



# GETTLER - RYAN INC.

## TRANSMITTAL

ENVIRONMENTAL PROTECTION

00 MAY 31 PM 4:57

May 17, 2000  
G-R #: 180108

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

**CC:** Mr. Tim Ripp  
IT Corporation  
1921 Ringwood Avenue  
San Jose, California 95131

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

**RE:** Tosco (Unocal) SS #5367  
500 Bancroft Avenue  
San Leandro, California

**WE HAVE ENCLOSED THE FOLLOWING:**

COPIES	DATED	DESCRIPTION
1	May 10, 2000	Groundwater Monitoring and Sampling Report Semi-Annual 2000 - Event of March 24, 2000

**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 **May 30, 2000**, this report will be distributed to the following:

**Enclosure**

cc: Mr. Scott Seery, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502  
Mr. Michael Bakaldin, City of San Leandro Fire Department, 835 East 14th Street, San Leandro, CA 94577

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**IT Corporation**  
 1921 Ringwood Avenue  
 San Jose, CA 95131-1721  
 Tel. 408.453.7300  
 Fax. 408.437.9526

A Member of The IT Group

January 22, 2001  
 Project 311-127.1A

Mr. Chuck Headlee  
 Regional Water Quality Control Board  
 San Francisco Bay Region  
 1515 Clay Street, Suite 1400  
 Oakland, California 94612

Re: 76 Service Station 5367  
 Quarterly Summary Report  
 Fourth Quarter 2000

Dear Mr. Headlee:

As directed by Mr. David DeWitt of Tosco Marketing Company, IT Corporation (IT) is forwarding the quarterly summary report for the following location:

<u>Service Station</u>	<u>Location</u>
5367	500 Bancroft Avenue, San Leandro

508  
 R 499

Should you have questions or comments, please do not hesitate to contact our office at (408) 453-7300.

Sincerely,

**IT Corporation**

Timothy L. Ripp  
 Project Geologist

Enclosure

cc: Mr. David DeWitt, Tosco Marketing Company  
 Ms. Amy Leech, Alameda County Health Care Services

## Quarterly Summary Report Fourth Quarter 2000

76 Service Station 5367  
500 Bancroft Avenue  
San Leandro, California

City/County ID #: None  
County: Alameda

### BACKGROUND

The underground fuel storage tanks, product dispensers, and associated underground piping were replaced in 1987. The underground product piping was replaced again in October and November 1998. There are currently five on-site groundwater monitoring wells and five off-site groundwater monitoring wells in use at the site. Soil vapor extraction and groundwater extraction systems were operated at the site from to March 1996 to March 1997, removing an estimated 108 pounds of gasoline hydrocarbons.

### RECENT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling activities performed in September 2000 were reported in November 2000.

### NEXT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling activities will be performed in March 2001.

### CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.

Dissolved groundwater delineated? Yes.

Free product delineated? Not applicable.

Total amount of groundwater contaminant recovered? Approximately 108 pounds.

Soil remediation in progress? No.

Start? March 1996.

Completion date? March 1997.

Dissolved/free product remediation in progress? No.

Start? March 1996.

Completion? March 1997.

**CONSULTANT:** IT Corporation



# GETTLER-RYAN Inc.

May 10, 2000  
G-R Job #180108

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

RE: Semi-Annual 2000 Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Dear Mr. De Witt:

This report documents the semi-annual groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On March 24, 2000, field personnel monitored and sampled ten wells (MW-1 through MW-10) at the above referenced site.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 2. A Potentiometric Map is included as Figure 1.

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

Sincerely,

*Deanna L. Harding*  
FOR

Deanna L. Harding  
Project Coordinator

*Stephen J. Carter*

Stephen J. Carter  
Senior Geologist, R.G. No. 5577

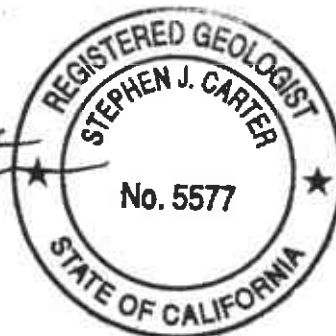
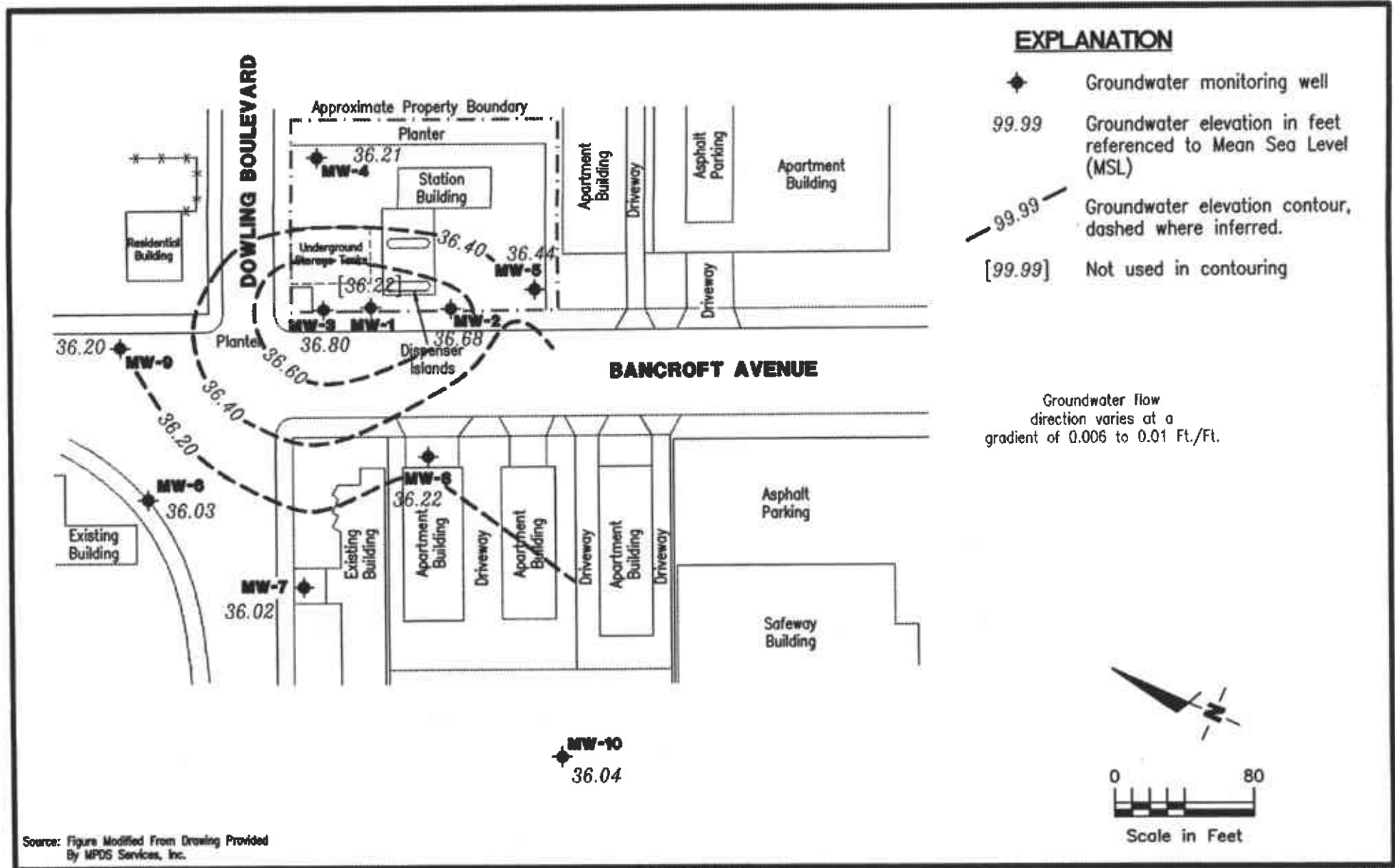


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Dissolved Oxygen Concentrations  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

