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Environmental Department

October 3, 2003

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

Alameda County  
OCT 03 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

September 18, 2003

G-R #180063

Alameda County

OCT 03 2003

Environmental Health

TO: Mr. David B. De Witt  
ConocoPhillips  
76 Broadway Avenue  
Sacramento, California 95818

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	September 17, 2003	Groundwater Monitoring and Sampling Report Monthly Site Visits - June 12, 2003, July 7, 2003, August 14, 2003, & September 12, 2003

### 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 **October 2, 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.

September 17, 2003  
G-R Job #180063

Mr. David B. De Witt  
ConocoPhillips  
76 Broadway Avenue  
Sacramento, California 94818

RE: **Monthly Site Visits**  
**June 12, 2003**  
**July 7, 2003**  
**August 14, 2003**  
**September 12, 2003**  
Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #0746  
3943 Broadway  
Oakland, California

Alameda County  
097-0-2003  
Environmental Health

Dear Mr. De Witt:

This report documents the monthly site visits 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. The field data sheets for this event are attached and historical analytical results are presented in the table(s) listed below.

Sincerely,

Deanna L. Harding  
Project Coordinator

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

**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	--	
	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	0.84	--	
	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	--		

UNOCAL  
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 Alameda County

**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 <sup>7,8,9</sup>
	11/15/99	7.84	72.70	0.00	ND	ND	ND	ND	ND	8.12/7.19 <sup>12</sup>
	05/22/00	7.53	73.01	0.00	ND	0.89	ND	ND	ND	220/290 <sup>12</sup>
	11/22/00	7.35	73.19	0.00	ND	ND	ND	ND	ND	105/142 <sup>7</sup>
	05/15/01	7.48	73.06	0.00	345 <sup>11</sup>	ND <sup>5</sup>	3.41	2.77	25.2	178/374 <sup>12</sup>
	11/23/01	7.57	72.97	0.00	<50	<0.50	<0.50	<0.50	<0.50	350/350 <sup>12</sup>
	05/24/02	7.10	73.44	0.00	70 <sup>11</sup>	<0.50	<0.50	<0.50	<0.50	200/240 <sup>7</sup>
	11/29/02 <sup>18</sup>	7.96	72.58	0.00	<250	<2.5	<2.5	<2.5	<5.0	330
	05/15/03 <sup>18</sup>	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 <sup>1</sup>	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	DTW (ft.)	GWE (mst)	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 <sup>1</sup>	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 <sup>1</sup>	ND	ND	ND	ND	2,700
81.32	06/23/93	9.17	72.15	0.00	--	--	--	--	--	--
	07/22/93	9.42	71.90	0.00	--	--	--	--	--	--
	08/25/93	9.53	71.79	0.00	190 <sup>1</sup>	ND	ND	ND	ND	--
	09/22/93	9.67	71.65	0.00	--	--	--	--	--	--
	10/28/93	9.65	71.67	0.00	--	--	--	--	--	--
	11/30/93	9.18	72.14	0.00	480 <sup>1</sup>	ND	ND	ND	ND	--
	02/16/94	8.91	72.41	0.00	3,200 <sup>1</sup>	ND	ND	ND	ND	--
	05/31/94	9.36	71.96	0.00	1,100 <sup>1</sup>	ND	ND	ND	ND	--
	08/31/94	9.85	71.47	0.00	310 <sup>1</sup>	ND	ND	ND	ND	--
	09/27/94	9.95	71.37	0.00	--	--	--	--	--	--
	10/11/95	9.95	71.37	0.00	--	--	--	--	--	--
	11/10/94	7.47	73.85	0.00	95 <sup>2</sup>	ND	ND	ND	ND	--
	02/07/95	8.29	73.03	0.00	1,600 <sup>1</sup>	ND	ND	ND	ND	--
	05/03/95	8.12	73.20	0.00	ND	ND	ND	ND	ND	--
	08/03/95	9.35	71.97	0.00	ND	ND	ND	ND	ND	--
	11/07/95	9.65	71.67	0.00	ND	ND	ND	ND	ND	160 <sup>3</sup>
	05/06/96	8.90	72.42	0.00	SAMPLING DISCONTINUED <sup>4</sup>		--	--	--	--
	11/05/96	10.98	70.34	0.00	--	--	--	--	--	--
	05/15/97	9.13	72.19	0.00	--	--	--	--	--	--
	11/12/97	9.84	71.48	0.00	--	--	--	--	--	--
	05/04/98	9.26	72.06	0.00	--	--	--	--	--	--
	11/11/98	8.88	72.44	0.00	--	--	--	--	--	--
	05/20/99	8.68	72.64	0.00	--	--	--	--	--	--
	11/15/99	8.91	72.41	0.00	--	--	--	--	--	--
	05/22/00	8.61	72.71	0.00	--	--	--	--	--	--
	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 (msl)	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	--	
82.01	11/20/92	--	--	--	1,100,000 <sup>2</sup>	1,800	6,400	3,000	15,000	--	
82.01	12/04/92	10.30	71.71**	0.00	--	--	--	--	--	--	
	12/21/92	9.78	72.23	Trace	--	--	--	--	--	--	
	01/09/93	8.55	73.46	0.00	--	--	--	--	--	--	
	01/30/93	8.90	73.11	0.00	--	--	--	--	--	--	
	02/10/93	9.01	73.01**	0.01	--	--	--	--	--	--	
	02/24/93	8.26	73.76**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	
	03/09/93	9.18	72.85**	0.02	--	--	--	--	--	--	
	03/22/93	8.81	73.22**	0.02	--	--	--	--	--	--	
	04/08/93	9.14	72.89**	0.02	--	--	--	--	--	--	
	04/28/93	9.44	72.59**	0.03	--	--	--	--	--	--	
	05/12/93	9.57	72.46**	0.03	--	--	--	--	--	--	
	05/25/93	9.45	72.58**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	
	81.41	06/07/93	8.94	72.47	<0.01	--	--	--	--	--	--
		06/23/93	9.20	72.23**	0.02	--	--	--	--	--	--

