



# GETTLER - RYAN INC.

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8:25 am, May 18, 2009

Alameda County  
Environmental Health

February 8, 2000  
G-R Job #180022

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

RE: First Quarter 2000 Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #7176  
7850 Amador Valley Boulevard  
Dublin, California

Dear Mr. De Witt:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On January 3, 2000, field personnel monitored and sampled five wells (U-1, U-2, U-3, MW-4, and MW-5) at the above referenced site.

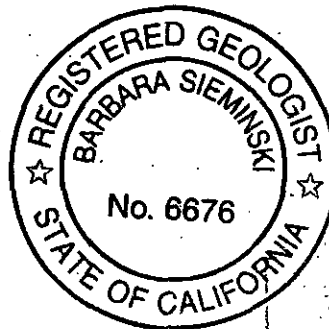
Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 3. 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

*Barbara Sieminski*  
Barbara Sieminski  
Project Geologist, R.G. No. 6676



257176	SS	X	BP
QM	X	TRANSMITTAL	
3	4	5	6

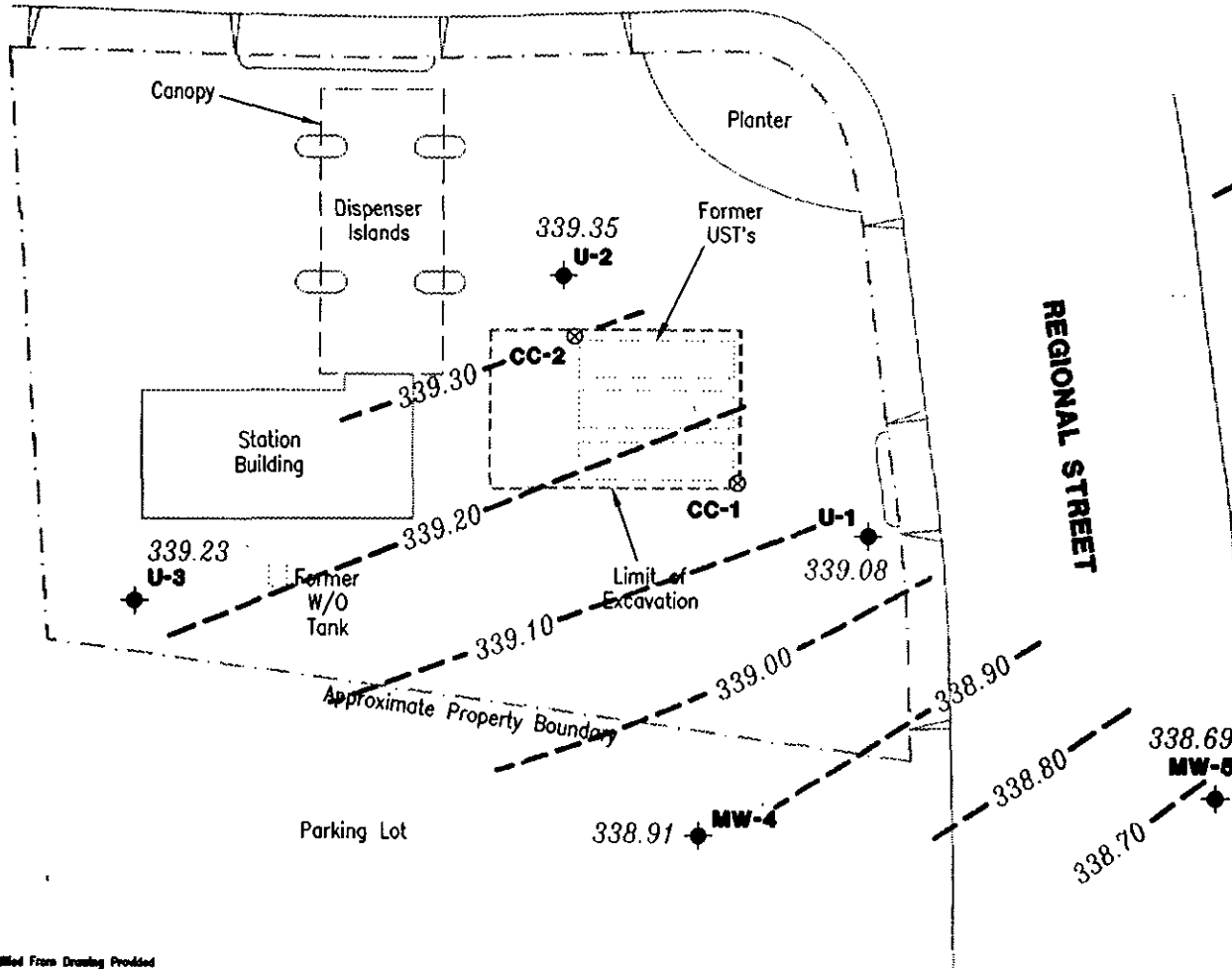
- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- Table 3: Dissolved Oxygen Concentrations
- Attachments: Standard Operating Procedure - Groundwater Sampling  
Field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

7176.qml

**AMADOR VALLEY BOULEVARD**

**EXPLANATION**

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



Approximate groundwater flow direction at a gradient of 0.004 Ft./Ft.



