1[redacted] Ringwood Avenue
San Jose, CA 95131-1721
Tel. 408.453.7300
Fax. 408.437.9526

the IT group

505
5510 758

October 19, 1999
Project 311-127.1A

Mr. Richard Hiett
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Re: 76 Service Station 5367
Quarterly Summary Report
Third Quarter 1999

Dear Mr. Hiett:

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

Service Station	Location
5367	500 Bancroft Avenue, San Leandro

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
Third Quarter 1999

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

Semiannual groundwater monitoring and sampling activities were performed in September 1999.

NEXT QUARTER ACTIVITIES

The report documenting the September 1999 semiannual groundwater monitoring and sampling activities will be submitted in November 1999.

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.

October 8, 1999
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 1999 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 September 8, 1999, 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 are also attached.

Sincerely,

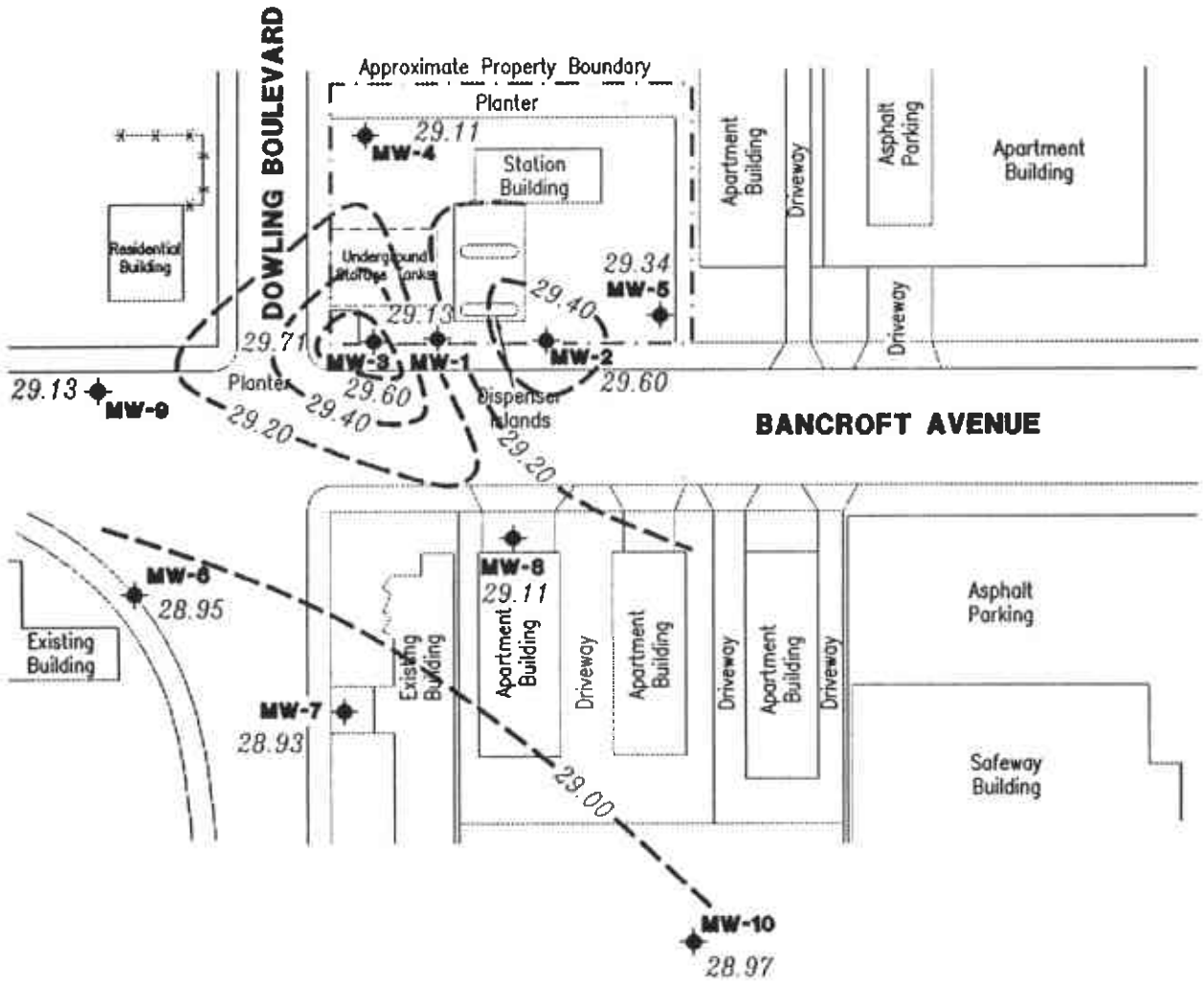
Deanna L. Harding
Project Coordinator

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

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

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



EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.