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

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



**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			E (ppb)	X (ppb)	MTBE (ppb)	
				Thickness (ft.)	TPH-G (ppb)	B (ppb)				T (ppb)
MW-3 (cont)	11/23/01	9.12	72.29	0.00	3,500 <sup>11</sup>	41	<5.0	120	8.0	320/390 <sup>7</sup>
	05/24/02	8.58	72.83	0.00	4,000 <sup>11</sup>	86	6.0	120	5.8	120/73 <sup>7</sup>
	11/29/02 <sup>18</sup>	9.81	71.60	0.00	5,300	<25	<25	65	<50	340
	05/15/03 <sup>18</sup>	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	09/27/94	10.09	71.20	0.00	--	--	--	--	--	--
(cont)	10/11/94	11.50	69.79	0.00	--	--	--	--	--	--
	11/10/94	9.21	72.08	0.00	7,700	1,800	280	460	1,300	--
	02/07/95	7.66	73.63	0.00	540	47	ND	17	2.5	--
	05/03/95	8.29	73.00	0.00	160	8.3	0.52	1.5	3.7	--
	08/03/95	8.60	72.69	0.00	57	2.0	ND	ND	ND	--
	11/07/95	10.28	71.01	0.00	ND	0.71	ND	ND	ND	0.86
	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 <sup>7</sup>
	11/29/02 <sup>18</sup>	9.34	71.95	0.00	<50	<0.50	<0.50	<0.50	<1.0	2.6
	05/15/03 <sup>18</sup>	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	11/10/94	7.54	73.90**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
(cont)	02/07/95	8.10	73.28	0.00	25,000	1,400	740	990	3,000	--
	03/14/95	7.04	74.34	0.00	--	--	--	--	--	--
	05/03/95	7.98	73.40	0.00	12,000	680	160	600	1,800	--
	08/03/95	9.25	72.13	0.00	23,000	940	280	810	2,700	--
	11/07/95	10.00	71.38	0.00	40,000	510	280	1,000	5,700	630 <sup>3</sup>
	05/06/96	9.03	72.35	Sheen	13,000	200	ND	180	610	170
	11/05/96	10.41	70.97	0.00	35,000	1,800	ND	1,300	4,900	580
	05/15/97	9.41	71.97	Sheen	10,000	490	ND	ND	1,300	ND
	11/12/97	9.27	72.11	0.00	100	5.1	ND	ND	ND	74
NP	05/04/98	9.18	72.20	0.00	39,000	1,600	230	1,000	3,200	ND <sup>5</sup>
	11/11/98	9.23	72.43**	0.37	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	02/22/99	7.69	73.88**	0.25	--	--	--	--	--	--
	04/02/99 <sup>6</sup>	8.19	73.40**	0.28	--	--	--	--	--	--
	05/04/99	8.44	72.95**	0.01	--	--	--	--	--	--
	05/20/99	8.73	72.68**	0.04	--	--	--	--	--	--
	06/29/99	8.91	72.51**	0.05	--	--	--	--	--	--
	07/29/99	9.12	72.31**	0.07	--	--	--	--	--	--
	08/24/99	9.37	72.08**	0.09	--	--	--	--	--	--
	09/27/99	9.51	71.92**	0.06	--	--	--	--	--	--
	10/28/99	--	--	0.05	--	--	--	--	--	--
	11/15/99	9.29	72.09	Sheen	--	--	--	--	--	--
	12/20/99 <sup>13</sup>	9.14	72.24	0.00	--	--	--	--	--	--
	01/20/00 <sup>13</sup>	9.08	72.30	0.00	--	--	--	--	--	--
	02/26/00 <sup>13</sup>	8.69	72.69	0.00	--	--	--	--	--	--
	03/31/00 <sup>13</sup>	8.48	72.90	0.00	--	--	--	--	--	--
	04/13/00	8.66	72.72	0.00	--	--	--	--	--	--
	05/22/00 <sup>14</sup>	9.06	72.32	0.00	240,000 <sup>11</sup>	33,000	5,000	18,000	59,000	640/21 <sup>12</sup>
	11/22/00 <sup>16</sup>	9.24	72.64**	0.67	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	02/14/01 <sup>17</sup>	7.63	74.00**	0.33	--	--	--	--	--	--
	03/28/01 <sup>17</sup>	8.82	72.56	0.00	--	--	--	--	--	--