Scale in Feet

Source: Figures 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. 7176  
7850 Amador Valley Boulevard  
Dublin, California

FIGURE

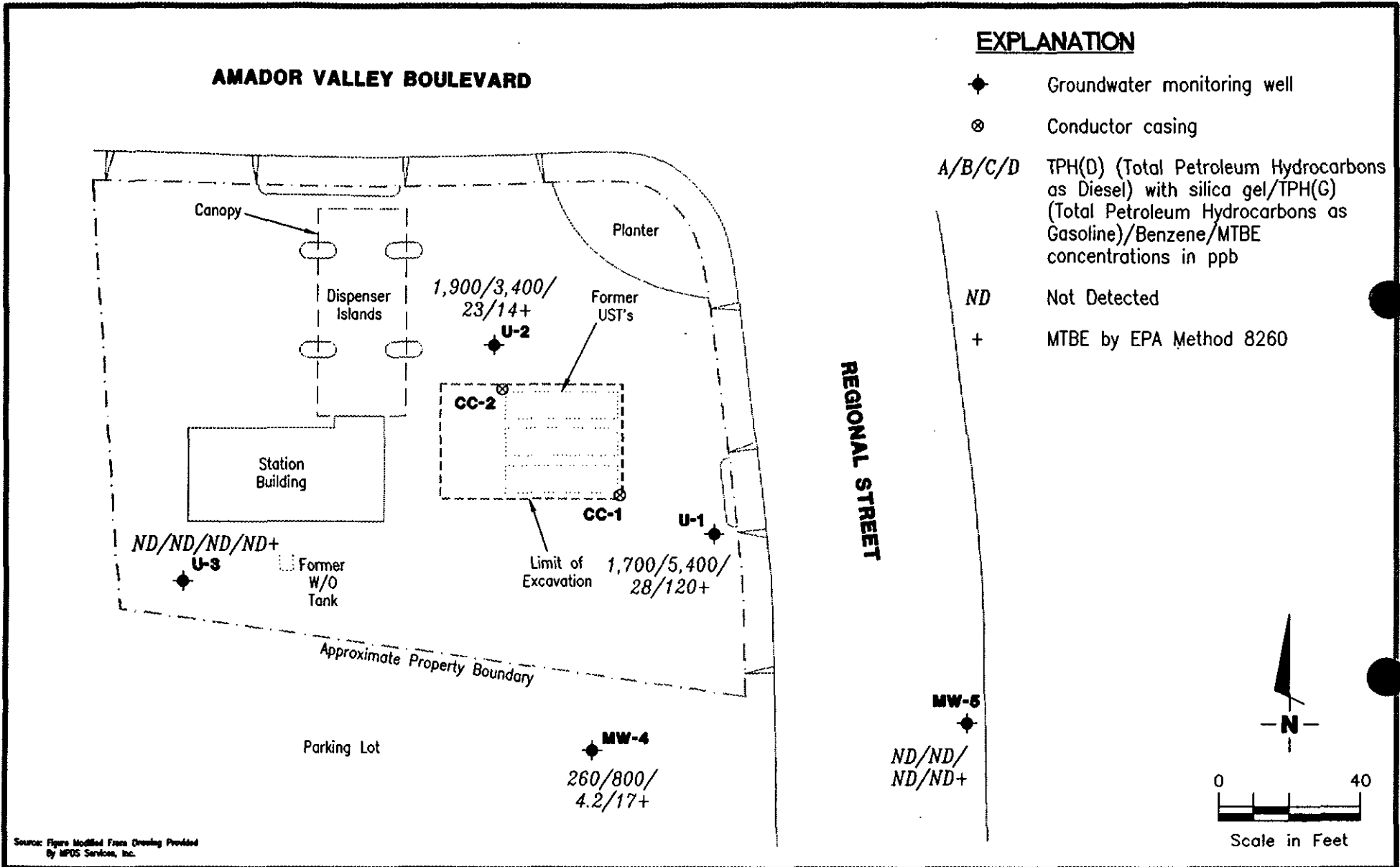
**1**

JOB NUMBER  
180022

REVIEWED BY

DATE  
January 3, 2000

REVISED DATE



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**CONCENTRATION MAP**  
 Tosco (Unocal) Service Station No. 7176  
 7850 Amador Valley Boulevard  
 Dublin, California

