



GETTLER-RYAN Inc.

ENVIRONMENTAL
PROTECTION

98 SEP 24 PM 3:10

TRANSMITTAL

TO: Mr. Scott Seery
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502

DATE: September 23, 1998
G-R #: 180075

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

RE: Tosco (Unocal) SS #7376
4191 First Street
Pleasanton, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	September 8, 1998	Groundwater Monitoring and Sampling Report Third Quarter 1998 - Event of June 26, 1998

COMMENTS:

At the request of Tosco Marketing Company, we are providing you a copy of the above referenced report. The site is monitored and sampled on a quarterly basis. If you have questions please contact the Tosco Project Manager, Ms. Tina R. Berry at (925) 277-2321.

Enclosure

cc: Mr. Dave Vossler, Gettler-Ryan Inc., Novato, CA

agency/7376trb.qmt



GETTLER - RYAN INC.

September 8, 1998
G-R Job #180075

Ms. Tina R. Berry
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: Third Quarter 1998 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

Dear Ms. Berry:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On June 26, 1998, field personnel monitored and sampled seven wells (MW-1, MW-2B, MW-3, MW-4, MW-5, MW-6, and MW-8) at the above referenced site. In addition on August 18, 1998, field personnel developed, monitored and sampled one well (MW-7).

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one well (MW-5). Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data is summarized in Table 2. A Potentiometric Map is included as Figure 1.

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

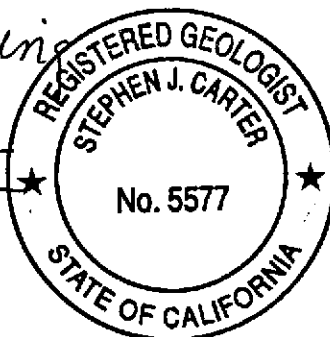
Sincerely,

Deanna L. Harding

Deanna L. Harding
Project Coordinator

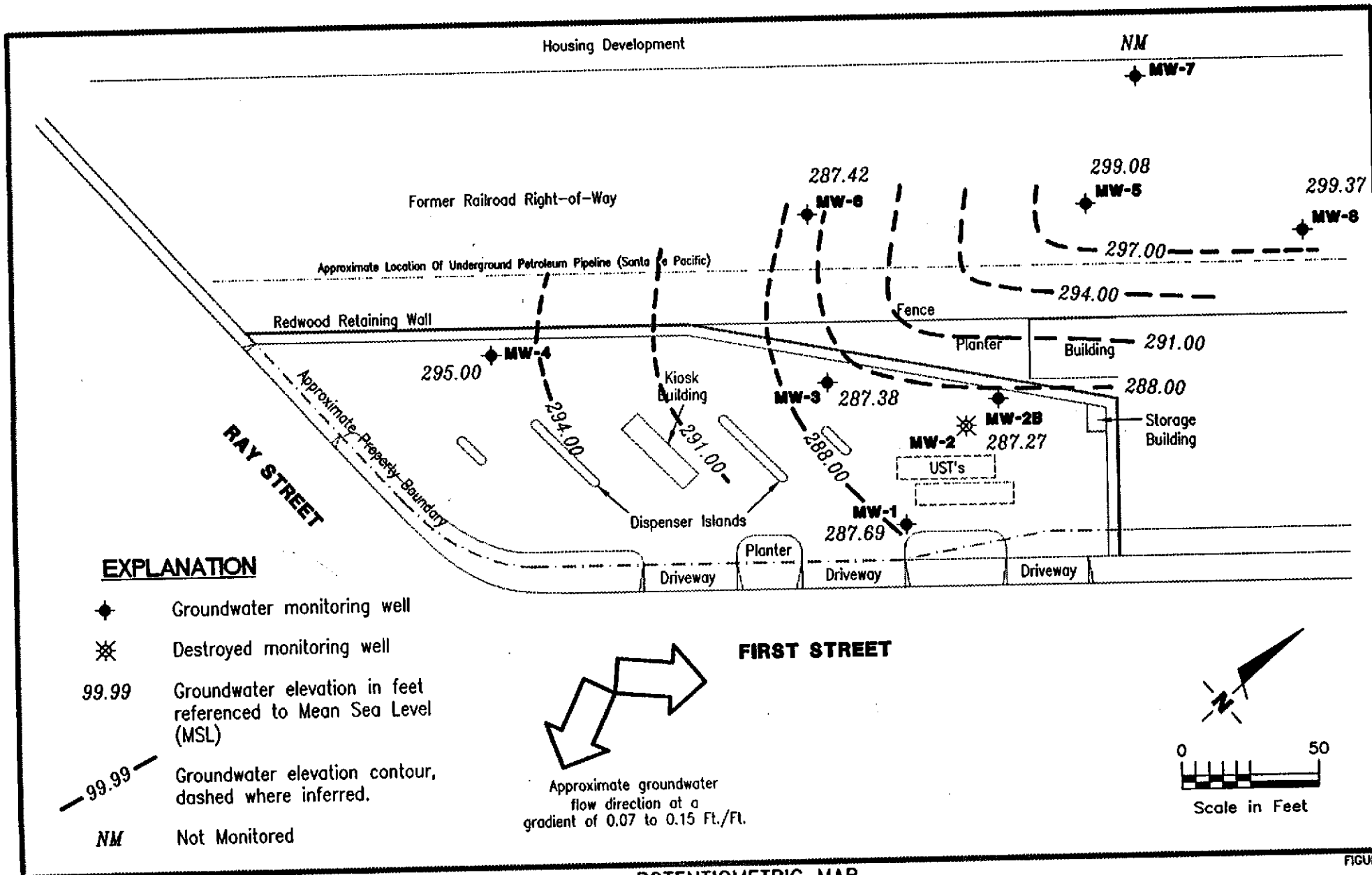
Stephen J. Carter

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



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

7376.qml



Gettler - Ryan Inc.

