GETTLER-RYAN INC.

March 8, 2000
G-R Job #180041

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

RE: Annual 2000 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

Dear Mr. De Witt:

This report documents the annual groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On February 4, 2000, field personnel monitored seven wells (MW-1 through MW-7) and sampled three wells (MW-5, MW-6 and MW-7) 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. 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

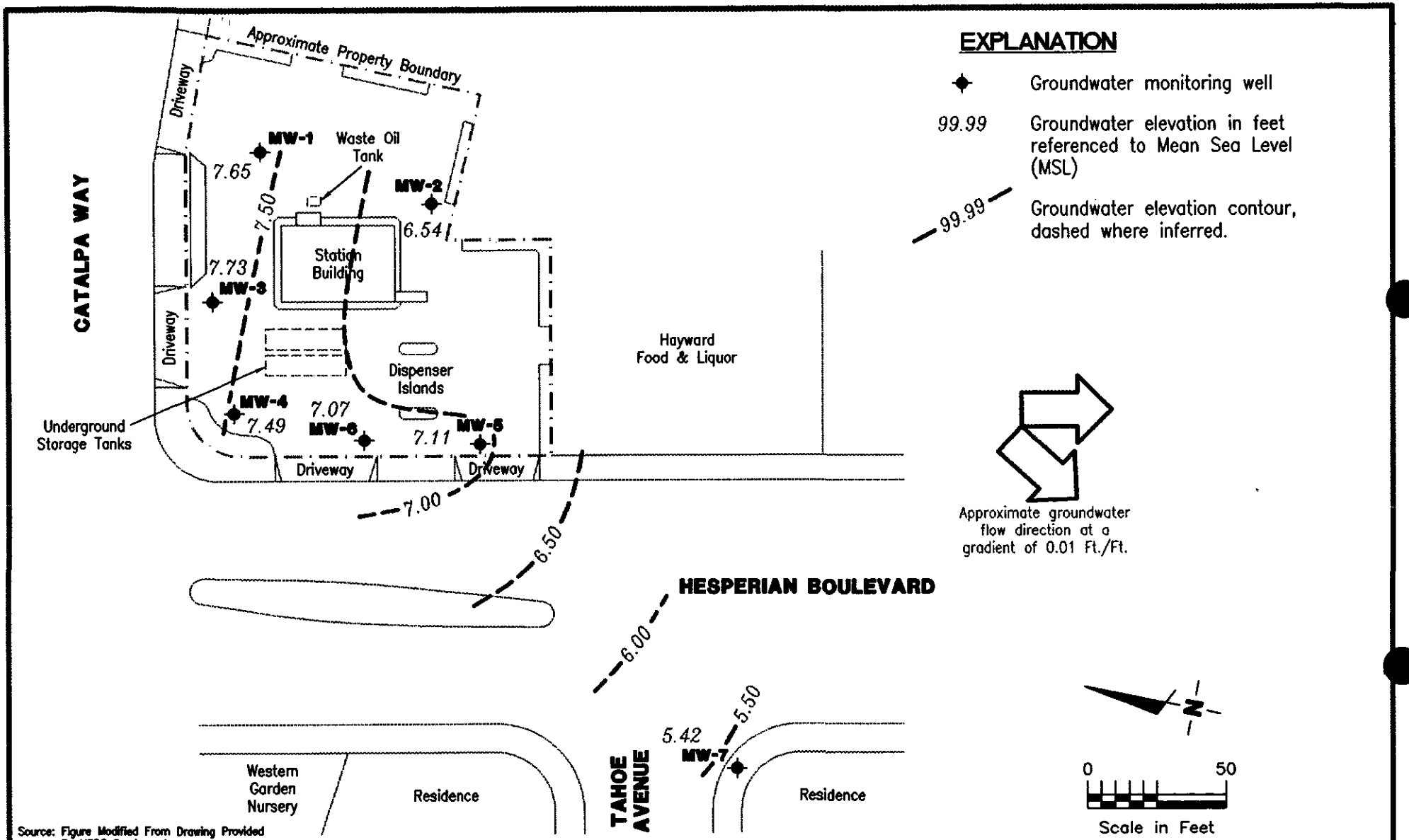
Stephen J. Carter
Senior Geologist, R.G. No. 5577