5367.qml



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

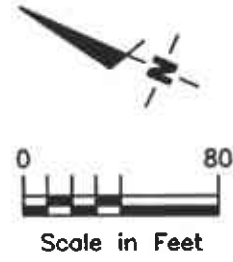
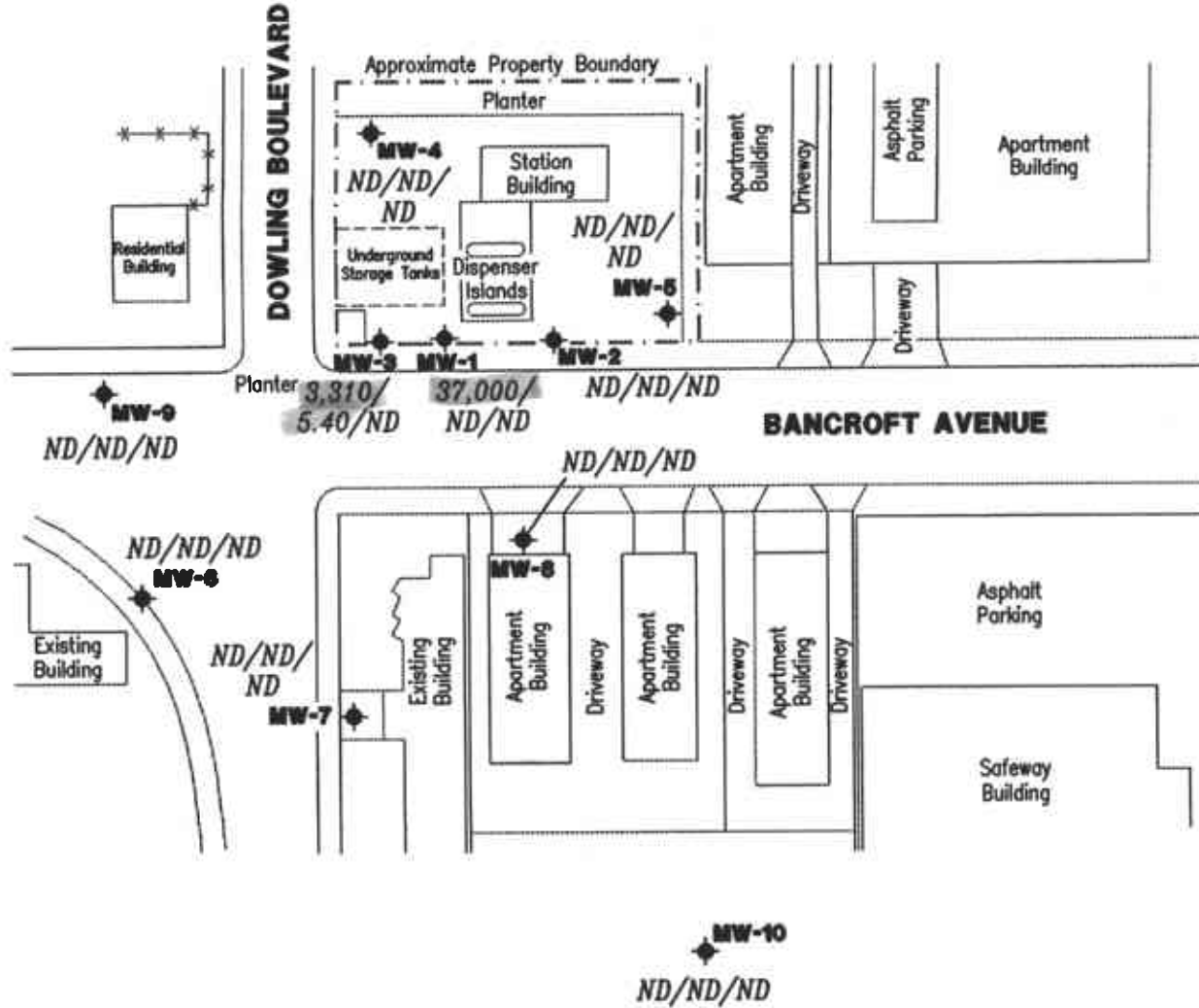
**POTENTIOMETRIC MAP**  
 Tosco (Unocal) Service Station No. 5367  
 500 Bancroft Avenue  
 San Leandro, California

FIGURE 1

JOB NUMBER 180108	REVIEWED BY	DATE March 24, 2000	REVISED DATE
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**EXPLANATION**

- ◆ Groundwater monitoring well
- A/B/C TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- ND Not Detected