	04/28/01 <sup>17</sup>	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 Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	05/15/01 <sup>17</sup>	8.97	72.41	0.00	--	--	--	--	--	--
(cont)	06/29/01 <sup>17</sup>	8.73	72.65	0.00	--	--	--	--	--	--
	07/17/01 <sup>17</sup>	8.92	72.48**	0.02	--	--	--	--	--	--
	08/30/01 <sup>17</sup>	8.85	72.53	0.00	--	--	--	--	--	--
	09/24/01 <sup>17</sup>	8.89	72.49	0.00	--	--	--	--	--	--
	10/15/01 <sup>17</sup>	9.11	72.29**	0.03	--	--	--	--	--	--
	11/23/01 <sup>17</sup>	8.77	72.61	0.00	29,000 <sup>11</sup>	3,900	450	1,400	3,500	<500
	12/10/01 <sup>17</sup>	8.75	72.63	0.00	--	--	--	--	--	--
	01/14/02 <sup>17</sup>	8.26	73.12	0.00	--	--	--	--	--	--
	02/22/02 <sup>17</sup>	6.30	75.08	0.00	--	--	--	--	--	--
	03/11/02 <sup>17</sup>	6.47	74.91	0.00	--	--	--	--	--	--
	04/15/02 <sup>17</sup>	6.56	74.82	0.00	--	--	--	--	--	--
	05/24/02 <sup>17</sup>	8.32	73.17**	0.15	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	06/17/02 <sup>17</sup>	8.41	73.12**	0.20	--	--	--	--	--	--
	07/15/02 <sup>17</sup>	8.63	72.90**	0.20	--	--	--	--	--	--
	08/19/02 <sup>17</sup>	8.76	72.85**	0.31	--	--	--	--	--	--
	09/05/02 <sup>17</sup>	8.73	72.77**	0.16	--	--	--	--	--	--
	10/07/02 <sup>17</sup>	8.79	72.66**	0.09	--	--	--	--	--	--
	11/29/02 <sup>17</sup>	9.18	72.24**	0.05	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	12/12/02 <sup>17</sup>	9.12	72.29**	0.04	--	--	--	--	--	--
	01/06/03 <sup>17</sup>	9.05	72.35**	0.03	--	--	--	--	--	--
	02/12/03 <sup>17</sup>	8.87	72.54**	0.04	--	--	--	--	--	--
	03/13/03 <sup>17</sup>	8.25	73.15**	0.03	--	--	--	--	--	--
	04/07/03 <sup>17</sup>	8.31	73.09**	0.02	--	--	--	--	--	--
	05/15/03 <sup>17</sup>	8.58	72.82**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--
	06/12/03 <sup>17</sup>	8.63	72.77**	0.02	--	--	--	--	--	--
	07/07/03 <sup>17</sup>	8.59	72.81**	0.02	--	--	--	--	--	--
	08/14/03 <sup>17</sup>	8.65	72.75**	0.03	--	--	--	--	--	--
	09/12/03 <sup>17</sup>	8.82	72.58**	0.03	--	--	--	--	--	--

**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	11/07/90	--	--	--	ND	ND	ND	ND	ND	--
	02/25/91	--	--	--	ND	0.37	0.4	0.35	1.5	--
	05/28/91	--	--	--	ND	ND	ND	ND	0.42	--
	08/28/91	--	--	--	ND	ND	ND	ND	ND	--
	11/19/91	--	--	--	ND	ND	ND	ND	ND	--
	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
80.47	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
	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 <sup>4</sup>		--	--	--	--	

**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)	11/05/96	7.63	72.31	0.00	--	--	--	--	--	--
	05/15/97	7.41	72.53	0.00	--	--	--	--	--	--
	11/12/97	7.51	72.43	0.00	--	--	--	--	--	--
	05/04/98	7.15	72.79	0.00	--	--	--	--	--	--
	11/11/98	7.04	72.90	0.00	--	--	--	--	--	--
	05/20/99	7.00	72.94	0.00	--	--	--	--	--	--
	11/15/99	7.42	72.52	0.00	--	--	--	--	--	--
	05/22/00	7.24	72.70	0.00	--	--	--	--	--	--
	11/22/00	7.40	72.54	0.00	--	--	--	--	--	--
	05/15/01	7.12	72.82	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--