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

25548 7 SS X BP
1 X TRANSMITTAL
3 4 5

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

5487.qml



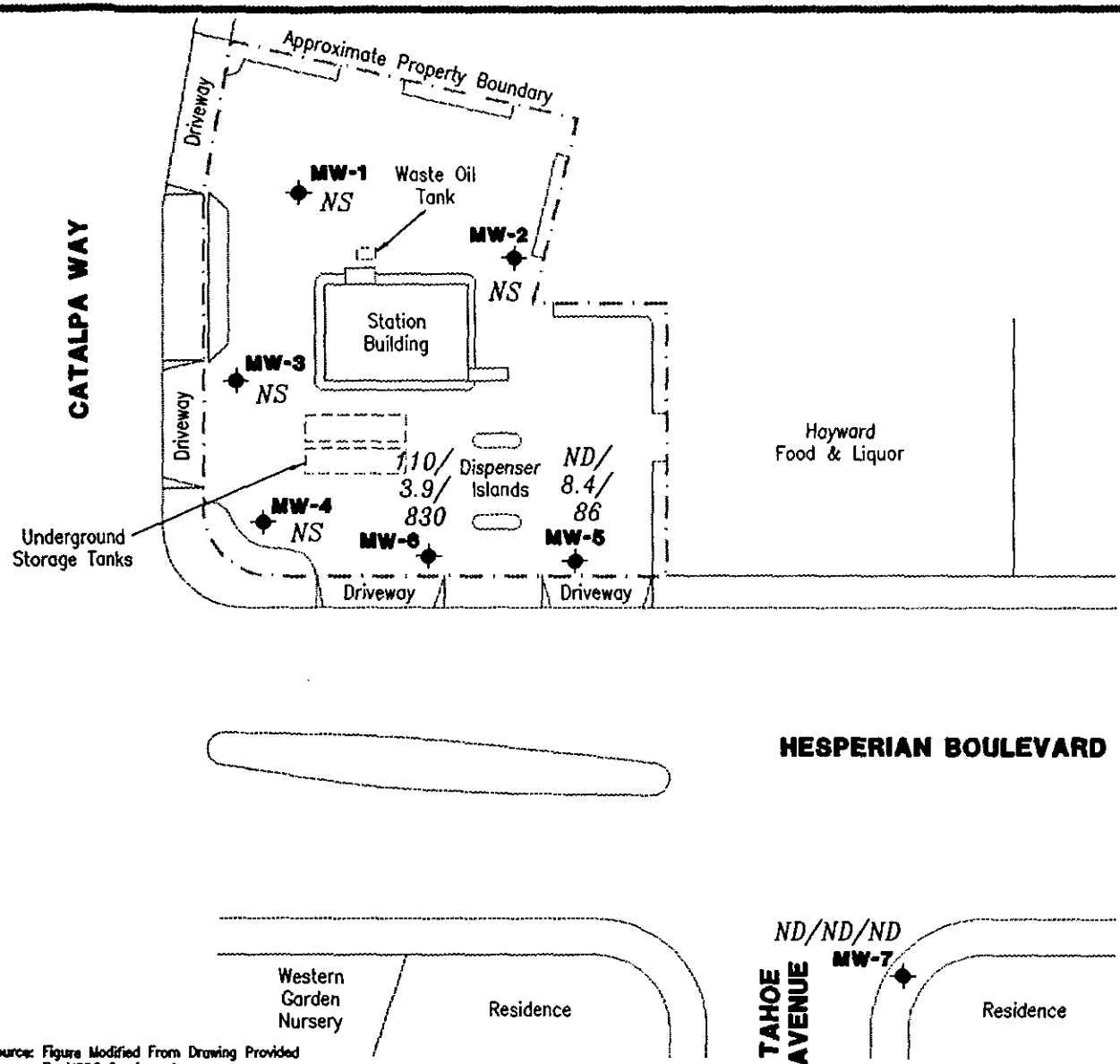
Source: Figure Modified From Drawing Provided By MPDS Services, Inc.

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

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 5487
28250 Hesperian Boulevard
Hayward, California

FIGURE 1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180041		February 4, 2000	



EXPLANATION

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

N

0 50

Scale in Feet

Gettler - Ryan Inc.

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Dublin, CA 94568

CONCENTRATION MAP
Tosco (Unocal) Service Station No. 5487
28250 Hesperian Boulevard
Hayward, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180041		February 4, 2000	

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-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**	--	--	--	--	--	--
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	--

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	05/16/90[1]	--	--	ND	ND	ND	ND	ND	--
(cont)	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**	--	--	--	--	--	--
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	--

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	08/02/91	--	--	ND	ND	ND	ND	ND	--
(cont)	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**	--	--	--	--	--	--
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	--

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	11/07/91	--	--	ND	ND	ND	ND	ND	--
(cont)	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**	**--**	**--**	**--**	**--**	**--**	**--**
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	--

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	11/05/92	--	--	120	16	ND	3.5	3.0	--
(cont)	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
	02/07/97	4.26	6.53	85	16	0.56	1.7	3.8	250
	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**
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

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-6	02/09/98	2.51	8.67	ND[5]	1.0	ND[5]	ND[5]	ND[5]	450
(cont)	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**
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**
MWD[4]	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**

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 elevation
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
msl = Relative to mean sea level
TPH(D) = Total Petroleum Hydrocarbons as Diesel
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
TOG = Total Oil and Grease

* 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.

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 #5487 Job#: 180041

Address: 28250 Hesperian Blvd. Date: 2-4-00

City: Hayward Sampler: Joe

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

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

Total Depth 27.16 ft.

Depth to Water 4.08 ft.

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

_____ X VF 0.17 = _____ 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: none

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

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

LABORATORY INFORMATION

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

COMMENTS: MW-1 only

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility #5487 Job#: 180041

Address: 28250 Hesperian Blvd. Date: 2-4-00

City: Hayward Sampler: Joe

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

Well Diameter: 2 in.

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

Total Depth: 23.75 ft.

Depth to Water: 6.04 ft.

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

_____ X VF 0.17 = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

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

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

Starting Time: _____ Weather Conditions: cloudy

Sampling Time: _____ Water Color: Clear Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: none

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

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

LABORATORY INFORMATION

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

COMMENTS: N. only

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 5487 Job#: 180041

Address: 28250 Hesperian Blvd. Date: 2-4-00

City: Hayward Sampler: Joe

Well ID MW-3 Well Condition: O.K.

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

Total Depth 24.35 ft.

Depth to Water 4.26 ft.

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

_____ X VF 0.17 = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

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

Starting Time: _____ Weather Conditions: cloudy

Sampling Time: _____ Water Color: clear Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: none

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

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

LABORATORY INFORMATION

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

COMMENTS: Moody

3/97-Guidel.frm

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 5487 Job#: 180041

Address: 28250 Hesperian Blvd. Date: 2-4-00

City: Hayward Sampler: Joe

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

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

Total Depth 24.55 ft.

Depth to Water 4.09 ft.

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

_____ X VF 0.17 = _____ 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: none

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

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

LABORATORY INFORMATION

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

COMMENTS: Muddy

9/97-fieldst.frm

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility #5487 | Job#: 180041
Address: 28250 Hesperian Blvd. | Date: 2-4-00
City: Hayward | Sampler: Joe

Well ID: MW-5 | Well Condition: O.K.

Well Diameter: 2 in.
Total Depth: 24.10 ft.
Depth to Water: 3.68 ft.

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

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

20.42 x VF 0.17 = 3.47 x 3 (case volume) = Estimated Purge Volume: 10.5 (gal.)

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

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

Starting Time: 10:25 | Weather Conditions: cloudy
Sampling Time: 10:40 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 (mS) μmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:30	3.5	7.15	6.35	70.0			
10:32	7	7.22	5.86	69.8			
10:34	10.5	7.27	5.84	70.2			

LABORATORY INFORMATION

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

COMMENTS: ____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 5487 Job#: 180041

Address: 28250 Hesperian Blvd. Date: 2-4-00

City: Hayward Sampler: Joe

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

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

Total Depth: 17.78 ft.

Depth to Water: 4.11 ft.

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

13.67 X VF 0.17 = 2.32 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: 10:00 Weather Conditions: cloudy

Sampling Time: 10:20 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)	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:05	2.5	7.41	4.89	71.2			
10:06	5	7.46	5.11	71.0			
10:08	7	7.42	5.12	70.7			

LABORATORY INFORMATION

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

COMMENTS: _____

3/97-Bailer.frm

ELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility #5487 Job#: 180041

Address: 28250 Hesperian Blvd. Date: 2-4-00

City: Hayward Sampler: Joe

Well ID MW-7 Well Condition: O.K.

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

Total Depth 19.10 ft.

Depth to Water 3.97 ft.

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

15.13 X VF 0.17 = 2.57 X 3 (case volume) = Estimated Purge Volume: 8 (gal.)

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

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

Starting Time: 9:30 Weather Conditions: cloudy

Sampling Time: 9:50 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)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:40	3	7.82	8.38	69.9			
9:42	5	7.70	9.11	70.0			
9:43	8	7.65	9.12	70.4			

LABORATORY INFORMATION

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

COMMENTS: _____

Chain of Custody Record

TOSCO

Tosco Marketing Company
2000 Crow 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: W002138
Samples Collected by (Name): JOE AJEMIAN
Collection Date: 2-4-00
Signature:

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 (TCLP or AA)					DO NOT BILL TB-LB ANALYSIS Remarks
TB-LB	01A	1 VOA	W	G	—	HCl	Y	✓												
MW-5	02A-C	3 VOA	"	"	9:50	"	"	✓												
MW-6	03	"	"	"	10:20	"	"	✓												
MW-7	04	"	"	"	10:40	"	"	✓												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	2-4-00			2-4-00 12:20
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		2-4-00 15:20			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					2/4/00 15:20

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

17 February, 2000

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Unocal

Enclosed are the results of analyses for samples received by the laboratory on 04-Feb-00 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alan B. Kemp
Laboratory Director

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 # 5487	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	17-Feb-00 08:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W002138-01	Water	04-Feb-00 00:00	04-Feb-00 15:20
MW-5	W002138-02	Water	04-Feb-00 09:50	04-Feb-00 15:20
MW-6	W002138-03	Water	04-Feb-00 10:20	04-Feb-00 15:20
MW-7	W002138-04	Water	04-Feb-00 10:40	04-Feb-00 15:20

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5487	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	17-Feb-00 08:06

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 (W002138-01) Water Sampled: 04-Feb-00 00:00 Received: 04-Feb-00 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	0B09002	09-Feb-00	09-Feb-00	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
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		*110 %*	*70-130*		"	"	"	"	
MW-5 (W002138-02) Water Sampled: 04-Feb-00 09:50 Received: 04-Feb-00 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	0B09002	09-Feb-00	09-Feb-00	EPA	
Benzene	**8.4**	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**86**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*70-130*		"	"	"	"	
MW-6 (W002138-03) Water Sampled: 04-Feb-00 10:20 Received: 04-Feb-00 15:20									**P-01**
Purgeable Hydrocarbons	**110**	100	ug/l	2	0B14003	14-Feb-00	14-Feb-00	EPA	
Benzene	**3.9**	1.0	"	"	"	"	"	8015M/8020	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**830**	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.7 %*	*70-130*		"	"	"	"	

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5487	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	17-Feb-00 08:06

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-7 (W002138-04) Water	**Sampled: 04-Feb-00 10:40**	**Received: 04-Feb-00 15:20**							
Purgeable Hydrocarbons	ND	50	ug/l	1	0B09003	09-Feb-00	09-Feb-00	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
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		*96.7 %*		*70-130*		"	"	"	

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 5487	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	17-Feb-00 08:06