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



**Gettler - Ryan Inc.**

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

**CONCENTRATION MAP**  
Tosco (Unocal) Service Station No. 5367  
500 Bancroft Avenue  
San Leandro, California

FIGURE

**2**

JOB NUMBER  
180108

REVIEWED BY

DATE  
March 24, 2000

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1										
57.83	09/23/87	33.40	24.43**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/24/87	33.24	24.59**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	10/06/87	33.39	24.44**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/05/87	34.14	23.69**	0.31	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/13/87	34.15	23.68**	0.38	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/19/87	33.89	23.94**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	04/27/88	32.40	25.43**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/07/88	DRY	--	--	--	--	--	--	--	--
	10/03/88	DRY	--	--	--	--	--	--	--	--
	01/27/89	DRY	--	--	--	--	--	--	--	--
	02/16/90	DRY	--	--	--	--	--	--	--	--
	07/19/90	DRY	--	--	--	--	--	--	--	--
	08/24/90	DRY	--	--	--	--	--	--	--	--
	11/30/90	DRY	--	--	--	--	--	--	--	--
	02/06/91	DRY	--	--	--	--	--	--	--	--
	05/06/91	33.00	24.83	0.00	--	--	--	--	--	--
	09/27/91	DRY	--	--	--	--	--	--	--	--
	03/31/92	31.00	26.83	0.00	330,000	8,200	33,000	6,800	36,000	--
	06/18/92	32.76	25.07	0.00	680,000	9,000	40,000	7,600	44,000	--
	10/16/92	DRY	--	--	--	--	--	--	--	--
	11/18/92	DRY	--	--	--	--	--	--	--	--
	03/03/93	26.03	31.80	0.00	330,000	3,800	21,000	4,200	24,000	--
	06/25/93	28.36	29.47	0.00	160,000	4,300	36,000	5,800	34,000	--
	09/03/93	30.80	27.03	0.00	160,000	3,900	41,000	6,800	38,000	--
	12/13/93	32.73	25.10	0.00	140,000	3,600	37,000	7,100	40,000	--
	03/18/94	30.10	27.73	0.00	99,000	3,800	37,000	6,800	36,000	--
	06/23/94	31.32	26.51	0.00	150,000	2,500	33,000	6,400	37,000	--
	09/21/94	33.21	24.62	0.00	110,000	2,500	23,000	4,500	25,000	--
	12/19/94	30.97	26.86	0.00	200,000	2,400	28,000	6,600	37,000	--
	03/27/95	22.77	35.06	0.00	88,000	1,500	20,000	4,200	25,000	--
	06/26/95	25.69	32.14	0.00	130,000	1,000	23,000	5,600	33,000	--
	07/28/95	26.97	30.86	0.00	--	--	--	--	--	--
	09/28/95	29.55	28.28	0.00	100,000	810	21,000	6,500	37,000	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	10/24/95	29.99	27.84	0.00	--	--	--	--	--	--
(cont)	12/29/95	30.40	27.43	0.00	110,000	990	22,000	8,300	47,000	--
	03/27/96	22.29	35.54	0.00	120,000	920	17,000	7,100	41,000	180
	09/21/96	29.44	28.39	0.00	110,000	270	3,500	5,900	16,000	260
	03/31/97	24.18	33.65	0.00	82,000	240	8,700	3,800	23,000	ND
	09/27/97	31.86	25.97	0.00	81,000	ND	1,000	5,900	31,000	ND
	03/20/98	16.88	40.95	0.00	52,000	ND <sup>5</sup>	350	2,900	14,000	ND <sup>5</sup>
	09/09/98	26.21	31.62	0.00	59,000	51	64	6,000	4,800	ND <sup>5</sup>
	03/11/99	23.60	34.23	0.00	60,000	130	ND <sup>5</sup>	2,900	12,000	ND <sup>5</sup>
	09/08/99	28.70	29.13	0.00	74,000 <sup>7</sup>	ND <sup>5</sup>	ND <sup>5</sup>	2,600	10,000	ND <sup>5</sup>
	<b>03/24/00</b>	<b>21.61</b>	<b>36.22</b>	<b>0.00</b>	<b>37,000<sup>7</sup></b>	<b>ND<sup>5</sup></b>	<b>ND<sup>5</sup></b>	<b>1,980</b>	<b>6,880</b>	<b>ND<sup>5</sup></b>
<b>MW-2</b>										
58.13	10/03/88	36.04	22.09	0.00	1,760	47.8	7.4	20.9	81.6	--
	01/27/89	34.77	23.36	0.00	510	58	8.7	22.6	20.3	--
	02/16/90	34.50	23.63	0.00	840	50	0.5	28	44	--
	05/90	--	--	--	1,000	39	ND	32	52	--
	07/19/90	35.72	22.41	0.00	--	--	--	--	--	--
	08/24/90	36.30	21.83	0.00	330	17	ND	19	20	--
	11/30/90	37.40	20.73	0.00	400	41	ND	39	37	--
	02/07/91	37.27	20.86	0.00	510	40	ND	29	44	--
	05/06/91	33.31	24.82	0.00	2,300	150	10	52	110	--
	09/27/91	36.86	21.27	0.00	110	2.6	ND	5.6	5.1	--
	12/27/91	37.66	20.47	0.00	170	3.9	ND	7.3	60	--
	03/31/92	37.66	20.47	0.00	--	--	--	--	--	--
	06/18/92	31.27	26.86	0.00	1,200	35	1.6	56	26	--
	09/30/92	--	--	--	820	21	ND	42	25	--
	10/16/92	35.87	22.26	0.00	--	--	--	--	--	--
	11/18/92	36.24	21.89	0.00	65	1.2	ND	2.8	1.4	--
	03/03/93	26.30	31.83	0.00	4,200	62	2.9	97	120	--
	06/25/93	28.40	29.73	0.00	4,000	110	ND	320	280	--
	09/03/93	31.10	27.03	0.00	1,400	31	4.3	99	53	--
	12/13/93	33.03	25.10	0.00	260	7.7	0.83	17	23	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	03/18/94	30.34	27.79	0.00	250	6.4	0.64	28	24	--
(cont)	06/23/94	31.63	26.50	0.00	420	3.9	0.66	23	11	--
	09/21/94	33.52	24.61	0.00	ND	ND	ND	ND	ND	--
	12/19/94	31.26	26.87	0.00	190	1.9	ND	15	6.8	--
	03/27/95 <sup>2</sup>	23.02	35.11	0.00	ND	ND	0.55	1.2	2.5	--
	06/26/95	25.98	32.15	0.00	ND	ND	0.93	0.88	3.4	--
	07/28/95	27.26	30.87	0.00	--	--	--	--	--	--
	09/28/95	29.77	28.36	0.00	730	2.9	ND	41	29	--
	10/24/95	30.56	27.57	0.00	--	--	--	--	--	--
	12/29/95	30.25	27.88	0.00	860	4.3	1.0	27	50	--
	03/27/96	22.30	35.83	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)					--
	09/21/96	29.47	28.66	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)					--
	03/31/97	24.20	33.93	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.07	27.06	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	16.73	41.40	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.03	32.10	0.00	ND	ND	0.54	ND	0.57	ND
	03/11/99	23.46	34.67	0.00	ND	ND	0.59	ND	1.1	ND
	09/08/99	28.53	29.60	0.00	ND	ND	ND	ND	ND	ND
	<b>03/24/00</b>	<b>21.45</b>	<b>36.68</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>MW-3</b>										
57.92	10/03/88	35.86	22.06	0.00	61,000	1,060	3,380	1,520	8,720	--
	01/27/89	34.60	23.32	0.00	39,000	1,570	2,830	1,250	7,070	--
	02/16/90	35.23	22.69	0.00	22,000	710	4,100	6,900	33,000	--
	05/90	--	--	--	19,000	330	170	310	1,500	--
	07/19/90	35.50	22.42	0.00	--	--	--	--	--	--
	08/24/90	36.08	21.84	0.00	19,000	480	160	510	1,500	--
	11/30/90	37.17	20.75	0.00	13,000	390	81	410	1,000	--
	02/06/91	37.07	20.85	0.00	13,000	310	150	380	1,200	--
	05/06/91	33.11	24.81	0.00	39,000	1,000	570	930	3,900	--
	09/27/91	36.64	21.28	0.00	4,000	160	84	180	560	--
	12/27/91	37.46	20.46	0.00	31,000	240	280	400	1,600	--
	03/31/92	31.10	26.82	0.00	100,000	1,900	1,900	2,300	9,400	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	06/18/92	32.83	25.09	0.00	180,000	2,200	1,700	2,300	1,100	--
(cont)	09/30/92	--	--	--	36,000	730	200	1,000	4,400	--
	10/16/92	35.66	22.26	0.00	--	--	--	--	--	--
	11/18/92	36.04	21.88	0.00	24,000 <sup>1</sup>	430	160	640	2,800	--
	03/03/93	26.11	31.81	0.00	96,000 <sup>1</sup>	1,400	1,900	1,400	8,400	--
	06/25/93	28.43	29.49	0.00	27,000	1,200	980	1,700	6,900	--
	09/03/93	30.88	27.04	0.00	82,000	2,400	3,400	4,200	21,000	--
	12/13/93	32.82	25.10	0.00	49,000	1,300	360	2,300	9,200	--
	03/18/94	30.17	27.75	0.00	22,000	1,200	430	2,200	9,700	--
	06/23/94	31.42	26.50	0.00	37,000	1,300	670	3,100	14,000	--
	09/21/94	33.30	24.62	0.00	24,000	890	110	2,200	8,800	--
	12/19/94	31.07	26.85	0.00	100,000	1,200	2,900	4,200	23,000	--
	03/27/95 <sup>2</sup>	22.78	35.14	0.00	33,000	410	66	1,600	6,500	--
	06/26/95	25.78	32.14	0.00	14,000	300	ND	1,300	3,900	--
	07/28/95	27.06	30.86	0.00	--	--	--	--	--	--
	09/28/95	29.57	28.35	0.00	17,000	730	30	4,000	8,800	-- <sup>3</sup>
	10/24/95	30.34	27.58	0.00	--	--	--	--	--	--
	12/29/95	29.91	28.01	0.00	55,000	700	ND	4,900	16,000	-- <sup>4</sup>
	03/27/96	21.99	35.93	0.00	NOT SAMPLED (CONNECTED TO REMEDIATION SYSTEM)					--
	09/21/96	29.15	28.77	0.00	34,000	140	ND	2,200	6,600	1,800
	03/31/97	23.86	34.06	0.00	17,000	58	110	530	1,500	ND
	09/27/97	30.76	27.16	0.00	11,000	19	ND	850	420	140
	03/20/98	16.39	41.53	0.00	ND	ND	ND	ND	ND	74
	09/09/98	25.70	32.22	0.00	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>
	03/11/99	23.12	34.80	0.00	7,300	ND	ND	320	210	ND
	09/08/99	28.21	29.71	0.00	7,900 <sup>7</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	160	ND <sup>5</sup>
	<b>03/24/00</b>	<b>21.12</b>	<b>36.80</b>	<b>0.00</b>	<b>3,310<sup>7</sup></b>	<b>5.40</b>	<b>ND<sup>5</sup></b>	<b>101</b>	<b>43.3</b>	<b>ND<sup>5</sup></b>
<b>MW-4</b>										
58.29	10/03/88	36.12	22.17	0.00	ND	ND	ND	ND	ND	--
	01/27/89	34.87	23.42	0.00	ND	ND	ND	ND	ND	--
	02/16/90	35.60	22.69	0.00	ND	ND	ND	ND	ND	--
	05/90	--	--	--	ND	ND	ND	0.68	1.4	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	07/19/90	35.78	22.51	0.00	--	--	--	--	--	--
(cont)	08/24/90	36.35	21.94	0.00	ND	ND	ND	ND	ND	--
	11/30/90	37.46	20.83	0.00	ND	ND	ND	ND	1.2	--
	02/06/91	37.40	20.89	0.00	ND	ND	ND	ND	ND	--
	05/06/91	33.39	24.90	0.00	--	--	--	--	--	--
	09/27/91	36.90	21.39	0.00	ND	ND	ND	ND	ND	--
	12/27/91	37.76	20.53	0.00	ND	ND	ND	ND	ND	--
	03/31/92	31.41	26.88	0.00	ND	ND	ND	ND	ND	--
	06/18/92	33.09	25.20	0.00	ND	ND	ND	ND	ND	--
	10/16/92	35.92	22.37	0.00	ND	ND	ND	ND	ND	--
	11/18/92	36.33	21.96	0.00	--	--	--	--	--	--
	03/03/93	26.43	31.86	0.00	68	0.9	0.6	ND	1.9	--
	06/25/93	28.60	29.69	0.00	--	--	--	--	--	--
	09/03/93	31.05	27.24	0.00	86	14	13	1.4	7.1	--
	12/13/93	33.09	25.20	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--
	03/18/94	30.42	27.87	0.00	ND	ND	ND	ND	ND	--
	06/23/94	31.95	26.34	0.00	--	--	--	--	--	--
	09/21/94	33.86	24.43	0.00	ND	ND	0.78	ND	0.81	--
	12/19/94	31.72	26.57	0.00	--	--	--	--	--	--
	03/27/95	23.44	34.85	0.00	ND	ND	0.79	0.5	3.1	--
	06/26/95	26.26	32.03	0.00	--	--	--	--	--	--
	07/28/95	27.53	30.76	0.00	--	--	--	--	--	--
	09/28/95	30.05	28.24	0.00	ND	ND	ND	ND	ND	-- <sup>3</sup>
	10/24/95	30.79	27.50	0.00	--	--	--	--	--	--
	12/29/95	30.96	27.33	0.00	--	--	--	--	--	--
	03/27/96	22.71	35.58	0.00	ND	ND	0.70	ND	0.79	ND
	09/21/96	29.88	28.41	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	24.72	33.57	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.68	26.61	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	17.27	41.02	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.58	31.71	0.00	ND	ND	ND	ND	0.65	3.0
	03/11/99	24.12	34.17	0.00	ND	ND	0.70	ND	1.2	ND
	09/08/99	29.18	29.11	0.00	ND	ND	ND	ND	0.78	ND
	<b>03/24/00</b>	<b>22.08</b>	<b>36.21</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product							
				Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-5											
58.50	02/16/90	35.89	22.61	0.00	67	0.51	1.6	2.9	7.5	--	
	05/90	--	--	--	ND	ND	ND	ND	ND	--	
	07/19/90	36.10	22.40	0.00	--	--	--	--	--	--	
	08/24/90	36.67	21.83	0.00	ND	ND	ND	ND	ND	--	
	11/30/90	37.74	20.76	0.00	ND	ND	0.7	ND	ND	--	
	02/06/91	37.62	20.88	0.00	ND	ND	ND	ND	ND	--	
	05/06/91	33.67	24.83	0.00	--	--	--	--	--	--	
	09/27/91	37.23	21.27	0.00	ND	ND	ND	ND	ND	--	
	12/27/91	38.02	20.48	0.00	ND	ND	ND	ND	ND	--	
	03/31/92	31.62	26.88	0.00	ND	ND	ND	ND	1.1	--	
	06/18/92	33.46	25.04	0.00	--	--	--	--	--	--	
	10/16/92	36.23	22.27	0.00	ND	ND	ND	ND	ND	--	
	11/18/92	36.62	21.88	0.00	--	--	--	--	--	--	
	03/03/93	26.62	31.88	0.00	ND	ND	ND	ND	ND	--	
	06/25/93	INACCESSIBLE	--	--	--	--	--	--	--	--	
	09/03/93	31.45	27.05	0.00	ND	ND	1.5	ND	7.9	--	
	12/13/93	33.39	25.11	0.00	SAMPLED SEMI-ANNUALLY		--	--	--	--	
	03/18/94	30.67	27.83	0.00	ND	ND	ND	ND	ND	--	
	06/23/94	32.00	26.50	0.00	--	--	--	--	--	--	
	09/21/94	33.90	24.60	0.00	ND	ND	0.98	ND	1.6	--	
	12/19/94	31.63	26.87	0.00	--	--	--	--	--	--	
	03/27/95	23.44	35.06	0.00	ND	ND	0.66	ND	2.9	--	
	06/26/95	26.35	32.15	0.00	--	--	--	--	--	--	
	07/28/95	27.63	30.87	0.00	--	--	--	--	--	--	
	09/28/95	30.15	28.35	0.00	ND	ND	ND	ND	ND	--	
	10/24/95	30.98	27.52	0.00	--	--	--	--	--	--	
	12/29/95	30.87	27.63	0.00	--	--	--	--	--	--	
	03/27/96	22.75	35.75	0.00	ND	ND	1.7	ND	2.4	ND	
	09/21/96	29.95	28.55	0.00	ND	ND	ND	ND	ND	ND	
	03/31/97	24.80	33.70	0.00	ND	ND	ND	ND	ND	ND	
	09/27/97	31.65	26.85	0.00	ND	ND	ND	ND	ND	ND	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-5 (cont)	03/20/98	17.31	41.19	0.00	ND	ND	ND	ND	ND	ND	
	09/09/98	26.63	31.87	0.00	ND	ND	ND	ND	ND	ND	
	03/11/99	24.08	34.42	0.00	ND	ND	0.96	ND	1.7	ND	
	09/08/99	29.16	29.34	0.00	ND	ND	ND	ND	ND	ND	
	<b>03/24/00</b>	<b>22.06</b>	<b>36.44</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>0.957</b>	<b>ND</b>	
MW-6 56.96	02/16/90	34.50	22.46	0.00	ND	ND	ND	ND	ND	--	
	05/90	--	--	--	ND	ND	ND	ND	ND	--	
	07/19/90	34.74	22.22	0.00	ND	ND	ND	ND	ND	--	
	08/24/90	35.32	21.64	0.00	ND	ND	ND	ND	ND	--	
	11/30/90	36.38	20.58	0.00	ND	ND	ND	ND	ND	--	
	02/06/91	36.27	20.69	0.00	ND	ND	ND	ND	ND	--	
	05/06/91	32.41	24.55	0.00	--	--	--	--	--	--	
	09/27/91	35.87	21.09	0.00	ND	ND	ND	ND	ND	--	
	12/27/91	36.67	20.29	0.00	ND	ND	ND	ND	ND	--	
	03/31/92	30.32	26.64	0.00	ND	ND	1.3	ND	2	--	
	06/18/92	32.18	24.78	0.00	ND	ND	ND	ND	ND	--	
	10/16/92	34.92	22.04	0.00	ND	ND	ND	ND	ND	--	
	11/18/92	35.28	21.68	0.00	--	--	--	--	--	--	
	03/03/93	25.43	31.53	0.00	ND <sup>1</sup>	ND	ND	ND	ND	--	
	06/25/93	27.86	29.10	0.00	--	--	--	--	--	--	
	09/03/93	30.25	26.71	0.00	ND	ND	ND	ND	ND	--	
	12/13/93	32.14	24.82	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--
	03/18/94	29.46	27.50	0.00	ND	ND	0.93	ND	1.4	--	
	06/23/94	30.76	26.20	0.00	--	--	--	--	--	--	
	09/21/94	32.62	24.34	0.00	ND	ND	ND	ND	ND	--	
	12/19/94	30.32	26.64	0.00	--	--	--	--	--	--	
03/27/95	22.10	34.86	0.00	56	ND	0.65	ND	3.3	--		
06/26/95	25.20	31.76	0.00	--	--	--	--	--	--		
07/28/95	26.48	30.48	0.00	--	--	--	--	--	--		
09/28/95	28.92	28.04	0.00	ND	ND	ND	ND	ND	--		
10/24/95	29.73	27.23	0.00	--	--	--	--	--	--		