FIGURE

**2**

JOB NUMBER  
 180022

REVIEWED BY

DATE  
 January 3, 2000

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #7176  
7850 Amador Valley Boulevard  
Dublin, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(D)♦ (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
<b>U-1</b>											
355.62	07/08/95	12.59	343.03	9,400 <sup>3</sup>	39,000	1,500	19	1,600	5,200	--	
	10/12/95	15.38	340.24	4,200 <sup>5</sup>	33,000	1,400	ND	1,400	3,100	-- <sup>7</sup>	
	01/11/96 <sup>1</sup>	16.33	339.29	8,200 <sup>5</sup>	8,300	690	11	680	1,500	-- <sup>8</sup>	
	04/11/96 <sup>2</sup>	12.20	343.42	630 <sup>5</sup>	3,200	110	ND	180	290	790	
	07/10/96	13.84	341.78	2,200 <sup>5</sup>	2,600	81	4.4	210	230	510	
	10/30/96	15.85	339.77	560 <sup>5</sup>	2,200	67	19	140	150	360	
	01/27/97	12.20	343.42	2,300 <sup>5</sup>	4,600	98	ND	360	290	150	
	04/08/97	13.46	342.16	1,300 <sup>5</sup>	2,800	50	ND	220	140	ND	
	07/17/97	15.30	340.32	460 <sup>6</sup>	2,300	30	4.5	140	94	190	
	10/17/97	16.33	339.29	510 <sup>6</sup>	1,500	31	6.7	110	88	220	
01/19/98	14.34	341.28	<sup>10</sup> 1,900/1,300 <sup>10</sup>	3,100	46	3.4	310	200	170		
355.59	NP 04/23/98	11.16	344.43	--/1,700 <sup>11</sup>	3,400	72	3.8	470	350	280	
	NP 07/08/98	12.67	342.92	2,000 <sup>14</sup>	4,500	51	ND <sup>12</sup>	590	430	190	
	10/05/98	14.57	341.02	--/2,500 <sup>10</sup>	7,500 <sup>16</sup>	53	ND <sup>12</sup>	680	350	190/180 <sup>17</sup>	
	01/04/99	15.35	340.24	<sup>11</sup> 2,700/2,500 <sup>11</sup>	10,000 <sup>19</sup>	ND <sup>12</sup>	ND <sup>12</sup>	1,200	540	ND <sup>12</sup>	
	04/05/99	13.64	341.95	<sup>10</sup> 920/570 <sup>10</sup>	4,900	34	ND <sup>12</sup>	350	150	150/55 <sup>17</sup>	
	07/01/99	14.39	341.20	<sup>10</sup> 2,700/3,600 <sup>26</sup>	10,000	45	ND <sup>12</sup>	850	420	260/110 <sup>17</sup>	
	09/30/99	15.32	340.27	<sup>10</sup> 2,360/1,680 <sup>10</sup>	7,150 <sup>27</sup>	ND <sup>12</sup>	ND <sup>12</sup>	415	84.4	<sup>12</sup> ND/ <sup>195</sup> <sup>17</sup>	
	01/03/00	16.51	339.08	<sup>26</sup> 2,000/1,700 <sup>26</sup>	5,400 <sup>27</sup>	28	8.4	180	33	160/120 <sup>17</sup>	
	<b>U-2</b>										
	356.59	07/08/95	12.68	343.91	4,700 <sup>3</sup>	17,000	430	ND	2,200	590	--
10/12/95		16.01	340.58	3,600 <sup>5</sup>	24,000	310	60	1,900	190	-- <sup>7</sup>	
01/11/96 <sup>1</sup>		17.06	339.53	8,600 <sup>5</sup>	10,000	210	55	1,400	240	-- <sup>8</sup>	
04/11/96 <sup>2</sup>		12.75	343.84	1,900 <sup>5</sup>	7,700	130	27	1,100	110	340	
07/10/96		14.42	342.17	2,300 <sup>5</sup>	5,600	59	15	610	42	250	
10/30/96		16.82	339.77	1,800 <sup>5</sup>	7,700	67	35	1,000	54	260	
01/27/97		12.91	343.68	660 <sup>5</sup>	1,600	14	ND	130	7.0	100	
04/08/97		14.07	342.52	2,000 <sup>5</sup>	4,300	35	ND	400	16	ND	
07/17/97		15.96	340.63	1,300 <sup>6</sup>	6,200	17	22	410	ND	130	
10/17/97		17.03	339.56	1,400 <sup>6</sup>	7,100	71	26	520	50	ND	
01/19/98	15.10	341.49	<sup>10</sup> 2,100/1,500 <sup>10</sup>	5,300	46	11	350	16	110		
356.55	NP 04/23/98	11.74	344.81	--/1,200 <sup>11</sup>	3,200	23	11	210	38	160	
	NP 07/08/98	13.27	343.28	1,100 <sup>14</sup>	1,600	34	8.5	100	7.4	190	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7176  
 7850 Amador Valley Boulevard  
 Dublin, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(D)♦ (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-2	10/05/98	14.90	341.65	--/1,300 <sup>10</sup>	2,900 <sup>18</sup>	37	8.4	110	7.3	78
(cont)	01/04/99	15.94	340.61	<sup>11</sup> 670/250 <sup>20</sup>	2,200 <sup>21</sup>	35	ND <sup>12</sup>	17	ND <sup>12</sup>	86
	04/05/99	14.19	342.36	<sup>10</sup> 660/490 <sup>10</sup>	4,900	21	77	130	310	100/6.9 <sup>17</sup>
	07/01/99	14.98	341.57	<sup>24</sup> 210/440 <sup>26</sup>	1,500 <sup>25</sup>	7.6	ND <sup>12</sup>	ND <sup>12</sup>	ND <sup>12</sup>	<sup>12</sup> ND/35 <sup>17</sup>
	09/30/99	16.00	340.55	<sup>10</sup> 483/340 <sup>10</sup>	256 <sup>27</sup>	1.85	ND <sup>12</sup>	2.42	ND <sup>12</sup>	26.3/29.8 <sup>17</sup>
	<b>01/03/00</b>	<b>17.20</b>	<b>339.35</b>	<sup>26</sup> <b>2,400/1,900</b> <sup>26</sup>	<b>3,400</b> <sup>27</sup>	<b>23</b>	<b>13</b>	ND <sup>12</sup>	<b>44</b>	<b>46/14</b> <sup>17</sup>