Groundwater flow direction varies at a gradient of 0.01 to 0.002 Ft./Ft.

N

0 80

Scale in Feet

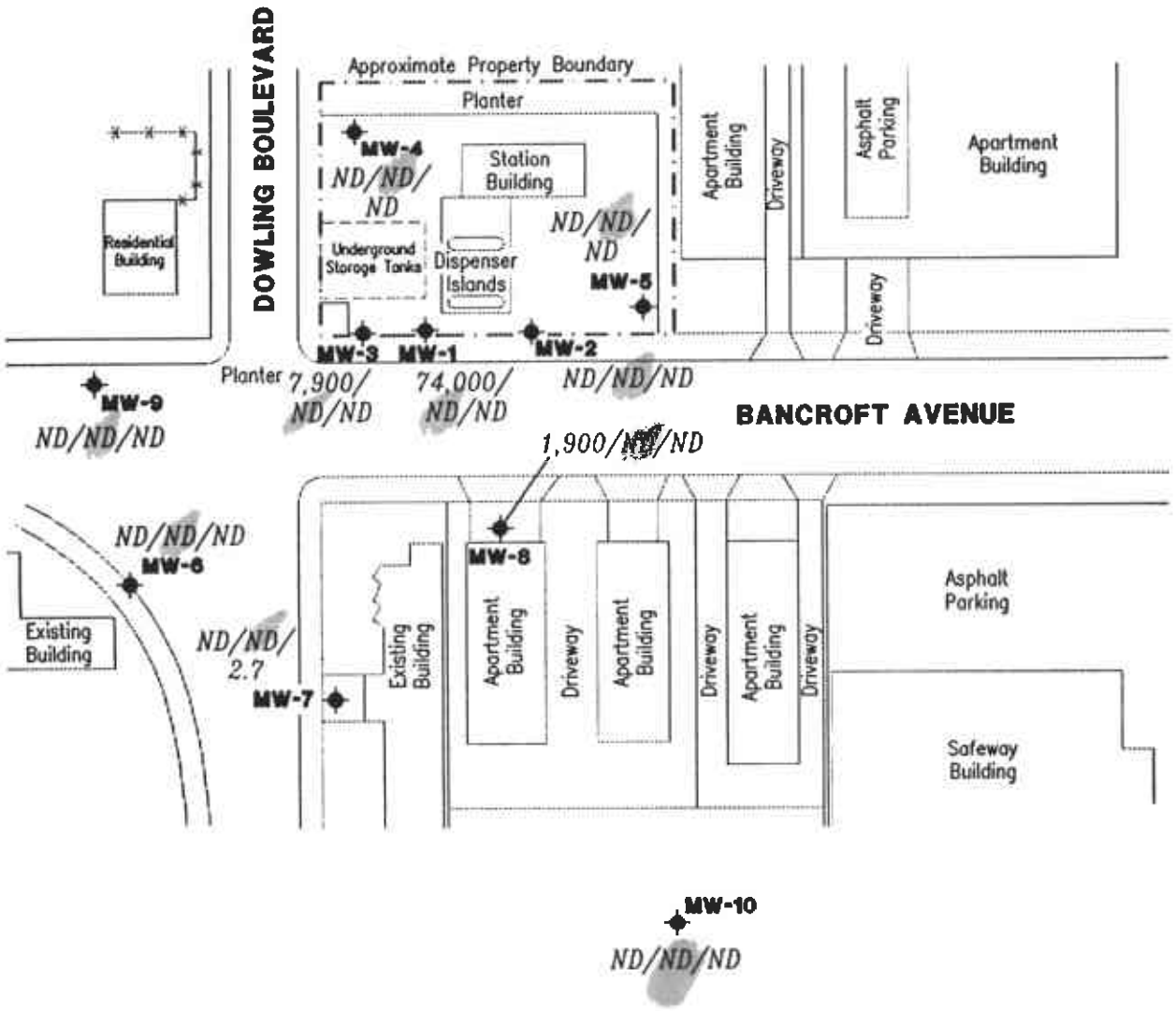
Source: Figure Modified From Drawing Provided By MPDS Services, Inc.