**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	07/22/93	8.83	72.81	0.00	--	--	--	--	--	--
(cont)	08/25/93	8.81	72.83	0.00	ND	ND	ND	ND	ND	--
	09/22/93	8.96	72.68	0.00	--	--	--	--	--	--
	10/28/93	8.98	72.66	0.00	--	--	--	--	--	--
	11/30/93	8.65	72.99	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	02/16/94	8.36	73.28	0.00	ND	ND	ND	ND	0.7	--
	05/31/94	8.67	72.97	0.00	--	--	--	--	--	--
	08/31/94	9.12	72.52	0.00	ND	ND	0.8	ND	0.75	--
	09/27/94	9.22	72.42	0.00	--	--	--	--	--	--
	10/11/94	9.23	72.41	0.00	--	--	--	--	--	--
	11/10/94	7.66	73.98	0.00	--	--	--	--	--	--
	02/07/95	7.88	73.76	0.00	ND	ND	ND	ND	ND	--
	05/03/95	7.71	73.93	0.00	ND	ND	ND	ND	1.0	--
	08/03/95	8.40	73.24	0.00	--	--	--	--	--	--
	11/07/95	8.95	72.69	0.00	ND	ND	ND	ND	ND	--
	05/06/96	8.15	73.49	0.00	--	--	--	--	--	--
	11/05/96	8.67	72.97	0.00	--	--	--	--	--	--
	05/15/97	8.47	73.17	0.00	--	--	--	--	--	--
	11/12/97	7.88	73.76	0.00	--	--	--	--	--	--
	05/04/98	7.93	73.71	0.00	--	--	--	--	--	--
	11/11/98	8.20	73.44	0.00	--	--	--	--	--	--
	05/20/99	8.04	73.60	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--



**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	11/07/90	--	--	--	4,700	28	38	86	7,200	--
	02/25/91	--	--	--	5,300	17	6.1	53	300	--
	05/28/91	--	--	--	4,800	4.2	1.3	5.1	170	--
	08/28/91	--	--	--	1,800	3.2	1.9	19	74	--
	11/19/91	--	--	--	1,600	8.1	1.8	19	52	--
	02/06/92	--	--	--	2,600	4.1	7.0	31	93	--
	05/23/92	--	--	--	2,100	8.6	1.6	1.7	28	--
	08/26/92	--	--	--	1,800	12	8.0	4.0	13	--
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	--	--	--	--	--	--	--	--
81.41	05/25/93	10.12	71.59	0.00	1,200	5.4	ND	9.0	21	--
	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	--

**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	02/16/94	9.86	71.55	0.00	990	4.9	1.8	2.4	4.5	--
(cont)	05/31/94	10.61	70.80	0.00	350	3.0	1.0	0.73	1.7	--
	08/31/94	11.37	70.04	0.00	1,800 <sup>1</sup>	ND	ND	ND	ND	--
	09/27/94	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	10/11/94	11.50	69.91	0.00	--	--	--	--	--	--
	11/10/94	7.81	73.60	0.00	940	6.7	6.3	ND	16	--
	02/07/95	8.69	72.72	0.00	230	1.4	0.95	0.9	1.1	--
	05/03/95	8.60	72.81	0.00	75	ND	ND	ND	1.0	--
	08/03/95	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/07/95	11.05	70.36	0.00	210	1.3	1.2	ND	ND	-- <sup>3</sup>
	05/06/96	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/05/96	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	05/15/97	10.46	70.95	0.00	ND	ND	ND	ND	ND	43
	11/12/97	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	05/04/98	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
	11/11/98	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
NP	05/20/99	9.75	71.66	0.00	ND	ND	ND	ND	ND	23/10 <sup>7,8,10</sup>
	11/15/99	INACCESSIBLE (PARKED OVER)			--	--	--	--	--	--
NP	05/22/00	9.80	71.61	0.00	ND	ND	1.9	ND	3.3	ND
NP	11/22/00	9.76	71.65	0.00	ND	ND	1.16	ND	1.22	ND
NP	05/15/01	9.87	71.54	0.00	ND	ND	ND	ND	ND	ND
NP	11/23/01	9.92	71.49	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
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 <sup>18</sup>	9.71	71.70	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
NP	05/15/03 <sup>18</sup>	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	--