<b>U-3</b>										
358.13	07/08/95	14.58	343.55	710 <sup>3</sup>	1,100 <sup>4</sup>	0.57	2.1	1.7	2.4	--
	10/12/95	17.60	340.53	470 <sup>6</sup>	560	ND	0.87	0.7	1.1	--
	01/11/96 <sup>1</sup>	18.65	339.48	260 <sup>6</sup>	230	0.62	0.91	0.97	1.9	--
	04/11/96	13.20	344.93	ND	68 <sup>9</sup>	ND	ND	ND	ND	ND
	07/10/96	15.98	342.15	ND	ND	ND	ND	ND	ND	ND
	10/30/96	18.24	339.89	ND	70	ND	ND	ND	ND	ND
	01/27/97	14.41	343.72	ND	ND	ND	ND	ND	ND	ND
	04/08/97	15.73	342.40	ND	ND	ND	ND	ND	ND	ND
	07/17/97	17.54	340.59	ND	ND	ND	ND	ND	ND	ND
	10/17/97	18.64	339.49	63 <sup>6</sup>	ND	ND	ND	ND	ND	ND
	01/19/98	16.67	341.46	<sup>10</sup> 68/ND	ND	ND	ND	ND	ND	ND
358.09	NP 04/23/98	13.28	344.81	--/ND	ND	ND	ND	ND	ND	ND
	NP 07/08/98	14.90	343.19	80 <sup>15</sup>	ND	ND	ND	ND	ND	ND
	10/05/98	16.50	341.59	--/ND	ND	ND	ND	ND	ND	ND
	01/04/99	17.70	340.39	ND	ND	ND	ND	ND	ND	ND
	04/05/99	15.67	342.42	ND	ND	ND	ND	ND	ND	ND/ND <sup>17</sup>
	07/01/99	16.79	341.30	ND	ND	ND	ND	ND	ND	ND/ND <sup>17</sup>
	09/30/99	17.60	340.49	ND	ND	ND	ND	ND	ND	ND/ND <sup>17</sup>
	<b>01/03/00</b>	<b>18.86</b>	<b>339.23</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND/ND</b> <sup>17</sup>
<b>MW-4</b>										
356.41	04/23/98	12.11	344.30	--/1,400 <sup>11</sup>	2,500	5.9	6.4	16	31	ND <sup>12</sup>
	07/08/98	13.70	342.71	1,400 <sup>11</sup>	1,000 <sup>13</sup>	ND <sup>12</sup>	ND <sup>12</sup>	ND <sup>12</sup>	ND <sup>12</sup>	ND <sup>12</sup>
	10/05/98	15.18	341.23	--/230 <sup>10</sup>	890 <sup>16</sup>	ND <sup>12</sup>	ND <sup>12</sup>	ND <sup>12</sup>	14	ND <sup>12</sup>
	01/04/99	16.39	340.02	<sup>10</sup> 71/71 <sup>10</sup>	230 <sup>22</sup>	0.56	1.3	1.4	1.8	10
	04/05/99	14.61	341.80	<sup>10</sup> 340/210 <sup>10</sup>	620 <sup>23</sup>	ND <sup>12</sup>	1.8	2.1	ND <sup>12</sup>	6.0/9.3 <sup>17</sup>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7176  
 7850 Amador Valley Boulevard  
 Dublin, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(D)♦ (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4 (cont)	07/01/99	15.43	340.98	<sup>24</sup> 260/310 <sup>26</sup>	700 <sup>19</sup>	2.1	ND <sup>12</sup>	1.9	2.4	<sup>12</sup> ND/21 <sup>17</sup>
	09/30/99	16.27	340.14	<sup>10</sup> 420/220 <sup>10</sup>	582 <sup>27</sup>	2.60	1.30	1.98	ND <sup>12</sup>	23.1/22.5 <sup>17</sup>
	<b>01/03/00</b>	<b>17.50</b>	<b>338.91</b>	<sup>26</sup> 250/260 <sup>26</sup>	<b>800<sup>27</sup></b>	<b>4.2</b>	<b>4.6</b>	<b>3.3</b>	<b>11</b>	<b>31/17<sup>17</sup></b>
MW-5 355.03	04/23/98	11.15	343.88	--/100 <sup>11</sup>	120	0.53	0.90	1.0	3.8	13
	07/08/98	12.63	342.40	170 <sup>10</sup>	ND	ND	ND	ND	ND	12
	10/05/98	14.00	341.03	--/100 <sup>10</sup>	ND	ND	ND	ND	ND	12
	01/04/99	15.21	339.82	ND	ND	ND	ND	ND	ND	ND
	04/05/99	13.76	341.27	ND	ND	ND	ND	ND	ND	ND/ND <sup>17</sup>
	07/01/99	14.48	340.55	ND	ND	ND	ND	ND	ND	<sup>12</sup> ND/2.3 <sup>17</sup>
	09/30/99	15.15	339.88	<sup>10</sup> 60.4/ND	50.8 <sup>27</sup>	ND	ND	ND	ND	ND/ND <sup>17</sup>
	<b>01/03/00</b>	<b>16.34</b>	<b>338.69</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND/ND<sup>17</sup></b>
<b>Trip Blank</b>										
TB-LB	01/19/98	--	--	--	ND	ND	ND	ND	ND	ND
	04/23/98	--	--	--	ND	ND	ND	ND	ND	ND
	07/08/98	--	--	--	ND	ND	ND	ND	ND	ND
	10/05/98	--	--	--	ND	ND	0.70	ND	0.71	ND
	01/04/99	--	--	--	ND	ND	0.74	ND	0.92	ND
	04/05/99	--	--	--	ND	ND	ND	ND	ND	ND
	07/01/99	--	--	--	ND	ND	ND	ND	ND	ND
	09/30/99	--	--	--	ND	ND	ND	ND	ND	ND
	<b>01/03/00</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #7176  
 7850 Amador Valley Boulevard  
 Dublin, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to January 19, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing elevation	TPH(G) = Total Petroleum Hydrocarbons as Gasoline	
DTW = Depth to Water	B = Benzene	ppb = Parts per billion
(ft.) = Feet	T = Toluene	ND = Not Detected
GWE = Groundwater Elevation	E = Ethylbenzene	-- = Not Measured/Not Analyzed
msl = Relative to mean sea level	X = Xylenes	NP = No purge
TPH(D) = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	PNA = Polynuclear Aromatic Hydrocarbons

