GETTLER-RYAN INC. 509

TRANSMITTAL

March 20, 2001
G-R #: 180106

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

CC: Mr. Douglas Lee
Gettler-Ryan Inc.
Dublin, California 94568

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

RE: Tosco (Unocal) SS #7004
15599 Hesperian Blvd.
San Leandro, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 1, 2001	Groundwater Monitoring and Sampling Report First Semi-Annual - Event of January 19, 2001

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 ***April 2, 2001***, this report will be distributed to the following:

cc: Ms. Susan Hugo, 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

Enclosure

trans/7004-DBD

GETTLER-RYAN INC.

March 1, 2001
G-R Job #180106

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

RE: **First Semi-Annual Event of January 19, 2001**
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #7004
15599 Hesperian Boulevard
San Leandro, California

Dear Mr. De Witt:

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

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were 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 Tables 1and 3. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

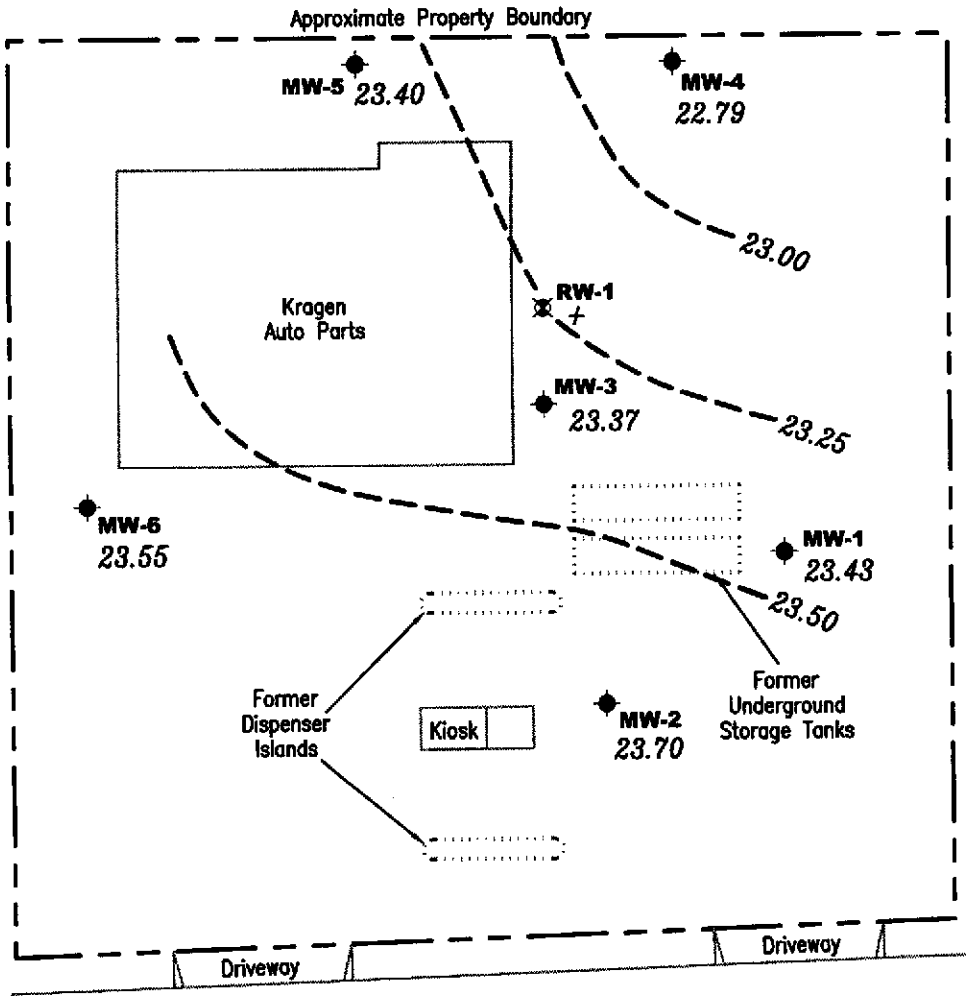
Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senoir Geologist, R.G. No. 6882

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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

7004.qml



EXPLANATION

- Groundwater monitoring well
- Nested piezometer well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.
- \+ — TOC not available

Approximate groundwater flow direction at a gradient of 0.007 Ft./Ft.