**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	02/06/92	--	--	--	660	41	1.0	33	15	--
(cont)	05/23/92	--	--	--	460	18	0.66	1.4	3.2	--
	08/26/92	--	--	--	250	13	ND	8.6	3.8	--
	11/20/92	INACCESSIBLE	--	--	--	--	--	--	--	--
81.13	12/21/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	01/30/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	02/24/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	03/22/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	04/28/93	INACCESSIBLE	--	--	--	--	--	--	--	--
	05/25/93	11.50	69.63	0.00	160	6.1	ND	7.4	1.1	--
80.53	06/23/93	9.78	70.75	0.00	--	--	--	--	--	--
	07/22/93	10.10	70.43	0.00	--	--	--	--	--	--
	08/25/93	10.44	70.09	0.00	220	10	ND	6.8	1.4	--
	09/22/93	10.64	69.89	0.00	--	--	--	--	--	--
	10/28/93	10.68	69.85	0.00	--	--	--	--	--	--
	11/30/93	9.87	70.66	0.00	200	5.6	ND	2.9	2.7	--
	02/16/94	9.21	71.32	0.00	250	5.1	1.3	4.4	1.5	--
	05/31/94	10.15	70.38	0.00	360	7.8	0.97	4.6	2.2	--
	08/31/94	10.97	69.56	0.00	650	7.7	2.8	4.4	5.0	59
	09/27/94	11.10	69.43	0.00	--	--	--	--	--	--
	10/11/94	11.20	69.33	0.00	--	--	--	--	--	--
	11/10/94	7.25	73.28	0.00	ND	ND	ND	ND	ND	--
	02/07/95	7.76	72.77	0.00	57	0.7	ND	0.86	ND	--
	05/03/95	7.82	72.71	0.00	ND	0.85	0.67	1.3	1.0	--
	08/03/95	9.70	70.83	0.00	91	1.1	ND	ND	ND	--
	11/07/95	10.64	69.89	0.00	130	1.5	0.62	0.71	ND	60 <sup>3</sup>
	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

**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)	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
	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 <sup>18</sup>	9.24	71.29	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
05/15/03 <sup>18</sup>	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	--	--	--	--	--	--
81.61	04/28/93	12.11	69.79	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--	

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**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	11/10/94	12.64	68.97	0.00	ND	ND	ND	ND	ND	--
(cont)	02/07/95	10.29	71.32	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	05/03/95	10.22	71.39	0.00	ND	ND	ND	ND	0.65	--
	08/03/95	11.73	69.88	0.00	--	--	--	--	--	--
	11/07/95	12.98	68.63	0.00	ND	ND	ND	ND	ND	--
	05/06/96	10.90	70.71	0.00	SAMPLING DISCONTINUED <sup>4</sup>		--	--	--	--
	11/05/96	11.96	69.65	0.00	--	--	--	--	--	--
	05/15/97	10.79	70.82	0.00	--	--	--	--	--	--
	11/12/97	10.07	71.54	0.00	--	--	--	--	--	--
	05/04/98	10.01	71.60	0.00	--	--	--	--	--	--
	11/11/98	12.03	69.58	0.00	--	--	--	--	--	--
	05/20/99	10.05	71.56	0.00	--	--	--	--	--	--
	11/15/99	10.16	71.45	0.00	--	--	--	--	--	--
	05/22/00	10.06	71.55	0.00	--	--	--	--	--	--
	11/22/00	10.12	71.49	0.00	--	--	--	--	--	--
	05/15/01	10.08	71.53	0.00	--	--	--	--	--	--
	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	--	--	--	--	--	--
<b>MW-11</b>	02/06/92	--	--	--	ND	ND	ND	ND	ND	--
	05/23/92	--	--	--	ND	ND	ND	ND	ND	--
	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
78.43	12/21/92	12.34	66.09	0.00	--	--	--	--	--	--
	01/30/93	14.17	64.26	0.00	--	--	--	--	--	--
	02/24/93	12.70	65.73	0.00	ND	ND	ND	ND	ND	--
	03/22/93	8.95	69.48	0.00	--	--	--	--	--	--