\* TOC elevations were surveyed relative to msl, per the Benchmark AM-STW1977 located at the easterly return at the most easterly corner of intersection at Amador Valley Boulevard and Starward Street (Elevation = 344.17 feet msl).

◆ Analytical results reported as follows: TPH(D)/TPH(D) with silica gel cleanup.

1 PNA compound naphthalene was detected in well U-1 at a concentration of 320 ppb, and at a concentration of 310 ppb in well U-2. All other PNA compounds were ND in both wells.  
 2 PNA compounds were ND.

3 Laboratory report indicates unidentified hydrocarbons C9-C26.

4 Laboratory report indicates gasoline and unidentified hydrocarbons >C12.

5 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

6 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.

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

8 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.

9 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.

10 Laboratory report indicates unidentified hydrocarbons C9-C24.

11 Laboratory report indicates diesel and unidentified hydrocarbons <C14.

12 Detection limit raised. Refer to analytical reports.

13 Laboratory report indicates unidentified hydrocarbons >C8.

14 Laboratory report indicates unidentified hydrocarbons <C14.

15 Laboratory report indicates discrete peaks.

16 Laboratory report indicates weathered gas C6-C12.

17 MTBE by EPA Method 8260.

18 Laboratory report indicates unidentified hydrocarbons <C8.

19 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.

20 Laboratory report indicates diesel and unidentified hydrocarbons <C16.

21 Laboratory report indicates unidentified hydrocarbons C6-C12.

22 Laboratory report indicates gasoline and unidentified hydrocarbons >C10.

23 Laboratory report indicates gasoline and unidentified hydrocarbons <C7.

24 Laboratory report indicates unidentified hydrocarbons C10-C24.

25 Laboratory report indicates gasoline and unidentified hydrocarbons <C6.

26 Laboratory report indicates unidentified hydrocarbons <C16.

27 Laboratory report indicates gasoline C6-C12.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Tosco (Unocal) Service Station #7176  
7850 Amador Valley Boulevard  
Dublin, California

<b>Well ID</b>	<b>Date</b>	<b>Ethanol (ppb)</b>	<b>TBA (ppb)</b>	<b>MTBE (ppb)</b>	<b>DIPE (ppb)</b>	<b>ETBE (ppb)</b>	<b>TAME (ppb)</b>	<b>EDB (ppb)</b>	<b>1,2-DCA (ppb)</b>
U-1	04/05/99	ND <sup>1</sup>	ND <sup>1</sup>	55	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>
	07/01/99	ND	ND	110	ND	ND	ND	ND	ND
	09/30/99	ND <sup>1</sup>	ND <sup>1</sup>	195	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>
	<b>01/03/00</b>	<b>ND</b>	<b>ND</b>	<b>120</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
U-2	04/05/99	ND <sup>1</sup>	ND <sup>1</sup>	6.9	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>
	07/01/99	ND	ND	35	ND	ND	ND	ND	ND
	09/30/99	ND	ND	29.8	ND	ND	ND	ND	ND
	<b>01/03/00</b>	<b>ND</b>	<b>ND</b>	<b>14</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
U-3	04/05/99	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/99	ND	ND	ND	ND	ND	ND	ND	ND
	09/30/99	ND	ND	ND	ND	ND	ND	ND	ND
	<b>01/03/00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
MW-4	04/05/99	ND	ND	9.3	ND	ND	ND	ND	ND
	07/01/99	ND	ND	21	ND	ND	ND	ND	ND
	09/30/99	ND	ND	22.5	ND	ND	ND	ND	ND
	<b>01/03/00</b>	<b>ND</b>	<b>ND</b>	<b>17</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>
MW-5	04/05/99	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/99	ND	ND	2.3	ND	ND	ND	ND	ND
	09/30/99	ND	ND	ND	ND	ND	ND	ND	ND
	<b>01/03/00</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>



**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Tosco (Unocal) Service Station #7176  
7850 Amador Valley Boulevard  
Dublin, California

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**EXPLANATIONS:**

TBA = Tertiary Butyl Alcohol  
MTBE = Methyl Tertiary Butyl Ether  
DIPE = Di-isopropyl Ether  
ETBE = Ethyl Tertiary Butyl Ether  
TAME = Tertiary Amyl Methyl Ether  
EDB = 1,2-Dibromomethane  
1,2-DCA = 1,2-Dichloroethane  
ppb = Parts per billion  
ND = Not Detected

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

<sup>1</sup> Detection limit raised. Refer to analytical reports.

