



# GETTLER-RYAN INC.

July 11, 2000  
G-R Job #180105

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

RE: Second Quarter 2000 Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #3292  
15008 East 14th Street  
San Leandro, California

Dear Mr. De Witt:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On May 8, 2000, field personnel monitored and sampled ten wells (MW-1, MW-2, MW-5, MW-7 through MW-11, MW-2(SP), and MW-3(SP)) at the above referenced site. A joint monitoring event was not conducted this quarter.

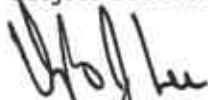
Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations for the referenced site are summarized in Table 1 and Dissolved Oxygen Concentrations are summarized in Table 2. Joint Groundwater Monitoring Data from previous events are summarized in Tables 4 and 5. Oxygenate Compounds are presented in Table 3. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1 and 3. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

  
Deanna L. Harding

Project Coordinator



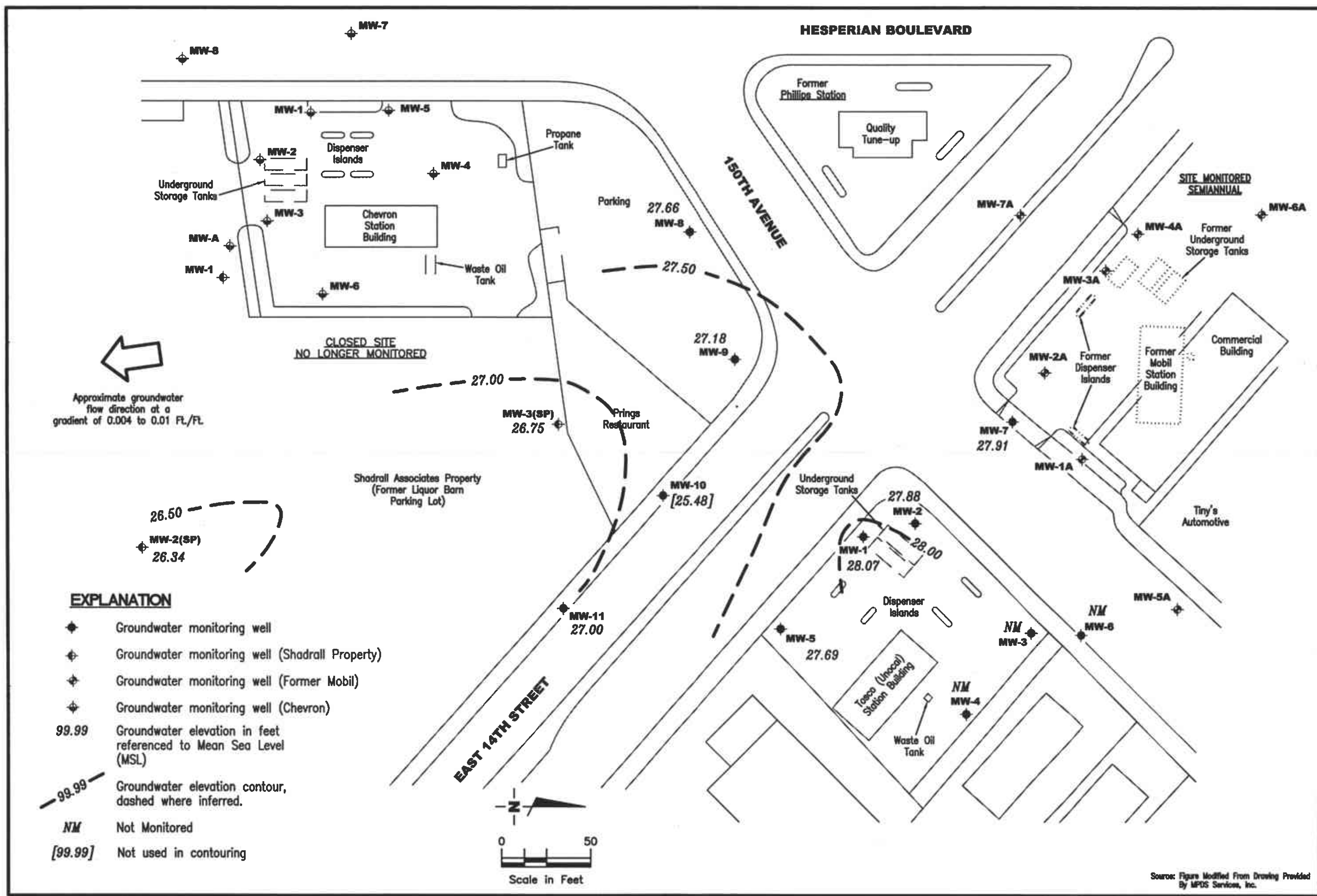
Douglas J. Lee

Project Geologist, R.G. No. 6882



- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Dissolved Oxygen Concentrations
- Table 3: Groundwater Analytical Results - Oxygenate Compounds
- Table 4: Joint Groundwater Monitoring Data - Former Mobil Facility
- Table 5: Joint Groundwater Monitoring Data - Chevron Facility
- Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

3292.qml



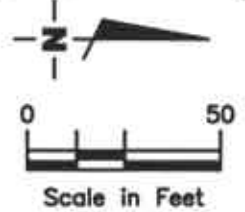
Approximate groundwater flow direction at a gradient of 0.004 to 0.01 FL/FL.

CLOSED SITE  
NO LONGER MONITORED

SITE MONITORED  
SEMIANNUAL

**EXPLANATION**

- ◆ Groundwater monitoring well
- ◆ Groundwater monitoring well (Shadrall Property)
- ◆ Groundwater monitoring well (Former Mobil)
- ◆ Groundwater monitoring well (Chevron)
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 Groundwater elevation contour, dashed where inferred.
- NM Not Monitored
- [99.99] Not used in contouring



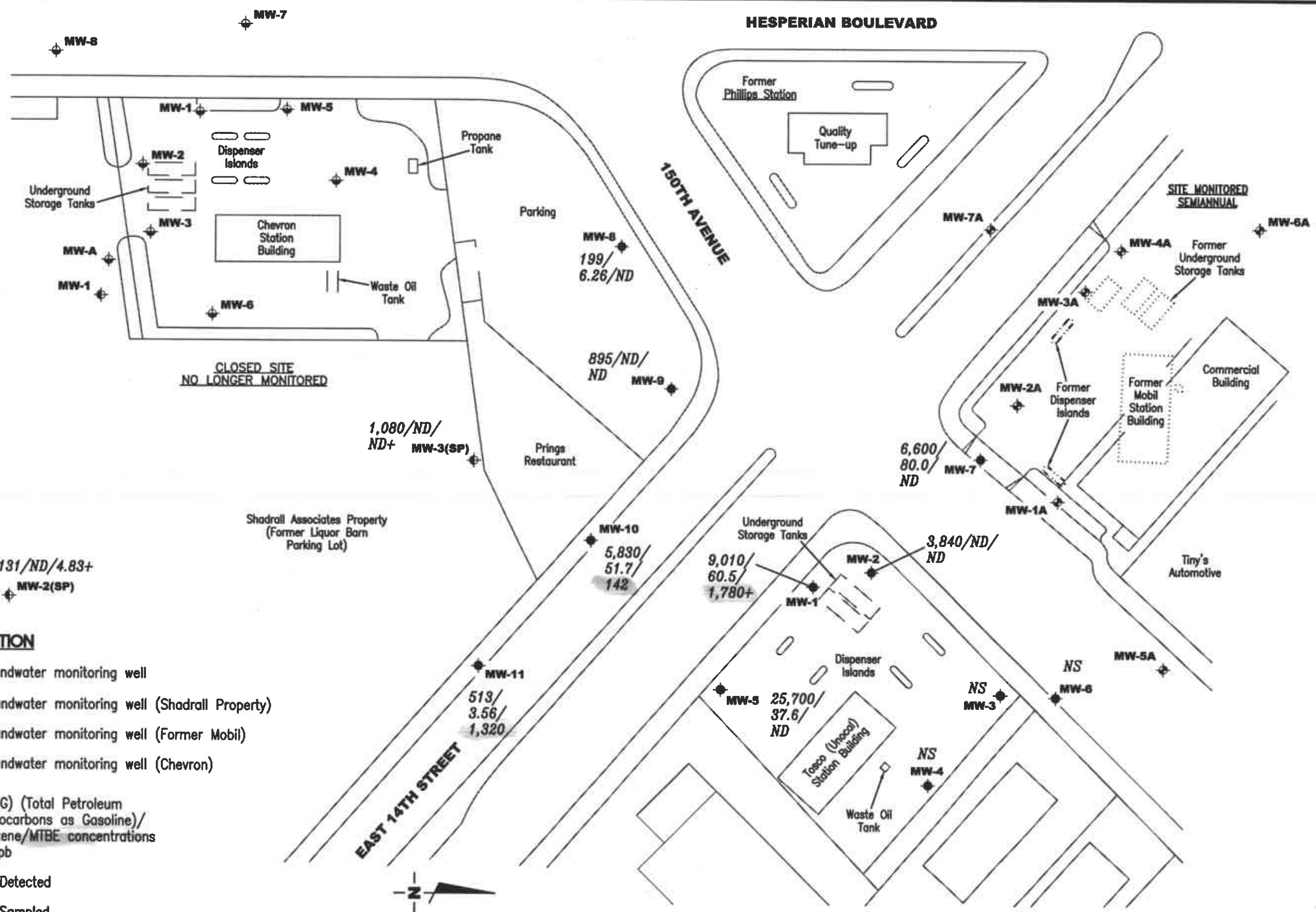
POTENTIOMETRIC MAP  
Tosco (Unocal) Service Station #3292  
15008 East 14th Street  
San Leandro, California

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



JOB NUMBER 180105  
REVIEWED BY  
DATE May 8, 2000  
REVISED DATE  
FILE NAME: P:\DWARF\GSD\3292\G00-3292.DWG | Layout Tab: POT2

Source: Figure Modified From Drawing Provided By MPDS Services, Inc.



**EXPLANATION**

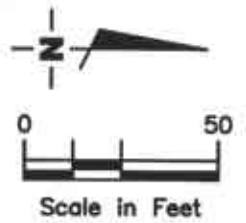
- ◆ Groundwater monitoring well
- ◆ Groundwater monitoring well (Shadrall Property)
- ◆ Groundwater monitoring well (Former Mobil)
- ◆ Groundwater monitoring well (Chevron)

A/B/C TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/ Benzene/MTBE concentrations in ppb

ND Not Detected

NS Not Sampled

+ MTBE by EPA Method 8260



Source: Figure Modified From Drawing Provided By MPDS Services, Inc.

**Gettler - Ryan Inc.**  
 8747 Sierra Ct., Suite J  
 Dublin, CA 94568  
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JOB NUMBER 180105  
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 REVIEWED BY  
 DATE May 8, 2000  
 REVISED DATE

CONCENTRATION MAP  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-1	05/04/91	--	--	31,000	74	20	920	1,500	--	
	09/19/91	--	--	26,000	130	16	1,300	1,800	--	
	12/18/91	--	--	17,000	160	20	1,400	1,600	--	
	03/17/92	--	--	23,000	320	19	1,000	940	--	
	05/19/92	--	--	29,000	650	370	1,100	1,200	--	
	08/20/92	--	--	18,000	230	22	640	950	--	
36.72	09/16/92	13.67	23.05	--	--	--	--	--	--	
	10/12/92	14.07	22.65	--	--	--	--	--	--	
	11/10/92	13.96	22.76	18,000	220	ND	690	830	--	
	12/10/92	13.15	23.57	--	--	--	--	--	--	
	01/15/93	10.02	26.70	--	--	--	--	--	--	
	02/20/93	9.01	27.71	19,000	190	ND	880	620	--	
	03/18/93	9.48	27.24	--	--	--	--	--	--	
	04/20/93	9.15	27.57	--	--	--	--	--	--	
	05/21/93	9.80	26.92	27,000	150	200	1,200	950	--	
	06/22/93	10.33	26.39	--	--	--	--	--	--	
	07/23/93	10.79	25.93	--	--	--	--	--	--	
	08/23/93	11.27	25.45	24,000	160	110	840	810	--	
	36.37	09/24/93	11.35	25.02	--	--	--	--	--	--
		11/23/93	11.84	24.53	18,000	210	63	900	620	--
02/24/94		9.45	26.92	18,000	74	30	940	480	--	
05/25/94 <sup>3</sup>		10.45	25.92	6,400	72	ND	170	67	--	
08/23/94		11.98	24.39	24,000	130	57	970	320	--	
11/23/94		11.17	25.20	23,000	180	44	970	270	--	
02/03/95		8.01	28.36	20,000	77	17	950	390	--	
05/10/95		8.51	27.86	16,000	230	27	880	630	--	
08/02/95		10.00	26.37	18,000	190	ND	860	590	--	
11/02/95		11.11	25.26	--	--	--	--	--	--	
11/20/95 <sup>4</sup>		11.19	25.18	20,000	180	ND	960	450	970	
02/08/96		7.74	28.63	15,000	43	16	940	410	5,200	
05/08/96		8.50	27.87	16,000	37	16	930	410	1,600	
08/09/96		9.72	26.65	2,300	25	ND	77	39	1,200	
11/07/96	10.74	25.63	38,000	140	ND	1,900	5,600	ND		
02/10-11/97	7.92	28.45	7,300	91	ND	170	68	1,700		