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	REVIEWED BY	DATE	REVISED DATE
180108		September 8, 1999	



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
September 8, 1999

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	--
	10/24/95	29.99	27.84	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 Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	12/29/95	30.40	27.43	0.00	110,000	990	22,000	8,300	47,000	--
(cont)	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[5]	350	2,900	14,000	ND[5]
	09/09/98	26.21	31.62	0.00	59,000	51	64	6,000	4,800	ND[5]
	03/11/99	23.60	34.23	0.00	60,000	130	ND[5]	2,900	12,000	ND[5]
	09/08/99	**28.70**	**29.13**	**0.00**	**74,000[7]**	**ND[5]**	**ND[5]**	**2,600**	**10,000**	**ND[5]**
MW-2										
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	--
	03/18/94	30.34	27.79	0.00	250	6.4	0.64	28	24	--
	06/23/94	31.63	26.50	0.00	420	3.9	0.66	23	11	--

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	09/21/94	33.52	24.61	0.00	ND	ND	ND	ND	ND	--
(cont)	12/19/94	31.26	26.87	0.00	190	1.9	ND	15	6.8	--
	03/27/95[2]	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**
MW-3										
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	--
	06/18/92	32.83	25.09	0.00	180,000	2,200	1,700	2,300	1,100	--
	09/30/92	--	--	--	36,000	730	200	1,000	4,400	--
	10/16/92	35.66	22.26	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 Thickness (ft.)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	11/18/92	36.04	21.88	0.00	24,000[1]	430	160	640	2,800	--
(cont)	03/03/93	26.11	31.81	0.00	96,000[1]	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[2]	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	--[3]
	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	--[4]
	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[5]	ND[5]	ND[5]	ND[5]	ND[5]	ND[5]
	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[7]**	**ND[5]**	**ND[5]**	**ND[5]**	**160**	**ND[5]**
MW-4										
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	--
	07/19/90	35.78	22.51	0.00	--	--	--	--	--	--
	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	--

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	05/06/91	33.39	24.90	0.00	--	--	--	--	--	--
(cont)	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	--[3]
	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**
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	--	--	--	--	--	--

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	08/24/90	36.67	21.83	0.00	ND	ND	ND	ND	ND	--
(cont)	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
	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**

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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-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[1]	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	--	--	--	--	--	--
	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

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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-6	09/09/98	25.53	31.43	0.00	ND	ND	0.64	ND	0.65	3.3
(cont)	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**
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	--	--	--	--	--	--
	03/27/95	22.43	34.82	0.00	ND	ND	0.54	ND	1.9	--
	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	--[3]
	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

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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	09/21/96	29.07	28.18	0.00	ND	ND	ND	ND	ND	ND
(cont)	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**
MW-8										
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[6]	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	--
	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[2]	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	--	--	--	--	--	--

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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	09/28/95	29.58	28.13	0.00	10,000	250	ND	760	910	--[3]
(cont)	10/24/95	30.40	27.31	0.00	--	--	--	--	--	--
	12/29/95	30.25	27.46	0.00	7,500	260	ND	580	870	--[4]
	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[5]	280	95	ND[5]
	09/08/99	**28.60**	**29.11**	**0.00**	**1,900[7]**	**ND[5]**	**ND[5]**	**36**	**ND[5]**	**ND[5]**
MW-9										
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
	03/20/98	15.60	40.87	0.00	ND	ND	ND	ND	ND	ND
	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**

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-10										
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**
Trip Blank										
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**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5367

500 Bancroft Avenue

San Leandro, California

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.

[1] Chromatogram contains early eluting peak.

[2] 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.

[3] Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.

[4] 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.

[5] Detection limit raised. Refer to analytical reports.

[6] Data suspect; not used in water-elevation determination.

[7] 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[1]	--	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[1]	--	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[1]	--	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[1]	--	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[1]	--	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

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-6	03/27/95[1]	--	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
MW-7	03/27/95[1]	--	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[1]	--	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[1]	--	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

Table 2

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

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

[1] 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 a MMC flexi-dip 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 # Tosco 5367 | Job#: 180108

Address: 500 Bancroft Ave. | Date: 9/8/99

City: San Leandro | Sampler: Varthel

Well ID: MW-1 | Well Condition: OK

Well Diameter: 2 in. | Hydrocarbon Thickness: 0 (feet) | Amount Bailed (product/water): 0 (Gallons)

Total Depth: 35.14 ft.

Depth to Water: 28.70 ft.