**Table 3**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #7176  
 7850 Amador Valley Boulevard  
 Dublin, California

Well ID	Date	Before Purging (mg/L)	After Purging (mg/L)
U-1	01/11/96	--	3.41
	04/11/96	3.77	3.78
	07/10/96 <sup>1</sup>	1.22	--
	10/30/96 <sup>1</sup>	1.41	--
	01/27/97 <sup>1</sup>	1.34	--
	04/08/97 <sup>1</sup>	2.09	--
	07/17/97 <sup>1</sup>	2.00	--
	10/17/97 <sup>1</sup>	1.86	--
	01/19/98 <sup>1</sup>	2.91	--
	04/23/98 <sup>1</sup>	0.59	--
	07/08/98 <sup>1</sup>	1.10	--
U-2	01/11/96	--	3.99
	04/11/96	3.32	3.41
	07/10/96 <sup>1</sup>	1.01	--
	10/30/96 <sup>1</sup>	1.42	--
	01/27/97 <sup>1</sup>	1.29	--
	04/08/97 <sup>1</sup>	1.69	--
	07/17/97 <sup>1</sup>	2.08	--
	10/17/97 <sup>1</sup>	1.80	--
	01/19/98 <sup>1</sup>	2.95	--
	04/23/98 <sup>1</sup>	0.55	--
	07/08/98 <sup>1</sup>	1.36	--
U-3	01/11/96	--	5.05
	04/11/96	5.16	4.96
	07/10/96 <sup>1</sup>	3.44	--
	10/30/96 <sup>1</sup>	2.18	--
	01/27/97 <sup>1</sup>	2.61	--
	04/08/97 <sup>1</sup>	3.73	--
	07/17/97 <sup>1</sup>	2.65	--
	10/17/97 <sup>1</sup>	2.44	--
	01/19/98 <sup>1</sup>	6.51	--
	04/23/98 <sup>1</sup>	4.72	--
	07/08/98 <sup>1</sup>	4.35	--
CC-1	10/02/95	2.83	--

**EXPLANATIONS:**

Dissolved oxygen concentrations prior to January 19, 1998, were compiled from reports prepared by MPDS Services, Inc.

CC-1 = Conductor casing in the underground storage tank backfill

-- = Not Measured

mg/L = milligrams per liter

<sup>1</sup> The wells were not purged on this date.

Note: Measurements were taken using a LaMotte DO4000 dissolved oxygen meter.

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

# WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: UNION IS # 7176 Job#: 180022  
 Address: 7850 AMADOR VALLEY RD. Date: 1-3-00  
 City: DUBLIN, CA Sampler: STEVE BAUMAN

Well ID: U-1 Well Condition: OK  
 Well Diameter: 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)  
 Total Depth: 27.90 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water: 16.51 ft. Factor (VF) 6" = 1.50 12" = 5.80

11.39 X VF 0.17 = 1.94 X 3 (case volume) = Estimated Purge Volume: 5.81 (gal.)

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

Starting Time: 13:49 Weather Conditions: SUNNY  
 Sampling Time: 14:10 Water Color: NOT CLEAR Odor: YES  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:51</u>	<u>2</u>	<u>6.90</u>	<u>510</u>	<u>72.6</u>			
<u>13:53</u>	<u>4</u>	<u>6.84</u>	<u>510</u>	<u>72.5</u>			
<u>13:55</u>	<u>6</u>	<u>6.83</u>	<u>509</u>	<u>72.4</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-1</u>	<u>5-WA'</u>	<u>Y</u>	<u>HH</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe 1/8/26-1000</u>
<u>U-1</u>	<u>1-AMBER</u>	<u>Y</u>	<u>-</u>	<u>"</u>	<u>TPH H<sub>2</sub>O W/S 2/26/00</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: UNOCAL 11# 7176 Job#: 180022  
 Address: 1850 AMADOR VALLEY RD. Date: 1-3-00  
 City: DUBLIN, CA Sampler: STEVE BALIAN

Well ID: U-2 Well Condition: O.K.  
 Well Diameter: 2" in. Hydrocarbon Thickness: 1 (feet) Amount Bailed (product/water): 0 (Gallons)  
 Total Depth: 26.50 ft. Volume Factor (VF): 2" = 0.17, 3" = 0.38, 4" = 0.66  
 Depth to Water: 17.20 ft. 6" = 1.50, 12" = 5.80

9.30 x VF 0.17 = 1.58 x 3 (case volume) = Estimated Purge Volume: 4.74 (gal.)

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

Starting Time: 13:07 Weather Conditions: SUNNY  
 Sampling Time: 13:30 Water Color: NOT CLEAR Odor: YES  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:09</u>	<u>2</u>	<u>7.05</u>	<u>568</u>	<u>70.4</u>			
<u>13:10</u>	<u>3.5</u>	<u>6.95</u>	<u>558</u>	<u>71.6</u>			
<u>13:12</u>	<u>5</u>	<u>6.92</u>	<u>558</u>	<u>72.3</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-2</u>	<u>5-VOA"</u>	<u>Y</u>	<u>HP</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>U-2</u>	<u>1-AMBER</u>	<u>Y</u>	<u>-</u>	<u>"</u>	<u>TPH-D w/ GILICA REL</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: UNOIAL # 7176 Job#: 180022  
 Address: 7850 AMADOR VALLEY AV. Date: 1-3-00  
 City: DUBLIN, CA Sampler: STEVE GALIAN

Well ID: U-3 Well Condition: ONE RANCE IS BROKEN  
 Well Diameter: 2" in. Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)  
 Total Depth: 28.50 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water: 18.86 ft. Factor (VF) 6" = 1.50 12" = 5.80

9.64 x VF 0.17 = 1.64 x 3 (case volume) = Estimated Purge Volume: 4.92 (gal.)