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MW-1	05/07/97	9.24	27.13	11,000	120	ND	470	110	1,200
(cont)	08/05/97	10.20	26.17	530 <sup>1</sup>	5.9	ND	5.6	ND	430
	11/04/97	10.71	25.66	4,100	50	7.0	64	14	97
	02/12/98	6.27	30.10	8,500	160	ND <sup>7</sup>	550	ND <sup>7</sup>	1,900
36.34	05/15/98	7.62	28.72	5,600	57	ND <sup>7</sup>	290	ND <sup>7</sup>	1,500
	08/12/98	8.85	27.49	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	5,800
	11/12/98	9.71	26.63	ND <sup>7</sup>	16	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	12,000/13,000 <sup>12</sup>
	03/01/99	7.85	28.49	5,700	43	ND <sup>7</sup>	320	ND <sup>7</sup>	5,000/9,600 <sup>12</sup>
	05/12/99	8.70	27.64	ND <sup>7</sup>	36	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	12,000/21,000 <sup>12</sup>
	08/11/99	9.81	26.53	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	5,760/8,650 <sup>12</sup>
	11/04/99	10.72	25.62	1,640 <sup>11</sup>	11.0	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	3,330/3,630 <sup>18</sup>
	02/29/00	7.31	29.03	195 <sup>19</sup>	ND	ND	ND	ND	580/657 <sup>20</sup>
	<b>05/08/00</b>	<b>8.27</b>	<b>28.07</b>	<b>9,010<sup>17</sup></b>	<b>60.5</b>	<b>ND<sup>7</sup></b>	<b>402</b>	<b>ND<sup>7</sup></b>	<b>2,260/1,780<sup>12</sup></b>
MW-2	05/04/91	--	--	19,000	6.6	1.4	460	630	--
	09/19/91	--	--	19,000	100	6.8	790	310	--
	12/18/91	--	--	10,000	110	5.1	420	96	--
	03/17/92	--	--	16,000	110	ND	730	220	--
	05/19/92	--	--	17,000	140	87	680	170	--
	08/20/92	--	--	13,000	52	ND	660	70	--
36.89	09/16/92	13.80	23.09	--	--	--	--	--	--
	10/12/92	14.19	22.70	--	--	--	--	--	--
	11/10/92	14.06	22.83	11,000	36	7.2	570	45	--
	12/10/92	13.21	23.68	--	--	--	--	--	--
	01/15/93	10.12	26.77	--	--	--	--	--	--
	02/20/93	9.07	27.82	1,500	2.9	3.8	9.1	ND	--
	03/18/93	9.55	27.34	--	--	--	--	--	--
	04/20/93	9.19	27.70	--	--	--	--	--	--
	05/21/93	9.84	27.05	9,500	37	ND	470	62	--
	06/22/93	10.37	26.52	--	--	--	--	--	--
	07/23/93	10.83	26.06	--	--	--	--	--	--
	08/23/93	11.30	25.59	15,000	110	ND	590	64	--
36.34	09/24/93	11.14	25.20	--	--	--	--	--	--

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MW-2 (cont)	11/23/93	11.69	24.65	11,000	80	10	480	20	--	
	02/24/94 <sup>5</sup>	9.27	27.07	11,000	44	ND	580	32	--	
	05/25/94	10.30	26.04	11,000	50	ND	400	22	--	
	08/23/94	11.82	24.52	12,000	45	10	360	20	--	
	11/23/94	10.97	25.37	15,000	61	24	440	ND	--	
	02/03/95	7.87	28.47	9,700	5.7	ND	250	10	--	
	05/10/95	8.38	27.96	7,500	56	4.7	310	33	--	
	08/02/95	9.36	26.98	8,200	53	22	220	25	--	
	11/02/95	10.95	25.39	5,000	56	4.5	170	7.7	110	
	02/08/96	7.52	28.82	7,200	ND	ND	170	ND	ND	
	05/08/96	8.21	28.13	8,400	5.6	9.0	170	10	130	
	08/09/96	9.54	26.80	3,100	24	ND	80	ND	64	
	11/07/96	10.69	25.65	36,000	140	ND	1,900	5,600	ND	
	02/10-11/97	7.75	28.59	4,600	27	ND	53	ND	ND	
	05/07/97	9.14	27.20	5,300	61	ND	78	20	180	
	08/05/97	10.23	26.11	3,100	35	ND	13	ND	58	
	11/04/97	10.65	25.69	1,200	16	ND	11	25	53	
	02/12/98	6.20	30.14	630	12	ND <sup>7</sup>	7.3	ND <sup>7</sup>	48	
	36.30	05/15/98	7.50	28.80	3,600	19	ND <sup>7</sup>	33	ND <sup>7</sup>	72
		08/12/98	8.82	27.48	3,100	44	6.1	15	5.7	270
11/12/98		9.60	26.70	3,200 <sup>13</sup>	44	ND <sup>7</sup>	15	ND <sup>7</sup>	180	
03/01/99		7.81	28.49	3,600	45	6.2	7.5	ND <sup>7</sup>	570	
05/12/99		8.65	27.65	3,100	65	ND <sup>7</sup>	15	17	450	
08/11/99		9.95	26.35	3,260	33.6	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	154	
11/04/99		10.78	25.52	3,160 <sup>11</sup>	38.9	7.10	ND <sup>7</sup>	ND <sup>7</sup>	120	
02/29/00		7.44	28.86	3,770 <sup>11</sup>	13.5	ND <sup>7</sup>	12.0	ND <sup>7</sup>	105	
05/08/00		8.42	27.88	3,840 <sup>11</sup>	ND <sup>7</sup>	ND <sup>7</sup>	9.54	ND <sup>7</sup>	ND <sup>7</sup>	
MW-3		05/04/91	--	--	9,100	2.0	ND	55	180	--
	09/19/91	--	--	7,600	ND	13	190	170	--	
	12/18/91	--	--	5,900	54	6.4	110	64	--	
	03/17/92	--	--	5,800	66	7.5	100	58	--	

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MW-3	05/19/92	--	--	3,400	25	3.6	66	41	--
(cont)	08/20/92	--	--	4,500	58	ND	65	35	--
36.84	09/16/92	13.74	23.10	--	--	--	--	--	--
	10/12/92	14.13	22.71	--	--	--	--	--	--
	11/10/92	14.03	22.81	3,400	37	ND	85	34	--
	12/10/92	13.15	23.69	--	--	--	--	--	--
	01/15/93	10.07	26.77	--	--	--	--	--	--
	02/20/93	9.02	27.82	1,600	12	18	8.9	12	--
	03/18/93	9.50	27.34	--	--	--	--	--	--
	04/20/93	9.02	27.82	--	--	--	--	--	--
	05/21/93	9.70	27.14	2,600	42	ND	43	15	--
	06/22/93	10.28	26.56	--	--	--	--	--	--
	07/23/93	10.74	26.10	--	--	--	--	--	--
	08/23/93	11.24	25.60	2,900	25	ND	50	18	--
36.42	09/24/93	11.20	25.22	--	--	--	--	--	--
	11/23/93	11.78	24.64	2,300	34	ND	24	5.6	--
	02/24/94	9.21	27.21	3,400	46	ND	53	11	--
	05/25/94	10.34	26.08	1,400	20	ND	ND	ND	--
	08/23/94	11.88	24.54	2,900	37	49	14	2.9	--
	11/23/94	10.98	25.44	3,200	48	ND	22	ND	--
	02/03/95	7.82	28.60	780	13	ND	2.1	ND	--
	05/10/95	8.38	28.04	1,300	ND	ND	ND	ND	--
	08/02/95	9.49	26.93	1,500	6.3	ND	16	2.1	--
	11/02/95	11.00	25.42	1,100	5.2	2.1	7.4	0.5	15
	02/08/96	7.41	29.01	450	ND	ND	ND	ND	ND
	05/08/96	8.20	28.22	590	ND	11	10	ND	ND
	08/09/96	9.53	26.89	ND	ND	ND	ND	ND	ND
	11/07/96	10.96	25.46	140	1.2	ND	ND	ND	5.6
	02/10-11/97	7.71	28.71	89	1.8	ND	ND	ND	ND
	05/07/97	9.17	27.25	52 <sup>2</sup>	ND	ND	ND	5.1	5.1
	08/05/97	10.27	26.15	ND	ND	ND	ND	ND	ND
	11/04/97	10.83	25.59	93	1.8	ND	ND	ND	6.2
	02/12/98	6.00	30.42	56	0.59	ND	ND	ND	2.7
36.42	05/15/98	7.42	29.00	130 <sup>8</sup>	0.68	ND	ND	0.63	10

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WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	08/12/98	8.84	27.58	50	ND	ND	ND	ND	ND
(cont)	11/12/98	9.57	26.85	60 <sup>13</sup>	ND	ND	ND	ND	3.8
	03/01/99	8.74	27.68	66	ND	ND	ND	ND	3.2
	05/12/99	8.92	27.50	ND	ND	ND	ND	ND	ND
	08/11/99	10.18	26.24	ND	ND	ND	ND	ND	ND
	11/04/99	11.06	25.36	ND	ND	ND	ND	ND	ND
	02/29/00	NOT MONITORED/SAMPLED			--	--	--	--	--
<b>MW-4</b>	05/04/91	--	--	6,300	ND	ND	2.8	61	--
	09/19/91	--	--	1,800	0.83	ND	54	46	--
	12/18/91	--	--	2,500	28	2.5	54	22	--
	03/17/92	--	--	1,800	3.7	1.4	90	21	--
	05/19/92	--	--	2,000	20	3.5	42	8.3	--
	08/20/92	--	--	1,000	15	ND	11	3.0	--
37.40	09/16/92	14.31	23.09	--	--	--	--	--	--
	10/12/92	14.72	22.68	--	--	--	--	--	--
	11/10/92	14.57	22.83	690	9.1	ND	16	2.8	--
	12/10/92	13.67	23.73	--	--	--	--	--	--
	01/15/93	10.62	26.78	--	--	--	--	--	--
	02/20/93	9.59	27.81	2,400	40	2.1	33	ND	--
	03/18/93	9.97	27.43	--	--	--	--	--	--
	04/20/93	9.67	27.73	--	--	--	--	--	--
	05/21/93	10.32	27.08	1,900	31	ND	20	4.5	--
	06/22/93	10.91	26.49	--	--	--	--	--	--
	07/23/93	11.38	26.02	--	--	--	--	--	--
	08/23/93	11.86	25.54	1,200	5.0	ND	16	ND	--
37.04	09/24/93	11.85	25.19	--	--	--	--	--	--
	11/23/93	12.44	24.60	720	10	ND	8.7	ND	--
	02/24/94	9.89	27.15	1,300	8.9	ND	20	ND	--
	05/25/94	11.02	26.02	1,700	22	ND	4.5	ND	--
	08/23/94	12.57	24.47	690	9.2	1.3	7.1	1.9	--
	11/23/94	11.65	25.39	420	5.0	1.1	4.2	1.2	--
	02/03/95	8.52	28.52	620	6.4	ND	9.3	ND	--