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

6.44 X VF 0.17 = 1.09 X 3 (case volume) = Estimated Purge Volume: 3.28 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 4:10 | Weather Conditions: clear

Sampling Time: 4:29 | Water Color: clear | Odor: y

Purging Flow Rate: 1 gpm. | Sediment Description: _____

Did well de-water? no | If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
4:14	1	7.34	3.82	69.3			
4:20	2	7.17	3.74	69.1			
4:25	3.5	7.11	3.71	69.0			

LABORATORY INFORMATION

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

COMMENTS: _____

FIELD DATA SHEET

Client/ Facility # Tosco 5367 — Job#: 180108

Address: 500 Bancroft Ave. — Date: 9/8/99

City: San Leandro — Sampler: Varthel

Well ID: MW-2 — Well Condition: OK

Well Diameter: 4 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 46.91 ft.

Depth to Water: 28.53 ft.

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

18.38 x VF 0.66 = 12.13 x 3 (case volume) = Estimated Purge Volume: 36.39 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 11:34 — Weather Conditions: overcast

Sampling Time: 12:05 — Water Color: clear — Odor: no

Purging Flow Rate: 1.5 gpm. — Sediment Description:

Did well de-water? no — If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:42	12	7.60	4.32	65.2			
11:50	24	7.45	4.40	64.9			
11:58	36.5	7.43	4.44	64.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

FIELD DATA SHEET

Client/ Facility # Tosco 5367 — Job#: 180108

Address: 500 Bancroft Ave. — Date: 9/8/99

City: San Leandro — Sampler: Varthes

Well ID: MW-3 — Well Condition: OK

Well Diameter: 4 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 48.20 ft.

Depth to Water: 28.21 ft.

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

19.99 x VF 0.66 = 13.19 x 3 (case volume) = Estimated Purge Volume: 39.58 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 3:32 — Weather Conditions: clear

Sampling Time: 4:03 — Water Color: clear — Odor: Y

Purging Flow Rate: 1.5 gpm. — Sediment Description: _____

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
3:40	13	7.39	4.11	67.0			
3:49	26.5	7.23	3.98	66.7			
3:56	40	7.22	3.94	66.8			

LABORATORY INFORMATION

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

COMMENTS: _____

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FIELD DATA SHEET

Client/ Facility # Tosco 5367 — Job#: 180108

Address: 500 Bancroft Ave. — Date: 9/8/99

City: San Leandro — Sampler: Varthes

Well ID: MW-4 — Well Condition: OK

Well Diameter: 4 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 48.52 ft.

Depth to Water: 29.18 ft.

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

19.34 x VF 0.66 = 12.76 x 3 (case volume) = Estimated Purge Volume: 38.29 (gal.)

Purge Equipment:	Sampling Equipment:
Disposable Bailer	(Disposable Bailer)
Bailer	Bailer
(Stack)	Pressure Bailer
Suction	Grab Sample
Grundfos	Other:
Other:	

Starting Time: 12:15 — Weather Conditions: clear

Sampling Time: 12:46 — Water Color: clear — Odor: no

Purging Flow Rate: 1.5 gpm. — Sediment Description:

Did well de-water? no — If yes; Time: — Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cmX/00	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:23	13	7.72	4.05	64.8			
12:30	26	7.55	4.15	64.6			
12:39	38.5	7.50	4.24	64.7			

LABORATORY INFORMATION

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

COMMENTS:

FIELD DATA SHEET

Client/ Facility # Tosco 5367 — Job#: 180108

Address: 500 Bancroft Ave. — Date: 9/8/99

City: San Leandro — Sampler: Varthes

Well ID: MW-5 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 44.38 ft.

Depth to Water: 29.16 ft.

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

15.22 x VF 0.17 = 2.58 x 3 (case volume) = Estimated Purge Volume: 7.76 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 12:57 — Weather Conditions: clear

Sampling Time: 1:13 — Water Color: clear — Odor: no

Purging Flow Rate: 1 gpm. — Sediment Description: _____

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:00	2.5	7.68	3.98	67.2			
1:02	5.5	7.52	3.90	66.9			
1:05	8	7.47	3.86	66.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS: _____

FIELD DATA SHEET

Client/ Facility # Tosco 5367 — Job#: 180108

Address: 500 Bancroft Ave. — Date: 9/8/99

City: San Leandro — Sampler: Varthes

Well ID: MW-6 — Well Condition: OK - (1 well plug)

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 44.62 ft.

Depth to Water: 28.01 ft.