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

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	04/28/93	13.87	64.56	0.00	--	--	--	--	--	--
(cont)	05/25/93	15.14	63.29	0.00	ND	ND	0.75	ND	1.0	--
78.18	06/23/93	15.08	63.10	0.00	--	--	--	--	--	--
	07/22/93	15.46	62.72	0.00	--	--	--	--	--	--
	08/25/93	14.10	64.08	0.00	ND	ND	ND	ND	ND	--
	09/22/93	15.03	63.15	0.00	--	--	--	--	--	--
	10/28/93	13.84	64.34	0.00	--	--	--	--	--	--
	11/30/93	13.04	65.14	0.00	ND	ND	ND	ND	ND	--
	02/16/94	12.76	65.42	0.00	ND	ND	ND	ND	ND	--
	05/31/94	12.79	65.39	0.00	ND	ND	ND	ND	ND	--
	08/31/94	12.97	65.21	0.00	ND	ND	1.5	ND	1.8	--
	09/27/94	14.88	63.30	0.00	--	--	--	--	--	--
	10/11/94	13.40	64.78	0.00	--	--	--	--	--	--
	11/10/94	13.57	64.61	0.00	ND	ND	ND	ND	ND	--
	02/07/95	12.28	65.90	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	05/03/95	9.28	68.90	0.00	ND	ND	ND	ND	ND	--
	08/03/95	12.67	65.51	0.00	--	--	--	--	--	--
	11/07/95	12.28	65.90	0.00	ND	ND	ND	ND	ND	--
	05/06/96	13.30	64.88	0.00	SAMPLING DISCONTINUED <sup>4</sup>		--	--	--	--
	11/05/96	10.90	67.28	0.00	--	--	--	--	--	--
	05/15/97	11.65	66.53	0.00	--	--	--	--	--	--
	11/12/97	9.66	68.52	0.00	--	--	--	--	--	--
	05/04/98	10.87	67.31	0.00	--	--	--	--	--	--
	11/11/98	11.40	66.78	0.00	--	--	--	--	--	--
NP	05/20/99	10.71	67.47	0.00	ND	ND	ND	ND	ND	ND
	11/15/99	11.32	66.86	0.00	ND	ND	1.04	ND	ND	ND
	05/22/00	10.98	67.20	0.00	ND	ND	ND	ND	ND	ND
	11/22/00	11.17	67.01	0.00	ND	ND	ND	ND	ND	ND
	05/15/01	10.93	67.25	0.00	ND	ND	ND	ND	ND	ND
	11/23/01	11.08	67.10	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	05/24/02	10.58	67.60	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
(cont)	11/29/02 <sup>18</sup>	11.27	66.91	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	05/15/03 <sup>18</sup>	10.25	67.93	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<b>MW-12</b>	08/26/92	--	--	--	ND	ND	ND	ND	ND	--
	11/20/92	--	--	--	ND	ND	ND	ND	ND	--
79.89	12/21/92	12.11	67.78	0.00	--	--	--	--	--	--
	01/30/93	13.18	66.71	0.00	--	--	--	--	--	--
	02/24/93	12.13	67.76	0.00	ND	ND	ND	ND	ND	--
	03/22/93	11.22	68.67	0.00	--	--	--	--	--	--
	04/28/93	13.42	66.47	0.00	--	--	--	--	--	--
	05/25/93	13.68	66.21	0.00	ND	ND	ND	ND	ND	--
79.61	06/23/93	14.56	65.05	0.00	--	--	--	--	--	--
	07/22/93	14.96	64.65	0.00	--	--	--	--	--	--
	08/25/93	13.61	66.00	0.00	ND	ND	ND	ND	ND	--
	09/22/93	15.02	64.59	0.00	--	--	--	--	--	--
	10/28/93	14.04	65.57	0.00	--	--	--	--	--	--
	11/30/93	13.28	66.33	0.00	ND	ND	ND	ND	ND	--
	02/16/94	12.76	66.85	0.00	ND	ND	ND	ND	ND	--
	08/31/94	12.82	66.79	0.00	ND	ND	1.0	ND	1.0	ND
	05/31/94	12.64	66.97	0.00	ND	ND	0.81	ND	0.82	--
	09/27/94	14.66	64.95	0.00	--	--	--	--	--	--
	10/11/94	14.25	65.36	0.00	--	--	--	--	--	--
	11/10/94	13.40	66.21	0.00	ND	ND	ND	ND	ND	--
	02/07/95	11.72	67.89	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	05/03/95	13.38	66.23	0.00	ND	ND	ND	ND	ND	--
	08/03/95	13.47	66.14	0.00	--	--	--	--	--	--
	11/07/95	12.78	66.83	0.00	ND	ND	ND	ND	ND	--
	05/06/96	13.25	66.36	0.00	SAMPLING DISCONTINUED <sup>4</sup>		--	--	--	--
	11/05/96	11.88	67.73	0.00	--	--	--	--	--	--
	05/15/97	11.72	67.89	0.00	--	--	--	--	--	--

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

WELL ID/ TOC* (fL)	DATE	DTW (ft.)	GWE (msl)	Product			E (ppb)	X (ppb)	MTBE (ppb)
				Thickness (ft.)	TPH-G (ppb)	B (ppb)			
MW-12 (cont)	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	--	--	--	--	--
	05/24/02	10.69	68.92	0.00	--	--	--	--	--
	11/29/02	11.23	68.38	0.00	--	--	--	--	--
05/15/03	10.38	69.23	0.00	--	--	--	--	--	
RW-1 81.20  80.63	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	--	--	--	--	--
	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	--	--	--	--	--	



**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)
RW-1	10/15/01	8.43	72.20	0.00	--	--	--	--	--	--
(cont)	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	--	--	--	--	--	--
	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	--	--	--	--	--	--
	<b>06/12/03</b>	<b>8.11</b>	<b>72.52</b>	<b>0.00</b>	--	--	--	--	--	--
	<b>07/07/03</b>	<b>8.13</b>	<b>72.50</b>	<b>0.00</b>	--	--	--	--	--	--
	<b>08/14/03</b>	<b>8.23</b>	<b>72.40</b>	<b>0.00</b>	--	--	--	--	--	--
	<b>09/12/03</b>	<b>8.29</b>	<b>72.34</b>	<b>0.00</b>	--	--	--	--	--	--
<b>Trip Blank</b>										
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