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 Tosco (Unocal) Service Station #3292  
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WELL ID/ TOC*	DATE	DTW (ft.)	GWE (mst)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	05/10/95	9.97	27.07	280	2.8	ND	2.7	2.4	--
(cont)	08/02/95	10.18	26.86	290	3.6	ND	2.8	ND	--
	11/02/95	11.67	25.37	42,000	390	210	2,800	6,300	270
	02/08/96	8.15	28.89	130	2.1	ND	1.5	0.69	ND
	05/08/96	INACCESSIBLE	--	--	--	--	--	--	--
	08/09/96	10.24	26.80	ND	ND	ND	ND	ND	ND
	11/07/96	11.58	25.46	ND	ND	ND	ND	ND	ND
	02/10-11/97	8.45	28.59	ND	ND	ND	ND	ND	ND
	05/07/97	9.85	27.19	ND	ND	ND	ND	ND	ND
	08/05/97	11.04	26.00	50	0.76	ND	ND	ND	ND
	11/04/97	11.46	25.58	ND	ND	ND	ND	ND	ND
	02/12/98	5.75	31.29	ND	ND	ND	ND	ND	ND
37.04	05/15/98	7.28	29.76	ND	ND	ND	ND	ND	ND
	08/12/98	9.85	27.19	ND	ND	ND	ND	ND	ND
	11/12/98	10.28	26.76	ND	ND	ND	ND	ND	ND
	03/01/99	8.51	28.53	ND	ND	ND	ND	ND	ND
	05/12/99	9.32	27.72	ND	ND	ND	ND	ND	ND
	08/11/99	10.65	26.39	ND	ND	ND	ND	ND	ND
	11/04/99	11.48	25.56	ND	ND	ND	ND	ND	ND
	02/29/00	NOT MONITORED/SAMPLED			--	--	--	--	--
MW-5	05/04/91	--	--	69,000	1,400	2,500	3,500	15,000	--
	09/19/91	--	--	57,000	1,600	2,700	5,200	20,000	--
	12/18/91	--	--	31,000	1,600	3,100	4,800	19,000	--
	03/17/92	--	--	81,000	850	1,600	4,800	18,000	--
	05/19/92	--	--	84,000	760	1,500	4,000	17,000	--
	08/20/92	--	--	58,000	660	1,700	4,200	19,000	--
36.40	09/16/92	13.37	23.03	--	--	--	--	--	--
	10/12/92	13.75	22.65	--	--	--	--	--	--
	11/10/92	13.68	22.72	57,000	800	1,800	4,400	18,000	--
	12/10/92	12.58	23.82	--	--	--	--	--	--
	01/15/93	9.71	26.69	--	--	--	--	--	--
	02/20/93	8.69	27.71	17,000	75	ND	1,000	620	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	03/18/93	9.16	27.24	--	--	--	--	--	--
(cont)	04/20/93	8.88	27.52	--	--	--	--	--	--
	05/21/93	9.56	26.84	55,000	ND	160	3,500	12,000	--
	06/22/93	10.05	26.35	--	--	--	--	--	--
	07/23/93	10.53	25.87	--	--	--	--	--	--
	08/23/93	10.98	25.42	61,000	340	380	3,600	14,000	--
35.94	09/24/93	10.94	25.00	--	--	--	--	--	--
	11/23/93	11.45	24.49	46,000	290	310	4,100	15,000	--
	02/24/94	9.02	26.92	57,000	140	400	4,400	16,000	--
	05/25/94	10.03	25.91	53,000	ND	ND	4,000	14,000	--
	08/23/94	11.57	24.37	61,000	360	380	4,800	17,000	--
	11/23/94	10.71	25.23	46,000	230	260	3,900	14,000	--
	02/03/95	7.69	28.25	56,000	140	330	3,500	13,000	--
	05/10/95	8.20	27.74	27,000	160	170	2,200	5,200	--
	08/02/95	9.23	26.71	65,000	260	300	3,500	12,000	--
	11/02/95	10.70	25.24	240	0.76	ND	1.1	ND	ND
	02/08/96	7.36	28.58	54,000	210	150	3,400	12,000	170
	05/08/96	8.25	27.69	52,000	170	200	3,600	11,000	170
	08/09/96	9.37	26.57	25,000	54	16	1,700	4,700	ND
	11/07/96	10.65	25.29	2,100	42	ND	9.3	ND	2,300
	02/10-11/97	7.63	28.31	15,000	46	29	1,400	4,100	ND
	05/07/97	8.98	26.96	38,000	120	ND	2,000	5,100	380
	08/05/97	11.08	24.86	310	1.0	ND	17	40	ND
	11/04/97	10.72	25.22	20,000	ND	ND	1,500	2,800	280
	02/12/98	6.08	29.86	33,000	120	ND <sup>7</sup>	1,700	3,800	ND <sup>7</sup>
35.92	05/15/98	7.40	28.52	30,000	ND <sup>7</sup>	ND <sup>7</sup>	2,200	4,900	ND <sup>7</sup>
	08/12/98	8.69	27.23	24,000	100	ND <sup>7</sup>	ND <sup>7</sup>	3,400	1,000
	11/12/98	9.48	26.44	13,000 <sup>13</sup>	65	ND <sup>7</sup>	1,100	1,400	780
	03/01/99	7.54	28.38	29,000	75	ND <sup>7</sup>	2,000	4,100	690
	05/12/99	8.48	27.44	19,000	110	ND <sup>7</sup>	990	1,900	330

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**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	08/11/99	9.74	26.18	24,300	ND <sup>7</sup>	ND <sup>7</sup>	1,540	1,740	ND <sup>7</sup>
(cont)	11/04/99	10.56	25.36	19,500 <sup>17</sup>	37.1	ND <sup>7</sup>	1,300	1,030	ND <sup>7</sup>
	02/29/00	7.19	28.73	--	--	--	--	--	--
	05/08/00	8.23	27.69	25,700 <sup>11</sup>	37.6	ND <sup>7</sup>	2,020	3,500	ND <sup>7</sup>
MW-6	05/19/92	--	--	1,300	2.0	2.1	ND	2.7	--
	08/20/92	--	--	280	8.4	ND	0.51	0.84	--
36.03	09/16/92	12.91	23.12	--	--	--	--	--	--
	10/12/92	13.28	22.75	--	--	--	--	--	--
	11/10/92	13.18	22.85	490	7.0	1.2	1.7	ND	--
	12/10/92	12.33	23.70	--	--	--	--	--	--
	01/15/93	9.25	26.78	--	--	--	--	--	--
	02/20/93	8.24	27.79	2,400	43	ND	33	2.0	--
	03/18/93	8.74	27.29	--	--	--	--	--	--
	04/20/93	8.12	27.91	--	--	--	--	--	--
	05/21/93	8.83	27.20	940	18	1.0	7.1	2.7	--
	06/22/93	9.38	26.65	--	--	--	--	--	--
	07/23/93	9.87	26.16	--	--	--	--	--	--
	08/23/93	10.35	25.68	1,000	9.4	2.3	5.0	2.3	--
35.67	09/24/93	10.34	25.33	--	--	--	--	--	--
	11/23/93	10.96	24.71	520	ND	1.7	1.9	0.82	--
	02/24/94 <sup>5</sup>	8.39	27.28	810	12	ND	2.6	0.77	--
	05/25/94	9.55	26.12	500	11	ND	ND	0.73	--
	08/23/94	10.97	24.70	570	8.8	2.5	3.2	2.6	--
	11/23/94	10.21	25.46	460	6.4	1.1	1.9	1.1	--
	02/03/95	6.99	28.68	660	4.8	13	1.4	ND	--
	05/10/95	7.53	28.14	470	ND	0.65	1.4	0.67	--
	08/02/95	8.68	26.99	360	3.2	ND	1.6	ND	--
	11/02/95	10.20	25.47	470	ND	0.92	0.89	0.58	5.5
	02/08/96	6.66	29.01	450	3.1	ND	1.1	0.68	ND
	05/08/96	7.40	28.27	ND	ND	ND	ND	ND	ND
	08/09/96	8.72	26.95	ND	ND	ND	ND	ND	ND
	11/07/96	10.12	25.55	ND	ND	ND	ND	ND	ND

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**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (mst)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-6 (cont)	02/10-11/97	6.88	28.79	ND	ND	ND	ND	ND	ND	
	05/07/97	8.32	27.35	ND	ND	1.1	ND	ND	ND	
	08/05/97	9.64	26.03	55	0.79	ND	ND	ND	ND	
	11/04/97	10.30	25.37	ND	ND	ND	ND	ND	ND	
	02/12/98	5.10	30.57	ND	ND	ND	ND	ND	ND	
	35.68	05/15/98	6.61	29.07	ND	ND	ND	ND	ND	ND
		08/12/98	8.02	27.66	ND	ND	ND	ND	ND	ND
		11/12/98	8.74	26.94	ND	ND	ND	ND	ND	ND
		03/01/99	7.22	28.46	ND	ND	ND	ND	ND	ND
		05/12/99	8.05	27.63	ND	ND	ND	ND	ND	ND
08/11/99		9.53	26.15	ND	ND	ND	ND	ND	ND	
11/04/99		10.44	25.24	ND	ND	ND	ND	ND	ND	
02/29/00	NOT MONITORED/SAMPLED			--	--	--	--	--	--	
MW-7	05/19/92	--	--	17,000	540	90	1,200	1,900	--	
	08/20/92	--	--	13,000	460	54	ND	3,100	--	
36.40	09/16/92	13.23	23.17	--	--	--	--	--	--	
	10/12/92	13.65	22.75	--	--	--	--	--	--	
	11/10/92	13.54	22.86	1,800	74	ND	230	350	--	
	12/10/92	12.52	23.88	--	--	--	--	--	--	
	01/15/93	9.59	26.81	--	--	--	--	--	--	
	02/20/93	8.55	27.85	1,800	37	4.6	11	7.7	--	
	03/18/93	8.98	27.42	--	--	--	--	--	--	
	04/20/93	8.52	27.88	--	--	--	--	--	--	
	05/21/93	9.16	27.24	22,000	330	37	2,100	2,900	--	
	06/22/93	9.66	26.74	--	--	--	--	--	--	
36.09	07/23/93	10.15	26.25	--	--	--	--	--	--	
	08/23/93	10.65	25.75	33,000	360	ND	2,500	4,300	--	
	09/24/93	10.77	25.32	--	--	--	--	--	--	
	11/23/93	11.28	24.81	19,000	310	30	2,500	2,300	--	
	02/24/94 <sup>5</sup>	8.95	27.14	16,000	220	19	2,400	3,200	--	
	05/25/94	10.00	26.09	14,000	200	ND	1,500	1,800	--	
	08/23/94	11.43	24.66	19,000	210	50	2,000	2,800	--	

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**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	11/23/94	10.69	25.40	10,000	220	ND	1,000	730	--
(cont)	02/03/95	7.49	28.60	26,000	170	ND	2,300	3,700	--
	05/10/95	7.88	28.21	1,300	13	1.5	170	230	--
	08/02/95	9.02	27.07	15,000	200	ND	2,200	2,000	--
	11/02/95	10.55	25.54	18,000	190	9.4	2,100	2,200	72
	02/08/96	7.13	28.96	19,000	150	ND	2,100	3,000	ND
	05/08/96	7.11	28.98	13,000	130	18	1,900	1,600	85
	08/09/96	9.07	27.02	11,000	67	ND	1,700	1,800	ND
	11/07/96	10.76	25.33	32,000	160	ND	3,300	8,400	570
	02/10-11/97	7.22	28.87	7,100	55	ND	ND	620	ND
	05/07/97	8.47	27.62	6,000	74	ND	560	330	250
	08/05/97	10.25	25.84	5,000	66	ND	420	240	ND
	11/04/97	10.69	25.40	20,000	67	ND	2,300	4,300	430
	02/12/98	5.02	31.07	5,500	95	ND <sup>7</sup>	150	110	ND <sup>7</sup>
36.06	05/15/98	6.98	29.08	1,300	ND <sup>7</sup>	ND <sup>7</sup>	69	64	88
	08/12/98	8.42	27.64	1,400	12	2.3	67	ND <sup>7</sup>	30
	11/12/98	9.10	26.96	6,300 <sup>13</sup>	63	ND <sup>7</sup>	230	100	ND <sup>7</sup>
	03/01/99	7.14	28.92	1,000	24	ND <sup>7</sup>	23	26	39
	05/12/99	8.07	27.99	4,700	79	ND <sup>7</sup>	120	210	210
	08/11/99	9.44	26.62	4,700 <sup>17</sup>	61.6	ND <sup>7</sup>	58.2	23.6	187
	11/04/99	10.38	25.68	5,980 <sup>11</sup>	56.3	ND <sup>7</sup>	44.5	21.2	194
	02/29/00	7.06	29.00	--	--	--	--	--	--
	05/08/00	8.15	27.91	6,600 <sup>11</sup>	80.0	ND <sup>7</sup>	99.6	66.5	ND <sup>7</sup>
MW-8	05/19/92	--	--	5,300	28	3.3	2.6	2.1	--
	08/20/92	--	--	3,500 <sup>1</sup>	67	11	ND	ND	--
37.14	09/16/92	14.13	23.01	--	--	--	--	--	--
	10/12/92	14.51	22.63	--	--	--	--	--	--
	11/10/92	14.46	22.68	1,800	20	ND	ND	ND	--
	12/10/92	13.51	23.63	--	--	--	--	--	--
	01/15/93	10.50	26.64	--	--	--	--	--	--
	02/20/93	9.50	27.64	2,200	32	ND	42	5.0	--
	03/18/93	9.89	27.25	--	--	--	--	--	--