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

16.61 X VF 0.17 = 2.82 X 3 (case volume) = Estimated Purge Volume: 8.47 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 2:00 — Weather Conditions: clr

Sampling Time: 2:15 — Water Color: clr — Odor: no

Purging Flow Rate: 1 gpm. — Sediment Description: _____

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
2:03	3	7.62	3.38	68.9			
2:06	6	7.44	3.42	68.4			
2:08	8.5	7.41	3.44	68.4			

LABORATORY INFORMATION

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

COMMENTS: _____

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FIELD DATA SHEET

Client/ Facility # Tosco 5367 — Job#: 180108

Address: 500 Bancroft Ave. — Date: 9/8/99

City: San Leandro — Sampler: Vartkes

Well ID: MW-7 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 43.96 ft.

Depth to Water: 28.32 ft.

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

15.64 x VF 0.17 = 2.65 x 3 (case volume) = Estimated Purge Volume: 7.97 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 2:25 — Weather Conditions: clear

Sampling Time: 2:40 — Water Color: clear — Odor: no

Purging Flow Rate: 1 gpm. — Sediment Description: _____

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
2:27	2.5	7.80	2.87	69.3			
2:30	5.5	7.62	2.98	68.8			
2:33	8	7.55	3.09	68.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS: _____

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FIELD DATA SHEET

Client/ Facility # Tosco 5367 — Job#: 180108

Address: 500 Bancroft Ave. — Date: 9/8/99

City: San Leandro — Sampler: Varthel

Well ID: MW-8 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 43.88 ft.

Depth to Water: 28.60 ft.

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

15.28 x VF 0.17 = 2.59 X 3 (case volume) = Estimated Purge Volume: 7.79 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 2:58 — Weather Conditions: clear

Sampling Time: 3:15 — Water Color: clear — Odor: y (mild)

Purging Flow Rate: 1 gpm. — Sediment Description: _____

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X/00	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
3:00	2.5	7.40	4.02	69.1			
3:03	5.5	7.31	3.91	68.6			
3:06	8	7.26	3.86	68.4			

LABORATORY INFORMATION

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

COMMENTS: _____

WELL MONITORING/SAMPLING

FIELD DATA SHEET

Client/ Facility # Tosco 5367 | Job#: 180108

Address: 500 Bancroft Ave. | Date: 9/8/99

City: San Leandro | Sampler: Varthes

Well ID: MW-9 | Well Condition: OK

Well Diameter: 2 in. | Hydrocarbon Thickness: 0 (feet) | Amount Bailed (product/water): 0 (Gallons)

Total Depth: 44.63 ft.

Depth to Water: 27.34 ft.

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

17.29 x VF 0.17 = 2.93 x 3 (case volume) = Estimated Purge Volume: 8.81 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 1:31 | Weather Conditions: clear

Sampling Time: 1:49 | Water Color: Clear | Odor: no

Purging Flow Rate: 1 gpm. | Sediment Description: _____

Did well de-water? no | If yes; Time: _____ | Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:34	3	7.60	308	68.3			
1:37	6	7.48	3.17	67.9			
1:40	9	7.44	3.21	67.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS: _____

FIELD DATA SHEET

Client/ Facility # Tosco 5367 | Job#: 180108

Address: 500 Bancroft Ave. | Date: 9/8/99

City: San Leandro | Sampler: Vartkes

Well ID: MW-10 | Well Condition: OK

Well Diameter: 2 in. | Hydrocarbon Thickness: 0 (feet) | Amount Bailed (product/water): 0 (Gallons)

Total Depth: 42.65 ft.

Depth to Water: 29.97 ft.

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

12.68 X VF 0.17 = 2.15 X 3 (case volume) = Estimated Purge Volume: 6.46 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 11:02 | Weather Conditions: overcast

Sampling Time: 11:20 | Water Color: clear | Odor: no

Purging Flow Rate: 1 gpm. | Sediment Description: _____

Did well de-water? _____ | If yes; Time: _____ | Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X/00	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:04	2	7.72	4.14	66.3			
11:06	4	7.59	4.23	65.9			
11:09	6.5	7.53	4.32	66.0			

LABORATORY INFORMATION

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

COMMENTS: _____

TOSCO

Tosco Marketing Company
3500 Crow Canyon Pl., Box 428
San Ramon, California 94583

Facility Number UNOCAL SS#5367
Facility Address 500 Bancroft Ave. SAN LEANDRO, CA
Consultant Project Number 180108.85
Consultant Name Gettler-Ryan Inc. (G-R Inc.)
Address 6747 Sierra Court, Suite J, Dublin, CA 94568
Project Contact (Name) Deanna L. Harding
(Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name) DAVE DEWITT
(Phone) 510-277-2384
Laboratory Name Sequoia Analytical IV9091-70
Laboratory Release Number
Samples Collected by (Name) Vartkes Tashjian
Collection Date 9/8/99
Signature Vartkes Tashjian

