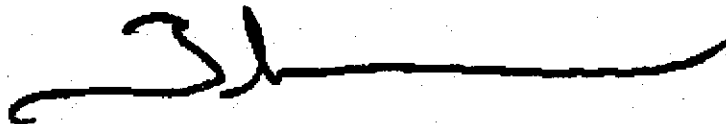
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/30/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	05/15/2003	Water	1
MW-1	05/15/2003 08:42	Water	2
MW-3	05/15/2003 09:25	Water	3
MW-4	05/15/2003 08:15	Water	4
MW-8	05/15/2003 10:45	Water	5
MW-9	05/15/2003 10:32	Water	6
MW-11	05/15/2003 07:38	Water	7

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: QA	Lab ID: 2003-05-0509 - 1
Sampled: 05/15/2003	Extracted: 5/28/2003 17:32
Matrix: Water	QC Batch#: 2003/05/28-1g.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/28/2003 17:32	
Benzene	ND	0.50	ug/L	1.00	05/28/2003 17:32	
Toluene	ND	0.50	ug/L	1.00	05/28/2003 17:32	
Ethylbenzene	ND	0.50	ug/L	1.00	05/28/2003 17:32	
Total xylenes	ND	1.0	ug/L	1.00	05/28/2003 17:32	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	05/28/2003 17:32	
Surrogates(s)						
1,2-Dichloroethane-d4	107.5	76-114	%	1.00	05/28/2003 17:32	
Toluene-d8	100.5	88-110	%	1.00	05/28/2003 17:32	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80
Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2003-05-0509 - 2
Sampled: 05/15/2003 08:42	Extracted: 5/29/2003 12:54
Matrix: Water	QC Batch#: 2003/05/29-1g.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	05/29/2003 12:54	
Benzene	ND	2.5	ug/L	5.00	05/29/2003 12:54	
Toluene	ND	2.5	ug/L	5.00	05/29/2003 12:54	
Ethylbenzene	ND	2.5	ug/L	5.00	05/29/2003 12:54	
Total xylenes	ND	5.0	ug/L	5.00	05/29/2003 12:54	
tert-Butyl alcohol (TBA)	ND	500	ug/L	5.00	05/29/2003 12:54	
Methyl tert-butyl ether (MTBE)	210	10	ug/L	5.00	05/29/2003 12:54	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	05/29/2003 12:54	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	05/29/2003 12:54	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	05/29/2003 12:54	
1,2-DCA	ND	10	ug/L	5.00	05/29/2003 12:54	
EDB	ND	10	ug/L	5.00	05/29/2003 12:54	
Ethanol	ND	2500	ug/L	5.00	05/29/2003 12:54	
Surrogates(s)						
1,2-Dichloroethane-d4	111.5	76-114	%	5.00	05/29/2003 12:54	
Toluene-d8	99.0	88-110	%	5.00	05/29/2003 12:54	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-05-0509 - 3
Sampled:	05/15/2003 09:25	Extracted:	5/28/2003 18:16
Matrix:	Water	QC Batch#:	2003/05/28-1g.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5600	500	ug/L	10.00	05/28/2003 18:16	
Benzene	ND	5.0	ug/L	10.00	05/28/2003 18:16	
Toluene	ND	5.0	ug/L	10.00	05/28/2003 18:16	
Ethylbenzene	81	5.0	ug/L	10.00	05/28/2003 18:16	
Total xylenes	ND	10	ug/L	10.00	05/28/2003 18:16	
tert-Butyl alcohol (TBA)	ND	1000	ug/L	10.00	05/28/2003 18:16	
Methyl tert-butyl ether (MTBE)	440	20	ug/L	10.00	05/28/2003 18:16	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	10.00	05/28/2003 18:16	
Ethyl tert-butyl ether (ETBE)	ND	20	ug/L	10.00	05/28/2003 18:16	
tert-Amyl methyl ether (TAME)	ND	20	ug/L	10.00	05/28/2003 18:16	
1,2-DCA	ND	20	ug/L	10.00	05/28/2003 18:16	
EDB	ND	20	ug/L	10.00	05/28/2003 18:16	
Ethanol	ND	5000	ug/L	10.00	05/28/2003 18:16	
Surrogates(s)						
1,2-Dichloroethane-d4	107.1	76-114	%	10.00	05/28/2003 18:16	
Toluene-d8	96.0	88-110	%	10.00	05/28/2003 18:16	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/02/2003 16:39