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Dublin, CA 94568

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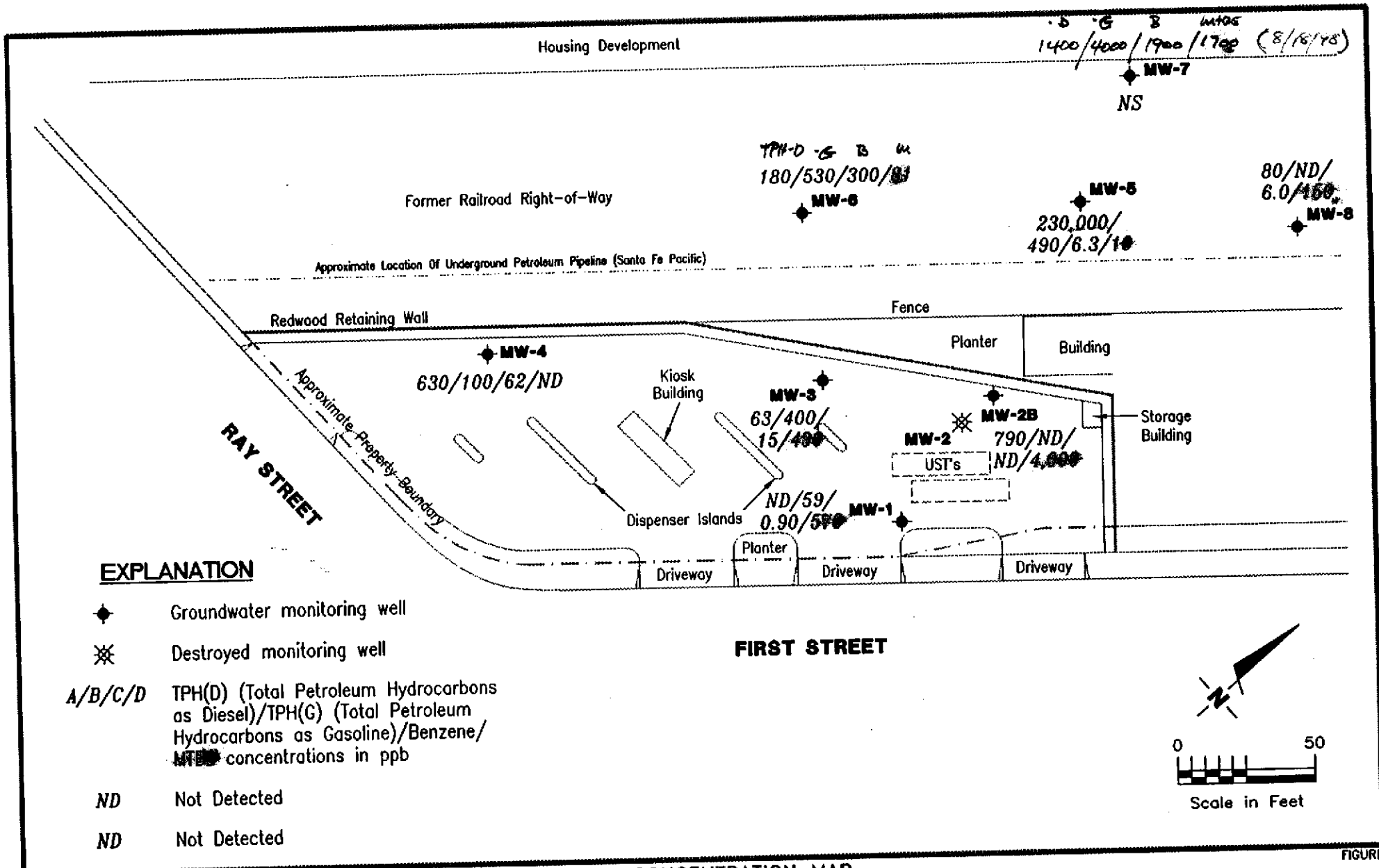
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

DATE
June 26, 1998

REVISED DATE

FIGURE

1



Gettler - Ryan Inc.