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

WELL ID/ TOC* (fl.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
Trip Blank	11/22/00	--	--	--	ND	ND	ND	ND	ND	ND
(cont)	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 <sup>18</sup>	--	--	--	<50	<0.50	0.75	<0.50	<1.0	<2.0
	05/15/03 <sup>18</sup>	--	--	--	<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	B = Benzene	(ppb) = Parts per billion
(ft.) = Feet	T = Toluene	ND = Not Detected
DTW = Depth to Water	E = Ethylbenzene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation	X = Xylenes	NP = No Purge
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	QA = Quality Assurance/Trip Blank
TPH-G = Total Petroleum Hydrocarbons as Gasoline		

- \* TOC elevations have been surveyed relative to mean sea level (msl) per the City of Oakland Benchmark BM#1336 (Elevation = 82.28 feet msl).  
 Prior to June 7, 1993, DTW measurements were taken from the top of well covers.
- \*\* Groundwater elevation corrected due to the presence of free product; correction factor: [(TOC-DTW)+(Product Thickness x 0.75)].
- 1 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 2 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 3 Laboratory has identified the presence of MTBE at a level greater than or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 4 Sampling discontinued per Alameda County Health Care Services' letter dated January 24, 1996.
- 5 Detection limit raised. Refer to analytical reports.
- 6 Twelve minutes after water/product was bailed, well was monitored again, (DTW = 8.06 ft. and Product Thickness 0.04 ft.).
- 7 MTBE by EPA Method 8260.
- 8 Sample analyzed past hold time (June 9, 1999).
- 9 First run on MTBE by EPA Method 8260 was 92 ppb and analyzed past hold time (June 9, 1999).
- 10 First run on MTBE by EPA Method 8260 was 12 ppb and analyzed past hold time (June 9, 1999).
- 11 Laboratory report indicates gasoline C6-C12.
- 12 MTBE by EPA Method 8260 analyzed outside the EPA recommended holding time.
- 13 Less than 1 ounce of product found in skimmer.
- 14 1.5 ounces of product found in skimmer.
- 15 Laboratory report indicates weathered gasoline C6-C12.
- 16 Skimmer not present in well.
- 17 Skimmer installed/present in well.
- 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	-- <sup>1</sup>
	05/15/97	3.92	-- <sup>1</sup>
	11/12/97	4.16	-- <sup>1</sup>
	05/04/98	3.84	-- <sup>1</sup>
	11/11/98	2.85	-- <sup>1</sup>
	05/20/99	3.30	-- <sup>1</sup>
MW-2	08/19/95	--	2.77
	05/15/97	3.01	-- <sup>1</sup>
	11/12/97	3.27	-- <sup>1</sup>
	05/04/98	3.63	-- <sup>1</sup>
MW-3	08/19/95	--	2.06
	11/07/95	--	1.68
	05/06/96	3.18	3.40
	11/05/96	2.03	-- <sup>1</sup>
	05/15/97	3.08	-- <sup>1</sup>
	05/04/98	2.98	-- <sup>1</sup>
	11/11/98	2.22	-- <sup>1</sup>
	05/20/99	2.60	-- <sup>1</sup>
MW-4	08/19/95	--	2.19
	11/07/95	--	8.43
	05/06/96	3.75	5.97
	11/05/96	2.11	-- <sup>1</sup>
	05/15/97	3.24	-- <sup>1</sup>
	11/12/97	3.11	-- <sup>1</sup>
	05/04/98	3.73	-- <sup>1</sup>
	11/11/98	4.33	-- <sup>1</sup>
	05/20/99	3.90	-- <sup>1</sup>
MW-5	08/19/95	--	2.09
	11/07/95	--	1.79
	05/06/96	2.91	1.80
	11/05/96	1.85	-- <sup>1</sup>
	05/15/97	2.10	-- <sup>1</sup>
	11/12/97	1.98	-- <sup>1</sup>
	05/04/98	1.69	-- <sup>1</sup>
MW-6	05/15/97	2.90	-- <sup>1</sup>
	05/04/98	3.57	-- <sup>1</sup>

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

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

**EXPLANATIONS:**

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

(mg/L) = milligrams per liter

-- = Not Measured

<sup>1</sup> Wells were not purged prior to sampling.

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

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

**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	04/07/03 <sup>7</sup>	8.31	0.02	1.5 oz.	0.00	1.5 oz.
(cont)	05/15/03 <sup>7</sup>	8.58	0.03	3.5 oz. <sup>16</sup>	0.00	3.5 oz.
	06/12/03 <sup>7</sup>	8.63	0.02	2.5 oz. <sup>17</sup>	0.00	2.5 oz.
	07/07/03 <sup>7</sup>	8.59	0.02	1.5 oz. <sup>18</sup>	0.00	1.5 oz.
	08/14/03 <sup>7</sup>	8.65	0.03	2 oz. <sup>19</sup>	0.00	2 oz.
	09/12/03 <sup>7</sup>	8.82	0.03	2 oz. <sup>19</sup>	0.00	2 oz.