DO NOT BILL TB-LB ANALYSIS

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)						Remarks
TB-LB	01A	1	W	G		HCl	Y	X													
MW-1	02A-C	3	"	"	4:39 PM	"	"	X													
MW-2	03A-C	3	"	"	12:05 PM	"	"	X													
MW-3	04A-C	3	"	"	4:02 PM	"	"	X													
MW-4	05A-C	3	"	"	12:46 PM	"	"	X													
MW-5	06A-C	3	"	"	1:13 PM	"	"	X													
MW-6	07A-C	3	"	"	2:15 PM	"	"	X													
MW-7	08A-C	3	"	"	2:40 PM	"	"	X													
MW-8	09A-C	3	"	"	3:13 PM	"	"	X													
MW-9	10A-C	3	"	"	1:42 PM	"	"	X													
MW-10	11A-C	3	"	"	11:20 AM	"	"	X													

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Vartkes Tashjian	G-R Inc.	9/8/99 5:45 PM		SEQUOIA	09/09/99 1745
	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
S.C.	SEQ	9/9/99 0900		SEQ	9/9/99 0900
	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
	SEQ	9/9/99 10:10			9/9/99 1010

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7	W909170-08	Water	08-Sep-99 14:40	08-Sep-99 17:45
MW-2	W909170-03	Water	08-Sep-99 12:05	08-Sep-99 17:45
MW-1	W909170-02	Water	08-Sep-99 16:29	08-Sep-99 17:45
MW-3	W909170-04	Water	08-Sep-99 16:03	08-Sep-99 17:45
TB-LB	W909170-01	Water	08-Sep-99 00:00	08-Sep-99 17:45
MW-5	W909170-06	Water	08-Sep-99 13:13	08-Sep-99 17:45
MW-6	W909170-07	Water	08-Sep-99 14:15	08-Sep-99 17:45
MW-10	W909170-11	Water	08-Sep-99 11:20	08-Sep-99 17:45
MW-9	W909170-10	Water	08-Sep-99 13:49	08-Sep-99 17:45
MW-4	W909170-05	Water	08-Sep-99 12:46	08-Sep-99 17:45
MW-8	W909170-09	Water	08-Sep-99 15:15	08-Sep-99 17:45

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W909170-01) Water Sampled: 08-Sep-99 00:00 Received: 08-Sep-99 17:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I14016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.0 %*	*70-130*		"	"	"	"	
MW-1 (W909170-02) Water Sampled: 08-Sep-99 16:29 Received: 08-Sep-99 17:45									**P-01**
Purgeable Hydrocarbons	**74000**	20000	ug/l	400	9I14020	13-Sep-99	13-Sep-99	DHS LUFT	
Benzene	ND	200	"	"	"	"	"	"	
Toluene	ND	200	"	"	"	"	"	"	
Ethylbenzene	**2600**	200	"	"	"	"	"	"	
Xylenes (total)	**10000**	200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*		"	"	"	"	
MW-2 (W909170-03) Water Sampled: 08-Sep-99 12:05 Received: 08-Sep-99 17:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I14016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.3 %*	*70-130*		"	"	"	"	

Julianne Pegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W909170-04) Water Sampled: 08-Sep-99 16:03 Received: 08-Sep-99 17:45									**P-01**
Purgeable Hydrocarbons	**7900**	2500	ug/l	50	9I14019	11-Sep-99	11-Sep-99	DHS LUFT	
Benzene	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	**160**	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	130	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*70-130*		"	"	"	"	
MW-4 (W909170-05) Water Sampled: 08-Sep-99 12:46 Received: 08-Sep-99 17:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I14019	11-Sep-99	11-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**0.78**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.7 %*	*70-130*		"	"	"	"	
MW-5 (W909170-06) Water Sampled: 08-Sep-99 13:13 Received: 08-Sep-99 17:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I15024	16-Sep-99	16-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.0 %*	*70-130*		"	"	"	"	