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product		TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
				Thickness (ft.)								
MW-6 (cont)	12/29/95	29.62	27.34	0.00		--	--	--	--	--	--	
	03/27/96	21.59	35.37	0.00		50	ND	0.92	ND	0.96	ND	
	09/21/96	28.72	28.24	0.00		ND	ND	ND	ND	ND	ND	
	03/31/97	23.72	33.24	0.00		73	0.67	0.82	ND	ND	ND	
	09/27/97	30.52	26.44	0.00		ND	ND	ND	ND	ND	ND	
	03/20/98	16.35	40.61	0.00		ND	ND	ND	ND	ND	ND	
	09/09/98	25.53	31.43	0.00		ND	ND	0.64	ND	0.65	3.3	
	03/11/99	22.85	34.11	0.00		ND	ND	0.71	ND	1.4	ND	
	09/08/99	28.01	28.95	0.00		ND	ND	ND	ND	ND	ND	
	<b>03/24/00</b>	<b>20.93</b>	<b>36.03</b>	<b>0.00</b>		<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
MW-7 57.25	02/16/90	35.75	21.50	0.00		ND	ND	ND	ND	ND	--	
	05/90	--	--	--		24	ND	ND	0.74	1.7	--	
	07/19/90	35.03	22.22	0.00		--	--	--	--	--	--	
	08/24/90	35.64	21.61	0.00		ND	ND	ND	ND	ND	--	
	11/30/90	36.68	20.57	0.00		ND	ND	ND	0.6	1.5	--	
	02/06/91	36.55	20.70	0.00		ND	ND	ND	ND	ND	--	
	05/06/91	32.69	24.56	0.00		ND	ND	ND	ND	ND	--	
	09/27/91	36.18	21.07	0.00		ND	ND	ND	ND	ND	--	
	12/27/91	36.96	20.29	0.00		ND	ND	ND	ND	ND	--	
	03/31/92	30.56	26.69	0.00		ND	ND	ND	ND	0.9	--	
	06/18/92	32.52	24.73	0.00		--	--	--	--	--	--	
	10/16/92	35.24	22.01	0.00		ND	ND	ND	ND	ND	--	
	11/18/92	35.59	21.66	0.00		--	--	--	--	--	--	
	03/03/93	25.66	31.59	0.00		ND	ND	ND	ND	ND	--	
	06/25/93	28.25	29.00	0.00		--	--	--	--	--	--	
	09/03/93	30.60	26.65	0.00		ND	ND	ND	ND	ND	--	
	12/13/93	32.45	24.80	0.00		SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	03/18/94	29.76	27.49	0.00		ND	ND	ND	ND	ND	--	
	06/23/94	31.10	26.15	0.00		--	--	--	--	--	--	
	09/21/94	32.96	24.29	0.00		ND	0.5	ND	ND	0.89	--	
12/19/94	30.60	26.65	0.00		--	--	--	--	--	--		