N

0 40

Scale in Feet

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

GETTLER - RYAN INC.
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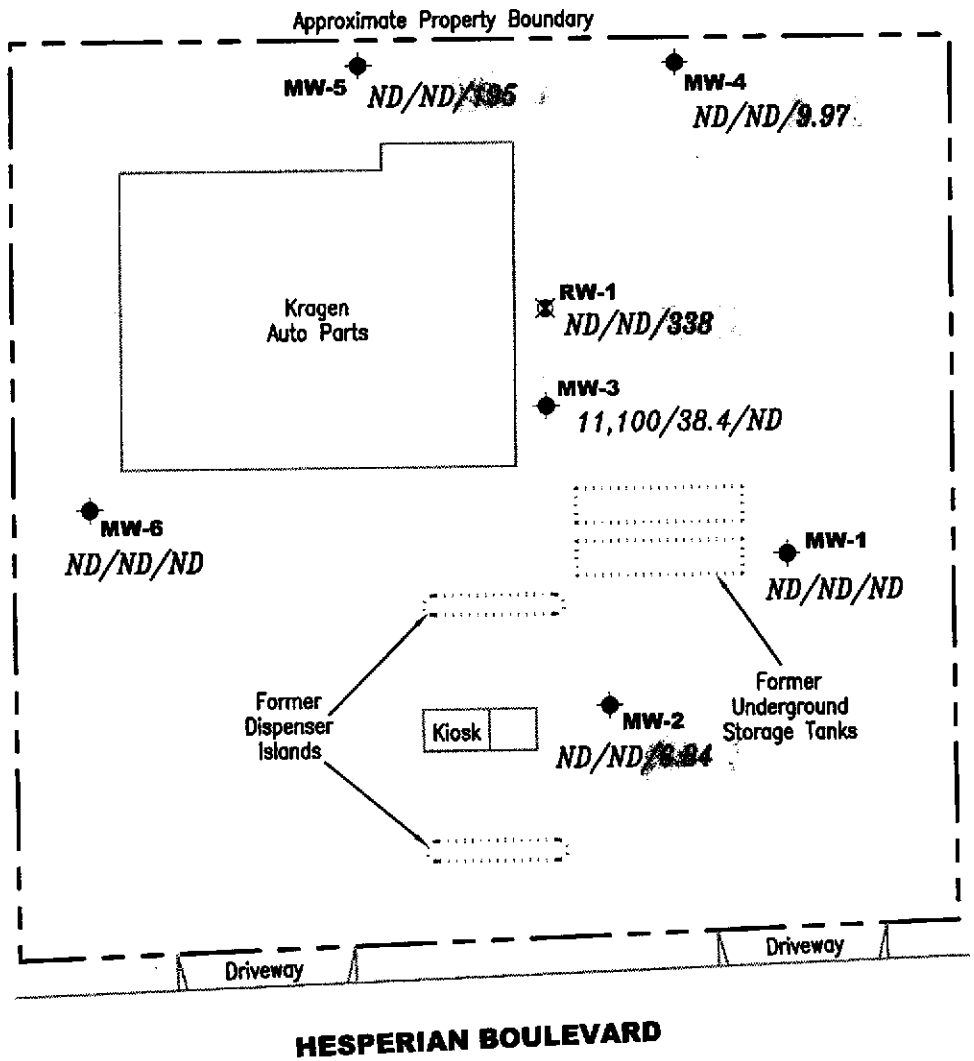
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Former Tosco (76) Service Station #7004
15599 Hesperian Boulevard
San Leandro, California

FIGURE 1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
140106		January 19, 2001	

FILE NAME: P:\Enviro\Tosco\7004\Q01-7004.dwg | Layout Tab: Pot1



EXPLANATION

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

N

0 40

Scale in Feet

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

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

CONCENTRATION MAP
Former Tosco (76) Service Station #7004
15599 Hesperian Boulevard
San Leandro, California

FIGURE
2

PROJECT NUMBER
140106

REVIEWED BY

DATE
January 19, 2001

REVISED DATE

FILE NAME: P:\Enviro\Tosco\7004\Q01-7004.DWG | Layout Tab: Con1

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7004
15599 Hesperian Boulevard
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	05/04/91	--	10.0-25.0	--	ND	ND	ND	ND	ND	--
	07/23/91	--		--	ND	ND	ND	ND	ND	--
	10/14/91	--		--	ND	ND	ND	ND	ND	--
	01/14/92	--		--	ND	ND	ND	ND	ND	--
	04/14/92	--		--	76[1]	ND	ND	ND	ND	--
	07/09/92	--		--	70[1]	ND	ND	ND	ND	130
	10/28/92	--		--	SAMPLED SEMI-ANNUALLY		--	--	--	--
	01/21/93	--		--	ND	ND	ND	ND	ND	42
36.89	04/20/93	14.89		22.00	--	--	--	--	--	56
	07/22/93	14.34		22.55	ND	ND	ND	ND	ND	77
36.39	10/06/93	14.87		21.52	--	--	--	--	--	--
	01/11/94	15.14		21.25	ND	ND	ND	ND	ND	--
	04/06/94	14.19		22.20	--	--	--	--	--	--
	07/08/94	14.66		21.73	ND	ND	ND	ND	ND	--
	10/06/94	16.71		19.68	--	--	--	--	--	--
	01/05/95	14.68		21.71	ND	ND	ND	ND	ND	--
	04/05/95	11.76		24.63	--	--	--	--	--	--
	07/14/95	12.93		23.46	ND	0.65	2.2	ND	2.3	--
	10/12/95	14.29		22.10	--	--	--	--	--	--
	01/08/96	14.18		22.21	ND	ND	ND	ND	ND	--
	07/08/96	12.74		23.65	ND	ND	ND	ND	ND	ND
	01/03/97	12.89		23.50	87[1]	ND	ND	ND	ND	ND
	07/02/97	13.66		22.73	ND	ND	ND	ND	ND	ND
	01/15/98	13.08		23.31	ND	ND	ND	ND	ND	ND
	07/08/98	11.25		25.14	ND	ND	ND	ND	ND	ND
	01/11/99	13.68		22.71	51[9]	ND	ND	ND	ND	4.8
	07/07/99	12.15		24.24	ND	ND	ND	ND	ND	ND
	01/04/00	13.95		22.44	ND	ND	ND	ND	ND	ND
	07/15/00	13.46		22.93	ND	ND	0.86	ND	ND	ND
	01/19/01	**12.96**		**23.43**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7004
15599 Hesperian Boulevard
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	05/04/91	--	10.0-25.0	--	ND	ND	ND	ND	ND	--
	07/23/91	--		--	ND	ND	ND	ND	ND	--
	10/14/91	--		--	ND	ND	ND	ND	ND	--
	01/14/92	--		--	ND	ND	ND	ND	ND	--
	04/14/92	--		--	45[1]	ND	ND	ND	ND	--
	07/09/92	--		--	ND	ND	ND	ND	ND	49
	10/28/92	--		--	SAMPLED SEMI-ANNUALLY		--	--	--	--
	01/21/93	--		--	ND	ND	ND	ND	ND	17
37.35	04/20/93	15.20		22.15	--	--	--	--	--	80
	07/22/93	14.75		22.60	62[1]	ND	ND	ND	ND	42
37.07	10/06/93	15.49		21.58	--	--	--	--	--	--
	01/11/94	15.77		21.30	120[1]	ND	ND	ND	ND	--
	04/06/94	14.83		22.24	--	--	--	--	--	--
	07/08/94	15.28		21.79	140[1]	ND	ND	ND	ND	--
	10/06/94	16.32		20.75	--	--	--	--	--	--
	01/05/95	15.30		21.77	310[1]	ND	ND	ND	ND	--
	04/05/95	12.12		24.95	--	--	--	--	--	--
	07/14/95	13.55		23.52	86[1]	ND	ND	ND	ND	--
	10/12/95	14.88		22.19	--	--	--	--	--	--
	01/08/96	14.81		22.26	91[1]	ND	ND	ND	ND	--
	07/08/96	13.37		23.70	100[1]	ND	ND	ND	ND	ND
	01/03/97	13.14		23.93	160[1]	ND	ND	ND	ND	ND
	07/02/97	14.26		22.81	91[1]	ND	ND	ND	ND	ND
	01/15/98	13.31		23.76	ND	ND	ND	ND	ND	ND
	07/08/98	11.57		25.50	ND	ND	ND	ND	ND	ND
	01/11/99	14.26		22.81	ND	ND	ND	ND	ND	9.8
	07/07/99	12.24		24.83	ND	ND	ND	ND	ND	9.4
	01/04/00	14.14		22.93	ND	ND	0.518	ND	ND	9.07
	07/15/00	13.75		23.32	ND	ND	0.51	ND	ND	6.0
	01/19/01	**13.37**		**23.70**	**ND**	**ND**	**ND**	**ND**	**ND**	**6.84**

[1] As of 01/19/01

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7004

15599 Hesperian Boulevard

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	05/04/91	--	10.0-25.0	--	34,000	6,100	32	1,200	6,100	--
	07/23/91	--		--	17,000	5,500	26	1,800	2,800	--
	10/14/91	--		--	25,000	6,300	78	2,000	1,400	--
	01/14/92	--		--	13,000	6,600	19	2,600	1,800	--
	04/14/92	--		--	16,000	3,400	19	1,400	1,300	--
	07/09/92	--		--	13,000	3,200	12	1,900	1,100	--
	10/28/92	--		--	15,000	4,400	15	2,400	800	--
	01/21/93	--		--	12,000	2,800	11	1,600	590	--
37.22	04/20/93	15.13		22.09	18,000	3,700	11	2,300	1,300	410
	07/22/93	13.52		23.70	16,000	4,500	17	3,600	1,900	440
36.79	10/06/93	15.41		21.38	24,000	4,100	ND	3,600	2,000	ND
	01/11/94	15.66		21.13	19,000	3,300	31	3,300	890	--
	04/06/94	14.72		22.07	24,000	3,100	ND	3,300	820	--
	07/08/94	15.20		21.59	18,000	2,200	25	2,500	860	--
	10/06/94	16.23		20.56	20,000	2,100	26	3,000	900	--
	01/05/95	15.12		21.67	20,000	2,100	ND	3,200	3,800	--
	04/05/95	12.03		24.76	18,000	2,100	ND	3,700	690	--
	07/14/95	13.46		23.33	21,000	1,600	ND	3,900	1,500	--
	10/12/95	14.81		21.98	17,000	1,000	ND	3,600	1,000	--[3]
	01/08/96	14.70		22.09	14,000	760	ND	3,100	380	--[4]
	07/08/96	13.29		23.50	16,000	470	45	4,400	1,000	340
	01/03/97	13.09		23.70	14,000	160	ND	2,100	120	620
	07/02/97	13.96		22.83	23,000	110	ND	3,600	1,600	1,200
	01/15/98	13.26		23.53	12,000	33	ND[5]	2,800	120	1,100
	07/08/98	11.64		25.15	20,000	76	ND[5]	4,100	1,400	750
	01/11/99	14.17		22.62	23,000[10]	ND[5]	ND[5]	4,100	460	920
	07/07/99	13.18		23.61	15,000[11]	35	ND[5]	3,400	470	1,700
	01/04/00	14.27		22.52	15,500	ND[5]	ND[5]	3,330	191	827
	07/15/00	13.91		22.88	15,000[12]	ND[5]	ND[5]	3,400	420	3,300
	08/25/00	14.24		22.55	--	--	--	--	--	~~1,920~~[13] 9760
	01/19/01	**13.42**		**23.37**	**11,100[14]**	**38.4**	**ND[5]**	**1,760**	**38.8**	**ND[5]**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7004