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WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	04/20/93	9.91	27.23	--	--	--	--	--	--
(cont)	05/21/93	10.40	26.74	2,500	44	ND	ND	ND	--
	06/22/93	10.86	26.28	--	--	--	--	--	--
	07/23/93	11.29	25.85	--	--	--	--	--	--
	08/23/93	11.76	25.38	280 <sup>1</sup>	49	4.5	ND	ND	--
36.89	09/24/93	12.00	24.89	--	--	--	--	--	--
	11/23/93	12.38	24.51	1,800	ND	3.4	ND	ND	--
	02/24/94	10.44	26.45	1,200	10	2.3	ND	3.2	--
	05/25/94	11.12	25.77	14,000	29	ND	ND	ND	--
	08/23/94	12.61	24.28	3,200	46	18	2.0	7.2	--
	11/23/94	11.98	24.91	1,700	34	ND	ND	3.1	--
	02/03/95	9.16	27.73	800	6.1	ND	ND	ND	--
	05/10/95	9.35	27.54	1,400	15	1.5	0.65	0.84	--
	08/02/95	10.40	26.49	690	8.3	1.9	ND	ND	--
	11/02/95	11.80	25.09	1,200	ND	1.9	0.56	ND	6.4
	02/08/96	8.98	27.91	--	--	--	--	--	--
	02/14/96 <sup>6</sup>	9.24	27.65	650	9.0	1.2	ND	0.52	ND
	05/08/96	9.46	27.43	1,200	0.7	35	2.2	3.0	ND
	08/09/96	10.47	26.42	350	ND	12	0.81	0.95	ND
	11/07/96	11.71	25.18	1,000	23	ND	ND	ND	ND
	02/10-11/97	8.84	28.05	630	13	ND	ND	8.1	ND
	05/07/97	10.12	26.77	1,200 <sup>1</sup>	26	3.4	ND	20	20
	08/05/97	11.26	25.63	590 <sup>1</sup>	9.8	ND	ND	ND	ND
	11/04/97	11.58	25.31	640	14	1.9	5.7	11	ND
	02/12/98	7.34	29.55	770 <sup>8</sup>	20	3.0	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
36.87	05/15/98	8.67	28.20	840 <sup>8</sup>	10	ND <sup>7</sup>	ND <sup>7</sup>	3.1	ND <sup>7</sup>
	08/12/98	9.78	27.09	240 <sup>10</sup>	0.75	ND	ND	ND	ND
	11/12/98	10.62	26.25	300	14	2.0	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	03/01/99	9.02	27.85	1,100	22	4.6	2.1	4.9	12
	05/12/99	9.65	27.22	650	17	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>

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MW-8	08/11/99	10.85	26.02	168	6.68	ND	0.544	ND	ND
(cont)	11/04/99	11.72	25.15	1,010 <sup>11</sup>	15.8	2.28	ND <sup>7</sup>	ND <sup>7</sup>	16.2
	02/29/00	8.25	28.62	--	--	--	--	--	--
	<b>05/08/00</b>	<b>9.21</b>	<b>27.66</b>	<b>199<sup>19</sup></b>	<b>6.26</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>MW-9</b>	05/19/92	--	--	8,100	11	ND	25	5.8	--
	08/20/92	--	--	3,800 <sup>1</sup>	37	ND	ND	ND	--
36.92	09/16/92	13.90	23.02	--	--	--	--	--	--
	10/12/92	14.28	22.64	--	--	--	--	--	--
	11/10/92	14.22	22.70	4,200	ND	ND	21	23	--
	12/10/92	13.40	23.52	--	--	--	--	--	--
	01/15/93	10.24	26.68	--	--	--	--	--	--
	02/20/93	9.22	27.70	2,300	47	ND	32	ND	--
	03/18/93	9.55	27.37	--	--	--	--	--	--
	04/20/93	9.62	27.30	--	--	--	--	--	--
	05/21/93	10.16	26.76	3,200	32	ND	8.1	ND	--
	06/22/93	10.62	26.30	--	--	--	--	--	--
	07/23/93	11.07	25.85	--	--	--	--	--	--
	08/23/93	11.54	25.38	3,000	29	ND	ND	ND	--
36.29	09/24/93	11.18	25.11	--	--	--	--	--	--
	11/23/93	11.80	24.49	2,500	23	2.1	ND	ND	--
	02/24/94	9.74	26.55	2,900	35	ND	ND	ND	--
	05/25/94	10.48	25.81	ND	ND	ND	ND	ND	--
	08/23/94	11.99	24.30	2,800	28	32	ND	ND	--
	11/23/94	11.31	24.98	2,000	24	2.2	2.2	2.5	--
	02/03/95	8.45	27.84	2,100	26	2.5	ND	ND	--
	05/10/95	8.70	27.59	1,700	0.81	2.2	1.0	1.4	--
	08/02/95	9.75	26.54	1,900	26	6.6	ND	3.9	--
	11/02/95	11.16	25.13	1,600	ND	1.3	ND	ND	11
	02/08/96	8.15	28.14	1,900	ND	ND	ND	ND	ND
	05/08/96	8.75	27.54	1,700	1.9	22	1.7	2.7	ND
	08/09/96	9.84	26.45	200	ND	4.5	ND	0.58	ND
	11/07/96	11.10	25.19	920	24	ND	ND	ND	ND

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MW-9	02/10-11/97	8.15	28.14	580	14	2.4	ND	ND	16
(cont)	05/07/97	9.45	26.84	810	11	3.9	1.7	9.9	13
	08/05/97	10.70	25.59	850 <sup>1</sup>	21	ND	ND	ND	33
	11/04/97	11.05	25.24	730	11	ND	5.1	11	ND
	02/12/98	6.60	29.69	820 <sup>8</sup>	23	3.2	ND <sup>7</sup>	ND <sup>7</sup>	18
36.27	05/15/98	8.01	28.26	390	5.5	1.2	ND	13	13
	08/12/98	9.18	27.09	780	14	ND	0.52	ND	12
	11/12/98	9.91	26.36	180	6.3	ND	ND	0.62	8.1
	03/01/99	8.34	27.93	790 <sup>8</sup>	24	ND	ND	1.7	32
	05/12/99	9.04	27.23	930 <sup>16</sup>	13	2.2	1.2	1.5	10
	08/11/99	10.25	26.02	1,120	19.7	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	11/04/99	11.10	25.17	756 <sup>11</sup>	14.2	1.94	ND <sup>7</sup>	ND <sup>7</sup>	22.8
	02/29/00	8.12	28.15	955 <sup>19</sup>	22.9	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
	05/08/00	9.09	27.18	895 <sup>19</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>
MW-10	08/20/92	--	--	15,000	230	ND	1,000	350	--
36.26	09/16/92	13.28	22.98	--	--	--	--	--	--
	10/12/92	13.67	22.59	--	--	--	--	--	--
	11/10/92	13.59	22.67	15,000	300	42	3,500	330	--
	12/10/92	12.53	23.73	--	--	--	--	--	--
	01/15/93	9.60	26.66	--	--	--	--	--	--
	02/20/93	8.57	27.69	17,000	74	ND	1,000	620	--
	03/18/93	9.03	27.23	--	--	--	--	--	--
	04/20/93	9.09	27.17	--	--	--	--	--	--
	05/21/93	9.63	26.63	23,000	250	ND	3,000	240	--
	06/22/93	10.12	26.14	--	--	--	--	--	--
	07/23/93	10.54	25.72	--	--	--	--	--	--
	08/23/93	10.99	25.27	20,000	230	13	3,200	140	--
36.04	09/24/93	11.17	24.87	--	--	--	--	--	--
	11/23/93	11.67	24.37	18,000	300	10	2,800	110	--
	02/24/94	9.57	26.47	15,000	330	19	2,000	83	--
	05/25/94	10.32	25.72	14,000	240	ND	230	62	--
	08/23/94	11.81	24.23	16,000	250	41	1,800	74	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #3292  
15008 East 14th Street  
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (mst)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	11/23/94	11.10	24.94	16,000	260	ND	1,600	49	--
(cont)	02/03/95	8.32	27.72	17,000	310	ND	1,500	93	--
	05/10/95	8.70	27.34	12,000	260	16	1,200	54	--
	08/02/95	9.55	26.49	8,900	240	ND	780	40	--
	11/02/95	11.03	25.01	9,300	190	ND	470	1.7	110
	02/08/96	8.05	27.99	9,700	170	ND	440	ND	ND
	05/08/96	8.70	27.34	7,100	100	ND	240	ND	43
	08/09/96	9.76	26.28	4,400	59	7.5	110	6.5	73
	11/07/96	10.92	25.12	6,300	65	ND	110	ND	130
	02/10-11/97	8.10	27.94	6,800	91	ND	100	ND	210
	05/07/97	9.28	26.76	4,800	76	ND	50	ND	160
	08/05/97	10.51	25.53	4,200	52	ND	40	ND	81
	11/04/97	11.02	25.02	4,500	49	ND	63	ND	84
	02/12/98	6.85	29.19	6,200	98	ND <sup>7</sup>	91	ND <sup>7</sup>	420
36.02	05/15/98	8.05	27.97	7,200	84	ND <sup>7</sup>	84	ND <sup>7</sup>	260
	08/12/98	9.27	26.75	7,500	6.9	11	47	ND <sup>7</sup>	130
	11/12/98	10.03	25.99	4,200 <sup>13</sup>	23	ND <sup>7</sup>	24	ND <sup>7</sup>	130
	03/01/99	8.56	27.46	5,900 <sup>8</sup>	37	ND <sup>7</sup>	50	26	300
	05/12/99	8.92	27.10	7,400 <sup>16</sup>	37	ND <sup>7</sup>	32	ND <sup>7</sup>	170
	08/11/99	10.10	25.92	5,060	38.1	ND <sup>7</sup>	12.9	ND <sup>7</sup>	75.5
	11/04/99	11.03	24.99	6,190 <sup>11</sup>	76.7	8.01	13.4	ND <sup>7</sup>	234
	02/29/00	9.67	26.35	7,120 <sup>11</sup>	27.8	ND <sup>7</sup>	24.7	ND <sup>7</sup>	208
	<b>05/08/00</b>	<b>10.54</b>	<b>25.48</b>	<b>5,830<sup>11</sup></b>	<b>51.7</b>	<b>10.6</b>	<b>24.7</b>	<b>24.8</b>	<b>142</b>
MW-11	08/20/92	--	--	4,600 <sup>1</sup>	62	ND	ND	54	--
35.83	09/16/92	12.93	22.90	--	--	--	--	--	--
	10/12/92	13.30	22.53	--	--	--	--	--	--
	11/10/92	13.20	22.63	5,800	130	ND	260	42	--
	12/10/92	12.24	23.59	--	--	--	--	--	--
	01/15/93	9.23	26.60	--	--	--	--	--	--
	02/20/93	8.20	27.63	18,000	76	ND	1,000	630	--
	03/18/93	8.77	27.06	--	--	--	--	--	--
	04/20/93	8.86	26.97	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	05/21/93	9.40	26.43	7,100	64	ND	340	120	--
(cont)	06/22/93	9.87	25.96	--	--	--	--	--	--
	07/23/93	10.29	25.54	--	--	--	--	--	--
	08/23/93	10.73	25.10	5,400	68	ND	230	43	--
35.50	09/24/93	10.83	24.67	--	--	--	--	--	--
	11/23/93	11.28	24.22	3,400	105	ND	120	43	--
	02/24/94	9.20	26.30	4,600	170	ND	140	36	--
	05/25/94	9.94	25.56	1,400	49	ND	26	ND	--
	08/23/94	11.39	24.11	7,300	250	13	150	42	--
	11/23/94	10.67	24.83	5,800	250	10	120	22	--
	02/03/95	8.02	27.48	4,400	110	ND	150	37	--
	05/10/95	8.36	27.14	4,200	120	ND	170	38	--
	08/02/95	9.31	26.19	4,200	110	ND	110	22	--
	11/02/95	10.85	24.65	6,100	150	ND	78	6.8	6,200
	02/08/96	7.76	27.74	--	--	--	--	--	--
	02/14/96 <sup>6</sup>	8.18	27.32	3,100	60	ND	98	ND	4,000
	05/08/96	8.50	27.00	3,500	120	ND	160	ND	6,400
	08/09/96	9.46	26.04	1,100	42	ND	15	ND	4,300
	11/07/96	10.58	24.92	2,900	57	ND	13	ND	3,400
	02/10-11/97	7.88	27.62	600	9.5	ND	ND	ND	3,100
	05/07/97	9.07	26.43	1,900	45	ND	31	ND	2,400
	08/05/97	10.23	25.27	2,100	35	ND	24	ND	1,800
	11/04/97	10.51	24.99	98	1.6	ND	ND	ND	ND
	02/12/98	6.59	28.91	670	12	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	1,400
35.50	05/15/98	7.73	27.77	1,200 <sup>9</sup>	7.9	ND <sup>7</sup>	30	ND <sup>7</sup>	1,600
	08/12/98	8.85	26.65	1,600 <sup>11</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	2,000
	11/12/98	9.52	25.98	1,700 <sup>13</sup>	9.3	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	1,700
	03/01/99	8.00	27.50	530	4.9	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	870
	05/12/99	8.64	26.86	900	6.6	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	840
	08/11/99	9.92	25.58	1,660	5.52	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	764