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**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	03/27/95	22.43	34.82	0.00	ND	ND	0.54	ND	1.9	--
(cont)	06/26/95	25.55	31.70	0.00	--	--	--	--	--	--
	07/28/95	26.84	30.41	0.00	--	--	--	--	--	--
	09/28/95	29.29	27.96	0.00	ND	ND	ND	ND	ND	-- <sup>3</sup>
	10/24/95	30.05	27.20	0.00	--	--	--	--	--	--
	12/29/95	29.91	27.34	0.00	--	--	--	--	--	--
	03/27/96	21.94	35.31	0.00	ND	ND	1.1	ND	1.7	ND
	09/21/96	29.07	28.18	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	24.02	33.23	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	30.84	26.41	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	16.68	40.57	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	25.89	31.36	0.00	ND	ND	ND	ND	ND	4.1
	03/11/99	23.16	34.09	0.00	ND	ND	0.91	ND	1.6	5.7
	09/08/99	28.32	28.93	0.00	ND	ND	ND	ND	ND	2.7
	<b>03/24/00</b>	<b>21.23</b>	<b>36.02</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>MW-8</b>										
57.71	02/16/90	35.10	22.61	0.00	1,900	11	ND	52	55	--
	05/90	--	--	--	770	6.5	ND	20	32	--
	07/19/90	35.41	22.30	0.00	--	--	--	--	--	--
	08/24/90	36.00	21.71	0.00	990	13	ND	48	66	--
	11/30/90	37.08	20.63	0.00	570	13	ND	45	36	--
	02/06/91	36.92	20.79	0.00	630	9.6	ND	35	36	--
	05/06/91	33.03	24.68	0.00	14,000	80	ND	250	550	--
	09/27/91	36.55	21.16	0.00	720	13	4.3	26	26	--
	12/27/91	37.34	20.37	0.00	1,600	15	2.9	40	49	--
	03/31/92	31.93 <sup>6</sup>	25.78	0.00	15,000	120	1.0	430	530	--
	06/18/92	INACCESSIBLE	--	--	--	--	--	--	--	--
	10/16/92	35.58	22.13	0.00	300	0.96	ND	4.0	3.5	--
	11/18/92	35.94	21.77	0.00	1,100	6.1	ND	13	5.6	--
	03/03/93	26.00	31.71	0.00	13,000	33	ND	160	290	--
	06/25/93	28.27	29.44	0.00	8,100	160	ND	580	740	--
	09/03/93	30.90	26.81	0.00	9,800	180	ND	580	700	--

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**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product						
				Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8 (cont)	12/13/93	32.75	24.96	0.00	6,900	180	ND	240	550	--
	03/18/94	30.12	27.59	0.00	6,100	85	ND	260	260	--
	06/23/94	31.40	26.31	0.00	12,000	210	ND	610	860	--
	09/21/94	33.30	24.41	0.00	6,900	190	ND	460	510	--
	12/19/94	30.95	26.76	0.00	6,200	91	ND	230	210	--
	03/27/95 <sup>2</sup>	22.78	34.93	0.00	9,200	240	ND	200	1,400	--
	06/26/95	24.83	32.88	0.00	11,000	320	ND	680	2,000	--
	07/28/95	27.10	30.61	0.00	--	--	--	--	--	--
	09/28/95	29.58	28.13	0.00	10,000	250	ND	760	910	-- <sup>3</sup>
	10/24/95	30.40	27.31	0.00	--	--	--	--	--	--
	12/29/95	30.25	27.46	0.00	7,500	260	ND	580	870	-- <sup>4</sup>
	03/27/96	22.20	35.51	0.00	970	29	0.77	82	85	ND
	09/21/96	29.34	28.37	0.00	3,800	27	ND	46	45	ND
	03/31/97	24.35	33.36	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	31.15	26.56	0.00	78	0.90	ND	12	ND	ND
	03/20/98	16.84	40.87	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	26.14	31.57	0.00	910	ND	49	12	2.2	1.5
	03/11/99	23.48	34.23	0.00	4,700	9.6	ND <sup>5</sup>	280	95	ND <sup>5</sup>
	09/08/99	28.60	29.11	0.00	1,900 <sup>7</sup>	ND <sup>5</sup>	ND <sup>5</sup>	36	ND <sup>5</sup>	ND <sup>5</sup>
<b>03/24/00</b>	<b>21.49</b>	<b>36.22</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
<b>MW-9</b>										
56.47	12/19/94	29.71	26.76	0.00	ND	ND	1.6	1.5	8.4	--
	03/27/95	21.48	34.99	0.00	ND	ND	0.61	ND	2.8	--
	06/26/95	24.50	31.97	0.00	ND	ND	ND	ND	3.9	--
	07/28/95	25.77	30.70	0.00	--	--	--	--	--	--
	09/28/95	28.23	28.24	0.00	ND	ND	ND	ND	ND	--
	10/24/95	29.21	27.26	0.00	--	--	--	--	--	--
	12/29/95	29.02	27.45	0.00	ND	ND	0.58	ND	0.52	--
	03/27/96	20.91	35.56	0.00	ND	ND	0.68	ND	0.51	ND
	09/21/96	28.05	28.42	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	23.48	32.99	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	30.38	26.09	0.00	ND	ND	ND	ND	ND	ND



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	03/20/98	15.60	40.87	0.00	ND	ND	ND	ND	ND	ND
(cont)	09/09/98	24.85	31.62	0.00	ND	0.69	ND	ND	0.61	ND
	03/11/99	22.23	34.24	0.00	ND	ND	ND	ND	0.76	ND
	09/08/99	27.34	29.13	0.00	ND	ND	ND	ND	ND	ND
	<b>03/24/00</b>	<b>20.27</b>	<b>36.20</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>MW-10</b>										
58.94	07/28/95	25.53	33.41	0.00	ND	ND	ND	ND	ND	--
	09/28/95	--	--	--	--	--	--	--	--	--
	10/24/95	31.76	27.18	0.00	ND	ND	ND	ND	ND	--
	12/29/95	31.55	27.39	0.00	ND	ND	0.65	ND	1.1	--
	03/27/96	23.62	35.32	0.00	ND	ND	0.68	ND	0.69	ND
	09/21/96	30.77	28.17	0.00	ND	ND	ND	ND	ND	ND
	03/31/97	26.05	32.89	0.00	ND	ND	ND	ND	ND	ND
	09/27/97	32.80	26.14	0.00	ND	ND	ND	ND	ND	ND
	03/20/98	18.13	40.81	0.00	ND	ND	ND	ND	ND	ND
	09/09/98	27.54	31.40	0.00	ND	ND	0.55	ND	ND	ND
	03/11/99	24.85	34.09	0.00	ND	ND	0.61	ND	0.87	ND
	09/08/99	29.97	28.97	0.00	ND	ND	ND	ND	ND	ND
	<b>03/24/00</b>	<b>22.90</b>	<b>36.04</b>	<b>0.00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
<b>Trip Blank</b>										
TB-LB	03/20/98	--	--	--	ND	ND	ND	ND	ND	ND
	09/09/98	--	--	--	ND	ND	ND	ND	ND	ND
	03/11/99	--	--	--	ND	ND	ND	ND	ND	ND
	09/08/99	--	--	--	ND	ND	ND	ND	ND	ND
	<b>03/24/00</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

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**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to March 20, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

msl = Relative to mean sea level

TPH(G) = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

ppb = Parts per billion

ppm = Parts per million

ND = Not Detected

-- = Not Measured/Not Analyzed

\* TOC elevations have been surveyed relative to mean sea level (msl).

\*\* Groundwater elevation was not corrected due to the presence of free product.

<sup>1</sup> Chromatogram contains early eluting peak.

<sup>2</sup> On March 27, 1995, total dissolved solid concentrations were as follows: MW-2 at 410 ppm; MW-3 at 450 ppm; MW-8 at 490 ppm.

<sup>3</sup> Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.

<sup>4</sup> Laboratory has identified the presence of MTBE at a level above or equal to the taste odor threshold of 40 ppb in the groundwater sample from this well.

<sup>5</sup> Detection limit raised. Refer to analytical reports.

<sup>6</sup> Data suspect; not used in water-elevation determination.

<sup>7</sup> Laboratory report indicates gasoline C6-C12.

**Table 2**  
**Dissolved Oxygen Concentrations**  
Tosco (Unocal) Service Station #5367  
500 Bancroft Avenue  
San Leandro, California

Well ID	Date	Before Purging (mg/L)	After Purging (mg/L)
MW-1	03/27/95 <sup>1</sup>	--	1.5
	06/26/95	--	1.60
	09/28/95	--	1.22
	12/29/95	--	1.74
	03/27/96	1.48	1.02
	09/21/96	--	1.01
	03/31/97	1.47	1.49
MW-2	03/27/95 <sup>1</sup>	--	1.7
	06/26/95	--	4.55
	09/28/95	--	3.00
	12/29/95	--	8.71
	03/27/96	--	--
	09/21/96	--	--
	03/31/97	2.18	2.12
MW-3	03/27/95 <sup>1</sup>	--	0.90
	06/26/95	--	1.55
	09/28/95	--	1.63
	12/29/95	--	6.97
	03/27/96	--	--
	09/21/96	--	--
	03/31/97	1.95	2.06
MW-4	03/27/95 <sup>1</sup>	--	4.90
	06/26/95	--	--
	09/28/95	--	6.29
	12/29/95	--	--
	03/27/96	4.32	3.91
	09/21/96	--	2.82
	03/31/97	2.66	2.63
MW-5	03/27/95 <sup>1</sup>	--	5.20
	06/26/95	--	--
	09/28/95	--	1.96
	12/29/95	--	--
	03/27/96	4.03	4.71
	09/21/96	--	4.12
	03/31/97	2.98	3.11
MW-6	03/27/95 <sup>1</sup>	--	7.4
	06/26/95	--	--
	09/28/95	--	4.19
	12/29/95	--	--
	03/27/96	5.94	4.96
	09/21/96	--	3.74
	03/31/97	3.21	3.11

**Table 2**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #5367  
 500 Bancroft Avenue  
 San Leandro, California

Well ID	Date	Before Purging (mg/L)	After Purging (mg/L)
MW-7	03/27/95 <sup>1</sup>	--	8.4
	06/26/95	--	--
	09/28/95	--	2.04
	12/29/95	--	--
	03/27/96	6.63	5.23
	09/21/96	--	1.19
	03/31/97	2.29	2.16
MW-8	03/27/95 <sup>1</sup>	--	2.2
	06/26/95	--	3.86
	09/28/95	--	1.85
	12/29/95	--	2.03
	03/27/96	11.73	9.76
	09/21/96	--	2.16
	03/31/97	2.81	2.91
	09/27/97	3.11	--
	03/20/98	--	2.65
MW-9	03/27/95 <sup>1</sup>	--	7.8
	06/26/95	--	4.61
	09/28/95	--	5.76
	12/29/95	--	5.32
	03/27/96	5.62	5.23
	09/21/96	--	4.13
	03/31/97	3.36	3.27
MW-10	12/29/95	--	5.11
	03/27/96	4.38	4.57
	09/21/96	--	5.38
	03/31/97	4.48	4.83

**EXPLANATIONS:**

Dissolved oxygen concentrations prior to March 20, 1998, were compiled from reports prepared by MPDS Services, Inc.

mg/L = milligrams per liter

-- = Not Measured

<sup>1</sup> The measurements were taken at Sequoia Analytical Laboratory.

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

## 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/ Tosco  
 Facility # 5367  
 Address: 500 Bancroft Ave.  
 City: San Leandro

Job#: 180108  
 Date: 3/24/00  
 Sampler: Vaultles

Well ID MW-1  
 Well Diameter ② 4" in.  
 Total Depth 35.14 ft.  
 Depth to Water 21.61 ft.

Well Condition: OK

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

13.53 x VF 0.17 = 2.30 x 3 (case volume) = Estimated Purge Volume: 6.90 (gal.)

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

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

Starting Time: 2:30  
 Sampling Time: 2:50  
 Purging Flow Rate: 1 gpm.  
 Did well de-water? no

Weather Conditions: clear  
 Water Color: clear odor: yes  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}/100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>2:32</u>	<u>2</u>	<u>6.97</u>	<u>7.00</u>	<u>71.1</u>	_____	_____	_____
<u>2:35</u>	<u>4.5</u>	<u>6.90</u>	<u>7.09</u>	<u>69.0</u>	_____	_____	_____
<u>2:37</u>	<u>7</u>	<u>6.89</u>	<u>6.91</u>	<u>68.1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367 Job#: 180108  
 Address: 500 Bancroft Ave. Date: 3/24/00  
 City: San Leandro Sampler: Vaultles

Well ID MW-2 Well Condition: OK  
 Well Diameter 2" (4") in. Hydrocarbon Thickness: Ø Amount Bailed (product/water): Ø (Gallons)  
 Total Depth 46.91 ft.  
 Depth to Water 21.45 ft.

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

25.46 x VF 0.66 = 16.8 x 3 (case volume) = Estimated Purge Volume: 50.41 (gal.)

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

Starting Time: 10:08 Weather Conditions: clear  
 Sampling Time: 10:35 Water Color: clear Odor: no  
 Purging Flow Rate: 25 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:15</u>	<u>17</u>	<u>7.58</u>	<u>5.65</u>	<u>66.6</u>			
<u>10:22</u>	<u>34</u>	<u>7.50</u>	<u>5.57</u>	<u>66.9</u>			
<u>10:28</u>	<u>50.5</u>	<u>7.41</u>	<u>5.54</u>	<u>66.3</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(G)/btex/mtbe</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367  
 Address: 500 Bancroft Ave.  
 City: San Leandro

Job#: 180108  
 Date: 3/24/00  
 Sampler: Vastler

Well ID MW-3  
 Well Diameter 2" (4") in.  
 Total Depth 48.20 ft.  
 Depth to Water 21.12 ft.

Well Condition: OK  
 Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.89
--------------------	-----------	-----------	-----------	-----------	------------

27.08 x VF 0.66 17.87 x 3 (case volume) = Estimated Purge Volume: 53.6 (gal.)

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

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

Starting Time: 1:48  
 Sampling Time: 2:20  
 Purging Flow Rate: 2.5 gpm.  
 Did well de-water? NO

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:55</u>	<u>18.0</u>	<u>7.17</u>	<u>6.31</u>	<u>69.2</u>	_____	_____	_____
<u>2:02</u>	<u>36.0</u>	<u>6.97</u>	<u>6.28</u>	<u>68.8</u>	_____	_____	_____
<u>2:09</u>	<u>54.0</u>	<u>6.92</u>	<u>6.26</u>	<u>68.7</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

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

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



**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367  
 Address: 580 Bancroft Ave.  
 City: San Leandro

Job#: 180108  
 Date: 3/24/00  
 Sampler: Vantkes

Well ID MW-4  
 Well Diameter 2" (4") in.  
 Total Depth 48.52 ft.  
 Depth to Water 22.08 ft.

Well Condition: OK  
 Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)  

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

26.44 x VF 0.66 = 17.45 x 3 (case volume) = Estimated Purge Volume: 52.35 (gal.)

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

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

Starting Time: 10:48 AM  
 Sampling Time: 11:07  
 Purging Flow Rate: 2.5 gpm.  
 Did well de-water? NO

Weather Conditions: Clear  
 Water Color: Clear Odor: NO  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:55</u>	<u>17.5</u>	<u>7.72</u>	<u>5.04</u>	<u>65.5</u>			
<u>11:03</u>	<u>35.0</u>	<u>7.60</u>	<u>5.04</u>	<u>65.2</u>			
<u>11:10</u>	<u>52.5</u>	<u>7.59</u>	<u>5.02</u>	<u>65.3</u>			
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

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

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367  
 Address: 500 Bancroft Ave.  
 City: San Leandro

Job#: 180108  
 Date: 3/24/00  
 Sampler: Vasthes

Well ID MW5  
 Well Diameter (2") 4" in.  
 Total Depth 44.38 ft.  
 Depth to Water 22.06 ft.

Well Condition: OK

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

22.32 x VF 0.17 = 3.79 x 3 (case volume) = Estimated Purge Volume: 11.38 (gal.)

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

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

Starting Time: 9:41  
 Sampling Time: 10:00  
 Purging Flow Rate: 1 gpm.  
 Did well de-water? NO

Weather Conditions: clear  
 Water Color: clear Odor: no  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:45</u>	<u>4</u>	<u>7.87</u>	<u>5.81</u>	<u>65.4</u>	_____	_____	_____
<u>9:48</u>	<u>8</u>	<u>7.67</u>	<u>5.53</u>	<u>66.0</u>	_____	_____	_____
<u>9:52</u>	<u>11.5</u>	<u>7.65</u>	<u>5.60</u>	<u>65.7</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>TPH(G)/btex/mtbe</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367  
 Address: 500 Bancroft Ave.  
 City: San Leandro

Job#: 180108  
 Date: 3/24/00  
 Sampler: Vaithes

Well ID MW-6  
 Well Diameter 2" 4" in.  
 Total Depth 44.62 ft.  
 Depth to Water 20.93 ft.

Well Condition: OK  
 Hydrocarbon Thickness: Ø (feet)  
 Amount Bailed (product/water): Ø (Gallons)

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

23.69 x VF 0.17 4.02 x 3 (case volume) = Estimated Purge Volume: 12.08 (gal.)

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

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

Starting Time: 12:33  
 Sampling Time: 12:50  
 Purging Flow Rate: 1 gpm.  
 Did well de-water? No

Weather Conditions: Clean  
 Water Color: Clear Odor: No  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}/100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:37</u>	<u>4.0</u>	<u>7.71</u>	<u>458</u>	<u>68.1</u>	_____	_____	_____
<u>12:41</u>	<u>5.0</u>	<u>7.48</u>	<u>461</u>	<u>67.9</u>	_____	_____	_____
<u>12:45</u>	<u>12.5</u>	<u>7.44</u>	<u>458</u>	<u>67.9</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367  
 Address: 500 Bancroft Ave.  
 City: San Leandro.