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

JOB NUMBER
 180075

REVIEWED BY

DATE
 June 26, 1998

REVISED DATE

FIGURE
2

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	←-----ppb----->						
					TPH(D)	TPH(G)	B	T	E	X	MTBE
MW-1	12/08/87 ¹	--	--	--	2,100 ²	50 ³	58	8	ND	10	--
366.99	12/07/94	81.04	285.95	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	80.09	286.90	0.00	120	ND	ND	1.1	ND	1.3	--
	06/01/95	77.53	289.46	0.00	54 ⁵	130	1.0	2.9	0.79	4.5	--
	09/06/95	79.00	287.99	0.00	690	ND	ND	ND	ND	ND	-- ⁶
	12/12/95	77.55	289.44	0.00	190 ⁵	ND	ND	ND	ND	ND	--
	03/01/96	75.09	291.90	0.00	56	ND	ND	ND	ND	ND	370
	06/15/96	75.07	291.92	0.00	ND	ND	ND	ND	ND	ND	270
	09/18/96	79.90	287.09	0.00	130 ⁵	ND	ND	ND	ND	ND	590
	12/21/96	78.96	288.03	0.00	ND	ND	ND	ND	ND	ND	150
	03/07/97	71.49	295.50	0.00	ND	ND	ND	ND	ND	ND	220
	06/27/97	80.05	286.94	0.00	ND	ND	ND	ND	ND	ND	17
	09/29/97	80.04	286.95	0.00	ND	ND	ND	ND	ND	ND	24
	12/15/97	80.07	286.92	0.00	ND	ND	ND	ND	ND	ND	25
	03/16/98	71.00	295.99	0.00	ND	ND	ND	0.52	ND	0.71	190
366.98	06/26/98	79.29	287.69	0.00	ND	59 ¹³	0.90	ND	ND	ND	570
	08/18/98	79.93	287.05	0.00	--	--	--	--	--	--	--
MW-2	12/08/87				620 ²	1,800 ³	910	800	260	1,200	--
	12/07/94	DAMAGED	--	--	--	--	--	--	--	--	--
	02/07/95	DESTROYED	--	--	--	--	--	--	--	--	--
MW-2B											
365.05	03/01/95	80.80	284.25	0.00	320	ND	ND	ND	ND	ND	--
	06/01/95	75.69	289.36	0.00	280	350	19	5.8	ND	7.7	--
	09/06/95	77.54	287.51	0.00	ND	ND	90	ND	ND	ND	-- ⁶
	12/12/95	75.96	289.09	0.00	850 ⁴	1,200	630	ND	15	57	-- ⁷
	03/01/96	73.27	291.78	0.00	870 ⁴	1,000	620	ND	ND	5.3	4,300
	06/15/96	73.21	291.84	0.00	420	910	350	ND	ND	ND	3,700
	09/18/96	81.08	283.97	0.00	600	1,200	95	ND	ND	ND	5,200

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	←-----ppb-----→							MTBE
					TPH(D)	TPH(G)	B	T	E	X		
MW-2B	12/21/96	77.35	287.70	0.00	470	330 ⁸	57	ND	ND	ND	2,900	
(cont)	03/07/97	69.67	295.38	Sheen	870 ⁴	190	28	0.64	ND	1.5	4,300	
	06/27/97	82.40	282.65	0.00	680 ⁴	98	3.4	1.0	0.53	ND	3,100	
	09/29/97	82.72	282.33	0.00	430	ND	ND	ND	ND	ND	3,000	
	12/15/97	82.57	282.48	0.00	490	54 ⁹	ND	ND	ND	ND	4,100	
	03/16/98	69.13	295.92	Sheen	4,000 ¹⁰	ND ¹¹	17	ND ¹¹	ND ¹¹	ND ¹¹	4,400	
365.05	06/26/98	77.78	287.27	0.00	790 ¹⁴	ND	ND	ND	ND	ND	4,000	
	08/18/98	83.99	281.06	0.00	--	--	--	--	--	--	--	
MW-3	12/08/87	--	--	--	2,300 ²	24,000 ³	2,600	1,300	160	660	--	
367.01	12/07/94	85.54	281.47	0.00	--	ND	ND	ND	ND	ND	--	
	03/01/95	83.20	283.81	0.00	140 ⁴	ND	ND	1.1	ND	1.1	--	
	06/01/95	77.60	289.41	0.00	140 ⁵	62	7.8	0.90	ND	1.6	--	
	09/06/95	79.28	287.73	0.00	880 ⁵	4,100	380	490	130	710	-- ⁶	
	12/12/95	77.73	289.28	0.00	3,100 ⁴	19,000	600	380	2,100	5,300	-- ⁷	
	03/01/96	75.18	291.83	0.00	1,500 ⁵	3,400	950	3.2	1,900	290	59	
	06/15/96	75.13	291.88	0.00	400 ⁴	780	190	8.8	3.8	4.0	630	
	09/18/96	82.84	284.17	0.00	170	2,800	340	12	11	110	2,500	
	12/21/96	79.29	287.72	0.00	64 ⁴	51	1.3	ND	ND	0.53	20	
	03/07/97	71.58	295.43	0.00	570 ⁴	1,400	53	14	29	68	220	
	06/27/97	83.27	283.74	0.00	ND	ND	ND	ND	ND	ND	27	
	09/29/97	83.33	283.68	0.00	ND	ND	ND	ND	ND	ND	11	
	12/15/97	83.35	283.66	0.00	ND	ND	ND	ND	ND	ND	19	
	03/16/98	71.07	295.94	0.00	670 ¹⁰	130 ¹²	6.5	1.9	1.5	1.6	210	
367.03	06/26/98	79.65	287.38	0.00	63 ¹³	400 ¹⁵	15	ND ¹¹	ND ¹¹	1.9	490	
	08/18/98	83.29	283.74	0.00	--	--	--	--	--	--	--	
MW-4												
369.03	09/18/96	73.67	295.36	0.00	200	160	14	ND	ND	1.6	ND	
	12/21/96	77.69	291.34	0.00	ND	ND	ND	ND	ND	ND	ND	
	03/07/97	68.04	300.99	0.00	ND	ND	1.9	0.99	ND	1.5	ND	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	←-----ppb----->							MTBE
					TPH(D)	TPH(G)	B	T	E	X		
MW-4 (cont)	06/27/97	79.06	289.97	0.00	ND	ND	ND	ND	ND	ND	ND	ND
	09/29/97	85.83	283.20	0.00	ND	ND	ND	ND	ND	ND	ND	ND
	12/15/97	87.26	281.77	0.00	ND	ND	ND	ND	ND	ND	ND	ND
	03/16/98	75.09	293.94	0.00	ND	ND	ND	0.69	ND	0.82	ND	ND
	06/26/98	73.81	295.00	0.00	630 ¹⁶	100 ¹³	62	ND	ND	ND	ND	ND
368.81	08/18/98	78.75	290.06	0.00	--	--	--	--	--	--	--	--
MW-5 363.23	09/18/96	64.20	299.03	0.00	4,700 ⁵	36,000	6,700	410	730	6,500	4,100	
	12/21/96	61.77	301.46	Sheen	4,700 ⁴	25,000	3,200	300	780	3,600	2,600	
	03/07/97	56.30	306.93	Sheen	2,100 ⁴	14,000	1,300	120	410	1,200	1,700	
	06/27/97	68.88	295.03**	0.90	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	
	09/29/97	69.47	294.02**	0.35	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	
	12/15/97	64.92	298.53**	0.30	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	
	03/16/98	49.63	313.67**	0.09	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	
	06/26/98	64.13	299.08	Sheen	230,000 ¹⁷	490 ¹⁸	6.3	2.8	4.2	5.1	10	
	08/18/98	70.40	292.83**	0.005	--	--	--	--	--	--	--	--
	MW-6 363.12	09/18/96	79.07	284.05	0.00	ND	160	5.4	ND	ND	ND	ND
12/21/96		75.40	287.72	0.00	ND	300 ⁸	96	1.3	ND	1.7	21	
03/07/97		67.61	295.51	0.00	190 ⁴	1,800 ⁸	920	18	ND	31	290	
06/27/97		80.45	282.67	0.00	73 ⁵	ND	0.73	ND	ND	38	38	
09/29/97		86.02	277.10	0.00	ND	62 ⁹	ND	ND	ND	ND	43	
12/15/97		84.03	279.09	0.00	ND	78 ⁹	ND	ND	ND	ND	39	
03/16/98		67.15	295.97	0.00	100 ¹⁰	210 ¹²	36	2.5	ND	3.0	64	
06/26/98		75.71	287.42	0.00	180 ¹⁴	530	300	8.3	2.8	8.7	81	
08/18/98		74.86	288.27	0.00	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	←-----ppb----->							
					TPH(D)	TPH(G)	B	T	E	X	MTBE	
MW-7												
355.97	06/26/98	--	--	--	--	--	--	--	--	--	--	--
	08/18/98	68.75	287.22	0.00	1,400 ²⁰	4,000 ²⁰	1,900	48	160	ND ¹¹	1,700	
MW-8												
362.37	06/26/98	63.00	299.37	0.00	80 ¹⁹	ND	6.0	ND	ND	ND	150	
	08/18/98	73.38	288.99	0.00	--	--	--	--	--	--	--	
Trip Blank												
TB-LB	03/16/98	--	--	--	--	ND	ND	ND	ND	ND	ND	
	06/26/98	--	--	--	--	ND	ND	ND	ND	ND	ND	
	08/18/98	--	--	--	--	ND	ND	ND	ND	ND	ND	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 16, 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	
msl = Relative to mean sea level	MTBE = Methyl tertiary butyl ether	
TPH(G) = Total Petroleum Hydrocarbons as Gasoline		

* TOC elevations have been surveyed relative to mean sea level (msl) per City of Pleasanton Benchmark V1, a brass disk on the north curb of Ray Street, approximately 200 feet northwest of the centerline of First Street (Elevation = 367.17 feet msl).

** Groundwater elevation corrected for the presence of free product; correction factor = $[(\text{TOC}-\text{DTW})+(\text{Product Thickness} \times 0.75)]$.

- ¹ 1,2-Dichloroethene (1,2-DCE) was detected at a concentration of 18 ppb.
- ² Reported as Total Extractable Hydrocarbons (TEH).
- ³ Reported as Total Petroleum Hydrocarbons (TPH).
- ⁴ Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- ⁵ Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- ⁶ Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- ⁷ 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.
- ⁸ Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- ⁹ Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- ¹⁰ Laboratory report indicates diesel and unidentified hydrocarbons > C16.
- ¹¹ Detection limit raised. Refer to analytical results.
- ¹² Laboratory report indicates gasoline and unidentified hydrocarbons < C7.
- ¹³ Laboratory report indicates discrete peaks.
- ¹⁴ Laboratory report indicates diesel and unidentified hydrocarbons > C20.
- ¹⁵ Laboratory report indicates discrete peaks and unidentified hydrocarbons < C7.
- ¹⁶ Laboratory report indicates diesel and unidentified hydrocarbons < C15.
- ¹⁷ Laboratory report indicates diesel and unidentified hydrocarbons < C15 and > C20.
- ¹⁸ Laboratory report indicates gasoline and unidentified hydrocarbons > C8.
- ¹⁹ Laboratory report indicates unidentified hydrocarbons > C16.
- ²⁰ Laboratory report indicates unidentified hydrocarbons C9-C24.

Table 2
Product Thickness/Removal Data
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

Well ID	Date	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) gallons
MW-5	03/07/97	56.30	Sheen	--
	06/27/97	68.88	0.90	--
	09/29/97	69.47	0.35	--
	12/15/97	64.92	0.30	--
	03/16/98	49.63	0.09	0.25
	06/26/98	63.00	Sheen	--
	08/18/98	70.40	0.005	--

EXPLANATIONS:

Product thickness/removal data prior to March 16, 1998, were compiled from reports prepared by MPDS Services, Inc.

DTW = Depth to water

(ft.) = Feet

-- = Not Measured/Not Available

Amount Bailed history will be updated in future 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 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, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured 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 UNCIAC SS# 7376 (TOSCO) Job#: 180075
 Address: 4191 FIRST STREET Date: 6-26-98
 City: PLEASANTON, CA Sampler: STEVE BAIAN

Well ID MW-1 Well Condition: OK
 Well Diameter 2" in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): (Gallons)
 Total Depth 86.43 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 79.29 ft. Factor (VF) 6" = 1.50 12" = 5.80

7.14 X VF 1.21 = _____ X 3 (case volume) = Estimated Purge Volume: 264 (gal.)

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

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

Starting Time: 14:09 Weather Conditions: SUNNY
 Sampling Time: 14:35 Water Color: CLER Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>14:13</u>	<u>1.5</u>	<u>6.68</u>	<u>452</u>	<u>74.7</u>	_____	_____	_____
<u>14:16</u>	<u>3</u>	<u>6.77</u>	<u>477</u>	<u>73.2</u>	_____	_____	_____
<u>14:19</u>	<u>4</u>	<u>6.79</u>	<u>481</u>	<u>73.0</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility UNCIAL SS# 7376 (TOSCO) Job#: 180075
 Address: 4191 FIRST STREET Date: 6-26-98
 City: PLEASANTON, CA Sampler: STEVE BAIAN

Well ID MW-2B Well Condition: O.K
 Well Diameter 2" in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): _____ (Gallons)
 Total Depth 85.26 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 77.78 ft. Factor (VF) 6" = 1.50 12" = 5.80

7.48 x VF 0.17 = 1.27 x 3 (case volume) = Estimated Purge Volume: 3.81 (gal.)

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

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

Starting Time: 14:48 Weather Conditions: SUNNY
 Sampling Time: 15:10 Water Color: CLEAR Odor: -
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>14:51</u>	<u>1.5</u>	<u>6.61</u>	<u>555</u>	<u>72.6</u>	_____	_____	_____
<u>14:55</u>	<u>3</u>	<u>6.63</u>	<u>552</u>	<u>72.0</u>	_____	_____	_____
<u>14:58</u>	<u>4</u>	<u>6.66</u>	<u>552</u>	<u>71.7</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2B</u>	<u>3-VOA'S</u>	<u>Y</u>	<u>Hcl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>MW-2B</u>	<u>1-AMBER</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>TPH-DIESEL</u>
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility UNOCAL SS# 7376 (Tosco) Job#: 180075
 Address: 4191 FIRST STREET Date: 6-26-98
 City: PLEASANTON, CA Sampler: STEVE BAIAN

Well ID MW-3 Well Condition: O.K
 Well Diameter 2" in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (Gallons)
 Total Depth 94.11 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 79.65 ft. Factor (VF) 6" = 1.50 12" = 5.80

14.46 x VF 0.17 = 2.46 x 3 (case volume) = Estimated Purge Volume: 7.37 (gal.)

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

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

Starting Time: 15:24 Weather Conditions: SUNNY
 Sampling Time: 15:40 Water Color: CLEAR Odor: -
 Purging Flow Rate: 1.5 gpm. Sediment Description: _____
 Did well de-water? No If yes: Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>15:26</u>	<u>2.5</u>	<u>6.72</u>	<u>517</u>	<u>75.5</u>	_____	_____	_____
<u>15:27</u>	<u>5</u>	<u>6.69</u>	<u>494</u>	<u>75.1</u>	_____	_____	_____
<u>15:29</u>	<u>7.5</u>	<u>6.69</u>	<u>497</u>	<u>74.6</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility UNOCAL SS# 7376 (Tosco) Job#: 180075
 Address: 4191 FIRST STREET Date: 6-26-98
 City: PLEASANTON, CA Sampler: STEVE BAIAN

Well ID MW-4 Well Condition: O.K.
 Well Diameter 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (Gallons)
 Total Depth 93.07 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 73.81 ft. Factor (VF) 6" = 1.50 12" = 5.80

19.26 x VF 0.17 = 3.27 x 3 (case volume) = Estimated Purge Volume: 9.82 (gal.)

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

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

Starting Time: 13:30 Weather Conditions: SUNNY
 Sampling Time: 13:50 Water Color: CLEAR Odor: _____
 Purging Flow Rate: 1.5 gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:32</u>	<u>3.5</u>	<u>6.96</u>	<u>436</u>	<u>78.4</u>	_____	_____	_____
<u>13:34</u>	<u>7</u>	<u>7.11</u>	<u>440</u>	<u>76.7</u>	_____	_____	_____
<u>13:36</u>	<u>10</u>	<u>7.25</u>	<u>430</u>	<u>77.0</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3-VOA'S</u>	<u>Y</u>	<u>Hcl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>MW-4</u>	<u>1-AMBER</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>TPH-DIESEL</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility UNOCAL SS# 7376 (TORCO) Job#: 180075
 Address: 4191 FIRST STREET Date: 6-26-98
 City: PLEACANTON, CA Sampler: STEVE BALIAN

Well ID MW-5 Well Condition: O.K
 Well Diameter 2" in. Hydrocarbon Thickness: ✓ (feet) Amount Bailed (Gallons)
 Total Depth 72.51 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 64.13 ft. Factor (VF) 6" = 1.50 12" = 5.80

8.38 x VF 0.17 = 1.42 x 3 (case volume) = Estimated Purge Volume: 4.27 (gal.)

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

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

Starting Time: 16:55 Weather Conditions: SUNNY
 Sampling Time: 17:20 Water Color: CLEAR Odor: YES
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>16:59</u>	<u>1.5</u>	<u>6.59</u>	<u>481</u>	<u>76.2</u>	_____	_____	_____
<u>17:03</u>	<u>3</u>	<u>6.59</u>	<u>489</u>	<u>73.6</u>	_____	_____	_____
<u>17:06</u>	<u>4.5</u>	<u>6.60</u>	<u>491</u>	<u>73.3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3-VOA'</u>	<u>Y</u>	<u>HL</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>MW-5</u>	<u>1-LAMBER</u>	<u>Y</u>	<u>-</u>	<u>#</u>	<u>TPH-D</u>
_____	_____	_____	_____	_____	_____

COMMENTS: SHEEN

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility: UNOCAL SS# 7376 (Tosco) Job#: 180075
 Address: 4191 FIRST STREET Date: 6-26-98
 City: PLEASANTON, CA Sampler: STEVE BAIAN

Well ID: MW-6 Well Condition: OK
 Well Diameter: 2" in. Hydrocarbon Thickness: ∅ (feet) Amount Bailed (Gallons)
 Total Depth: 88.00 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 75.71 ft. 6" = 1.50 12" = 5.80

$(12.29 \times VF_{0.17} = 2.09) \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 6.27 \text{ (gal.)}$

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

Starting Time: 15:49 Weather Conditions: SUNNY
 Sampling Time: 16:10 Water Color: CLEAR Odor: _____
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? NO 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)
15:53	2.5	6.64	517	79.1			
15:55	4.5	6.63	512	75.1			
15:58	6.5	6.64	517	74.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	3-VOA'S	Y	Hcl	SEQUOIA	TPH(GI)/btex/mtbe
MW-6	1-AMBER	"	"	"	TPH-DIESEL

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility UNCCAL SS# 7376 (Tosco) Job#: 180075
 Address: 4191 FIRST STREET Date: 6-26-98
 City: PLEASANTON, CA Sampler: STEVE BALIAN

Well ID MW-8 Well Condition: O.K
 Well Diameter 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): (Gallons)
 Total Depth 86.40 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 63.00 ft. Factor (VF) 6" = 1.50 12" = 5.80

23.4 X VF 0.17 = 3.98 X 3 (case volume) = Estimated Purge Volume: 11.93 (gal.)

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

Starting Time: 16:19 Weather Conditions: SUNNY
 Sampling Time: 16:40 Water Color: CLEAR Odor: -
 Purging Flow Rate: 1.5 gpm. Sediment Description: _____
 Did well de-water? No If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>16:22</u>	<u>4</u>	<u>6.45</u>	<u>514</u>	<u>74.5</u>			
<u>16:25</u>	<u>8</u>	<u>6.48</u>	<u>523</u>	<u>72.8</u>			
<u>16:28</u>	<u>12</u>	<u>6.48</u>	<u>548</u>	<u>72.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3-VOA'S</u>	<u>Y</u>	<u>Hcl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>MW-8</u>	<u>1-AMBER</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>TPH-DIESEL</u>

COMMENTS: _____

**WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET**

Client/Facility: Unocal/MOSC # 7376
 Address: 4191 First Street
 City: Brea CA
Pleasanton

Job#: 140107.02
 Date: 8-18-98
 Sampler: F. Cline

Well ID: NW-7 Well Condition: okay
 Well Diameter: 2" in. Hydrocarbon Thickness: 0 Ft. Amount Bailed: 0 gal.
 Total Depth: 77 (75) ft. ^{3 1/2" dia} Volume Factor (VF):
 Depth to Water: 68.75 ft.

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

Purge Equipment: 8.25 x VF 0.17 = 1.4 (case volume) = Estimated Purge Volume: 14 gal.
6.25 / 0.17 = 1.06 x 10 = 10.6 gal.
 Equipment: Disposable Bailer Sampling Equipment: Disposable Bailer
 Stack, Suction, Grundfos, Other: _____ Pressure Bailer, Grab Sample, Other: _____

Starting Time: 9:30 Weather Conditions: clear warm
 Sampling Time: 10:20 Water Color: Brown Odor: None
 Purging Flow Rate: 0.6 gpm. Sediment Description: Light silt
 Did well de-water? No If yes; Time: _____ Volume: _____ gal.

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:30	0	7.28	1460	18.6	Brown	Muddy	Initial
9:50	6	7.05	1250	18.9	↓	↓	Surface @ Bail
10:05	7	7.03	1250	19.1	Brown	Muddy	Pump @ 0.6 gpm
10:08	9	6.86	1205	18.8	↓	cloudy	
10:11	11	6.79	1097	19.0	↓	cloudy	
10:14	13	6.79	1040	19.3	↓	cloudy	
10:17	15	6.78	1046	20.1	↓	clearing	
10:20	17	6.77	1045	20.1	↓	clearing	Sampled.

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3x4Gm/UCB	Y	HCL	SBG	CO ₂ BTX NATX
MW-7	2x1LW	Y	None	SBG	TPH. Diesel

COMMENTS: Cement around casing stopped below ground surface.



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

Facility Number TOSCO (UNOCAL) SS#7376
 Facility Address 4191 First Street, Pleasanton, CA
 Consultant Project Number 180075.85
 Consultant Name Gettler-Ryan Inc. (G-R Inc.)
 Address 6747 Sierra Court, Suite J, Dublin, CA 94568
 Project Contact (Name) Deanna L. Harding
 (Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name) Ms. Tina R. Berry
 (Phone) (510) 277-2321
 Laboratory Name Sequoia Analytical
 Laboratory Release Number _____
 Samples Collected by (Name) STEVE BALIAN
 Collection Date 6-26-98
 Signature STEVE BALIAN 9807016

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)	Analytes To Be Performed											Remarks				
								TPH G + BTEX w/MTBE (8016)	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)								
TS-LB		1	W	G		Hcl	Y	X														8070071	
MW-1		4	"	"	14:35	"	Y	X	X														8070072
MW-2B		4	"	"	15:10	"	Y	X	X														8070073
MW-3		4	"	"	15:40	"	Y	X	X														8070074
MW-4		4	"	"	13:50	"	Y	X	X														8070075
MW-5		4	"	"	17:20	"	Y	X	X														8070076
MW-6		4	"	"	16:10	"	Y	X	X														8070077
MW-8		4	"	"	16:40	"	Y	X	X														8070078

DO NOT BILL
TB-LB ANALYSIS

Relinquished By (Signature) <u>STEVE BALIAN</u>	Organization G-R Inc.	Date/Time 6-26-98 18:30	Received By (Signature) <u>D. Harding</u>	Organization G-R	Date/Time 6/26/98
Relinquished By (Signature) <u>D. Harding</u>	Organization G-R	Date/Time 6/29/98	Received By (Signature) <u>[Signature]</u>	Organization Sequoia	Date/Time 6/29/98 2:50
Relinquished By (Signature) <u>[Signature]</u>	Organization Sequoia	Date/Time 6/29/98	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization Sequoia	Date/Time 6-30-98

Turn Around Time (Circle Choice)

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco (Unocal) SS#7376, Pleasanton
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 807-0072

Sampled: Jun 26, 1998
Received: Jun 30, 1998
Reported: Jul 15, 1998

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 807-0072 MW-1	Sample I.D. 807-0073 MW-2B	Sample I.D. 807-0074 MW-3	Sample I.D. 807-0075 MW-4	Sample I.D. 807-0076 MW-5	Sample I.D. 807-0077 MW-6
Extractable Hydrocarbons	50	N.D.	790	63	630	230,000	180
Chromatogram Pattern:		--	Diesel & Unidentified Hydrocarbons >C20	Discrete Peaks	Diesel & Unidentified Hydrocarbons <C15	Diesel & Unidentified Hydrocarbons <C15 & >C20	Diesel & Unidentified Hydrocarbons >C20

Quality Control Data

Report Limit Multiplication Factor:	1.1	1.1	1.2	1.1	100	1.1
Date Extracted:	7/1/98	7/1/98	7/1/98	7/1/98	7/1/98	7/1/98
Date Analyzed:	7/7/98	7/7/98	7/7/98	7/7/98	7/7/98	7/7/98
Instrument Identification:	GCHP-3A	GCHP-3A	GCHP-3A	GCHP-3B	GCHP-3B	GCHP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
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FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco (Unocal) SS#7376, Pleasanton
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 807-0078

Sampled: Jun 26, 1998
Received: Jun 30, 1998
Reported: Jul 15, 1998

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 807-0078 MW-8
Extractable Hydrocarbons	50	80

Chromatogram Pattern:

Unidentified Hydrocarbons
>C16

Quality Control Data

Report Limit Multiplication Factor:	1.1
Date Extracted:	7/1/98
Date Analyzed:	7/7/98
Instrument Identification:	GCHP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco (Unocal) SS#7376, Pleasanton
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 807-0071

Sampled: Jun 26, 1998
Received: Jun 30, 1998
Reported: Jul 15, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 807-0071 TB-LB	Sample I.D. 807-0072 MW-1	Sample I.D. 807-0073 MW-2B	Sample I.D. 807-0074 MW-3	Sample I.D. 807-0075 MW-4	Sample I.D. 807-0076 MW-5
Purgeable Hydrocarbons	50	N.D.	59	N.D.	400	100	490
Benzene	0.50	N.D.	0.90	N.D.	15	62	6.3
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	2.8
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	4.2
Total Xylenes	0.50	N.D.	N.D.	N.D.	1.9	N.D.	5.1
MTBE	2.5	N.D.	570	4,000	490	N.D.	10
Chromatogram Pattern:		--	Discrete Peaks	--	Discrete Peaks & Unidentified Hydrocarbons < C7	Discrete Peaks	Gasoline & Unidentified Hydrocarbons > C8

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	2.0	1.0	1.0
Date Analyzed:	7/10/98	7/10/98	7/10/98	7/11/98	7/10/98	7/10/98
Instrument Identification:	HP-5	HP-5	HP-5	HP-4	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	78	77	76	123	84	82

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
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FAX (650) 364-9233
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FAX (916) 921-0100
FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco (Unocal) SS#7376, Pleasanton
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 807-0077

Sampled: Jun 26, 1998
Received: Jun 30, 1998
Reported: Jul 15, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 807-0077 MW-6	Sample I.D. 807-0078 MW-8
Purgeable Hydrocarbons	50	530	N.D.
Benzene	0.50	300	6.0
Toluene	0.50	8.3	N.D.
Ethyl Benzene	0.50	2.8	N.D.
Total Xylenes	0.50	8.7	N.D.
MTBE	2.5	81	150

Chromatogram Pattern: Gasoline

Quality Control Data

Report Limit Multiplication Factor:	4.0	1.0
Date Analyzed:	7/11/98	7/10/98
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	81	76

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager

8070071.GET <2>





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
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(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Tosco (Unocal) SS#7376, Pleasanton
Matrix: Liquid

QC Sample Group: 8070071-078

Reported: Jul 15, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	L. Diaz

MS/MSD Batch#:	8062743	8062743	8062743	8062743	BLK070198
Date Prepared:	7/11/98	7/11/98	7/11/98	7/11/98	7/1/98
Date Analyzed:	7/11/98	7/11/98	7/11/98	7/11/98	7/1/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L
Matrix Spike % Recovery:	105	105	105	108	88
Matrix Spike Duplicate % Recovery:	105	100	105	107	80
Relative % Difference:	0.0	4.9	0.0	1.6	9.5

LCS Batch#:	4LCS071198	4LCS071198	4LCS071198	4LCS071198	LCS070198
Date Prepared:	7/11/98	7/11/98	7/11/98	7/11/98	7/1/98
Date Analyzed:	7/11/98	7/11/98	7/11/98	7/11/98	7/1/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3B
LCS % Recovery:	95	100	105	107	74

% Recovery Control Limits:	70-130	70-130	70-130	70-130	60-140
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Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271

Julianne Feigley
Julianne Feigley
Project Manager

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Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
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Client Project ID: Tosco (Unocal) SS#7376, Pleasanton
Matrix: Liquid

QC Sample Group: 8070071-078

Reported: Jul 15, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes
Batch#:	8062520	8062520	8062520	8062520
Date Prepared:	7/10/98	7/10/98	7/10/98	7/10/98
Date Analyzed:	7/10/98	7/10/98	7/10/98	7/10/98
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	100	95	110	102
Matrix Spike Duplicate % Recovery:	90	100	100	103
Relative % Difference:	11	5.1	9.5	1.6

LCS Batch#:	5LCS071098	5LCS071098	5LCS071098	5LCS071098
Date Prepared:	7/10/98	7/10/98	7/10/98	7/10/98
Date Analyzed:	7/10/98	7/10/98	7/10/98	7/10/98
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	90	100	105	105

% Recovery Control Limits:	70-130	70-130	70-130	70-130

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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Client Project ID: Tosco (Unocal) SS#7376, Pleasanton
Matrix: Liquid

QC Sample Group: 8070071-078

Reported: Jul 15, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater

MS/MSD Batch#:	8070042	8070042	8070042	8070042
Date Prepared:	7/11/98	7/11/98	7/11/98	7/11/98
Date Analyzed:	7/11/98	7/11/98	7/11/98	7/11/98
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	90	95	95	97
Matrix Spike Duplicate % Recovery:	90	95	95	98
Relative % Difference:	0.0	0.0	0.0	1.7

LCS Batch#:	5LCS071198	5LCS071198	5LCS071198	5LCS071198
Date Prepared:	7/11/98	7/11/98	7/11/98	7/11/98
Date Analyzed:	7/11/98	7/11/98	7/11/98	7/11/98
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	100	100	100	102

% Recovery Control Limits:	70-130	70-130	70-130	70-130
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Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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UNOCAL 76

680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
 819 S. Sutter Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
 424 N. Wiger Lane • Walnut Creek, CA 94598 • (510) 938-9600

18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
 East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Consultant Company: Cottler Ryan Inc Project Name: 14010702
 Address: 6747 Sierra Ct. Suite J UNOCAL Project Manager:
 City: Dublin State: CA Zip Code: 94568 AFE #:
 Telephone: 925 551-7555 FAX #: 551-7888 Site #, City, State: 7376 4191 First Street Pleasanton CA
 Report To: Re. Clyde Galimire Sampler: F. Cline QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours
 CODE: Misc. Detect. Eval. Remed. Demol. Closure

Analyses Requested: 9008 B62
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments	
1. MW-7	8-18-98	W	5	VCA Area	1	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">THX Gas B742</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">THX Diesel</div> </div>											
2. Trip	- / - R	W	2	VCA	2												
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Relinquished By: <u>[Signature]</u>	Date: <u>8-19-98</u>	Time: <u>08:00</u>	Received By: <u>Deen Weber</u>	Date: <u>8-19-98</u>	Time: <u>08:00</u>
Relinquished By: <u>Deen Weber</u>	Date: <u>8-19-98</u>	Time: <u>10:04</u>	Received By: <u>[Signature]</u>	Date: <u>8/19/98</u>	Time: <u>10:04</u>
Relinquished By: <u>[Signature]</u>	Date: <u>8/19/98</u>	Time: _____	Received By Lab: <u>-</u>	Date: <u>8-19-98</u>	Time: <u>1233</u>

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment 6/26 Page 2 of 1

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
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Redwood City, CA 94063
Walnut Creek, CA 94598
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Gottler Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568

Attention: Deanna Harding

Client Proj ID: Unocal 7376, 140107.C2
Sample Descript: Trip
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9808B62-02

Sampled: 08/18/98
Received: 08/19/98
Analyzed: 08/28/98
Reported: 09/03/98

Instrument ID: HP1

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	115

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #2000

Tod Granicher
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (916) 921-0100
FAX (707) 792-0342

Gettler Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568

Client Proj. ID: Unocal 7376, 140107.C2
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9808B62-01

Sampled: 08/18/98
Received: 08/19/98
Extracted: 08/27/98
Analyzed: 09/02/98
Reported: 09/03/98

Attention: Deanna Harding

QC Batch Number: GC0827900HBPEXY
Instrument ID: GCHP19B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	100	1400 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50	% Recovery 111

Analytes reported as N.D. were not present above the stated limit of detection

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek CA 94598
Sacramento, CA 95834
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FAX (916) 921-0100
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Gettler Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568
Attention: Deanna Harding

Client Proj. ID: Unocal 7376, 140107.C2
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9808B62-01

Sampled: 08/18/98
Received: 08/19/98
Analyzed: 08/28/98
Reported: 09/03/98

Instrument ID: HP1

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	4000
Methyl t-Butyl Ether	50	1700
Benzene	10	1900
Toluene	10	48
Ethyl Benzene	10	160
Xylenes (Total)	10	N.D.
Chromatogram Pattern:		Gasoline
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #2000

Iod Granicher
Project Manager