Julianne Fegley, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W909170-07) Water Sampled: 08-Sep-99 14:15 Received: 08-Sep-99 17:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I15024	16-Sep-99	16-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.3 %*		*70-130*		"	"	"	
MW-7 (W909170-08) Water Sampled: 08-Sep-99 14:40 Received: 08-Sep-99 17:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I14023	13-Sep-99	13-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.7**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.7 %*		*70-130*		"	"	"	
MW-8 (W909170-09) Water Sampled: 08-Sep-99 15:15 Received: 08-Sep-99 17:45									**P-01**
Purgeable Hydrocarbons	**1900**	1000	ug/l	20	9I14023	13-Sep-99	13-Sep-99	DHS LUFT	
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	**36**	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.3 %*		*70-130*		"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W909170-10) Water Sampled: 08-Sep-99 13:49 Received: 08-Sep-99 17:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I14023	13-Sep-99	13-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*70-130*		"	"	"	"	
MW-10 (W909170-11) Water Sampled: 08-Sep-99 11:20 Received: 08-Sep-99 17:45									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I14023	13-Sep-99	13-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*70-130*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9I14016: Prepared 10-Sep-99 Using EPA 5030B [P/T]										
Blank (9I14016-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*29.9*		"	*30.0*		*99.7*	*70-130*			
LCS (9I14016-BS1)										
Benzene	20.3	0.50	ug/l	20.0		101	70-130			
Toluene	18.4	0.50	"	20.0		92.0	70-130			
Ethylbenzene	19.1	0.50	"	20.0		95.5	70-130			
Xylenes (total)	64.2	0.50	"	60.0		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.7*		"	*30.0*		*95.7*	*70-130*			
Matrix Spike (9I14016-MS1)					**Source: W909135-05**					
Benzene	19.2	0.50	ug/l	20.0	ND	96.0	70-130			
Toluene	16.5	0.50	"	20.0	ND	82.5	70-130			
Ethylbenzene	18.3	0.50	"	20.0	ND	91.5	70-130			
Xylenes (total)	59.6	0.50	"	60.0	ND	99.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*26.3*		"	*30.0*		*87.7*	*70-130*			
Matrix Spike Dup (9I14016-MSD1)					**Source: W909135-05**					
Benzene	20.3	0.50	ug/l	20.0	ND	101	70-130	5.57	20	
Toluene	18.3	0.50	"	20.0	ND	91.5	70-130	10.3	20	
Ethylbenzene	19.3	0.50	"	20.0	ND	96.5	70-130	5.32	20	
Xylenes (total)	63.1	0.50	"	60.0	ND	105	70-130	5.70	20	
Surrogate: a,a,a-Trifluorotoluene	*28.1*		"	*30.0*		*93.7*	*70-130*			

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9I14019: Prepared 10-Sep-99 Using EPA 5030B [P/T]										
Blank (9I14019-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*29.5*		"	*30.0*		*98.3*	*70-130*			
LCS (9I14019-BS1)										
Benzene	19.1	0.50	ug/l	20.0		95.5	70-130			
Toluene	17.1	0.50	"	20.0		85.5	70-130			
Ethylbenzene	18.8	0.50	"	20.0		94.0	70-130			
Xylenes (total)	62.4	0.50	"	60.0		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	*29.3*		"	*30.0*		*97.7*	*70-130*			
Matrix Spike (9I14019-MS1)					Source: W909179-02					
Benzene	18.5	0.50	ug/l	20.0	ND	92.5	70-130			
Toluene	16.8	0.50	"	20.0	ND	84.0	70-130			
Ethylbenzene	17.7	0.50	"	20.0	ND	88.5	70-130			
Xylenes (total)	57.7	0.50	"	60.0	ND	96.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.9*		"	*30.0*		*93.0*	*70-130*			
Matrix Spike Dup (9I14019-MSD1)					Source: W909179-02					
Benzene	16.9	0.50	ug/l	20.0	ND	84.5	70-130	9.04	20	
Toluene	14.5	0.50	"	20.0	ND	72.5	70-130	14.7	20	
Ethylbenzene	16.2	0.50	"	20.0	ND	81.0	70-130	8.85	20	
Xylenes (total)	52.7	0.50	"	60.0	ND	87.8	70-130	9.06	20	
Surrogate: a,a,a-Trifluorotoluene	*23.4*		"	*30.0*		*78.0*	*70-130*			