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	11/04/99	10.88	24.62	2,600 <sup>11</sup>	8.71	ND <sup>7</sup>	2.76	ND <sup>7</sup>	1,490
(cont)	02/29/00	7.56	27.94	420 <sup>19</sup>	ND	ND	ND	ND	1,010
	<b>05/08/00</b>	<b>8.50</b>	<b>27.00</b>	<b>513<sup>11</sup></b>	<b>3.56</b>	<b>ND<sup>7</sup></b>	<b>1.11</b>	<b>ND<sup>7</sup></b>	<b>1,320<sup>21</sup></b>
<b>MW-2(SP)</b>									
35.44	05/08/96	9.12	26.32	540	0.68	21	1.0	1.7	ND
	08/09/96	9.98	25.46	170	ND	7.8	ND	ND	ND
	11/07/96	10.98	24.46	430	8.9	1.5	ND	ND	10
	02/10-11/97	8.63	26.81	230 <sup>2</sup>	4.6	1.0	ND	ND	10
	05/07/97	9.58	25.86	ND	ND	ND	ND	ND	14
	08/05/97	10.62	24.82	360	5.5	50	ND	ND	ND
	11/04/97	11.06	24.38	280	2.9	13	ND	0.54	ND
	02/12/98	7.71	27.73	440 <sup>8</sup>	10	1.6	ND	0.69	13
	05/15/98	8.50	26.94	540 <sup>8</sup>	10	1.1	ND	1.1	15
	08/12/98	9.43	26.01	ND	ND	ND	ND	ND	ND
	11/12/98	9.98	25.46	300 <sup>14</sup>	6.1	ND <sup>7</sup>	ND <sup>7</sup>	4.0	ND <sup>7</sup>
	03/01/99	8.70	26.74	57	ND	ND	ND	ND	4.5
	05/12/99	9.45	25.99	ND	ND	ND	ND	ND	5.0
	08/11/99	10.08	25.36	337	ND	ND	ND	ND	12.4
	11/04/99	10.91	24.53	317 <sup>11</sup>	8.31	ND	ND	ND	7.81
	02/29/00	8.04	27.40	--	--	--	--	--	--
	<b>05/08/00</b>	<b>9.10</b>	<b>26.34</b>	<b>131<sup>19</sup></b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND/4.83<sup>12</sup></b>
<b>MW-3(SP)</b>									
35.81	05/08/96	8.73	27.08	4,700	7.9	36	13	4.0	42
	08/09/96	9.73	26.08	2,000	ND	14	7.6	ND	ND
	11/07/96	10.88	24.93	1,800	29	ND	ND	ND	40
	02/10-11/97	8.16	27.65	3,500	70	14	ND	ND	150
	05/07/97	9.35	26.46	3,100	48	ND	ND	ND	110
	08/05/97	10.44	25.37	3,200	43	5.7	ND	ND	61

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (mst)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3(SP)	11/04/97	10.90	24.91	2,600	34	ND	ND	ND	53
(cont)	02/12/98	6.77	29.04	3,200	62	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	100
35.82	05/15/98	8.02	27.80	ND	ND	ND	ND	ND	2.5
	08/12/98	9.11	26.71	110	ND	4.1	ND	ND <sup>7</sup>	ND
	11/12/98	9.81	26.01	1,800 <sup>15</sup>	37	2.8	ND <sup>7</sup>	ND <sup>7</sup>	55
	03/01/99	8.27	27.55	2,900 <sup>8</sup>	12	3.6	ND <sup>7</sup>	ND <sup>7</sup>	110
	05/12/99	8.92	26.90	4,100 <sup>16</sup>	34	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	45
	08/11/99	9.59	26.23	3,220	22.8	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	50.8
	11/04/99	10.86	24.96	2,460 <sup>11</sup>	26.6	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	52.1
	02/29/00	7.92	27.90	--	--	--	--	--	--
	05/08/00	9.07	26.75	1,080 <sup>19</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	ND <sup>7</sup>	<sup>7</sup> ND/ND <sup>12</sup>
<b>Trip Blank</b>									
TB-LB	02/12/98	--	--	ND	ND	ND	ND	ND	ND
	05/15/98	--	--	ND	ND	ND	ND	ND	ND
	08/12/98	--	--	ND	ND	ND	ND	ND	ND
	11/12/98	--	--	ND	ND	0.68	ND	0.51	ND
	03/01/99	--	--	ND	ND	ND	ND	ND	ND
	05/12/99	--	--	ND	ND	ND	ND	ND	ND
	08/11/99	--	--	ND	ND	ND	ND	ND	ND
	11/04/99	--	--	ND	ND	ND	ND	ND	ND
	02/29/00	--	--	ND	ND	ND	ND	ND	ND
	05/08/00	--	--	ND	ND	ND	ND	ND	ND

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to February 12, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing elevation	B = Benzene	ppb = Parts per billion
DTW = Depth to Water	T = Toluene	ND = Not Detected
(ft.) = Feet	E = Ethylbenzene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation	X = Xylenes	(SP) = Shadrall Property wells
msl = Relative to mean sea level	MTBE = Methyl tertiary butyl ether	
TPH(G) = Total Petroleum Hydrocarbons as Gasoline		

- \* TOC elevations are relative to Mean Sea Level (msl), per a Benchmark located at the northwest corner of East 14th Street and 150th Avenue (Elevation = 36.88 feet msl). TOC elevations for MW-2 (SP) and MW-3 (SP) are relative to msl, per Chevron monitoring well MW-6 used as a benchmark (Elevation = 36.92 feet msl). East 14th Street and 150th Avenue, Benchmark (Elevation = 36.883 feet, msl). Prior to September 24, 1993, DTW measurement were taken from the top of the well covers.
- <sup>1</sup> Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- <sup>2</sup> Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- <sup>3</sup> The analytical results of the groundwater were inconsistent with the previous analytical results for this well. The laboratory re-analyzed the sample past hold time; therefore the results may be biased low.
- <sup>4</sup> The monitoring well was resampled on November 20, 1995. The vial containing the water sample collected from this well on November 2, 1995, was inadvertently broken by the laboratory.
- <sup>5</sup> All EPA Method 8010 constituents were ND.
- <sup>6</sup> The monitoring wells MW-8 and MW-11 were resampled on February 14, 1996. The vials containing the water samples collected from the wells on February 8, 1996, were inadvertently broken by the laboratory.
- <sup>7</sup> Detection limit raised. Refer to analytical reports.
- <sup>8</sup> Laboratory report indicates gasoline and unidentified hydrocarbons <C7.
- <sup>9</sup> Laboratory report indicates gasoline and discrete peaks C6-C12.
- <sup>10</sup> Laboratory report indicates gasoline and unidentified hydrocarbons C6-C8.
- <sup>11</sup> Laboratory report indicates weathered gasoline C6-C12.
- <sup>12</sup> MTBE by EPA Method 8260.
- <sup>13</sup> Laboratory report indicates unidentified hydrocarbons >C8.
- <sup>14</sup> Laboratory report indicates unidentified hydrocarbons >C6.
- <sup>15</sup> Laboratory report indicates weathered gas and unidentified hydrocarbons >C6.
- <sup>16</sup> Laboratory report indicates gasoline and unidentified hydrocarbons <C6.
- <sup>17</sup> Laboratory report indicates gasoline C6-C12.
- <sup>18</sup> MTBE by EPA Method 8260 analyzed past EPA recommended holding time.
- <sup>19</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.
- <sup>20</sup> MTBE by EPA Method 8260 analyzed one day past the EPA recommended holding time; sample was inadvertently chosen for MTBE confirmation instead of MW-11.
- <sup>21</sup> MTBE reported from second analysis after sample dilution.

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) <sup>m</sup>	After Purging (mg/L) <sup>m</sup>
MW-1	11/02/95	1.80	2.83	--
	02/08/96	--	2.58	--
	05/08/96	--	--	1.92
	08/09/96	--	2.14	--
	11/07/96	--	2.11	2.18
	02/11/97	--	--	2.05
	08/05/97	--	--	1.88
	11/04/97	--	--	2.67
	02/12/98	--	2.38	--
	05/15/98	--	2.12	--
	08/12/98	--	1.77	--
	11/12/98	--	1.55	--
	03/01/99	--	1.77	--
	05/12/99	--	1.86	--
	08/11/99	--	1.93	--
	11/04/99	--	2.10	--
	02/29/00	--	2.88	--
05/08/00	--	3.11	--	
MW-2	11/02/95	2.30	2.80	--
	02/08/96	--	2.21	--
	05/08/96	--	--	3.89
	08/09/96	--	3.36	--
	11/07/96	--	1.96	1.98
	02/11/97	--	--	2.12
	08/05/97	--	--	2.38
	11/04/97	--	--	2.18
	02/12/98	--	2.04	--
	05/15/98	--	2.33	--
	08/12/98	--	2.50	--
	11/12/98	--	1.90	--
	03/01/99	--	1.82	--
	05/12/99	--	2.32	--
	08/11/99	--	1.98	--
	11/04/99	--	1.90	--
	02/29/00	--	2.41	--
05/08/00	--	2.14	--	
MW-3	11/02/95	2.20	4.98	--
	02/08/96	--	2.78	--
	05/08/96	--	--	3.73
	08/09/96	--	3.29	--
	11/07/96	--	3.15	3.98
	02/10/97	--	--	3.59
	08/05/97	--	--	2.86
	11/04/97	--	--	2.95

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

<b>WELL ID</b>	<b>DATE</b>	<b>@ Laboratory (mg/L)</b>	<b>Before Purging (mg/L)**</b>	<b>After Purging (mg/L)**</b>
MW-3 (cont)	02/12/98	--	3.12	--
	05/15/98	--	3.97	--
	08/12/98	--	4.21	--
	03/01/99	--	4.56	--
	03/01/99	--	5.19	--
	05/12/99	--	3.87	--
	08/11/99	--	4.10	--
	11/04/99	--	4.41	--
MW-4	11/02/95	3.00	7.91	--
	02/08/96	--	2.66	--
	05/08/96	--	--	--
	08/09/96	--	2.92	--
	11/07/96	--	4.32	4.38
	02/10/97	--	--	3.87
	08/05/97	--	--	5.12
	11/04/97	--	--	3.98
	02/12/98	--	4.88	--
	05/15/98	--	5.13	--
	08/12/98	--	5.62	--
	11/12/98	--	5.76	--
	03/01/99	--	5.55	--
	05/12/99	--	5.64	--
	08/11/99	--	5.36	--
	11/04/99	--	4.95	--
	MW-5	11/02/95	3.00	2.30
02/08/96		--	2.35	--
05/08/96		--	--	1.29
08/09/96		--	2.19	--
11/07/96		--	1.84	1.82
02/10/97		--	--	2.07
08/05/97		--	--	2.36
11/04/97		--	--	1.99
02/12/98		--	1.79	--
05/15/98		--	1.66	--
08/12/98		--	1.71	--
11/12/98		--	1.81	--
03/01/99		--	1.67	--
05/12/99		--	1.73	--
08/11/99		--	1.83	--
11/04/99		--	1.77	--
02/29/00		--	2.23	--
05/08/00	--	2.58	--	