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-4	Lab ID: 2003-05-0509 - 4
Sampled: 05/15/2003 08:15	Extracted: 5/28/2003 18:39
Matrix: Water	QC Batch#: 2003/05/28-1g.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/28/2003 18:39	
Benzene	ND	0.50	ug/L	1.00	05/28/2003 18:39	
Toluene	ND	0.50	ug/L	1.00	05/28/2003 18:39	
Ethylbenzene	ND	0.50	ug/L	1.00	05/28/2003 18:39	
Total xylenes	ND	1.0	ug/L	1.00	05/28/2003 18:39	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	05/28/2003 18:39	
Surrogates(s)						
1,2-Dichloroethane-d4	112.9	76-114	%	1.00	05/28/2003 18:39	
Toluene-d8	99.6	88-110	%	1.00	05/28/2003 18:39	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-8	Lab ID: 2003-05-0509 - 5
Sampled: 05/15/2003 10:45	Extracted: 5/29/2003 13:16
Matrix: Water	QC Batch#: 2003/05/29-1g.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/29/2003 13:16	
Benzene	ND	0.50	ug/L	1.00	05/29/2003 13:16	
Toluene	ND	0.50	ug/L	1.00	05/29/2003 13:16	
Ethylbenzene	ND	0.50	ug/L	1.00	05/29/2003 13:16	
Total xylenes	ND	1.0	ug/L	1.00	05/29/2003 13:16	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	05/29/2003 13:16	
Surrogates(s)						
1,2-Dichloroethane-d4	98.7	76-114	%	1.00	05/29/2003 13:16	
Toluene-d8	102.2	88-110	%	1.00	05/29/2003 13:16	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-9	Lab ID:	2003-05-0509 - 6
Sampled:	05/15/2003 10:32	Extracted:	5/28/2003 19:23
Matrix:	Water	QC Batch#:	2003/05/28-1g.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/28/2003 19:23	
Benzene	ND	0.50	ug/L	1.00	05/28/2003 19:23	
Toluene	ND	0.50	ug/L	1.00	05/28/2003 19:23	
Ethylbenzene	ND	0.50	ug/L	1.00	05/28/2003 19:23	
Total xylenes	ND	1.0	ug/L	1.00	05/28/2003 19:23	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	05/28/2003 19:23	
Surrogates(s)						
1,2-Dichloroethane-d4	108.9	76-114	%	1.00	05/28/2003 19:23	
Toluene-d8	99.4	88-110	%	1.00	05/28/2003 19:23	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-11	Lab ID: 2003-05-0509 - 7
Sampled: 05/15/2003 07:38	Extracted: 5/29/2003 12:32
Matrix: Water	QC Batch#: 2003/05/29-1g.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/29/2003 12:32	
Benzene	ND	0.50	ug/L	1.00	05/29/2003 12:32	
Toluene	ND	0.50	ug/L	1.00	05/29/2003 12:32	
Ethylbenzene	ND	0.50	ug/L	1.00	05/29/2003 12:32	
Total xylenes	ND	1.0	ug/L	1.00	05/29/2003 12:32	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	05/29/2003 12:32	
Surrogates(s)						
1,2-Dichloroethane-d4	98.5	76-114	%	1.00	05/29/2003 12:32	
Toluene-d8	102.8	88-110	%	1.00	05/29/2003 12:32	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch # 2003/05/28-1g.65
MB: 2003/05/28-1g.65-003		Date Extracted: 05/28/2003 11:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/28/2003 11:28	
Benzene	ND	0.5	ug/L	05/28/2003 11:28	
Toluene	ND	0.5	ug/L	05/28/2003 11:28	
Ethylbenzene	ND	0.5	ug/L	05/28/2003 11:28	
Total xylenes	ND	1.0	ug/L	05/28/2003 11:28	
tert-Butyl alcohol (TBA)	ND	100	ug/L	05/28/2003 11:28	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	05/28/2003 11:28	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	05/28/2003 11:28	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	05/28/2003 11:28	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	05/28/2003 11:28	
1,2-DCA	ND	2.0	ug/L	05/28/2003 11:28	
EDB	ND	2.0	ug/L	05/28/2003 11:28	
Ethanol	ND	500	ug/L	05/28/2003 11:28	
Surrogates(s)					
1,2-Dichloroethane-d4	96.2	76-114	%	05/28/2003 11:28	
Toluene-d8	99.2	88-110	%	05/28/2003 11:28	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/05/29-1g.65-003

Water

Test(s): 8260FAB

QC Batch # 2003/05/29-1g.65

Date Extracted: 05/29/2003 10:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/29/2003 10:53	
Benzene	ND	0.5	ug/L	05/29/2003 10:53	
Toluene	ND	0.5	ug/L	05/29/2003 10:53	
Ethylbenzene	ND	0.5	ug/L	05/29/2003 10:53	
Total xylenes	ND	1.0	ug/L	05/29/2003 10:53	
tert-Butyl alcohol (TBA)	ND	100	ug/L	05/29/2003 10:53	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	05/29/2003 10:53	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	05/29/2003 10:53	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	05/29/2003 10:53	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	05/29/2003 10:53	
1,2-DCA	ND	2.0	ug/L	05/29/2003 10:53	
EDB	ND	2.0	ug/L	05/29/2003 10:53	
Ethanol	ND	500	ug/L	05/29/2003 10:53	
Surrogates(s)					
1,2-Dichloroethane-d4	91.8	76-114	%	05/29/2003 10:53	
Toluene-d8	100.8	88-110	%	05/29/2003 10:53	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/05/28-1g.65

LCS 2003/05/28-1g.65-002

Extracted: 05/28/2003

Analyzed: 05/28/2003 10:44

LCSD 2003/05/28-1g.65-001

Extracted: 05/28/2003

Analyzed: 05/28/2003 11:06

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	28.5	28.2	25	114.0	112.8	1.1	69-129	20		
Toluene	28.8	28.8	25	115.2	115.2	0.0	70-130	20		
Methyl tert-butyl ether (MTBE)	35.7	35.0	25	142.8	140.0	2.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	474	478	500	94.8	95.6		76-114			
Toluene-d8	515	495	500	103.0	99.0		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80

Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Batch QC Report									
Prep(s): 5030B					Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/05/29-1g.65			
LCS	2003/05/29-1g.65-001		Extracted: 05/29/2003			Analyzed: 05/29/2003 10:09			
LCSD	2003/05/29-1g.65-002		Extracted: 05/29/2003			Analyzed: 05/29/2003 10:31			

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	24.6	25.2	25	98.4	100.8	2.4	69-129	20		
Toluene	24.8	24.4	25	99.2	97.6	1.6	70-130	20		
Methyl tert-butyl ether (MTBE)	31.2	30.3	25	124.8	121.2	2.9	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	467	476	500	93.4	95.2		76-114			
Toluene-d8	504	493	500	100.8	98.6		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding

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Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180063.80
Tosco #0746

Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Matrix Spike (MS / MSD)	Water		QC Batch # 2003/05/28-1g.65
MW-7 >> MS			Lab ID: 2003-05-0476 - 007
MS: 2003/05/28-1g.65-017	Extracted: 05/28/2003		Analyzed: 05/28/2003 16:03
			Dilution: 1.00
MSD: 2003/05/28-1g.65-018	Extracted: 05/28/2003		Analyzed: 05/28/2003 16:25
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	25.0	25.6	ND	25	100.0	102.4	2.4	69-129	20		
Toluene	25.6	26.3	ND	25	102.4	105.2	2.7	70-130	20		
Methyl tert-butyl ether	31.7	30.5	ND	25	126.8	122.0	3.9	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	480	461		500	96.0	92.2		76-114			
Toluene-d8	515	518		500	103.1	103.6		88-110			

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Received: 05/16/2003 18:22

Site: 3943 Broadway, Oakland

Batch QC Report			
Prep(s): 5030B	Test(s): 8260FAB		
Matrix Spike (MS / MSD)	Water	QC Batch # 2003/05/29-1g.65	
S-5 >> MS		Lab ID:	2003-05-0488 - 004
MS: 2003/05/29-1g.65-030	Extracted: 05/29/2003	Analyzed:	05/29/2003 16:58
		Dilution:	1.00
MSD: 2003/05/29-1g.65-031	Extracted: 05/29/2003	Analyzed:	05/29/2003 17:20
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	27.3	27.1	ND	25	109.2	108.4	0.7	69-129	20		
Toluene	27.5	26.7	ND	25	110.0	106.8	3.0	70-130	20		
Methyl tert-butyl ether	40.1	40.6	3.69	25	145.6	147.6	1.4	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	508	510		500	101.6	102.1		76-114			
Toluene-d8	517	499		500	103.3	99.9		88-110			