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6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9I14020: Prepared 13-Sep-99 Using EPA 5030B [P/T]										
Blank (9I14020-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*28.7*		"	*30.0*		*95.7*	*70-130*			
LCS (9I14020-BS1)										
Benzene	20.4	0.50	ug/l	20.0		102	70-130			
Toluene	18.6	0.50	"	20.0		93.0	70-130			
Ethylbenzene	19.2	0.50	"	20.0		96.0	70-130			
Xylenes (total)	64.1	0.50	"	60.0		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.7*		"	*30.0*		*92.3*	*70-130*			
Matrix Spike (9I14020-MS1)					**Source: W909180-07**					
Benzene	21.5	0.50	ug/l	20.0	ND	108	70-130			
Toluene	18.2	0.50	"	20.0	ND	91.0	70-130			
Ethylbenzene	20.8	0.50	"	20.0	ND	104	70-130			
Xylenes (total)	62.0	0.50	"	60.0	ND	103	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.0*		"	*30.0*		*90.0*	*70-130*			
Matrix Spike Dup (9I14020-MSD1)					**Source: W909180-07**					
Benzene	20.7	0.50	ug/l	20.0	ND	104	70-130	3.79	20	
Toluene	17.8	0.50	"	20.0	ND	89.0	70-130	2.22	20	
Ethylbenzene	18.1	0.50	"	20.0	ND	90.5	70-130	13.9	20	
Xylenes (total)	60.6	0.50	"	60.0	ND	101	70-130	2.28	20	
Surrogate: a,a,a-Trifluorotoluene	*26.8*		"	*30.0*		*89.3*	*70-130*			

Julianne Fegley, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9I14023: Prepared 13-Sep-99 Using EPA 5030B [P/T]										
Blank (9I14023-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*26.7*		"	*30.0*		*89.0*	*70-130*			
LCS (9I14023-BS1)										
Benzene	20.3	0.50	ug/l	20.0		101	70-130			
Toluene	20.8	0.50	"	20.0		104	70-130			
Ethylbenzene	21.1	0.50	"	20.0		106	70-130			
Xylenes (total)	65.3	0.50	"	60.0		109	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.1*		"	*30.0*		*93.7*	*70-130*			
Matrix Spike (9I14023-MS1)					**Source: W909170-10**					
Benzene	21.3	0.50	ug/l	20.0	ND	106	70-130			
Toluene	21.9	0.50	"	20.0	ND	109	70-130			
Ethylbenzene	22.1	0.50	"	20.0	ND	111	70-130			
Xylenes (total)	67.4	0.50	"	60.0	ND	112	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.8*		"	*30.0*		*92.7*	*70-130*			
Matrix Spike Dup (9I14023-MSD1)					**Source: W909170-10**					
Benzene	19.1	0.50	ug/l	20.0	ND	95.5	70-130	10.9	20	
Toluene	19.5	0.50	"	20.0	ND	97.5	70-130	11.6	20	
Ethylbenzene	19.5	0.50	"	20.0	ND	97.5	70-130	12.5	20	
Xylenes (total)	60.7	0.50	"	60.0	ND	101	70-130	10.5	20	
Surrogate: a,a,a-Trifluorotoluene	*24.9*		"	*30.0*		*83.0*	*70-130*			

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9I15024: Prepared 16-Sep-99 Using EPA 5030B [P/T]										
Blank (9I15024-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*28.0*		"	*30.0*		*93.3*	*70-130*			
LCS (9I15024-BS1)										
Benzene	22.3	0.50	ug/l	20.0		111	70-130			
Toluene	18.5	0.50	"	20.0		92.5	70-130			
Ethylbenzene	19.3	0.50	"	20.0		96.5	70-130			
Xylenes (total)	66.4	0.50	"	60.0		111	70-130			
Surrogate: a,a,a-Trifluorotoluene	*26.6*		"	*30.0*		*88.7*	*70-130*			
Matrix Spike (9I15024-MS1)					Source: W909170-06					
Benzene	21.3	0.50	ug/l	20.0	ND	106	70-130			
Toluene	17.7	0.50	"	20.0	ND	88.5	70-130			
Ethylbenzene	18.4	0.50	"	20.0	ND	92.0	70-130			
Xylenes (total)	63.2	0.50	"	60.0	ND	105	70-130			
Surrogate: a,a,a-Trifluorotoluene	*25.9*		"	*30.0*		*86.3*	*70-130*			
Matrix Spike Dup (9I15024-MSD1)					Source: W909170-06					
Benzene	21.4	0.50	ug/l	20.0	ND	107	70-130	0.468	20	
Toluene	17.7	0.50	"	20.0	ND	88.5	70-130	0	20	
Ethylbenzene	18.6	0.50	"	20.0	ND	93.0	70-130	1.08	20	
Xylenes (total)	63.1	0.50	"	60.0	ND	105	70-130	0.158	20	
Surrogate: a,a,a-Trifluorotoluene	*26.0*		"	*30.0*		*86.7*	*70-130*			

Julianne Fegley, Project Manager

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6747 Sierra Court Suite J	Project Number: Unocal SS# 5367	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Sep-99 19:08

Notes and Definitions

P-01	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager