



GETTLER - RYAN INC.

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

RECEIVED
1:20 pm, Jun 08, 2009
Alameda County
Environmental Health

March 14, 2001
G-R Job #180041

RE: Annual Event of February 2, 2001
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

Dear Mr. De Witt:

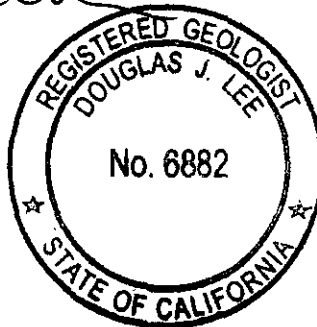
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

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. A Potentiometric Map is included as Figure 1.

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

Sincerely,

Deanna L. Harding
Deanna L. Harding
Project Coordinator

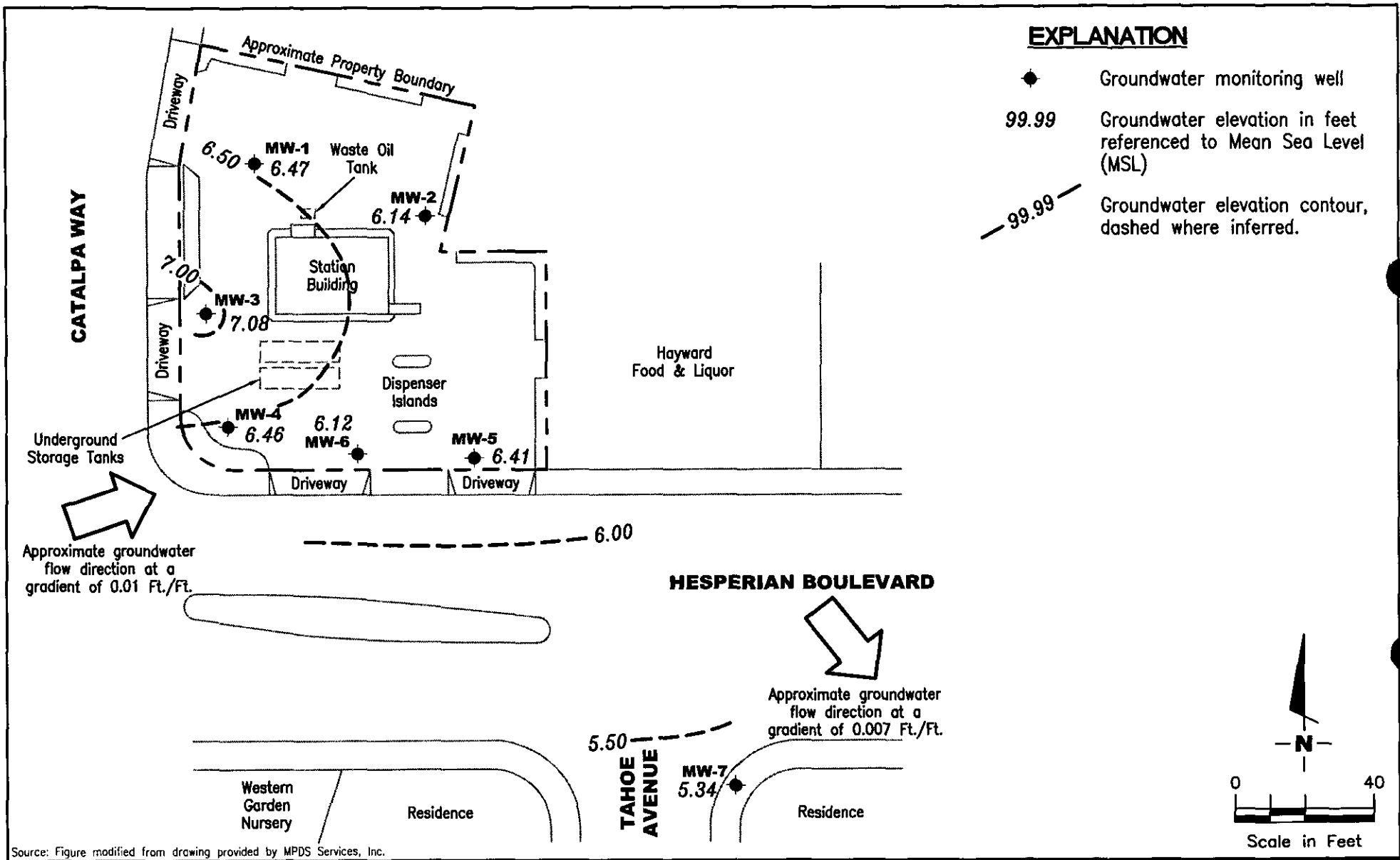


Stephen J. Carter
FOR Stephen J. Carter
Senior Geologist, R.G. No. 5577

255487 SS BP
QM TRANSMITTAL
3 4 5

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

5487.qmf

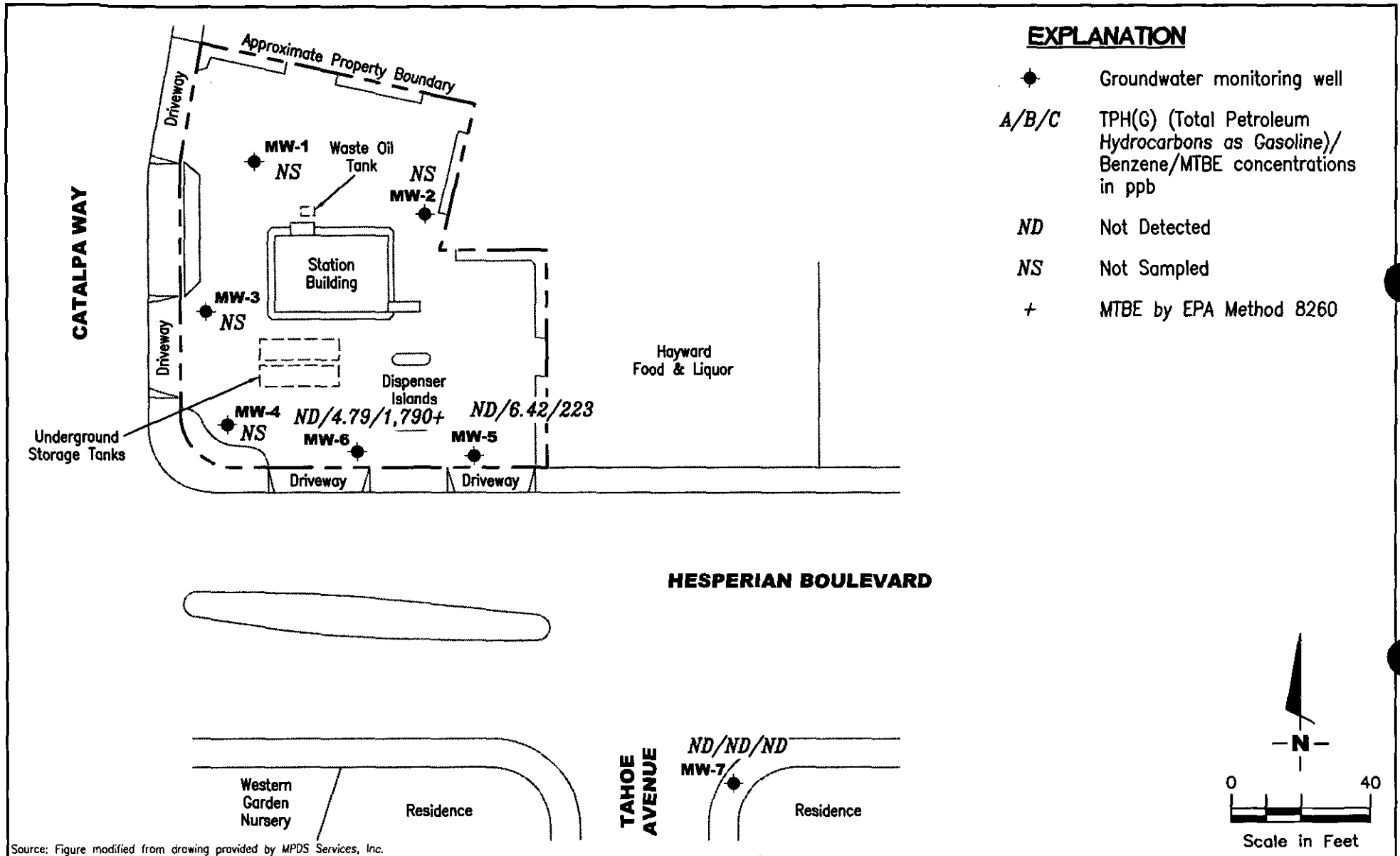


GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #5487
 28250 Hesperian Boulevard
 Hayward, California

FIGURE
1

PROJECT NUMBER: 180041 REVIEWED BY: DATE: February 2, 2001 REVISED DATE:



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
 Tosco (Unocal) Service Station #5487
 28250 Hesperian Boulevard
 Hayward, California

FIGURE
2

PROJECT NUMBER
 180041

REVIEWED BY

DATE
 February 2, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5487
 28250 Hesperian Boulevard
 Hayward, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (mst)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	04/26/89 ¹	--	--	ND	2.1	ND	ND	ND	--
	08/16/89 ²	--	--	ND	ND	ND	ND	ND	--
	11/14/89 ¹	--	--	ND	ND	ND	ND	ND	--
	02/16/90 ¹	--	--	ND	ND	ND	ND	ND	--
	05/16/90 ¹	--	--	ND	ND	ND	ND	ND	--
	08/29/90 ¹	--	--	ND	ND	ND	ND	0.74	--
	11/15/90 ¹	--	--	ND	ND	ND	ND	ND	--
	02/11/91 ¹	--	--	ND	ND	ND	ND	ND	--
	05/10/91	--	--	ND	ND	ND	ND	ND	--
	08/02/91	--	--	ND	ND	ND	ND	ND	--
	11/07/91	--	--	ND	ND	ND	ND	ND	--
	08/04/92	--	--	ND	ND	ND	ND	ND	--
12.57	05/03/93	6.87	5.70	--	--	--	--	--	--
	08/05/93	7.49	5.08	ND	ND	ND	ND	ND	--
11.73	11/05/93	6.98	4.75	--	--	--	--	--	--
	02/07/94	6.26	5.47	--	--	--	--	--	--
	05/02/94	6.27	5.46	--	--	--	--	--	--
	08/02/94	6.89	4.84	ND	ND	ND	ND	ND	--
	11/02/94	7.07	4.66	--	--	--	--	--	--
	02/01/95	5.17	6.56	--	--	--	--	--	--
	05/02/95	5.65	6.08	--	--	--	--	--	--
	08/03/95	6.21	5.52	ND	ND	ND	ND	ND	--
	11/06/95	6.80	4.93	--	--	--	--	--	--
	02/02/96	3.88	7.85	SAMPLED ANNUALLY		--	--	--	--
	02/07/97	4.63	7.10	SAMPLING DISCONTINUED		--	--	--	--
	02/09/98	2.70	9.03	--	--	--	--	--	--
	02/02/99	5.42	6.31	--	--	--	--	--	--
	02/04/00	4.08	7.65	--	--	--	--	--	--
	02/02/01	5.26	6.47	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	04/26/89 ¹	--	--	ND	ND	ND	ND	ND	--
	08/16/89 ²	--	--	ND	ND	ND	ND	ND	--
	11/14/89 ¹	--	--	ND	ND	ND	ND	ND	--
	02/16/90	--	--	ND	ND	ND	ND	ND	--
	05/16/90 ¹	--	--	ND	ND	ND	ND	ND	--
	08/29/90	--	--	ND	ND	ND	ND	ND	--
	11/15/90	--	--	ND	ND	ND	ND	ND	--
	02/11/91	--	--	ND	ND	ND	ND	ND	--
	05/10/91	--	--	ND	ND	ND	ND	ND	--
	08/02/91	--	--	ND	ND	ND	ND	ND	--
	11/07/91	--	--	ND	ND	ND	ND	ND	--
	08/04/92	--	--	ND	ND	ND	ND	ND	--
12.89	05/03/93	7.30	5.59	--	--	--	--	--	--
	08/05/93	7.97	4.92	ND	ND	ND	ND	ND	--
12.58	11/05/93	7.97	4.61	--	--	--	--	--	--
	02/07/94	7.09	5.49	--	--	--	--	--	--
	05/02/94	7.23	5.35	--	--	--	--	--	--
	08/02/94	7.87	4.71	ND	ND	ND	ND	ND	--
	11/02/94	7.98	4.60	--	--	--	--	--	--
	02/01/95	6.13	6.45	--	--	--	--	--	--
	05/02/95	7.04	5.54	--	--	--	--	--	--
	08/03/95	7.19	5.39	ND	ND	ND	ND	ND	--
	11/06/95	7.80	4.78	--	--	--	--	--	--
	02/02/96	5.91	6.67	SAMPLED ANNUALLY		--	--	--	--
	02/07/97	5.65	6.93	SAMPLING DISCONTINUED		--	--	--	--
	02/09/98	3.63	8.95	--	--	--	--	--	--
	02/02/99	6.36	6.22	--	--	--	--	--	--
	02/04/00	6.04	6.54	--	--	--	--	--	--
	02/02/01	6.44	6.14	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5487
 28250 Hesperian Boulevard
 Hayward, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	04/26/89 ¹	--	--	ND	ND	ND	ND	ND	--
	08/16/89	--	--	ND	ND	ND	ND	ND	--
	11/14/89	--	--	ND	ND	ND	ND	ND	--
	02/16/90	--	--	ND	ND	ND	ND	ND	--
	05/16/90	--	--	ND	ND	ND	ND	ND	--
	08/29/90	--	--	ND	ND	0.52	ND	ND	--
	11/15/90	--	--	ND	ND	ND	ND	ND	--
	02/11/91	--	--	ND	ND	ND	ND	ND	--
	05/10/91	--	--	ND	ND	ND	ND	ND	--
	08/02/91	--	--	ND	ND	ND	ND	ND	--
	11/07/91	--	--	ND	ND	ND	ND	ND	--
	08/04/92	--	--	ND	ND	ND	ND	ND	--
12.46	05/03/93	6.82	5.64	--	--	--	--	--	--
	08/05/93	7.50	4.96	--	--	--	--	--	--
11.99	11/05/93	7.35	4.64	--	--	--	--	--	--
	02/07/94	6.58	5.41	--	--	--	--	--	--
	05/02/94	6.62	5.37	--	--	--	--	--	--
	08/02/94	7.24	4.75	ND	ND	ND	ND	ND	--
	11/02/94	7.42	4.57	--	--	--	--	--	--
	02/01/95	5.55	6.44	--	--	--	--	--	--
	05/02/95	5.70	6.29	--	--	--	--	--	--
	08/03/95	6.59	5.40	ND	ND	ND	ND	ND	--
	11/06/95	7.20	4.79	--	--	--	--	--	--
	02/02/96	4.08	7.91	SAMPLED ANNUALLY		--	--	--	--
	02/07/97	5.04	6.95	SAMPLING DISCONTINUED		--	--	--	--
	02/09/98	3.11	8.88	--	--	--	--	--	--
	02/02/99	5.69	6.30	--	--	--	--	--	--
	02/04/00	4.26	7.73	--	--	--	--	--	--
	02/02/01	4.91	7.08	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	04/26/89 ¹	--	--	ND	0.33	ND	ND	ND	--
	08/16/89	--	--	ND	ND	ND	ND	ND	--
	11/14/89	--	--	ND	ND	ND	ND	ND	--
	02/16/90	--	--	ND	ND	ND	ND	ND	--
	05/16/90	--	--	ND	ND	ND	ND	ND	--
	08/29/90	--	--	ND	ND	ND	ND	ND	--
	11/15/90	--	--	ND	ND	ND	ND	ND	--
	02/11/91	--	--	ND	ND	ND	ND	ND	--
	05/10/91	--	--	ND	ND	ND	ND	ND	--
	08/02/91	--	--	ND	ND	ND	ND	ND	--
	11/07/91	--	--	ND	ND	ND	ND	ND	--
	08/04/92	--	--	ND	ND	ND	ND	ND	--
12.09	05/03/93	6.60	5.49	--	--	--	--	--	--
	08/05/93	7.28	4.81	ND	ND	ND	ND	ND	--
11.58	11/05/93	7.07	4.51	--	--	--	--	--	--
	02/07/94	6.21	5.37	--	--	--	--	--	--
	05/02/94	6.32	5.26	--	--	--	--	--	--
	08/02/94	6.95	4.63	ND	ND	ND	ND	ND	--
	11/02/94	7.13	4.45	SAMPLED ANNUALLY		--	--	--	--
	02/01/95	5.23	6.35	--	--	--	--	--	--
	05/02/95	5.43	6.15	--	--	--	--	--	--
	08/03/95	6.33	5.25	ND	ND	ND	ND	ND	--
	11/06/95	6.90	4.68	--	--	--	--	--	--
	02/02/96	3.71	7.87	--	--	--	--	--	--
	02/07/97	4.46	7.12	SAMPLING DISCONTINUED		--	--	--	--
	02/09/98	2.55	9.03	--	--	--	--	--	--
	02/02/99	5.37	6.21	--	--	--	--	--	--
	02/04/00	4.09	7.49	--	--	--	--	--	--
	02/02/01	5.12	6.46	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5487
 28250 Hesperian Boulevard
 Hayward, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	04/26/89 ¹	--	--	ND	ND	ND	ND	ND	--
	08/16/89	--	--	4,400	1,400	84	200	950	--
	08/31/89	--	--	910	120	7.1	50	53	--
	11/14/89	--	--	73	4.7	0.97	2.9	16	--
	02/16/90	--	--	ND	ND	ND	ND	ND	--
	05/16/90	--	--	1,100	310	2.8	70	110	--
	08/29/90	--	--	ND	0.70	ND	0.57	1.1	--
	11/15/90	--	--	ND	ND	ND	ND	0.47	--
	02/11/91	--	--	58	23	ND	2.9	1.3	--
	05/10/91	--	--	ND	ND	ND	ND	ND	--
	08/02/91	--	--	100	43	0.33	12	5.2	--
	11/07/91	--	--	700	43	1.7	29	24	--
	02/05/92	--	--	120	20	ND	4.4	4.7	--
	05/05/92	--	--	170	45	0.48	9.0	6.8	--
	08/04/92	--	--	80	13	ND	4.5	6.9	--
	11/05/92	--	--	120	16	ND	3.5	3.0	--
	02/02/93	--	--	77 ³	5.0	ND	1.2	1.3	--
11.18	05/03/93	6.16	5.02	260	35	ND	2.3	3.1	--
	08/05/93	6.97	4.21	530	210	0.62	54	44	--
10.79	11/05/93	6.81	3.98	110	12	ND	2.3	2.3	--
	02/07/94	5.70	5.09	180	22	ND	6.4	5.9	--
	05/02/94	5.96	4.83	170 ³	38	0.73	8.5	8.4	--
	08/02/94	6.68	4.11	59	16	ND	2.4	3.1	--
	11/02/94	6.86	3.93	450	73	1.6	6.2	11	--
	02/01/95	4.85	5.94	170	11	ND	2.4	3.9	--
	05/02/95	4.95	5.84	ND	7.5	0.51	1.2	1.6	--
	08/03/95	6.03	4.76	ND	12	ND	0.70	ND	--
	11/06/95	6.70	4.09	160	80	ND	7.4	10	120
	02/02/96	3.50	7.29	64	20	ND	3.9	6.1	150

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	02/07/97	4.26	6.53	85	16	0.56	1.7	3.8	250
(cont)	02/09/98	2.29	8.50	220	54	ND	3.2	5.9	230
	02/02/99	5.07	5.72	61 ⁶	19	ND	1.3	2.1	110
	02/04/00	3.68	7.11	ND	8.4	ND	ND	ND	86
	02/02/01	4.38	6.41	ND	6.42	ND	ND	ND	223
MW-6	08/04/92	--	--	540	12	7.9	35	110	--
	11/05/92	--	--	300	16	2.3	14	14	--
	02/02/93	--	--	400 ³	66	5.5	32	13	--
11.47	05/03/93	6.28	5.19	520	47	2.6	33	48	--
	08/05/93	7.05	4.42	230	25	1.6	12	29	--
11.18	11/05/93	7.02	4.16	100	1.8	ND	0.79	2.2	--
	02/07/94	6.00	5.18	1,100	130	14	13	130	--
	05/02/94	6.18	5.00	440 ³	20	4.2	11	26	--
	08/02/94	6.88	4.30	220	13	1.0	12	28	--
	11/02/94	7.05	4.13	840	30	2.5	26	57	--
	02/01/95	5.04	6.14	340	26	0.77	2.6	7.0	--
	05/02/95	5.00	6.18	ND	5.7	ND	0.81	1.1	--
	08/03/95	6.26	4.92	ND	0.76	ND	ND	ND	--
	11/06/95	6.87	4.31	210	17	0.66	14	37	130
	02/02/96	3.64	7.54	300	51	0.65	30	18	280
	02/07/97	4.41	6.77	66	5.8	1.2	2.1	6.6	450
	02/09/98	2.51	8.67	ND ⁵	1.0	ND ⁵	ND ⁵	ND ⁵	450
	02/02/99	5.14	6.04	ND	2.6	ND	1.0	2.9	490
	02/04/00	4.11	7.07	110 ⁷	3.9	ND ⁵	ND ⁵	ND ⁵	830
	02/02/01	5.06	6.12	ND⁵	4.79	ND⁵	ND⁵	ND⁵	1,800/1,790⁸

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5487
 28250 Hesperian Boulevard
 Hayward, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7									
	07/30/96	--	--	ND	ND	ND	ND	ND	ND
9.39	02/07/97	3.75	5.64	ND	ND	ND	ND	ND	ND
	02/09/98	1.69	7.70	ND	ND	ND	ND	ND	ND
	02/02/99	4.14	5.25	ND	ND	ND	ND	ND	ND
	02/04/00	3.97	5.42	ND	ND	ND	ND	ND	ND
	02/02/01	4.05	5.34	ND	ND	ND	ND	ND	ND
MWD⁴									
	05/10/91	--	--	ND	ND	ND	ND	ND	--
Trip Blank									
TB-LB	02/09/98	--	--	ND	ND	ND	ND	ND	ND
	02/02/99	--	--	ND	ND	ND	ND	ND	ND
	02/04/00	--	--	ND	ND	ND	ND	ND	ND
	02/02/01	--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to February 9, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	B = Benzene	(ppb) = Parts per billion
DTW = Depth to Water	T = Toluene	ND = Not Detected
(ft.) = Feet	E = Ethylbenzene	-- = Not Measured/Not Analyzed
GWE = Groundwater Elevation	X = Xylenes	TOG = Total Oil and Grease
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	
TPH-D = Total Petroleum Hydrocarbons as Diesel		
TPH-G = Total Petroleum Hydrocarbons as Gasoline		

* Prior to November 5, 1993, the elevations of the Top of Well Covers have been surveyed relative to Mean Sea Level (msl), per the City of Hayward Benchmark (Elevation = 10.97 feet, msl). TOC elevations are relative to Mean Sea Level (msl), per the City of Hayward Benchmark (Elevation = 10.97 feet msl).

¹ TPH-D, TOG and all EPA Method 8010 constituents were ND.

² TOG for the samples collected from MW-1 and MW-2 were 23 ppm and 7.4 ppm, respectively. TPH-D and all EPA Method 8010 constituents were ND for both samples.

³ Laboratory report indicates that the hydrocarbons detected appear to be a gasoline and non-gasoline mixture.

⁴ MWD was a quality assurance duplicate water sample collected from well MW-5.

⁵ Detection limit raised. Refer to analytical reports.

⁶ Laboratory report indicates unidentified hydrocarbons C6-C12.

⁷ Laboratory report indicates gasoline C6-C12.

⁸ MTBE by Method 8260.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #5487
 28250 Hesperian Boulevard
 Hayward, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-6	02/02/01	ND ¹	ND ¹	1,790	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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

¹ Detection limit raised. Refer to analytical reports.

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 # 5487 Job#: 180041
 Address: 28250 Hesperian Blvd. Date: 2-2-01
 City: Hayward Sampler: Joc

Well ID MW-1 Well Condition: O.K.
 Well Diameter 2 in Hydrocarbon Amount Bailed
 Thickness: 1/2 in (product/water): 0 (gal.)
 Total Depth 27.16 ft
 Depth to Water 5.26 ft

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: _____ Weather Conditions: cloudy
 Sampling Time: _____ Water Color: clear Odor: _____
 Purging Flow Rate: _____ gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{hos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

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

COMMENTS: M, only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # 5487 Job#: 180041
 Address: 28250 Hesperian Blvd. Date: 2-2-01
 City: Hayward Sampler: Joe

Well ID MW-2 Well Condition: O.K.
 Well Diameter 2 in Hydrocarbon Amount Bailed
 Thickness: 0 in (product/water): 0 (gal.)
 Total Depth 23.75 ft
 Depth to Water 6.44 ft

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: _____ Weather Conditions: cloudy
 Sampling Time: _____ Water Color: clear Odor: _____
 Purging Flow Rate: _____ gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm ¹⁰⁰	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 VEA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: M. only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5487
Address: 28250 Hesperian Blvd.
City: Hayward

Job#: 180041
Date: 2-2-01
Sampler: Joe

Well ID MW-3
Well Diameter 2 in
Total Depth 24.35 ft
Depth to Water 4.91 ft

Well Condition: OK

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal)

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

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

Starting Time: _____
Sampling Time: _____
Purging Flow Rate: _____ gpm.
Did well de-water? _____

Weather Conditions: cloudy
Water Color: clear Odor: _____
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm}$ ^{MW}	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(7) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3Y:1</u>	<u>Y</u>	<u>HCL</u>	<u>Sequonia</u>	<u>TPH, BTEX, MTBE</u>

COMMENTS: M. only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5487
Address: 28250 Hesperian Blvd.
City: Hayward

Job#: 180041
Date: 2-2-01
Sampler: Joe

Well ID MW-4
Well Diameter 2 in
Total Depth 24.55 ft
Depth to Water 5.12 ft

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

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

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

Starting Time: _____
Sampling Time: _____
Purging Flow Rate: _____ gpm
Did well de-water? _____

Weather Conditions: cloudy
Water Color: clear Odor: _____
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$ ¹⁰⁰	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 YCA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: M. only

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5487
Address: 28250 Hesperian Blvd.
City: Hayward

Job#: 180041
Date: 2-2-01
Sampler: Joe

Well ID MW-5
Well Diameter 2 in
Total Depth 24.10 +
Depth to Water 4.38 +

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

$19.72 \times VF \text{ of } 0.17 = 3.35 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 10 \text{ (gal.)}$

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: cloudy
Sampling Time: 11:24 AM Water Color: clear Odor: none
Purging Flow Rate: 1 gpm Sediment Description: _____
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:10</u>	<u>3.5</u>	<u>7.26</u>	<u>7.58</u>	<u>71.9</u>			
<u>11:12</u>	<u>7</u>	<u>7.36</u>	<u>7.50</u>	<u>72.2</u>			
<u>11:14</u>	<u>10</u>	<u>7.37</u>	<u>7.42</u>	<u>71.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(?) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3VSA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5487 Job#: 180041
Address: 28250 Hesperian Blvd. Date: 2-2-01
City: Hayward Sampler: Joe

Well ID MW-6 Well Condition: OK
Well Diameter 2 in Hydrocarbon Amount Bailed
Thickness: 2 in (product/water): 0 (gal)
Total Depth 17.78 ft
Depth to Water 5.06 ft

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

$12.72 \times VF \ 0.17 = 2.16 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 6.5 \text{ (gal)}$

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

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

Starting Time: 10:25 Weather Conditions: cloudy
Sampling Time: 10:50 AM Water Color: clear Odor: None
Purging Flow Rate: 1 gpm Sediment Description: _____
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm}^{\text{NW}}$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:35</u>	<u>2</u>	<u>7.35</u>	<u>6.37</u>	<u>71.2</u>			
<u>10:37</u>	<u>4</u>	<u>7.30</u>	<u>6.26</u>	<u>72.2</u>			
<u>10:39</u>	<u>6.5</u>	<u>7.26</u>	<u>6.19</u>	<u>71.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3VCA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2VCA</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(6) 0x4s 1,2 Oct/EDB 64826</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 5487 Job#: 180041
 Address: 28250 Hesperian Blvd. Date: 2-2-01
 City: Hayward Sampler: Joe

Well ID MW-7 Well Condition: OK
 Well Diameter 2 in Hydrocarbon Thickness: 0.2 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 19.10 ft
 Depth to Water 4.05 ft

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

15.05 x VF 0.17 = 2.56 x 3 (case volume) = Estimated Purge Volume: 8 (gal.)

Purge Equipment: Disposable Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 9:47 Weather Conditions: cloudy
 Sampling Time: 10:15 Am Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:00</u>	<u>3</u>	<u>7.27</u>	<u>10.33</u>	<u>71.2</u>			
<u>10:02</u>	<u>5</u>	<u>7.36</u>	<u>10.44</u>	<u>71.5</u>			
<u>10:04</u>	<u>8</u>	<u>7.29</u>	<u>10.48</u>	<u>71.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3V&A</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: _____



Tosco Marketing Company
3000 Olive Canyon Pl., Ste. 400
San Ramon, California 94583

Facility Number UNOCAL SS #5487
 Facility Address 28250 Hesperian Blvd., HAYWARD CA
 Consultant Project Number 180041.85
 Consultant Name Gettler-Ryan Inc. (G-R Inc.)
 Address 6747 Sierra Court, Suite J, Dublin, CA 94568
 Project Contact (Name) Deanna L. Harding
 (Phone) 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 2-2-01
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Media S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Lead (Yes or No)	Analytes To Be Performed												Remarks																			
								TPH Gas+ STEK 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)	(6) OC's, 1,2-DCA-EDB by PLG																							
TB-LB	01	1 VOA	W	G	-	HCC	✓	✓																															
MW-5	02	3 VOA	/	/	11:24	/	/	✓																															
MW-6	03	5 VOA	/	/	10:50	/	/	✓																															
MW-7	04	3 VOA	/	/	10:15	/	/	✓																															

DO NOT BILL
TB-LB ANALYSIS

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>G-R Inc.</u>	Date/Time <u>2-2-01 12:15 PM</u>	Received By (Signature) <u>[Signature]</u>	Organization _____	Date/Time <u>2/2/01</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 6 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) _____	Organization _____	Date/Time _____	



Sequoia
Analytical

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

February 20 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L102016

Enclosed are the results of analyses for samples received by the laboratory on 02/02/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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#5487
Project Manager: Deanna Harding

Reported:
02/20/01 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L102016-01	Water	02/02/01 00:00	02/02/01 12:40
MW-5	L102016-02	Water	02/02/01 11:24	02/02/01 12:40
MW-6	L102016-03	Water	02/02/01 10:50	02/02/01 12:40
MW-7	L102016-04	Water	02/02/01 10:15	02/02/01 12:40

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

Project: Tosco(1)
Project Number: Unocal SS#5487
Project Manager: Deanna Harding

Reported:
02/20/01 14:29

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 (L102016-01) Water Sampled: 02/02/01 00:00 Received: 02/02/01 12:40									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1020052	02/16/01	02/16/01	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	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.3 %	70-130		"	"	"	"	
MW-5 (L102016-02) Water Sampled: 02/02/01 11:24 Received: 02/02/01 12:40									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1020048	02/15/01	02/15/01	DHS LUFT	
Benzene	6.42	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	223	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		90.6 %	70-130		"	"	"	"	
MW-6 (L102016-03) Water Sampled: 02/02/01 10:50 Received: 02/02/01 12:40									
Purgeable Hydrocarbons as Gasoline	ND	125	ug/l	2.5	1020048	02/16/01	02/16/01	DHS LUFT	
Benzene	4.79	1.25	"	"	"	"	"	"	
Toluene	ND	1.25	"	"	"	"	"	"	
Ethylbenzene	ND	1.25	"	"	"	"	"	"	
Xylenes (total)	ND	1.25	"	"	"	"	"	"	
Methyl tert-butyl ether	1800	100	"	20	"	"	"	"	M-04
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130		"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5487
 Project Manager: Deanna Harding

Reported:
 02/20/01 14:29

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-7 (L102016-04) Water Sampled: 02/02/01 10:15 Received: 02/02/01 12:40									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1020048	02/16/01	02/16/01	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		98.5 %		70-130	"	"	"	"	

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

Project: Tosco(1)
Project Number: Unocal SS#5487
Project Manager: Deanna Harding

Reported:
02/20/01 14:29

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (L102016-03) Water Sampled: 02/02/01 10:50 Received: 02/02/01 12:40									
Ethanol	ND	12500	ug/l	12.5	1020022	02/06/01	02/06/01	EPA 8260B	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1790	25.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	25.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	1250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %		76-114	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %		88-110	"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5487
 Project Manager: Deanna Harding

Reported:
 02/20/01 14:29

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 1020048 - EPA 5030B (P/T)

Blank (1020048-BLK1)

Prepared & Analyzed: 02/15/01

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	10.3		"	10.0		103	70-130			

Blank (1020048-BLK2)

Prepared & Analyzed: 02/16/01

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	10.1		"	10.0		101	70-130			

LCS (1020048-BS1)

Prepared & Analyzed: 02/15/01

Benzene	11.9	0.500	ug/l	10.0		119	70-130			
Toluene	12.0	0.500	"	10.0		120	70-130			
Ethylbenzene	12.1	0.500	"	10.0		121	70-130			
Xylenes (total)	36.3	0.500	"	30.0		121	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.5		"	10.0		105	70-130			

LCS (1020048-BS2)

Prepared & Analyzed: 02/15/01

Purgeable Hydrocarbons as Gasoline	273	50.0	ug/l	250		109	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.6		"	10.0		106	70-130			

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

Project: Tosco(1)
Project Number: Unocal SS#5487
Project Manager: Deanna Harding

Reported:
02/20/01 14:29

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 1020048 - EPA 5030B (P/T)

LCS (1020048-BS3)										
Prepared & Analyzed: 02/16/01										
Benzene	9.94	0.500	ug/l	10.0		99.4	70-130			
Toluene	10.3	0.500	"	10.0		103	70-130			
Ethylbenzene	10.6	0.500	"	10.0		106	70-130			
Xylenes (total)	31.9	0.500	"	30.0		106	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.7		"	10.0		107	70-130			

LCS (1020048-BS4)										
Prepared & Analyzed: 02/16/01										
Purgeable Hydrocarbons as Gasoline	245	50.0	ug/l	250		98.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	11.3		"	10.0		113	70-130			

Matrix Spike (1020048-MS1)										
			Source: L102050-08		Prepared & Analyzed: 02/15/01					
Purgeable Hydrocarbons as Gasoline	235	50.0	ug/l	250	ND	94.0	60-140			
Surrogate: a,a,a-Trifluorotoluene	10.2		"	10.0		102	70-130			

Matrix Spike Dup (1020048-MSD1)										
			Source: L102050-08		Prepared & Analyzed: 02/15/01					
Purgeable Hydrocarbons as Gasoline	219	50.0	ug/l	250	ND	87.6	60-140	7.05	25	
Surrogate: a,a,a-Trifluorotoluene	10.8		"	10.0		108	70-130			

Batch 1020052 - EPA 5030B (P/T)

Blank (1020052-BLK1)										
Prepared & Analyzed: 02/16/01										
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	8.09		"	10.0		80.9	70-130			

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

Project: Tosco(1)
 Project Number: Unocal SS#5487
 Project Manager: Deanna Harding

Reported:
 02/20/01 14:29

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 1020052 - EPA 5030B (P/T)

Blank (1020052-BLK2)

Prepared & Analyzed: 02/17/01

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	8.55		"	10.0		85.5	70-130			

LCS (1020052-BS1)

Prepared & Analyzed: 02/16/01

Benzene	9.60	0.500	ug/l	10.0		96.0	70-130			
Toluene	9.89	0.500	"	10.0		98.9	70-130			
Ethylbenzene	10.1	0.500	"	10.0		101	70-130			
Xylenes (total)	30.7	0.500	"	30.0		102	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.04		"	10.0		90.4	70-130			

LCS (1020052-BS2)

Prepared & Analyzed: 02/16/01

Purgeable Hydrocarbons as Gasoline	256	50.0	ug/l	250		102	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.49		"	10.0		84.9	70-130			

LCS (1020052-BS3)

Prepared & Analyzed: 02/17/01

Benzene	9.48	0.500	ug/l	10.0		94.8	70-130			
Toluene	9.62	0.500	"	10.0		96.2	70-130			
Ethylbenzene	9.95	0.500	"	10.0		99.5	70-130			
Xylenes (total)	30.0	0.500	"	30.0		100	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.05		"	10.0		90.5	70-130			

LCS (1020052-BS4)

Prepared & Analyzed: 02/17/01

Purgeable Hydrocarbons as Gasoline	259	50.0	ug/l	250		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.79		"	10.0		87.9	70-130			

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

Project: Tosco(1)
 Project Number: Unocal SS#5487
 Project Manager: Deanna Harding

Reported:
 02/20/01 14:29

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 1020052 - EPA 5030B (P/T)										
Matrix Spike (1020052-MS1)		Source: L102095-01			Prepared & Analyzed: 02/17/01					
Purgeable Hydrocarbons as Gasoline	262	50.0	ug/l	250	ND	105	60-140			
Surrogate: a,a,a-Trifluorotoluene	8.97		"	10.0		89.7	70-130			
Matrix Spike Dup (1020052-MSD1)		Source: L102095-01			Prepared & Analyzed: 02/17/01					
Purgeable Hydrocarbons as Gasoline	229	50.0	ug/l	250	ND	91.6	60-140	13.4	25	
Surrogate: a,a,a-Trifluorotoluene	7.84		"	10.0		78.4	70-130			

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

Project: Tosco(1)
 Project Number: Unocal SS#5487
 Project Manager: Deanna Harding

Reported:
 02/20/01 14:29

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1020022 - EPA 5030B [P/T]

Blank (1020022-BLK1)			Prepared & Analyzed: 02/06/01							
Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.6		"	50.0		103	76-114			
<i>Surrogate: Toluene-d8</i>	50.0		"	50.0		100	88-110			

Blank (1020022-BLK2)			Prepared & Analyzed: 02/06/01							
Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.8		"	50.0		102	76-114			
<i>Surrogate: Toluene-d8</i>	49.9		"	50.0		99.8	88-110			

Blank (1020022-BLK3)			Prepared & Analyzed: 02/07/01							
Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	55.8		"	50.0		112	76-114			
<i>Surrogate: Toluene-d8</i>	49.9		"	50.0		99.8	88-110			

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

Project: Tosco(1)
Project Number: Unocal SS#5487
Project Manager: Deanna Harding

Reported:
02/20/01 14:29

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1020022 - EPA 5030B [P/T]

LCS (1020022-BS1) Prepared & Analyzed: 02/06/01

Methyl tert-butyl ether	54.4	2.00	ug/l	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	56.1		"	50.0		112	76-114			
Surrogate: Toluene-d8	50.1		"	50.0		100	88-110			

LCS (1020022-BS2) Prepared & Analyzed: 02/06/01

Methyl tert-butyl ether	49.1	2.00	ug/l	50.0		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	51.3		"	50.0		103	76-114			
Surrogate: Toluene-d8	49.8		"	50.0		99.6	88-110			

LCS (1020022-BS3) Prepared & Analyzed: 02/07/01

Methyl tert-butyl ether	52.3	2.00	ug/l	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	53.3		"	50.0		107	76-114			
Surrogate: Toluene-d8	50.3		"	50.0		101	88-110			

Matrix Spike (1020022-MS1) Source: L102011-10 Prepared & Analyzed: 02/06/01

Methyl tert-butyl ether	55.2	2.00	ug/l	50.0	ND	110	60-140			
Surrogate: 1,2-Dichloroethane-d4	54.1		"	50.0		108	76-114			
Surrogate: Toluene-d8	50.7		"	50.0		101	88-110			

Matrix Spike Dup (1020022-MSD1) Source: L102011-10 Prepared & Analyzed: 02/06/01

Methyl tert-butyl ether	48.5	2.00	ug/l	50.0	ND	97.0	60-140	12.9	25	
Surrogate: 1,2-Dichloroethane-d4	50.6		"	50.0		101	76-114			
Surrogate: Toluene-d8	50.4		"	50.0		101	88-110			

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

Project: Tosco(1)
Project Number: Unocal SS#5487
Project Manager: Deanna Harding

Reported:
02/20/01 14:29

Notes and Definitions

M-04 MTBE was reported from second analysis.
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