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L)"	After Purging (mg/L)"
MW-6	11/02/95	3.80	4.55	--
	02/08/96	--	3.77	--
	05/08/96	--	--	3.40
	08/09/96	--	3.53	--
	11/07/96	--	3.99	4.06
	02/10/97	--	--	3.85
	08/05/97	--	--	5.37
	11/04/97	--	--	3.67
	02/12/98	--	4.05	--
	05/15/98	--	5.28	--
	08/12/98	--	4.96	--
	11/12/98	--	5.36	--
	03/01/99	--	4.97	--
	05/12/99	--	5.47	--
	08/11/99	--	5.19	--
11/04/99	--	5.38	--	
MW-7	11/02/95	--	--	--
	02/08/96	--	2.67	--
	05/08/96	--	--	2.20
	08/09/96	--	2.37	--
	11/07/96	--	2.22	2.28
	02/11/97	--	--	2.33
	08/05/97	--	--	2.69
	11/04/97	--	--	2.82
	02/12/98	--	3.24	--
	05/15/98	--	2.95	--
	08/12/98	--	3.19	--
	11/12/98	--	2.04	--
	03/01/99	--	2.64	--
	05/12/99	--	3.05	--
	08/11/99	--	2.69	--
	11/04/99	--	2.47	--
	02/29/00	--	2.31	--
05/08/00	--	2.16	--	
MW-8	11/02/95	--	--	--
	02/08/96	--	3.85	--
	05/08/96	--	--	2.09
	08/09/96	--	2.56	--
	11/07/96	--	1.67	1.84
	02/10/97	--	--	2.10
	08/05/97	--	--	3.04
	11/04/97	--	--	2.11
	02/12/98	--	1.98	--
05/15/98	--	2.44	--	



**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

<b>WELL ID</b>	<b>DATE</b>	<b>@ Laboratory (mg/L)</b>	<b>Before Purging (mg/L)</b>	<b>After Purging (mg/L)</b>
MW-8 (cont)	08/12/98	--	2.83	--
	11/12/98	--	3.16	--
	03/01/99	--	2.81	--
	05/12/99	--	2.74	--
	08/11/99	--	3.04	--
	11/04/99	--	3.41	--
	02/29/00	--	3.77	--
	05/08/00	--	3.97	--
MW-9	11/02/95	--	--	--
	02/08/96	--	3.62	--
	05/08/96	--	--	2.20
	08/09/96	--	2.51	--
	11/07/96	--	2.06	2.02
	02/10/97	--	--	1.96
	08/05/97	--	--	2.57
	11/04/97	--	--	2.60
	02/12/98	--	2.27	--
	05/15/98	--	2.62	--
	08/12/98	--	1.90	--
	11/12/98	--	1.38	--
	03/01/99	--	1.78	--
	05/12/99	--	2.26	--
	08/11/99	--	2.42	--
	11/04/99	--	2.71	--
	02/29/00	--	3.05	--
05/08/00	--	3.77	--	
MW-10	11/02/95	3.10	3.96	--
	02/08/96	--	2.88	--
	05/08/96	--	--	2.71
	08/09/96	--	2.63	--
	11/07/96	--	1.81	1.84
	02/10/97	--	--	2.03
	08/05/97	--	--	2.78
	11/04/97	--	--	2.11
	02/12/98	--	2.63	--
	05/15/98	--	2.24	--
	08/12/98	--	2.43	--
	11/12/98	--	2.66	--
	03/01/99	--	3.11	--
	05/12/99	--	2.77	--

**Table 2**  
**Dissolved Oxygen Concentrations**  
Tosco (Unocal) Service Station #3292  
15008 East 14th Street  
San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L)	After Purging (mg/L)
MW-10	08/11/99	--	3.21	--
(cont)	11/04/99	--	3.12	--
	02/29/00	--	2.97	--
	<b>05/08/00</b>	--	<b>2.63</b>	--
<b>MW-11</b>	11/02/95	2.60	3.55	--
	02/08/96	--	2.19	--
	05/08/96	--	--	2.06
	08/09/96	--	2.11	--
	11/07/96	--	2.35	2.36
	02/10/97	--	--	2.18
	08/05/97	--	--	3.19
	11/04/97	--	--	2.01
	02/12/98	--	2.44	--
	05/15/98	--	1.80	--
	08/12/98	--	2.05	--
	11/12/98	--	1.67	--
	03/01/99	--	2.03	--
	05/12/99	--	2.14	--
	08/11/99	--	2.66	--
	11/04/99	--	2.60	--
	02/29/00	--	2.47	--
	<b>05/08/00</b>	--	<b>2.70</b>	--
<b>MW-2 (SP)<sup>1</sup></b>	11/07/96	--	2.85	2.80
	02/11/97	--	--	2.73
	08/05/97	--	--	3.99
	11/04/97	--	--	3.06
	02/12/98	--	3.11	--
	05/15/98	--	3.97	--
	08/12/98	--	3.62	--
	11/12/98	--	4.19	--
	03/01/99	--	4.56	--
	05/12/99	--	3.92	--
	08/11/99	--	4.19	--
	11/04/99	--	3.85	--
	02/29/00	--	3.21	--
	<b>05/08/00</b>	--	<b>3.96</b>	--
<b>MW-3 (SP)<sup>1</sup></b>	11/07/96	--	2.41	2.40
	02/11/97	--	--	2.55
	08/05/97	--	--	3.74
	11/04/97	--	--	2.95
	02/12/98	--	3.17	--
	05/15/98	--	4.06	--

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	@ Laboratory (mg/L)	Before Purging (mg/L) <sup>1</sup>	After Purging (mg/L) <sup>1</sup>
MW-3 (SP) <sup>1</sup>	08/12/98	--	3.98	--
(cont)	11/12/98	--	3.39	--
	03/01/99	--	3.08	--
	05/12/99	--	2.77	--
	08/11/99	--	2.84	--
	11/04/99	--	2.43	--
	02/29/00	--	2.72	--
	05/08/00	--	2.22	--

**EXPLANATIONS:**

Dissolved oxygen concentrations prior to February 12, 1998, were compiled from reports prepared by MPDS Services, Inc.

mg/L = Milligrams per Liter

-- = Measurement taken in field

-- = Not Measured/Not Analyzed

SP = Shadrall Property wells

<sup>1</sup> Wells located on Shadrall Property.

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (Unocal) Service Station #3292  
 15008 East 14th Street  
 San Leandro, California

WELL ID	DATE	ETHANOL (ppb)	EDB (ppb)	1,2-DCA (ppb)	DIPE (ppb)	ETBE (ppb)	MTBE (ppb)	TAME (ppb)	TBA (ppb)
MW-1	05/08/00	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	1,780	ND <sup>1</sup>	ND <sup>1</sup>
MW-2(SP)	05/08/00	ND	ND	ND	ND	ND	4.83	ND	ND
MW-3(SP)	05/08/00	ND	ND	ND	ND	ND	ND	ND	ND

**EXPLANATIONS:**

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

<sup>1</sup> Raised detection limit. Refer to analytical reports.

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

**Table 4**  
**Joint Groundwater Monitoring Data**  
 Former Mobil Facility #04-FGN  
 14994 East 14th Street  
 San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)
<b>MW-1A</b>			
36.63	02/12/98	5.52	31.11
	08/12/98	8.80	27.83
<b>MW-2A</b>			
36.62	02/12/98	5.59	31.03
	08/12/98	8.85	27.77
<b>MW-3A</b>			
36.93	02/12/98	5.72	31.21
	08/12/98	9.05	27.88
<b>MW-4A</b>			
37.18	02/12/98	5.90	31.28
	08/12/98	9.21	27.97
<b>MW-5A</b>			
35.91	02/12/98	5.32	30.59
	08/12/98	8.19	27.72
<b>MW-6A</b>			
37.10	02/12/98	5.52	31.58
	08/12/98	8.91	28.19
<b>MW-7A</b>			
37.39	02/12/98	6.55	30.84
	08/12/98	9.65	27.74

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**EXPLANATIONS:**

Groundwater monitoring data provided by Alton GeoScience. Site monitored on a semi-annual basis.

TOC = Top of Casing elevation

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

msl = Relative to mean sea level

\* TOC elevations have been surveyed relative to msl.

**Table 5**  
**Joint Groundwater Monitoring Data**  
Chevron Facility #9-2013  
15002 Hesperian Boulevard  
San Leandro, California

<b>WELL ID/ TOC*</b>	<b>DATE</b>	<b>DTW (ft.)</b>	<b>GWE (msl)</b>
<b>MW-1</b> 35.77	11/04/97	11.35	24.42
	05/15/98	8.11	27.66
	08/12/98	9.35	26.42
<b>MW-2</b> 35.00	11/04/97	10.70	24.30
	05/15/98	7.63	27.37
	08/12/98	8.75	26.25
<b>MW-3</b> 36.17	11/04/97	11.75	24.42
	05/15/98	8.75	27.42
	08/12/98	9.85	26.32
<b>MW-4</b> 36.05	11/04/97	11.47	24.58
	05/15/98	8.27	27.78
	08/12/98	9.40	26.65
<b>MW-5</b> 35.65	11/04/97	11.17	24.48
	05/15/98	7.92	27.73
	08/12/98	9.05	26.60
<b>MW-6</b> 36.92	11/04/97	12.42	24.50
	05/15/98	9.45	27.47
	08/12/98	10.60	26.32
<b>MW-7</b> 35.71	11/04/97	11.01	24.70
	05/15/98	8.11	27.60
	08/12/98	9.25	26.46
<b>MW-8</b> 35.28	11/04/97	10.63	24.65
	05/15/98	7.98	27.30
	08/12/98	9.00	26.28
<b>MW-A</b>	11/04/97	11.45	--
	05/15/98	8.51	--
	08/12/98	9.60	--

**Table 5**  
**Joint Groundwater Monitoring Data**  
Chevron Facility #9-2013  
15002 Hesperian Boulevard  
San Leandro, California

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**EXPLANATIONS:**

Groundwater monitoring data provided by Blaine Tech Services, Inc. Site monitored on a semi-annual basis.

TOC = Top of Casing elevation

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

msl = Relative to mean sea level

-- = Not Available

\* TOC elevations have been surveyed relative to msl.

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Tosco Marketing Company, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.



**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-1  
Well Diameter: 2 in  
Total Depth: 18.95 ft  
Depth to Water: 8.27 ft

Well Condition: OK

Hydrocarbon Thickness:	<u>0</u> in.	Amount Bailed (product/water):	<u>0</u> (gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

10.68 x VF 0.17 = 1.82 x 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 10:35  
Sampling Time: 11:00 AM  
Purging Flow Rate: 0.5 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: Some  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:45</u>	<u>1.5</u>	<u>7.33</u>	<u>2.96</u>	<u>65.1</u>	<u>3.11</u>		
<u>10:47</u>	<u>3</u>	<u>7.19</u>	<u>3.42</u>	<u>65.3</u>			
<u>10:50</u>	<u>5.5</u>	<u>7.21</u>	<u>3.45</u>	<u>65.1</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 YCA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE</u>
	<u>2 YCA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>OXY (G) 1,2 DCA/EDB</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-2  
Well Diameter: 2 in.  
Total Depth: 19.10 ft  
Depth to Water: 8.42 ft

Well Condition: oil  
Hydrocarbon Thickness: 6 in. Amount Bailed (product/water): 0 gal  
Volume Factor (VF):  
2" = 0.17      3" = 0.38      4" = 0.66  
6" = 1.50      12" = 5.50

10.68 x VF 0.17 = 1.82 x 3 (case volume) = Estimated Purge Volume: 5.5 gal

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1:00  
Sampling Time: 1:25 PM  
Purging Flow Rate: 0.5 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: yes  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:08</u>	<u>1.5</u>	<u>6.96</u>	<u>2.65</u>	<u>65.1</u>	<u>2.14</u>		
<u>1:12</u>	<u>3</u>	<u>6.95</u>	<u>2.66</u>	<u>64.9</u>			
<u>1:14</u>	<u>5.5</u>	<u>7.04</u>	<u>2.61</u>	<u>64.9</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE</u>
	<u>2 VOA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>Oxy (G) 1,2 DCA/ED</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-5  
Well Diameter: 2 in  
Total Depth: 22.06 ft  
Depth to Water: 8.23 ft

Well Condition: o.k

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

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

13.83 x VF 0.17 = 2.35 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 2:15  
Sampling Time: 2:35 p.m.  
Purging Flow Rate: 1 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: yes  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm @ F)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>2:22</u>	<u>2.5</u>	<u>7.10</u>	<u>2.32</u>	<u>71.5</u>	<u>2.58</u>		
<u>2:23</u>	<u>5</u>	<u>7.11</u>	<u>2.27</u>	<u>72.2</u>			
<u>2:24</u>	<u>7.5</u>	<u>7.14</u>	<u>2.25</u>	<u>72.5</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 VOA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>OXY(6) 1,2 DCA/ED</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-7  
Well Diameter: 2 in  
Total Depth: 21.06 ft  
Depth to Water: 8.15 ft

Well Condition: o.k  
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
6" = 1.50 12" = 5.50

12.91 x VF 0.17 = 2.19 x 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 2:45  
Sampling Time: 3:08 p.m.  
Purging Flow Rate: 1 gpm.  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: yes  
Sediment Description: none  
If yes: Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{K}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>2:55</u>	<u>2.5</u>	<u>7.07</u>	<u>2.82</u>	<u>73.1</u>	<u>2.16</u>		
<u>2:56</u>	<u>5</u>	<u>6.92</u>	<u>2.80</u>	<u>73.6</u>			
<u>2:58</u>	<u>7</u>	<u>6.89</u>	<u>2.75</u>	<u>73.1</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3VCA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE</u>
	<u>2VCA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>OXY(6) 1,2 DCA/EDB</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14th St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-8  
Well Diameter: 2 in  
Total Depth: 19.02 ft  
Depth to Water: 9.21 ft

Well Condition: O.K.