15599 Hesperian Boulevard

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	07/23/91	--	10.0-26.0	--	ND	ND	ND	ND	ND	--
	10/14/91	--		--	ND	ND	ND	ND	ND	--
	01/14/92	--		--	ND	ND	ND	ND	ND	--
	04/14/92	--		--	ND	ND	ND	ND	ND	--
	07/09/92	--		--	ND	ND	ND	ND	ND	--
	10/28/92	--		--	SAMPLED SEMI-ANNUALLY		--	--	--	--
	01/21/93	--		--	ND	ND	ND	ND	ND	--
35.81	04/20/93	13.84		21.97	--	--	--	--	--	65
	07/22/93	13.52		22.29	ND	ND	ND	ND	ND	54
35.44	10/06/93	14.17		21.27	--	--	--	--	--	--
	01/11/94	14.42		21.02	ND	ND	ND	ND	ND	--
	04/06/94	13.44		22.00	--	--	--	--	--	--
	07/08/94	13.96		21.48	ND	ND	ND	ND	ND	--
	10/06/94	15.00		20.44	--	--	--	--	--	--
	01/05/95	13.83		21.61	ND	ND	ND	ND	ND	--
	04/05/95	11.05		24.39	--	--	--	--	--	--
	07/14/95	12.23		23.21	ND	ND	ND	ND	ND	--
	10/12/95	13.59		21.85	--	--	--	--	--	--
	01/08/96	13.43		22.01	ND	ND	ND	ND	ND	--[4]
	07/08/96	12.04		23.40	ND	ND	ND	ND	ND	ND
	01/03/97	12.38		23.06	80[1]	ND	ND	ND	ND	ND
	07/02/97	13.00		22.44	ND	ND	ND	ND	ND	25
	01/15/98	12.50		22.94	ND	ND	ND	ND	ND	ND
	07/08/98	10.53		24.91	ND	ND	ND	ND	ND	25
	01/11/99	12.95		22.49	ND	ND	ND	ND	ND	23
	07/07/99	11.76		23.68	ND	ND	ND	ND	ND	15
	01/04/00	13.17		22.27	ND	ND	ND	ND	ND	13.2
	07/15/00	13.04		22.40	ND	ND	ND	ND	ND	11
	01/19/01	**12.65**		**22.79**	**ND**	**ND**	**ND**	**ND**	**ND**	**9.97**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7004