Job#: 180108  
 Date: 3/24/00  
 Sampler: Vautken

Well ID MW-7  
 Well Diameter 2" 4" in.  
 Total Depth 43.96 ft.  
 Depth to Water 21.23 ft.

Well Condition: OK

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

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

22.73 X VF 0.17 = 3.86 X 3 (case volume) = Estimated Purge Volume: 11.59 (gal.)

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

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

Starting Time: 12:02  
 Sampling Time: 12:18  
 Purging Flow Rate: 1 gpm.  
 Did well de-water? No

Weather Conditions: Clear  
 Water Color: Clear Odor: No  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}/100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:06</u>	<u>4.0</u>	<u>7.84</u>	<u>5.62</u>	<u>66.4</u>			
<u>12:00</u>	<u>8.0</u>	<u>7.31</u>	<u>5.69</u>	<u>66.2</u>			
<u>12:13</u>	<u>12.0</u>	<u>7.26</u>	<u>5.68</u>	<u>66.2</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPHIG)/btex/mtbe</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367  
 Address: 500 Bancroft Ave.  
 City: San Leandro

Job#: 180108  
 Date: 3/24/00  
 Sampler: Vaithes

Well ID MW-8  
 Well Diameter 2" 4" in.  
 Total Depth 43.88 ft.  
 Depth to Water 21.49 ft.

Well Condition: OK  
 Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)  

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

22.39 x VF 0.17 = 3.80 x 3 (case volume) = Estimated Purge Volume: 11.41 (gal.)

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

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

Starting Time: 1:10 p.m.  
 Sampling Time: 1:35  
 Purging Flow Rate: 1 gpm.  
 Did well de-water? no

Weather Conditions: clear  
 Water Color: clear Other: 4  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:14</u>	<u>2</u>	<u>6.88</u>	<u>7.10</u>	<u>68.7</u>			
<u>1:18</u>	<u>8</u>	<u>6.82</u>	<u>7.08</u>	<u>68.3</u>			
<u>1:21</u>	<u>11.5</u>	<u>6.83</u>	<u>6.95</u>	<u>68.2</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367  
 Address: 500 Bancroft Ave.  
 City: San Leandro

Job#: 180108  
 Date: 3/24/00  
 Sampler: Ventles

Well ID MW-9

Well Condition: OK

Well Diameter 2" 4" in.

Hydrocarbon Thickness: Ø (feet) Amount Bailed (Gallons) Ø

Total Depth 44.63 ft.

Depth to Water 20.27 ft.  
~~22.10~~

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

21.73 x VF 0.17 = 3.69 x 3 (case volume) = Estimated Purge Volume: 11.08 (gal.)

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

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

Starting Time: 11:35  
 Sampling Time: 11:51  
 Purging Flow Rate: 1 gpm.  
 Did well de-water? no

Weather Conditions: CLEAR  
 Water Color: clear Odor: no  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:39</u>	<u>4</u>	<u>7.74</u>	<u>4.73</u>	<u>66.7</u>			
<u>11:43</u>	<u>8</u>	<u>7.60</u>	<u>4.73</u>	<u>66.4</u>			
<u>11:46</u>	<u>11.5</u>	<u>7.56</u>	<u>4.72</u>	<u>66.2</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>TPH(G)/btex/mtbe</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Tosco  
 Facility # 5367  
 Address: 500 Bancroft Ave.  
 City: San Leandro

Job#: 180108  
 Date: 3/24/00  
 Sampler: Vaithes

Well ID MW-10  
 Well Diameter 2" 4" in.  
 Total Depth 42.65 ft.  
 Depth to Water 22.90 ft.

Well Condition: OK

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

19.75 x VF 0.17 = 3.35 X 3 (case volume) = Estimated Purge Volume: 10.07 (gal.)

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

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

Starting Time: 8:05  
 Sampling Time: 8:25  
 Purging Flow Rate: 1 gpm.  
 Did well de-water? no

Weather Conditions: clear  
 Water Color: clear Odor: no  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm/100	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:08	3.5	7.72	6.57	65.9			
8:11	7	7.60	6.70	67.1			
8:15	10.5	7.57	6.76	67.4			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

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







**Sequoia  
Analytical**

1551 Industrial Road  
San Carlos, CA 94070-4111  
(650) 232-9600  
FAX (650) 232-9612

RECEIVED

APR 11 2000

GETTLER-RYAN INC.  
GENERAL CONTRACTOR

April 7, 2000

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

RE: Tosco(4)/L003234

Dear Deanna Harding

Enclosed are the results of analyses for sample(s) received by the laboratory on March 24, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson  
Project Manager

CA ELAP Certificate Number 12360





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

Project: Tosco(4)  
Project Number: Unocal SS#5367/500 Bancroft Ave.  
Project Manager: Deanna Harding

Sampled: 3/24/00  
Received: 3/24/00  
Reported: 4/7/00

**ANALYTICAL REPORT FOR L003234**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	L003234-01	Water	3/24/00
MW-1	L003234-02	Water	3/24/00
MW-2	L003234-03	Water	3/24/00
MW-3	L003234-04	Water	3/24/00
MW-4	L003234-05	Water	3/24/00
MW-5	L003234-06	Water	3/24/00
MW-6	L003234-07	Water	3/24/00
MW-7	L003234-08	Water	3/24/00
MW-8	L003234-09	Water	3/24/00
MW-9	L003234-10	Water	3/24/00
MW-10	L003234-11	Water	3/24/00





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#5367/500 Bancroft Ave. Project Manager: Deanna Harding	Sampled: 3/24/00 Received: 3/24/00 Reported: 4/7/00
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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>L003234-01</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040017	4/5/00	4/5/00		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		100	%	
				<u>L003234-02</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040017	4/5/00	4/5/00		10000	37000	ug/l	1
Benzene	"	"	"		100	ND	"	
Toluene	"	"	"		100	ND	"	
Ethylbenzene	"	"	"		100	1980	"	
Xylenes (total)	"	"	"		100	6880	"	
Methyl tert-butyl ether	"	"	"		1000	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		101	%	
				<u>L003234-03</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040018	4/5/00	4/5/00		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		102	%	
				<u>L003234-04</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040025	4/6/00	4/6/00		250	3310	ug/l	1
Benzene	"	"	"		2.50	5.40	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	101	"	
Xylenes (total)	"	"	"		2.50	43.3	"	
Methyl tert-butyl ether	"	"	"		25.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		103	%	
				<u>L003234-05</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040025	4/6/00	4/6/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#5367/500 Bancroft Ave. Project Manager: Deanna Harding	Sampled: 3/24/00 Received: 3/24/00 Reported: 4/7/00
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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-4 (continued)</b>								
				<u>L003234-05</u>			<u>Water</u>	
Methyl tert-butyl ether	0040025	4/6/00	4/6/00		5.00	ND	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		103	%	
<b>MW-5</b>								
				<u>L003234-06</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040025	4/6/00	4/6/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	0.957	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		104	%	
<b>MW-6</b>								
				<u>L003234-07</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040019	4/5/00	4/6/00		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		103	%	
<b>MW-7</b>								
				<u>L003234-08</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040026	4/6/00	4/6/00		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		105	%	
<b>MW-8</b>								
				<u>L003234-09</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040026	4/6/00	4/6/00		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		96.8	%	
<b>MW-9</b>								
				<u>L003234-10</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	0040019	4/5/00	4/5/00		50.0	ND	ug/l	





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#5367/500 Bancroft Ave. Project Manager: Deanna Harding	Sampled: 3/24/00 Received: 3/24/00 Reported: 4/7/00
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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>Water</u>	
<u>MW-9 (continued)</u>				<u>L003234-10</u>				
Benzene	0040019	4/5/00	4/5/00		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		105	%	
							<u>Water</u>	
<u>MW-10</u>				<u>L003234-11</u>				
Purgeable Hydrocarbons as Gasoline	0040019	4/5/00	4/5/00		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	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		102	%	





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

Project: Tosco(4)  
Project Number: Unocal SS#5367/500 Bancroft Ave.  
Project Manager: Deanna Harding

Sampled: 3/24/00  
Received: 3/24/00  
Reported: 4/7/00

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS EPT/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>Batch: 0040017</b>		<b>Date Prepared: 4/5/00</b>		<b>Extraction Method: EPA 5030B [P/T]</b>						
<b>Blank</b>		<b>0040017-BLK1</b>								
Purgeable Hydrocarbons as Gasoline	4/5/00			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		10.9	"	70.0-130	109			
<b>LCS</b>		<b>0040017-BS1</b>								
Benzene	4/5/00	10.0		8.95	ug/l	70.0-130	89.5			
Toluene	"	10.0		8.29	"	70.0-130	82.9			
Ethylbenzene	"	10.0		8.48	"	70.0-130	84.8			
Xylenes (total)	"	30.0		25.7	"	70.0-130	85.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.3	"	70.0-130	113			
<b>LCS</b>		<b>0040017-BS2</b>								
Purgeable Hydrocarbons as Gasoline	4/5/00	250		241	ug/l	70.0-130	96.4			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.5	"	70.0-130	105			
<b>Matrix Spike</b>		<b>0040017-MS1</b>		<b>L003226-04</b>						
Purgeable Hydrocarbons as Gasoline	4/5/00	250	ND	244	ug/l	60.0-140	97.6			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.79	"	70.0-130	97.9			
<b>Matrix Spike Dup</b>		<b>0040017-MSD1</b>		<b>L003226-04</b>						
Purgeable Hydrocarbons as Gasoline	4/5/00	250	ND	218	ug/l	60.0-140	87.2	25.0	11.3	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.33	"	70.0-130	93.3			
<b>Batch: 0040018</b>		<b>Date Prepared: 4/5/00</b>		<b>Extraction Method: EPA 5030B [P/T]</b>						
<b>Blank</b>		<b>0040018-BLK1</b>								
Purgeable Hydrocarbons as Gasoline	4/5/00			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		9.88	"	70.0-130	98.8			
<b>LCS</b>		<b>0040018-BS1</b>								
Benzene	4/5/00	10.0		11.0	ug/l	70.0-130	110			
Toluene	"	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#5367/500 Bancroft Ave. Project Manager: Deanna Harding	Sampled: 3/24/00 Received: 3/24/00 Reported: 4/7/00
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**Total Purgeable Hydrocarbons (C6-C12): BTEX and MTBE by DHS/EDM/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>0040018-BS1</b>									
Ethylbenzene	4/5/00	10.0		10.7	ug/l	70.0-130	107			
Xylenes (total)	"	30.0		32.3	"	70.0-130	108			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.4	"	70.0-130	104			
<b>LCS</b>										
	<b>0040018-BS2</b>									
Purgeable Hydrocarbons as Gasoline	4/5/00	250		211	ug/l	70.0-130	84.4			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.8	"	70.0-130	108			
<b>Matrix Spike</b>										
	<b>0040018-MS1</b>		<b>L003234-03</b>							
Purgeable Hydrocarbons as Gasoline	4/5/00	250	ND	245	ug/l	60.0-140	98.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.99	"	70.0-130	99.9			
<b>Matrix Spike Dup</b>										
	<b>0040018-MSD1</b>		<b>L003234-03</b>							
Purgeable Hydrocarbons as Gasoline	4/5/00	250	ND	238	ug/l	60.0-140	95.2	25.0	2.90	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.94	"	70.0-130	89.4			
<b>Batch: 0040019</b>										
	<b>Date Prepared: 4/5/00</b>				<b>Extraction Method: EPA 5030B [P/T]</b>					
<b>Blank</b>										
	<b>0040019-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	4/5/00			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		10.6	"	70.0-130	106			
<b>LCS</b>										
	<b>0040019-BS1</b>									
Benzene	4/5/00	10.0		11.9	ug/l	70.0-130	119			
Toluene	"	10.0		11.3	"	70.0-130	113			
Ethylbenzene	"	10.0		11.1	"	70.0-130	111			
Xylenes (total)	"	30.0		34.2	"	70.0-130	114			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.1	"	70.0-130	111			
<b>LCS</b>										
	<b>0040019-BS2</b>									
Purgeable Hydrocarbons as Gasoline	4/5/00	250		278	ug/l	70.0-130	111			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.6	"	70.0-130	116			
<b>Matrix Spike</b>										
	<b>0040019-MS1</b>		<b>L003234-10</b>							
Purgeable Hydrocarbons as Gasoline	4/5/00	250	ND	271	ug/l	60.0-140	108			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.6	"	70.0-130	106			





# Sequoia Analytical

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Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#5367/500 Bancroft Ave. Project Manager: Deanna Harding	Sampled: 3/24/00 Received: 3/24/00 Reported: 4/7/00
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Total Purgeable Hydrocarbons (CG-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> <u>0040019-MSD1</u> <u>L003234-10</u>										
Purgeable Hydrocarbons as Gasoline	4/5/00	250	ND	264	ug/l	60.0-140	106	25.0	1.87	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.6	"	70.0-130	106			
<b>Batch: 0040025</b> <u>Date Prepared: 4/6/00</u> <u>Extraction Method: EPA 5030B (P/T)</u>										
<b>Blank</b> <u>0040025-BLK1</u>										
Purgeable Hydrocarbons as Gasoline	4/6/00			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		9.61	"	70.0-130	96.1			
<b>LCS</b> <u>0040025-BS1</u>										
Benzene	4/6/00	10.0		9.01	ug/l	70.0-130	90.1			
Toluene	"	10.0		8.53	"	70.0-130	85.3			
Ethylbenzene	"	10.0		8.58	"	70.0-130	85.8			
Xylenes (total)	"	30.0		26.3	"	70.0-130	87.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.7	"	70.0-130	107			
<b>LCS</b> <u>0040025-BS2</u>										
Purgeable Hydrocarbons as Gasoline	4/6/00	250		220	ug/l	70.0-130	88.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.1	"	70.0-130	101			
<b>Matrix Spike</b> <u>0040025-MS1</u> <u>L003234-05</u>										
Benzene	4/6/00	10.0	ND	9.90	ug/l	60.0-140	99.0			
Toluene	"	10.0	ND	9.33	"	60.0-140	93.3			
Ethylbenzene	"	10.0	ND	9.31	"	60.0-140	93.1			
Xylenes (total)	"	30.0	ND	27.9	"	60.0-140	93.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.95	"	70.0-130	99.5			
<b>Matrix Spike Dup</b> <u>0040025-MSD1</u> <u>L003234-05</u>										
Benzene	4/6/00	10.0	ND	9.77	ug/l	60.0-140	97.7	25.0	1.32	
Toluene	"	10.0	ND	8.97	"	60.0-140	89.7	25.0	3.93	
Ethylbenzene	"	10.0	ND	9.15	"	60.0-140	91.5	25.0	1.73	
Xylenes (total)	"	30.0	ND	27.6	"	60.0-140	92.0	25.0	1.08	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.99	"	70.0-130	99.9			
<b>Batch: 0040026</b> <u>Date Prepared: 4/6/00</u> <u>Extraction Method: EPA 5030B (P/T)</u>										
<b>Blank</b> <u>0040026-BLK1</u>										
Purgeable Hydrocarbons as Gasoline	4/6/00			ND	ug/l	50.0				





Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite D Dublin, CA 94568	Project: Tosco(4) Project Number: Unocal SS#5367/500 Bancroft Ave. Project Manager: Deanna Harding	Sampled: 3/24/00 Received: 3/24/00 Reported: 4/7/00
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Total Purgeable Hydrocarbons (C6-C12) BTEX and MTBE by DHS LUEP/Orally Cont.  
 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>0040026-BLK1</b>									
Benzene	4/6/00			ND	ug/l	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		9.80	"	70.0-130	98.0			
<b>LCS</b>										
	<b>0040026-BS1</b>									
Benzene	4/6/00	10.0		10.1	ug/l	70.0-130	101			
Toluene	"	10.0		9.86	"	70.0-130	98.6			
Ethylbenzene	"	10.0		10.0	"	70.0-130	100			
Xylenes (total)	"	30.0		29.6	"	70.0-130	98.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.0	"	70.0-130	100			
<b>LCS</b>										
	<b>0040026-BS2</b>									
Purgeable Hydrocarbons as Gasoline	4/6/00	250		243	ug/l	70.0-130	97.2			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.88	"	70.0-130	98.8			
<b>Matrix Spike</b>										
	<b>0040026-MS1 L003234-08</b>									
Benzene	4/6/00	10.0	ND	9.70	ug/l	60.0-140	97.0			
Toluene	"	10.0	ND	9.64	"	60.0-140	96.4			
Ethylbenzene	"	10.0	ND	9.68	"	60.0-140	96.8			
Xylenes (total)	"	30.0	ND	28.2	"	60.0-140	94.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.00	"	70.0-130	90.0			
<b>Matrix Spike Dup</b>										
	<b>0040026-MSD1 L003234-08</b>									
Benzene	4/6/00	10.0	ND	10.6	ug/l	60.0-140	106	25.0	8.87	
Toluene	"	10.0	ND	10.6	"	60.0-140	106	25.0	9.49	
Ethylbenzene	"	10.0	ND	10.5	"	60.0-140	105	25.0	8.13	
Xylenes (total)	"	30.0	ND	31.4	"	60.0-140	105	25.0	11.1	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.64	"	70.0-130	96.4			





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**Notes and Definitions**

#	Note
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- 1 Chromatogram Pattern: Gasoline C6-C12
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference