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 0B09002: Prepared 09-Feb-00 Using EPA 5030B [P/T]										
Blank (0B09002-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	*35.0*		"	*30.0*		*117*	*70-130*			
LCS (0B09002-BS1)										
Benzene	21.8	0.50	ug/l	20.0		109	70-130			
Toluene	21.6	0.50	"	20.0		108	70-130			
Ethylbenzene	22.3	0.50	"	20.0		111	70-130			
Xylenes (total)	67.2	0.50	"	60.0		112	70-130			
Surrogate: a,a,a-Trifluorotoluene	*29.4*		"	*30.0*		*98.0*	*70-130*			
LCS Dup (0B09002-BSD1)										
Benzene	23.2	0.50	ug/l	20.0		116	70-130	6.22	20	
Toluene	23.0	0.50	"	20.0		115	70-130	6.28	20	
Ethylbenzene	23.8	0.50	"	20.0		119	70-130	6.51	20	
Xylenes (total)	70.8	0.50	"	60.0		118	70-130	5.22	20	
Surrogate: a,a,a-Trifluorotoluene	*32.1*		"	*30.0*		*107*	*70-130*			
Batch 0B09003: Prepared 09-Feb-00 Using EPA 5030B [P/T]										
Blank (0B09003-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	*29.7*		"	*30.0*		*99.0*	*70-130*			

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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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 # 5487	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	17-Feb-00 08:06

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 0B09003: Prepared 09-Feb-00 Using EPA 5030B [P/T]										
LCS (0B09003-BS1)										
Benzene	22.4	0.50	ug/l	20.0		112	70-130			
Toluene	22.7	0.50	"	20.0		114	70-130			
Ethylbenzene	22.9	0.50	"	20.0		114	70-130			
Xylenes (total)	66.0	0.50	"	60.0		110	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.9*		"	*30.0*		*96.3*	*70-130*			
Matrix Spike (0B09003-MS1)					**Source: W002138-04**					
Benzene	20.5	0.50	ug/l	20.0	ND	103	70-130			
Toluene	20.7	0.50	"	20.0	ND	104	70-130			
Ethylbenzene	20.7	0.50	"	20.0	ND	104	70-130			
Xylenes (total)	59.9	0.50	"	60.0	ND	99.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.5*		"	*30.0*		*91.7*	*70-130*			
Matrix Spike Dup (0B09003-MSD1)					**Source: W002138-04**					
Benzene	22.4	0.50	ug/l	20.0	ND	112	70-130	8.86	20	
Toluene	22.6	0.50	"	20.0	ND	113	70-130	8.78	20	
Ethylbenzene	22.3	0.50	"	20.0	ND	111	70-130	7.44	20	
Xylenes (total)	63.2	0.50	"	60.0	ND	105	70-130	5.36	20	
Surrogate: a,a,a-Trifluorotoluene	*29.8*		"	*30.0*		*99.3*	*70-130*			
Batch 0B14003: Prepared 14-Feb-00 Using EPA 5030B [P/T]										
Blank (0B14003-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	*30.3*		"	*30.0*		*101*	*70-130*			

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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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 # 5487	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	17-Feb-00 08:06

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 0B14003: Prepared 14-Feb-00 Using EPA 5030B [P/T]										
LCS (0B14003-BS1)										
Benzene	21.7	0.50	ug/l	20.0		109	70-130			
Toluene	21.9	0.50	"	20.0		109	70-130			
Ethylbenzene	21.9	0.50	"	20.0		109	70-130			
Xylenes (total)	63.2	0.50	"	60.0		105	70-130			
Surrogate: a,a,a-Trifluorotoluene	*30.1*		"	*30.0*		*100*	*70-130*			
LCS Dup (0B14003-BSD1)										
Benzene	21.4	0.50	ug/l	20.0		107	70-130	1.39	20	
Toluene	21.7	0.50	"	20.0		109	70-130	0.917	20	
Ethylbenzene	21.7	0.50	"	20.0		109	70-130	0.917	20	
Xylenes (total)	62.9	0.50	"	60.0		105	70-130	0.476	20	
Surrogate: a,a,a-Trifluorotoluene	*28.7*		"	*30.0*		*95.7*	*70-130*			

Alan B. Kemp, Laboratory Director

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 # 5487	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	17-Feb-00 08:06

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

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