15599 Hesperian Boulevard

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	07/23/91	--	10.0-26.0	--	260	1.2	0.39	10	0.71	--
	10/14/91	--		--	140	0.72	ND	1.3	0.89	--
	01/14/92	--		--	60[1]	ND	ND	ND	ND	--
	04/14/92	--		--	86[1]	ND	ND	ND	ND	--
	07/09/92	--		--	ND	ND	ND	ND	ND	71
	10/28/92	--		--	ND	ND	ND	ND	ND	45
	01/21/93	--		--	100[1]	ND	ND	ND	ND	160
37.01	04/20/93	14.87		22.14	99[1]	ND	ND	ND	ND	120
	07/22/93	14.82		22.19	59[2]	ND	ND	2.6	ND	42
36.81	10/06/93	15.61		21.20	150	1.1	ND	3.1	0.85	57
	01/11/94	15.84		20.97	160	ND	0.79	0.54	ND	--
	04/06/94	14.90		21.91	260	1.4	ND	0.88	ND	--
	07/08/94	15.38		21.43	200	ND	ND	ND	ND	--
	10/06/94	16.42		20.39	350	1.3	ND	ND	ND	--
	01/05/95	15.20		21.61	85	ND	ND	ND	ND	--
	04/05/95	11.72		25.09	ND	ND	ND	ND	ND	--
	07/14/95	13.69		23.12	180	1.3	ND	7.9	ND	--
	10/12/95	15.02		21.79	310	ND	ND	31	1.2	--[3]
	01/08/96	14.85		21.96	ND	0.55	ND	ND	0.58	--[4]
	07/08/96	13.52		23.29	140	2.1	1.4	5.6	0.51	110
	07/12/96	14.50		22.31	--	--	--	--	--	--
	01/03/97	12.85		23.96	12,000	150	ND	2,100	120	660
	07/02/97	13.79		23.02	ND	ND	ND	ND	ND	72
	01/15/98	13.03		23.78	69[6]	ND	ND	ND	ND	--[7]
	07/08/98	12.05		24.76	ND	0.74	ND	ND	ND	95
	01/11/99	14.41		22.40	ND	1.0	ND	ND	ND	170
	07/07/99	12.38		24.43	130	0.64	ND	ND	ND	330
	01/04/00	14.33		22.48	ND	ND	ND	ND	ND	183
	07/15/00	13.88		22.93	ND	0.68	ND	ND	ND	350
	01/19/01	**13.41**		**23.40**	**ND**	**ND**	**ND**	**ND**	**ND**	**195**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7004
15599 Hesperian Boulevard
San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	07/23/91	--	10.0-26.0	--	ND	ND	ND	ND	ND	--
	10/14/91	--		--	ND	ND	ND	ND	ND	--
	01/14/92	--		--	ND	ND	ND	ND	ND	--
	04/14/92	--		--	ND	ND	ND	ND	ND	--
	07/09/92	--		--	ND	ND	ND	ND	ND	--
	10/28/92	--		--	SAMPLED SEMI-ANNUALLY		--	--	--	--
	01/21/93	--		--	ND	ND	ND	ND	ND	--
37.55	04/20/93	15.27		22.28	--	--	--	--	--	ND
	07/22/93	15.20		22.35	ND	ND	ND	ND	ND	ND
37.13	10/06/93	15.75		21.38	--	--	--	--	--	--
	01/11/94	16.02		21.11	ND	ND	ND	ND	ND	--
	04/06/94	15.07		22.06	--	--	--	--	--	--
	07/08/94	15.55		21.58	ND	ND	ND	ND	ND	--
	10/06/94	16.58		20.55	--	--	--	--	--	--
	01/05/95	15.42		21.71	ND	ND	ND	ND	ND	--
	04/05/95	12.14		24.99	--	--	--	--	--	--
	07/14/95	13.87		23.26	ND	ND	ND	ND	ND	--
	10/12/95	15.17		21.96	--	--	--	--	--	--
	01/08/96	15.05		22.08	ND	ND	ND	ND	ND	--
	07/08/96	13.71		23.42	ND	ND	ND	ND	ND	ND
	01/03/97	13.12		24.01	97[1]	ND	ND	ND	ND	ND
	07/02/97	14.57		22.56	ND	ND	ND	ND	ND	ND
	01/15/98	13.30		23.83	ND	ND	ND	ND	ND	ND
	07/08/98	12.33		24.80	ND	ND	ND	ND	ND	ND
	01/11/99	14.60		22.53	ND	ND	ND	ND	ND	ND
	07/07/99	13.23		23.90	ND	ND	ND	ND	ND	ND
	01/04/00	14.41		22.72	ND	ND	ND	ND	ND	ND
	07/15/00	14.05		23.08	ND	ND	ND	ND	ND	ND
	01/19/01	**13.58**		**23.55**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7004

15599 Hesperian Boulevard

San Leandro, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
RW-1	07/08/98	11.72	12.5-27.5	--	80[8]	1.7	ND	ND	ND	1,300
	01/11/99	14.05		--	ND[5]	3.0	ND[5]	ND[5]	ND[5]	1,200
	07/07/99	13.05		--	ND	ND	ND	ND	ND	590
	01/04/00	14.26		--	ND	ND	ND	ND	ND	270
	07/15/00	13.77		--	ND	0.55	ND	ND	ND	460
	01/19/01	**13.29**		**--**	**ND**	**ND**	**ND**	**ND**	**ND**	**338**
Trip Blank										
TB-LB	01/15/98	--	--	--	ND	ND	ND	ND	ND	ND
	07/08/98	--		--	ND	ND	ND	ND	ND	ND
	01/11/99	--		--	ND	ND	ND	ND	ND	ND
	07/07/99	--		--	ND	ND	ND	ND	ND	ND
	01/04/00	--		--	ND	ND	ND	ND	ND	ND
	07/15/00	--		--	ND	ND	ND	ND	ND	ND
	01/19/01	**--**		**--**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7004
15599 Hesperian Boulevard
San Leandro, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to January 15, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
S.I. = Screen Interval
(ft. bgs.) = Feet Below Ground Surface
GWE = Groundwater Elevation
msl = 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
ND = Not Detected
-- = Not Measured/Not Analyzed/Not Available

* TOC elevations are relative to mean sea level (msl), based on the City of San Leandro Benchmark (Elevation = 36.04 feet msl). Prior to October 6, 1993, the DTW measurements were taken from the top of well covers.

1 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
2 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
3 Laboratory has 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 and odor threshold of 40 ppb in the sample collected from this well.
5 Detection limit raised. Refer to analytical reports.
6 Laboratory report indicates unidentified hydrocarbons C6-C8.
7 Laboratory narrative: MTBE was not reported due to the presence of a chlorinated hydrocarbon pattern.
8 Laboratory report indicates discrete peaks and unidentified hydrocarbons <C7.
9 Laboratory report indicates discrete peaks.
10 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
11 Laboratory report indicates gasoline and unidentified hydrocarbons <C6.
12 Laboratory report indicates gasoline C6-C12.
13 MTBE by EPA Method 8260.
14 Laboratory report indicates weathered gasoline C6-C12.

Table 2

Dissolved Oxygen Concentrations

Tosco (Unocal) Service Station #7004

15599 Hesperian Boulevard

San Leandro, California

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
MW-5	07/02/97	3.82	3.97
	01/03/97	4.35	4.27
	07/12/96	3.44	3.67
	01/15/98	4.19	4.38
	07/08/98	4.67	4.60

EXPLANATIONS:

Dissolved oxygen concentrations prior to January 15, 1998, were compiled from reports prepared by MPDS Services, Inc.

mg/L = milligrams per liter

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #7004
15599 Hesperian Boulevard
San Leandro, California

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	08/25/00	ND[1]	1,920	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(ppb) = Parts per billion
ND = Not Detected

[1] Dectection limit raised. Refer to analytical reports.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 7004 Job#: 180106

Address: 15599 Hesperian Blvd. Date: 1-19-01

City: San Leandro Sampler: Joe

Well ID MW-1 Well Condition: O.K.

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

Total Depth 24.40 ft.

Depth to Water 12.96 ft.

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

11.44 x VF 0.17 = 1.94 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer / Bailer / Stack / Suction / Grundfos / Other:

Sampling Equipment: Disposable Bailer / Bailer / Pressure Bailer / Grab Sample / Other:

Starting Time: 7:56 Weather Conditions: clear/cold

Sampling Time: 8:13 AM Water Color: clear Odor: none

Purging Flow Rate: 1 gpm. Sediment Description: none

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

Time	Volume (gal.)	pH	Conductivity µmhos/cm X 100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:02	2	7.30	1366	72.2			
8:04	4	7.39	1325	71.6			
8:05	6	7.41	1320	72.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE

COMMENTS:

3/97-field1.frm

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 7004 Job#: 180106

Address: 15599 Hesperian Blvd. Date: 1-19-01

City: San Leandro Sampler: Joe

Well ID MW-2 Well Condition: O.K.

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

Total Depth 24.50 ±

Depth to Water 13.37 ±

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

11.13 x VF 0.17 = 1.89 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer / Bailer / Stack / Suction / Grundfos / Other:

Sampling Equipment: Disposable Bailer / Bailer / Pressure Bailer / Grab Sample / Other:

Starting Time: 8:27 Weather Conditions: clear/cold

Sampling Time: 8:50 A.M. Water Color: clear Odor: non

Purging Flow Rate: 1 gpm. Sediment Description: none

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

Time	Volume (gal.)	pH	Conductivity (x 100) µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:35	2	7.96	10.38	72.2			
8:37	4	7.37	10.25	72.5			
8:38	6	7.45	10.16	72.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

- Client/ Facility # 7004 — Job#: 180106
- Address: 15599 Hesperian Blvd. — Date: 1-19-01
- City: San Leandro — Sampler: Joe

Well ID: MW-3 — Well Condition: O.K.

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

Total Depth: 24.78 ft.

Depth to Water: 13.42 ft.

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

11.36 X VF 0.17 = 1.93 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

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

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

Starting Time: 11:09 — Weather Conditions: clear/cold

Sampling Time: 11:18 A.M. — Water Color: clear — Odor: H2S

Purging Flow Rate: 1 gpm — Sediment Description: none

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

Time	Volume (gal.)	pH	Conductivity (x 1000) µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:12	2	6.80	1.55	72.2			
11:13	4	6.82	1.85	72.5			
11:14	6	6.85	1.90	72.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility #: 7004 Job#: 180106

Address: 15599 Hesperian Blvd. Date: 1-19-01

City: San Leandro Sampler: Joe

Well ID: MW-4 Well Condition: O.K.

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

Total Depth: 25.60 ft.

Depth to Water: 12.65 ft.

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

12.95 X VF 0.17 = 2.20 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: Disposable Bailer / Bailer / Stack / Suction / Grundfos / Other: _____

Sampling Equipment: Disposable Bailer / Bailer / Pressure Bailer / Grab Sample / Other: _____

Starting Time: 9:15 Weather Conditions: clear/cold

Sampling Time: 9:35 a.m. Water Color: clear Odor: none

Purging Flow Rate: 1 gpm. Sediment Description: none

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

Time	Volume (gal.)	pH	Conductivity (x100) µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:22	2.5	7.67	8.10	72.9			
9:28	5	7.27	7.76	73.0			
9:34	7	7.31	7.84	72.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

- Client/ Facility # 7004 — Job#: 180106
- Address: 15599 Hesperian Blvd. — Date: 1-19-01
- City: San Leandro — Sampler: Joe

Well ID: MW-5 — Well Condition: O.K.

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

Total Depth: 26.17 ft.

Depth to Water: 13.41 ft.

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

12.76 X VF 0.17 = 2.17 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

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

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

Starting Time: 9:42 — Weather Conditions: clear/cold

Sampling Time: 10:05 A.m — Water Color: clear — Odor: none

Purging Flow Rate: 1 gpm — Sediment Description: none

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

Time	Volume (gal.)	pH	Conductivity µmhos/cm X10	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:50	2	7.67	5.59	733			
9:51	4	7.60	5.69	735			
9:52	6.5	7.57	5.72	738			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 7004 Job#: 180106

Address: 15599 Hesperian Blvd. Date: 1-19-01

City: San Leandro Sampler: Joe

Well ID MW-6 Well Condition: O.K.

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

Total Depth 25.63 ft.

Depth to Water 13.58 ft.

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

12.05 x VF 0.17 = 2.04 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other:

Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 6:55 Weather Conditions: clear/cold

Sampling Time: 7:22 A.M. Water Color: clear Odor: none

Purging Flow Rate: gpm Sediment Description: none

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

Time	Volume (gal.)	pH	Conductivity (√0) µmhos/cm X	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
7:05	2	7.46	12.11	72.2			
7:06	4	7.30	11.67	73.0			
7:08	6.5	7.40	11.62	73.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

• Client/
Facility # 7004 Job#: 180106

Address: 15599 Hesperian Blvd. Date: 1-19-01

City: San Leandro Sampler: Joe

Well ID: Rw-1 Well Condition: O.K.

Well Diameter: 6 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth: 26.45 ft.

Depth to Water: 13.29 ft.

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

13.16 X VF 1.50 = 19.74 X 3 (case volume) = Estimated Purge Volume: 60 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other:

Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 10:07 Weather Conditions: clear/cold

Sampling Time: 10:35 A.M Water Color: clear Odor: none

Purging Flow Rate: 3 gpm Sediment Description: none

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

Time	Volume (gal.)	pH	Conductivity (√0) µmhos/cm X	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:15	20	7.27	5.12	69.2			
10:19	40	7.37	5.16	69.0			
10:25	60	7.44	5.11	69.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
Rw-1	3 VOA	Y	HCL	Sequoia	TPHG, BTEX, MTBE

COMMENTS:

Chain-of-Custody-Record

TOSCO

Tosco Marketing Company
2000 Crow Canyon Pl., Ste. 400
San Ramon, California 94583

L101134

Facility Number: UNOCAL SS# 7004
Facility Address: 15599 Hesperian Blvd, San Leandro, CA
Consultant Project Number: 180-106
Consultant Name: Gettler-Ryan Inc. (G-R Inc.)
Address: 6747 Sierra Court, Suite J, Dublin, CA 94568
Project Contact (Name): Deanna L. Harding
(Phone) 925-551-7555 (Fax Number) 925-551-7888

Contact (Name): Mr. David DeWitt
(Phone): (925) 277-2384
Laboratory Name: Sequoia Analytical
Laboratory Release Number:
Samples Collected by (Name): Joe Ajemian
Collection Date: 1-19-01
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	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)						DO NOT BILL TB-LB ANALYSIS Remarks
								Analyses To Be Performed													
TB-LB	01	3 VOA	W	G	—	HCL	Y	✓													
MW-1	02	3 VOA	"	"	8:13	"	"	✓													
MW-2	03	"	"	"	8:50	"	"	✓													
MW-3	04	"	"	"	11:18	"	"	✓													
MW-4	05	"	"	"	9:35	"	"	✓													
MW-5	06	"	"	"	10:05	"	"	✓													
MW-6	07	"	"	"	7:22	"	"	✓													
RW-1	08	"	"	"	10:35	"	"	✓													

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	1-19-01			1/19/01
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia
Analytical

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

February 02 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L101134

Enclosed are the results of analyses for samples received by the laboratory on 01/19/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7004 Project Manager: Deanna Harding	**Reported:** 02/02/01 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L101134-01	Water	01/19/01 00:00	01/19/01 17:00
MW-1	L101134-02	Water	01/19/01 08:13	01/19/01 17:00
MW-2	L101134-03	Water	01/19/01 08:50	01/19/01 17:00
MW-3	L101134-04	Water	01/19/01 11:18	01/19/01 17:00
MW-4	L101134-05	Water	01/19/01 09:35	01/19/01 17:00
MW-5	L101134-06	Water	01/19/01 10:05	01/19/01 17:00
MW-6	L101134-07	Water	01/19/01 07:22	01/19/01 17:00
RW-1	L101134-08	Water	01/19/01 10:35	01/19/01 17:00

Gettler-Ryan/Geostrategies(1)	Project: Tosco(1)	
6747 Sierra Court, Suite J	Project Number: Unocal SS#7004	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	02/02/01 14:16

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

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L101134-01) Water Sampled: 01/19/01 00:00 Received: 01/19/01 17:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1010102	01/31/01	02/01/01	DHS LUFT	
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		*93.2 %*		*70-130*	"	"	"	"	
MW-1 (L101134-02) Water Sampled: 01/19/01 08:13 Received: 01/19/01 17:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1010102	01/31/01	02/01/01	DHS LUFT	
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		*103 %*		*70-130*	"	"	"	"	
MW-2 (L101134-03) Water Sampled: 01/19/01 08:50 Received: 01/19/01 17:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1010101	01/31/01	02/01/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**6.84**	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.3 %*		*70-130*	"	"	"	"	

Gettler-Ryan/Geostrategies(1)	Project: Tosco(1)	
6747 Sierra Court, Suite J	Project Number: Unocal SS#7004	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	02/02/01 14:16

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

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L101134-04) Water Sampled: 01/19/01 11:18 Received: 01/19/01 17:00									
Purgeable Hydrocarbons as Gasoline	**11100**	2000	ug/l	40	1010102	01/31/01	02/01/01	DHS LUFT	P-02
Benzene	**38.4**	20.0	"	"	"	"	"	"	
Toluene	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	**1760**	20.0	"	"	"	"	"	"	
Xylenes (total)	**38.8**	20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*70-130*		"	"	"	"	
MW-4 (L101134-05) Water Sampled: 01/19/01 09:35 Received: 01/19/01 17:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1010101	01/31/01	02/01/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**9.97**	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*		"	"	"	"	
MW-5 (L101134-06) Water Sampled: 01/19/01 10:05 Received: 01/19/01 17:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1010101	01/31/01	02/01/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**195**	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*70-130*		"	"	"	"	

Gettler-Ryan/Geostrategies(1)	Project: Tosco(1)	
6747 Sierra Court, Suite J	Project Number: Unocal SS#7004	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	02/02/01 14:16

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

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (L101134-07) Water Sampled: 01/19/01 07:22 Received: 01/19/01 17:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1010101	01/31/01	02/01/01	DHS LUFT	
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		*88.6 %*	*70-130*		"	"	"	"	
RW-1 (L101134-08) Water Sampled: 01/19/01 10:35 Received: 01/19/01 17:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1010101	01/31/01	02/01/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**338**	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*70-130*		"	"	"	"	

Gettler-Ryan/Geostrategies(1)	Project: Tosco(1)	
6747 Sierra Court, Suite J	Project Number: Unocal SS#7004	**Reported:**
Dublin CA, 94568	Project Manager: Deanna Harding	02/02/01 14:16

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

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1010101 - EPA 5030B (P/T)										
Blank (1010101-BLK1)				Prepared & Analyzed: 01/31/01						
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
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	*9.68*		"	*10.0*		*96.8*	*70-130*			
LCS (1010101-BS1)				Prepared & Analyzed: 01/31/01						
Benzene	8.88	0.500	ug/l	10.0		88.8	70-130			
Toluene	8.61	0.500	"	10.0		86.1	70-130			
Ethylbenzene	8.81	0.500	"	10.0		88.1	70-130			
Xylenes (total)	26.1	0.500	"	30.0		87.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.0*		"	*10.0*		*100*	*70-130*			
LCS (1010101-BS2)				Prepared & Analyzed: 01/31/01						
Purgeable Hydrocarbons as Gasoline	248	50.0	ug/l	250		99.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.46*		"	*10.0*		*84.6*	*70-130*			
Matrix Spike (1010101-MS1)		**Source: L101162-01**		Prepared: 01/31/01 Analyzed: 02/01/01						
Purgeable Hydrocarbons as Gasoline	254	50.0	ug/l	250	ND	102	60-140			
Surrogate: a,a,a-Trifluorotoluene	*10.3*		"	*10.0*		*103*	*70-130*			
Matrix Spike Dup (1010101-MSD1)		**Source: L101162-01**		Prepared: 01/31/01 Analyzed: 02/01/01						
Purgeable Hydrocarbons as Gasoline	252	50.0	ug/l	250	ND	101	60-140	0.791	25	
Surrogate: a,a,a-Trifluorotoluene	*10.4*		"	*10.0*		*104*	*70-130*			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7004 Project Manager: Deanna Harding	**Reported:** 02/02/01 14:16

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

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1010102 - EPA 5030B (P/T)										
Blank (1010102-BLK1)				Prepared & Analyzed: 01/31/01						
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
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	*10.5*		"	*10.0*		*105*	*70-130*			
LCS (1010102-BS1)				Prepared & Analyzed: 01/31/01						
Benzene	9.88	0.500	ug/l	10.0		98.8	70-130			
Toluene	9.47	0.500	"	10.0		94.7	70-130			
Ethylbenzene	9.38	0.500	"	10.0		93.8	70-130			
Xylenes (total)	27.9	0.500	"	30.0		93.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.5*		"	*10.0*		*105*	*70-130*			
LCS (1010102-BS2)				Prepared & Analyzed: 01/31/01						
Purgeable Hydrocarbons as Gasoline	227	50.0	ug/l	250		90.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.7*		"	*10.0*		*107*	*70-130*			
Matrix Spike (1010102-MS1)		**Source: L101158-01**		Prepared: 01/31/01 Analyzed: 02/01/01						
Purgeable Hydrocarbons as Gasoline	241	50.0	ug/l	250	ND	96.4	60-140			
Surrogate: a,a,a-Trifluorotoluene	*10.5*		"	*10.0*		*105*	*70-130*			
Matrix Spike Dup (1010102-MSD1)		**Source: L101158-01**		Prepared: 01/31/01 Analyzed: 02/01/01						
Purgeable Hydrocarbons as Gasoline	215	50.0	ug/l	250	ND	86.0	60-140	11.4	25	
Surrogate: a,a,a-Trifluorotoluene	*9.85*		"	*10.0*		*98.5*	*70-130*			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7004 Project Manager: Deanna Harding	**Reported:** 02/02/01 14:16

Notes and Definitions

P-02	Chromatogram Pattern: Weathered 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

APR 05 2001