Hydrocarbon Thickness:	<u>0</u> in	Amount Bailed (product/water):	<u>0</u> (gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

9.81 x VF 0.17 = 1.67 x 3 (case volume) = Estimated Purge Volume: 5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 11:14  
Sampling Time: 11:35 A.M.  
Purging Flow Rate: 0.5 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: some  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{C}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:20</u>	<u>1.5</u>	<u>7.43</u>	<u>5.12</u>	<u>65.6</u>	<u>3.97</u>		
<u>11:22</u>	<u>3</u>	<u>7.50</u>	<u>5.14</u>	<u>66.4</u>			
<u>11:24</u>	<u>5</u>	<u>7.51</u>	<u>5.09</u>	<u>65.5</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3VCA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2VCA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>OXY(6) 1,2 BCA/ED</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-9  
Well Diameter: 2 in.  
Total Depth: 19.05 ft.  
Depth to Water: 9.09 ft.

Well Condition: O.K.  
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
Volume Factor (VF):  
2" = 0.17      3" = 0.38      4" = 0.66  
6" = 1.50      12" = 5.50

9.96 x VF 0.17 = 1.69 x 3 (case volume) = Estimated Purge Volume: 5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 12:20  
Sampling Time: 12:47 P.M.  
Purging Flow Rate: 0.5 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: yes  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:32</u>	<u>1.5</u>	<u>7.50</u>	<u>3.77</u>	<u>64.8</u>	<u>3.77</u>		
<u>12:34</u>	<u>3</u>	<u>7.42</u>	<u>3.92</u>	<u>65.1</u>			
<u>12:37</u>	<u>5</u>	<u>7.47</u>	<u>3.96</u>	<u>65.4</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBG</u>
	<u>2 VOA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>OXY(6) 1,2 DCA/EDB</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-10  
Well Diameter: 2 in  
Total Depth: 19.80 ft  
Depth to Water: 10.54 ft

Well Condition: o.k.  
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
6" = 1.50 12" = 5.50

9.26 x VF 0.17 = 1.57 x 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1:37  
Sampling Time: 1:55 P.M.  
Purging Flow Rate: 0.5 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: yes  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm) °C	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:43</u>	<u>1.5</u>	<u>7.36</u>	<u>3.25</u>	<u>65.5</u>	<u>2.63</u>		
<u>1:45</u>	<u>2</u>	<u>7.30</u>	<u>3.30</u>	<u>66.0</u>			
<u>1:47</u>	<u>4.5</u>	<u>7.26</u>	<u>3.29</u>	<u>65.9</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3VCA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2VCA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>OXY(G) 1,2 BCA/ED</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-11  
Well Diameter: 2 in  
Total Depth: 18.90 ±  
Depth to Water: 8.50 ±

Well Condition: O.K.

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

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

10.4 x VF 0.17 = 1.77 x 3 (case volume) = Estimated Purge Volume: 5.5 (gal)

Purge Equipment:  Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment:  Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 11:45  
Sampling Time: 12:10 P.M.  
Purging Flow Rate: 2.5 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: yes  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal)

Time	Volume (gal)	pH	Conductivity $\mu$ mhos/cm $\times$	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:55</u>	<u>1.5</u>	<u>7.12</u>	<u>2.25</u>	<u>66.1</u>	<u>2.70</u>		
<u>11:57</u>	<u>3</u>	<u>7.16</u>	<u>2.30</u>	<u>65.8</u>			
<u>11:59</u>	<u>5.5</u>	<u>7.20</u>	<u>2.36</u>	<u>65.7</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>3VCA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2VCA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>OXY(6) 1,2 BCA/ED</u>

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



**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID MW-2(SP) Well Condition: O.K.

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

Total Depth 20.85 ±  
Depth to Water 9.10 ±

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

11.75 x VF 0.17 = 2.00 x 3 (case volume) = Estimated Purge Volume: 6 gal

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 9:00  
Sampling Time: 9:30 AM  
Purging Flow Rate: 0.5 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: none  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{C}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:10</u>	<u>2</u>	<u>7.77</u>	<u>5.19</u>	<u>74.0</u>	<u>3.96</u>		
<u>9:13</u>	<u>4</u>	<u>7.48</u>	<u>5.27</u>	<u>73.6</u>			
<u>9:16</u>	<u>6</u>	<u>7.53</u>	<u>5.31</u>	<u>73.4</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2(SP)</u>	<u>3VCA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2VCA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>OR4(6) 1,2 DCA/EDC</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/  
Facility # 3292  
Address: 15008 E. 14<sup>th</sup> St.  
City: San Leandro

Job#: 180105  
Date: 5-8-00  
Sampler: Joe

Well ID: MW-3(SP)  
Well Diameter: 2 in.  
Total Depth: 20.65 ft  
Depth to Water: 9.07 ft

Well Condition: O.K.  
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
6" = 1.50 12" = 5.50

11.59 x VF 0.17 = 1.97 x 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 10:10  
Sampling Time: 10:20 A.M.  
Purging Flow Rate: 0.5 gpm  
Did well de-water? \_\_\_\_\_

Weather Conditions: rain  
Water Color: clear Odor: same  
Sediment Description: none  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal)	pH	Conductivity $\mu$ mhos/cm K	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:06	2	7.17	3.44	65.1	2.22		
10:08	4	7.14	3.43	65.7			
10:10	6	7.10	3.41	65.8			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3(SP)	3 YCA	Y	HCL	Sequoia	TPHG, BTEX, MTBE
	2 YCA	"	"	"	ORXY(6) 1,2 BCA/EDB

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





# Sequoia Analytical

1551 Industrial Road  
San Carlos, CA 94070-4111  
(650) 232-9600  
FAX (650) 232-9612  
[www.sequoialabs.com](http://www.sequoialabs.com)

May 24, 2000

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

RE: Tosco(4)/L005063

Dear Deanna Harding

Enclosed are the results of analyses for sample(s) received by the laboratory on May 8, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson  
Project Manager

CA ELAP Certificate Number I2360





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

Project: Tosco(4)  
Project Number: Unocal SS#3292  
Project Manager: Deanna Harding

Sampled: 5/8/00  
Received: 5/8/00  
Reported: 5/24/00

**ANALYTICAL REPORT FOR L005063**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	L005063-01	Water	5/8/00
MW-1	L005063-02	Water	5/8/00
MW-2	L005063-03	Water	5/8/00
MW-5	L005063-04	Water	5/8/00
MW-7	L005063-05	Water	5/8/00
MW-8	L005063-06	Water	5/8/00
MW-9	L005063-07	Water	5/8/00
MW-10	L005063-08	Water	5/8/00
MW-11	L005063-09	Water	5/8/00
MW-2(SP)	L005063-10	Water	5/8/00
MW-3(SP)	L005063-11	Water	5/8/00





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**  
**Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>L005063-01</u>				
<b>TB-LB</b>							<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050094	5/20/00	5/20/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		99.7	%	
				<u>L005063-02</u>				
<b>MW-1</b>							<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050094	5/20/00	5/20/00		1000	9010	ug/l	1
Benzene	"	"	"		10.0	60.5	"	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	402	"	
Xylenes (total)	"	"	"		10.0	ND	"	
Methyl tert-butyl ether	"	"	"		100	2260	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		116	%	
				<u>L005063-03</u>				
<b>MW-2</b>							<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050096	5/22/00	5/22/00		500	3840	ug/l	2
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	9.54	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Methyl tert-butyl ether	"	"	"		50.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		108	%	
				<u>L005063-04</u>				
<b>MW-5</b>							<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050095	5/20/00	5/20/00		2500	25700	ug/l	2
Benzene	"	"	"		25.0	37.6	"	
Toluene	"	"	"		25.0	ND	"	
Ethylbenzene	"	"	"		25.0	2020	"	
Xylenes (total)	"	"	"		25.0	3500	"	
Methyl tert-butyl ether	"	"	"		250	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		83.3	%	
				<u>L005063-05</u>				
<b>MW-7</b>							<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050096	5/22/00	5/22/00		1000	6600	ug/l	2
Benzene	"	"	"		10.0	80.0	"	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	99.6	"	
Xylenes (total)	"	"	"		10.0	66.5	"	





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-7 (continued)</b>								
				<u>L005063-05</u>			<u>Water</u>	
Methyl tert-butyl ether	0050096	5/22/00	5/22/00		100	ND	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		117	%	
<b>MW-8</b>								
				<u>L005063-06</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050095	5/20/00	5/20/00		50.0	199	ug/l	3
Benzene	"	"	"		0.500	6.26	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		135	%	4
<b>MW-9</b>								
				<u>L005063-07</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050097	5/22/00	5/22/00		250	895	ug/l	3
Benzene	"	"	"		2.50	ND	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		115	%	
<b>MW-10</b>								
				<u>L005063-08</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050097	5/22/00	5/22/00		500	5830	ug/l	2
Benzene	"	"	"		5.00	51.7	"	
Toluene	"	"	"		5.00	10.6	"	
Ethylbenzene	"	"	"		5.00	24.7	"	
Xylenes (total)	"	"	"		5.00	24.8	"	
Methyl tert-butyl ether	"	"	"		50.0	142	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		89.2	%	
<b>MW-11</b>								
				<u>L005063-09</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050097	5/22/00	5/22/00		100	513	ug/l	2
Benzene	"	"	"		1.00	3.56	"	
Toluene	"	"	"		1.00	ND	"	
Ethylbenzene	"	"	"		1.00	1.11	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Methyl tert-butyl ether	"	"	"		100	1320	"	5
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		93.9	%	
<b>MW-2(SP)</b>								
				<u>L005063-10</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0050097	5/22/00	5/22/00		50.0	131	ug/l	3





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b><u>MW-2(SP) (continued)</u></b>				<b><u>L005063-10</u></b>			<b><u>Water</u></b>	
Benzene	0050097	5/22/00	5/22/00		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		103	%	
<b><u>MW-3(SP)</u></b>				<b><u>L005063-11</u></b>			<b><u>Water</u></b>	
Purgeable Hydrocarbons as Gasoline	0050096	5/22/00	5/22/00		250	1080	ug/l	3
Benzene	"	"	"		2.50	ND	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		103	%	







Gettler-Ryan/Geostrategies(1)	Project: Tosco(4)	Sampled: 5/8/00
6747 Sierra Court, Suite D	Project Number: Unocal SS#3292	Received: 5/8/00
Dublin, CA 94568	Project Manager: Deanna Harding	Reported: 5/24/00

**Volatile Organic Compounds by EPA Method 8260A**  
**Sequoia Analytical - San Carlos**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>L005063-02</u>			<u>Water</u>	
<u>MW-1</u> Ethanol	0050038	5/9/00	5/10/00		20000	ND	ug/l	
1,2-Dibromoethane	"	"	"		40.0	ND	"	
1,2-Dichloroethane	"	"	"		40.0	ND	"	
Di-isopropyl ether	"	"	"		40.0	ND	"	
Ethyl tert-butyl ether	"	"	"		40.0	ND	"	
Methyl tert-butyl ether	"	"	"		40.0	1780	"	
Tert-amyl methyl ether	"	"	"		40.0	ND	"	
Tert-butyl alcohol	"	"	"		2000	ND	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	76.0-114		111	%	
				<u>L005063-10</u>			<u>Water</u>	
<u>MW-2(SP)</u> Ethanol	0050059	5/12/00	5/12/00		1000	ND	ug/l	
1,2-Dibromoethane	"	"	"		2.00	ND	"	
1,2-Dichloroethane	"	"	"		2.00	ND	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	4.83	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Tert-butyl alcohol	"	"	"		100	ND	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	76.0-114		107	%	
				<u>L005063-11</u>			<u>Water</u>	
<u>MW-3(SP)</u> Ethanol	0050044	5/10/00	5/10/00		1000	ND	ug/l	
1,2-Dibromoethane	"	"	"		2.00	ND	"	
1,2-Dichloroethane	"	"	"		2.00	ND	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Tert-butyl alcohol	"	"	"		100	ND	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	76.0-114		98.8	%	