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

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**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.
- 17 1 oz. of product found in skimmer and 1.5 oz. of product from well.
- 18 1 oz. of product from well; no product found in skimmer.
- 19 2 oz. of product from well; no product found in skimmer.



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

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

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

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, 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 ConocoPhillips Company, the purge water and decontamination water generated during sampling activities is transported to ConocoPhillips - San Francisco Refinery, located in Rodeo, California.

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

**MONTHLY MONITORING EVENT  
OF June 12 , 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: 6-12-03 (inclusive)  
 Sampler: Joc

Well ID: MW-5  
 Well Diameter: 2 in.  
 Total Depth: 20.16 ft.  
 Depth to Water: 8.63 ft.

Date Monitored: 6-12-03 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: 8.61 ft.  
 Depth to Water: 8.63 ft.  
 Hydrocarbon Thickness: 0.02 ft.  
 Visual Confirmation/Description:  
Dark colored product  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: 1 ounce  
 Amt Removed from Well: 1.5 ounces  
 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: Removed a TOTAL of 2.5 ounces from well & skimmer combined.

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: 6-12-03 (inclusive)  
 Sampler: Soe

Well ID: RW-1  
 Well Diameter: 6 in.  
 Total Depth: 17.38 ft.  
 Depth to Water: 8-11 ft.

Date Monitored: 6-12-03 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: \_\_\_\_\_ 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 ( $\mu$ 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**  
**July 7, 2003**





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063  
 Site Address: 3943 Broadway Event Date: 7-7-03 (inclusive)  
 City: Oakland, CA Sampler: Joe

Well ID: MW-5 Date Monitored: 7-7-03 Well Condition: O.K.  
 Well Diameter: 2 in.  
 Total Depth: 20.16 ft.  
 Depth to Water: 8.59 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: 8.57 ft.  
 Depth to Water: 8.59 ft.  
 Hydrocarbon Thickness: 0.02 ft.  
 Visual Confirmation/Description:  
Dark colored product  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: 0 gal.  
 Amt Removed from Well: 1.5 ounces gal.  
 Product Transferred to: over pack 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: Removed a total of 1.5 ounces of product from well.  
No product found inside skimmer.

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: 7-7-03 (inclusive)  
 City: Oakland, CA Sampler: Joc

Well ID: RW-1 Date Monitored: 7-7-03 Well Condition: o.k.  
 Well Diameter: 6 in.  
 Total Depth: 17.38 ft.  
 Depth to Water: 8.13 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: 7/7/03 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

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

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

**MONTHLY MONITORING EVENT**  
**OF August 14, 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: 8-14-03 (inclusive)  
 Sampler: See

Well ID: MW-5  
 Well Diameter: 2 in.  
 Total Depth: 20.16 ft.  
 Depth to Water: 8.65 ft.

Date Monitored: 8-14-03 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: 8.62 ft.  
 Depth to Water: 8.65 ft.  
 Hydrocarbon Thickness: 0.03 ft.  
 Visual Confirmation/Description:  
Brownish product  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: 2 gal  
 Amt Removed from Well: 2 ounces 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 (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

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

COMMENTS: Removed a total of 2 ounces of product from well. Skimmer

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: 8-14-03 (inclusive)  
 Sampler: JOC

Well ID: RW-1  
 Well Diameter: 6 in.  
 Total Depth: 17.38 ft.  
 Depth to Water: 8.23 ft.

Date Monitored: 8-14-03 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 / 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 (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 September 12, 2003**



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0746 Job Number: 180063  
 Site Address: 3943 Broadway Event Date: 9-12-07 (inclusive)  
 City: Oakland, CA Sampler: SoC

Well ID: MW-5 Date Monitored: 9-12-07 Well Condition: o.k.  
 Well Diameter: 2 in.  
 Total Depth: 20.16 ft.  
 Depth to Water: 8.82 ft.  
 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ 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: 8.79 ft  
 Depth to Water: 8.82 ft  
 Hydrocarbon Thickness: 0.03 ft  
 Visual Confirmation/Description:  
Dark colored product  
 Skimmer Absorbent Sock (circle one)  
 Amt Removed from Skimmer: 2 gal  
 Amt Removed from Well: 2 ounces 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: Removed a total of 2 ounces of product from well.

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: 9-12-03 (inclusive)  
 City: Oakland, CA Sampler: Soc

Well ID: RW-1  
 Well Diameter: 6 in.  
 Total Depth: 17.38 ft.  
 Depth to Water: 8.29 ft.

Date Monitored: 9-12-03 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: \_\_\_\_\_ 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: \_\_\_\_\_