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS IUP/T/Quality Control**  
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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<b>Batch: 0050094</b>	<b>Date Prepared: 5/20/00</b>		<b>Extraction Method: EPA 5030B IP/TI</b>							
<b>Blank</b>	<b>0050094-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	5/20/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.0	"	70.0-130	100			

<b>LCS</b>	<b>0050094-BS1</b>									
Benzene	5/20/00	10.0		9.86	ug/l	70.0-130	98.6			
Toluene	"	10.0		9.54	"	70.0-130	95.4			
Ethylbenzene	"	10.0		9.98	"	70.0-130	99.8			
Xylenes (total)	"	30.0		30.4	"	70.0-130	101			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.2	"	70.0-130	102			

<b>LCS</b>	<b>0050094-BS2</b>									
Purgeable Hydrocarbons as Gasoline	5/20/00	250		234	ug/l	70.0-130	93.6			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.62	"	70.0-130	86.2			

<b>Matrix Spike</b>	<b>0050094-MS1</b>		<b>L005062-03</b>							
Benzene	5/20/00	10.0	ND	8.39	ug/l	60.0-140	83.9			
Toluene	"	10.0	ND	8.45	"	60.0-140	84.5			
Ethylbenzene	"	10.0	ND	8.82	"	60.0-140	88.2			
Xylenes (total)	"	30.0	ND	26.7	"	60.0-140	89.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.2	"	70.0-130	102			

<b>Matrix Spike Dup</b>	<b>0050094-MSD1</b>		<b>L005062-03</b>							
Benzene	5/20/00	10.0	ND	9.88	ug/l	60.0-140	98.8	25.0	16.3	
Toluene	"	10.0	ND	9.80	"	60.0-140	98.0	25.0	14.8	
Ethylbenzene	"	10.0	ND	10.2	"	60.0-140	102	25.0	14.5	
Xylenes (total)	"	30.0	ND	31.1	"	60.0-140	104	25.0	15.5	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.97	"	70.0-130	99.7			

<b>Batch: 0050095</b>	<b>Date Prepared: 5/20/00</b>		<b>Extraction Method: EPA 5030B IP/TI</b>							
<b>Blank</b>	<b>0050095-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	5/20/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				

Sequoia Analytical - San Carlos \*Refer to end of report for text of notes and definitions.





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Blank (continued)</b>										
<b>0050095-BLK1</b>										
Methyl tert-butyl ether	5/20/00			ND	ug/l	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.77	"	70.0-130	97.7			
<b>LCS</b>										
<b>0050095-BS1</b>										
Benzene	5/20/00	10.0		8.86	ug/l	70.0-130	88.6			
Toluene	"	10.0		9.06	"	70.0-130	90.6			
Ethylbenzene	"	10.0		8.75	"	70.0-130	87.5			
Xylenes (total)	"	30.0		28.3	"	70.0-130	94.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.48	"	70.0-130	94.8			
<b>LCS</b>										
<b>0050095-BS2</b>										
Purgeable Hydrocarbons as Gasoline	5/20/00	250		231	ug/l	70.0-130	92.4			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.24	"	70.0-130	92.4			
<b>Matrix Spike</b>										
<b>0050095-MS1 L005061-03</b>										
Benzene	5/20/00	10.0	ND	8.85	ug/l	60.0-140	88.5			
Toluene	"	10.0	ND	9.30	"	60.0-140	93.0			
Ethylbenzene	"	10.0	ND	8.86	"	60.0-140	88.6			
Xylenes (total)	"	30.0	ND	29.2	"	60.0-140	97.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.04	"	70.0-130	90.4			
<b>Matrix Spike Dup</b>										
<b>0050095-MSD1 L005061-03</b>										
Benzene	5/20/00	10.0	ND	10.3	ug/l	60.0-140	103	25.0	15.1	
Toluene	"	10.0	ND	10.7	"	60.0-140	107	25.0	14.0	
Ethylbenzene	"	10.0	ND	10.4	"	60.0-140	104	25.0	16.0	
Xylenes (total)	"	30.0	ND	34.1	"	60.0-140	114	25.0	15.8	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.24	"	70.0-130	92.4			
<b>Batch: 0050096</b>										
<b>Date Prepared: 5/22/00</b>										
<b>Extraction Method: EPA 5030B (P/T)</b>										
<b>Blank</b>										
<b>0050096-BLK1</b>										
Purgeable Hydrocarbons as Gasoline	5/22/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.86	"	70.0-130	98.6			
<b>LCS</b>										
<b>0050096-BS1</b>										
Benzene	5/22/00	10.0		7.45	ug/l	70.0-130	74.5			
Toluene	"	10.0		7.77	"	70.0-130	77.7			





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUPU Quality Control**  
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>LCS (continued)</b>										
<b>0050096-BS1</b>										
Ethylbenzene	5/22/00	10.0		8.15	ug/l	70.0-130	81.5			
Xylenes (total)	"	30.0		24.8	"	70.0-130	82.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.65	"	70.0-130	96.5			
<b>LCS</b>										
<b>0050096-BS2</b>										
Purgeable Hydrocarbons as Gasoline	5/22/00	250		248	ug/l	70.0-130	99.2			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.98	"	70.0-130	79.8			
<b>Matrix Spike</b>										
<b>0050096-MS1 L005090-06</b>										
Purgeable Hydrocarbons as Gasoline	5/22/00	250	ND	216	ug/l	60.0-140	86.4			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.0	"	70.0-130	100			
<b>Matrix Spike Dup</b>										
<b>0050096-MSD1 L005090-06</b>										
Purgeable Hydrocarbons as Gasoline	5/22/00	250	ND	203	ug/l	60.0-140	81.2	25.0	6.21	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.6	"	70.0-130	106			
<b>Batch: 0050097</b>										
<b>Date Prepared: 5/22/00</b>										
<b>Extraction Method: EPA 5030B [P/T]</b>										
<b>Blank</b>										
<b>0050097-BLK1</b>										
Purgeable Hydrocarbons as Gasoline	5/22/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.49	"	70.0-130	94.9			
<b>LCS</b>										
<b>0050097-BS1</b>										
Benzene	5/22/00	10.0		8.70	ug/l	70.0-130	87.0			
Toluene	"	10.0		9.56	"	70.0-130	95.6			
Ethylbenzene	"	10.0		9.28	"	70.0-130	92.8			
Xylenes (total)	"	30.0		31.4	"	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.99	"	70.0-130	89.9			
<b>LCS</b>										
<b>0050097-BS2</b>										
Purgeable Hydrocarbons as Gasoline	5/22/00	250		241	ug/l	70.0-130	96.4			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.92	"	70.0-130	89.2			
<b>Matrix Spike</b>										
<b>0050097-MS1 L005066-07</b>										
Purgeable Hydrocarbons as Gasoline	5/22/00	250	ND	239	ug/l	60.0-140	95.6			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.1	"	70.0-130	111			





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Total Purgeable Hydrocarbons (C6-C12) BTEX and MTBE by DHS LUFT/Quality Control**  
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike Dup</b>										
Purgeable Hydrocarbons as Gasoline	5/22/00	250	ND	233	ug/l	60.0-140	93.2	25.0	2.54	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		10.7	"	70.0-130	107			





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

Project: Tosco(4)  
Project Number: Unocal SS#3292  
Project Manager: Deanna Harding

Sampled: 5/8/00  
Received: 5/8/00  
Reported: 5/24/00

**Volatile Organic Compounds by EPA Method 8260A/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
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**Batch: 0050038**

**Date Prepared: 5/9/00**

**Extraction Method: EPA 5030B (P/T)**

**Blank**

**0050038-BLK1**

Ethanol	5/9/00			ND	ug/l	1000				
1,2-Dibromoethane	"			ND	"	2.00				
1,2-Dichloroethane	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Methyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Tert-butyl alcohol	"			ND	"	100				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	50.0		52.2	"	76.0-114	104			

**Blank**

**0050038-BLK2**

Ethanol	5/10/00			ND	ug/l	1000				
1,2-Dibromoethane	"			ND	"	2.00				
1,2-Dichloroethane	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Methyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Tert-butyl alcohol	"			ND	"	100				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	50.0		51.2	"	76.0-114	102			

**LCS**

**0050038-BS1**

Methyl tert-butyl ether	5/9/00	50.0		47.7	ug/l	70.0-130	95.4			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	50.0		51.2	"	76.0-114	102			

**LCS**

**0050038-BS2**

Methyl tert-butyl ether	5/10/00	50.0		48.6	ug/l	70.0-130	97.2			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	50.0		53.0	"	76.0-114	106			

**Matrix Spike**

**0050038-MS1**

**L005052-07**

Methyl tert-butyl ether	5/9/00	50.0	ND	50.1	ug/l	60.0-140	100			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	50.0		52.5	"	76.0-114	105			

**Matrix Spike Dup**

**0050038-MSD1**

**L005052-07**

Methyl tert-butyl ether	5/9/00	50.0	ND	49.2	ug/l	60.0-140	98.4	25.0	1.61	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	50.0		52.5	"	76.0-114	105			

**Batch: 0050044**

**Date Prepared: 5/10/00**

**Extraction Method: EPA 5030B (P/T)**

**Blank**

**0050044-BLK1**

Ethanol	5/10/00			ND	ug/l	1000				
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Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Volatile Organic Compounds by EPA Method 8260A/Quality Control**  
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Blank (continued)</b>										
<b>0050044-BLK1</b>										
1,2-Dibromoethane	5/10/00			ND	ug/l	2.00				
1,2-Dichloroethane	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Methyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Tert-butyl alcohol	"			ND	"	100				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		51.2	"	76.0-114	102			
<b>LCS</b>										
<b>0050044-BS1</b>										
Methyl tert-butyl ether	5/10/00	50.0		48.6	ug/l	70.0-130	97.2			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		53.0	"	76.0-114	106			
<b>Matrix Spike</b>										
<b>0050044-MS1      L005061-03</b>										
Methyl tert-butyl ether	5/10/00	50.0	ND	49.2	ug/l	60.0-140	98.4			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.3	"	76.0-114	105			
<b>Matrix Spike Dup</b>										
<b>0050044-MSD1      L005061-03</b>										
Methyl tert-butyl ether	5/10/00	50.0	ND	50.0	ug/l	60.0-140	100	25.0	1.61	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		51.3	"	76.0-114	103			
<b>Batch: 0050059</b>										
<b>Date Prepared: 5/12/00</b>										
<b>Extraction Method; EPA 5030B [P/T]</b>										
<b>Blank</b>										
<b>0050059-BLK1</b>										
Ethanol	5/12/00			ND	ug/l	1000				
1,2-Dibromoethane	"			ND	"	2.00				
1,2-Dichloroethane	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Methyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Tert-butyl alcohol	"			ND	"	100				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		55.2	"	76.0-114	110			
<b>LCS</b>										
<b>0050059-BS1</b>										
Methyl tert-butyl ether	5/12/00	50.0		46.8	ug/l	70.0-130	93.6			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.9	"	76.0-114	106			
<b>Matrix Spike</b>										
<b>0050059-MS1      L005063-10</b>										
Methyl tert-butyl ether	5/12/00	50.0	4.83	54.2	ug/l	60.0-140	98.7			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		54.9	"	76.0-114	110			





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#3292 Project Manager: Deanna Harding	Sampled: 5/8/00 Received: 5/8/00 Reported: 5/24/00
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**Volatile Organic Compounds by EPA Method 8260A/Quality Control  
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike Dup</b>	<b>0050059-MSD1</b>	<b>L005063-10</b>								
Methyl tert-butyl ether	5/12/00	50.0	4.83	53.1	ug/l	60.0-140	96.5	25.0	2.25	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.5	"	76.0-114	105			







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

Project: Tosco(4)  
Project Number: Unocal SS#3292  
Project Manager: Deanna Harding

Sampled: 5/8/00  
Received: 5/8/00  
Reported: 5/24/00

**Notes and Definitions**

#	Note
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1	Chromatogram Pattern: Gasoline C6-C12
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2	Chromatogram Pattern: Weathered Gasoline C6-C12
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3	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
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4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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5	MTBE reported from second analysis after sample dilution.
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DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference