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

Starting Time: 11:17 Weather Conditions: SUNNY  
 Sampling Time: 11:35 Water Color: NOT 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)
<u>11:19</u>	<u>2</u>	<u>7.00</u>	<u>588</u>	<u>67.7</u>			
<u>11:21</u>	<u>3.5</u>	<u>6.99</u>	<u>589</u>	<u>70.4</u>			
<u>11:23</u>	<u>5</u>	<u>6.97</u>	<u>583</u>	<u>71.3</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-3</u>	<u>5-VOA"</u>	<u>Y</u>	<u>HL</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe/8260</u> <small>EM, G</small>
<u>U-3</u>	<u>1-AMBER</u>	<u>Y</u>	<u>-</u>	<u>"</u>	<u>TPH-D/W SILICA</u> <small>STL</small>

COMMENTS: \* 8" (METAL)

# WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility: UNION PAC # 7176 Job#: 180022  
 Address: 7850 AMADOR VALLEY RD. Date: 1-3-00  
 City: DUBLIN, CA Sampler: STEVE BALKAN

Well ID: MW-4 Well Condition: O.K.  
 Well Diameter: 2" in. Hydrocarbon Thickness: 0" (feet) Amount Bailed (product/water): 1 (Gallons)  
 Total Depth: 25.50 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water: 17.50 ft. Factor (VF) 6" = 1.50 12" = 5.80

8.00 x VF 0.17 = 1.36 x 3 (case volume) = Estimated Purge Volume: 4.08 (gal.)

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

Starting Time: 12:33 Weather Conditions: SUNNY  
 Sampling Time: 12:50 Water Color: NOT CLEAR Odor: -  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:34</u>	<u>1.5</u>	<u>6.90</u>	<u>573</u>	<u>70.8</u>			
<u>12:35</u>	<u>3</u>	<u>6.89</u>	<u>578</u>	<u>71.1</u>			
<u>12:36</u>	<u>4.5</u>	<u>6.88</u>	<u>564</u>	<u>71.6</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>5-VOA</u>	<u>Y</u>	<u>14d</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe 1826</u> <small>SOB/12</small>
<u>MW-4</u>	<u>1-AMBER</u>	<u>Y</u>	<u>-</u>	<u>0</u>	<u>TPH-D 0/5/10/20</u> <small>SOB</small>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/ Facility: UNOCAL SS # 7176 Job#: 180022  
 Address: 7850 AMADOR VALLEY Rd. Date: 1-3-00  
 City: DUBLIN, CA Sampler: STEVE BAU'AU

Well ID: MW-5 Well Condition: O.K  
 Well Diameter: 2' in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)  
 Total Depth: 25.00 ft. Volume Factor (VF):  
 Depth to Water: 16.34 ft. 

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

8.66 x VF 0.17 = 1.47 x 3 (case volume) = Estimated Purge Volume: 4.42 (gal.)

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

Starting Time: 11:54 Weather Conditions: SUNNY  
 Sampling Time: 12:15 Water Color: NOT CLEAR Odor: -  
 Purging Flow Rate: 1 gpm Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:55</u>	<u>1.5</u>	<u>7.11</u>	<u>560</u>	<u>70.4</u>			
<u>11:57</u>	<u>3</u>	<u>7.03</u>	<u>557</u>	<u>70.7</u>			
<u>11:58</u>	<u>4.5</u>	<u>7.03</u>	<u>555</u>	<u>70.7</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>5-VOA'</u>	<u>Y</u>	<u>HY</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe/1826 ENBAE</u>
<u>MW-5</u>	<u>1-AMBER</u>	<u>Y</u>	<u>-</u>	<u>"</u>	<u>TPH-D W/SEQUOIA UCL</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





TOSCO

Tosco Marketing Company  
2000 Cox Canyon Pl., Ste. 208  
San Ramon, California 94583

Facility Number: UNOCAL SS# 7176

Facility Address: 7850 Amador Valley Blvd. Dublin, CA

Consultant Project Number: 180022.85

Consultant Name: Gettler-Ryan Inc. (G-R Inc.)

Address: 6747 Sierra Court, Suite I, Dublin, CA 94568

Project Contact (Name): Deanna L. Harding

(Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name): MR. DAVE DEWITT

(Phone): (925) 277-2384

Laboratory Name: Sequoia Analytical

Laboratory Release Number: W001075

Samples Collected by (Name): STEVE BALIAN

Collection Date: 1-3-00

Signature: STEVE BALIAN

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	Iod (Yes or No)	Analytes To Be Performed											Remarks	
								TPH Gas + BTEX w/MTBE (8018)	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)	8260 6-oxy's	EDR x EDC			
TB-LB	01A	1	W	G		HL	Y	X												Run silica gel
U-1	02A1	6	"	"		"	Y	X	X											clean-up on 924
U-2	03	6	"	"		"	Y	X	X											Diesel hits
U-3	04	6	"	"		"	Y	X	X											
MW-4	05	6	"	"		"	Y	X	X											
MW-5	06 V	6	"	"		"	Y	X	X											

DO NOT BILL  
TB-LB ANALYSIS

Relinquished By (Signature) <u>STEVE BALIAN</u>	Organization G-R Inc.	Date/Time <u>1-7-00</u>	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time <u>1/2/00 16:05</u>	



17 January, 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 03-Jan-00 16:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Alan B. Kemp  
Laboratory Director





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

**Reported:**  
17-Jan-00 15:41

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W001025-01	Water	03-Jan-00 00:00	03-Jan-00 16:05
U-1	W001025-02	Water	03-Jan-00 00:00	03-Jan-00 16:05
U-2	W001025-03	Water	03-Jan-00 00:00	03-Jan-00 16:05
U-3	W001025-04	Water	03-Jan-00 00:00	03-Jan-00 16:05
MW-4	W001025-05	Water	03-Jan-00 00:00	03-Jan-00 16:05
MW-5	W001025-06	Water	03-Jan-00 00:00	03-Jan-00 16:05






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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Reported:  
17-Jan-00 15:41

**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
<b>TB-LB (W001025-01) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Purgeable Hydrocarbons	ND	50	ug/l	1	0A05001	05-Jan-00	05-Jan-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	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.7 %	70-130		"	"	"	"	
<b>U-1 (W001025-02) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05 <span style="float:right">P-01</span>									
Purgeable Hydrocarbons	5400	250	ug/l	5	0A05001	05-Jan-00	05-Jan-00	EPA	
Benzene	28	2.5	"	"	"	"	"	8015M/8020	
Toluene	8.4	2.5	"	"	"	"	"	"	
Ethylbenzene	180	2.5	"	"	"	"	"	"	
Xylenes (total)	33	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	160	13	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		155 %	70-130		"	"	"	"	S-04
<b>U-2 (W001025-03) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05 <span style="float:right">P-01</span>									
Purgeable Hydrocarbons	3400	500	ug/l	10	0A05001	05-Jan-00	05-Jan-00	EPA	
Benzene	23	5.0	"	"	"	"	"	8015M/8020	
Toluene	13	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	44	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	46	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		141 %	70-130		"	"	"	"	S-04

  
Alan B. Kemp, Laboratory Director





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Reported:  
17-Jan-00 15:41

**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
<b>U-3 (W001025-04) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Purgeable Hydrocarbons	ND	50	ug/l	1	0A05001	05-Jan-00	05-Jan-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	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.0 %	70-130	"	"	"	"	"	
<b>MW-4 (W001025-05) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05 <span style="float: right;">P-01</span>									
Purgeable Hydrocarbons	800	200	ug/l	4	0A06001	06-Jan-00	06-Jan-00	EPA	
Benzene	4.2	2.0	"	"	"	"	"	8015M/8020	
Toluene	4.6	2.0	"	"	"	"	"	"	
Ethylbenzene	3.3	2.0	"	"	"	"	"	"	
Xylenes (total)	11	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	31	10	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		105 %	70-130	"	"	"	"	"	
<b>MW-5 (W001025-06) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Purgeable Hydrocarbons	ND	50	ug/l	1	0A05001	05-Jan-00	05-Jan-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	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.7 %	70-130	"	"	"	"	"	





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Reported:  
17-Jan-00 15:41

**Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>U-1 (W001025-02) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Diesel Range Hydrocarbons	1700	50	ug/l	1	0A07001	07-Jan-00	17-Jan-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		58.0 %	50-140		"	"	"	"	
<b>U-2 (W001025-03) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Diesel Range Hydrocarbons	1900	50	ug/l	1	0A07001	07-Jan-00	17-Jan-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		50.2 %	50-140		"	"	"	"	
<b>MW-4 (W001025-05) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Diesel Range Hydrocarbons	260	50	ug/l	1	0A07001	07-Jan-00	17-Jan-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		58.0 %	50-140		"	"	"	"	





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

**Reported:**  
17-Jan-00 15:41

**Diesel Hydrocarbons (C9-C24) by DHS LUFT  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>U-1 (W001025-02) Water</b> Sampled: 03-Jan-00 00:00    Received: 03-Jan-00 16:05									
Diesel Range Hydrocarbons	2000	50	ug/l	1	0A07001	07-Jan-00	10-Jan-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		70.0 %	50-150		"	"	"	"	
<b>U-2 (W001025-03) Water</b> Sampled: 03-Jan-00 00:00    Received: 03-Jan-00 16:05									
Diesel Range Hydrocarbons	2400	50	ug/l	1	0A07001	07-Jan-00	10-Jan-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		75.1 %	50-150		"	"	"	"	
<b>U-3 (W001025-04) Water</b> Sampled: 03-Jan-00 00:00    Received: 03-Jan-00 16:05									
Diesel Range Hydrocarbons	ND	50	ug/l	1	0A07001	07-Jan-00	11-Jan-00	EPA 8015M	
Surrogate: n-Pentacosane		61.0 %	50-150		"	"	"	"	
<b>MW-4 (W001025-05) Water</b> Sampled: 03-Jan-00 00:00    Received: 03-Jan-00 16:05									
Diesel Range Hydrocarbons	250	50	ug/l	1	0A07001	07-Jan-00	10-Jan-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		52.0 %	50-150		"	"	"	"	
<b>MW-5 (W001025-06) Water</b> Sampled: 03-Jan-00 00:00    Received: 03-Jan-00 16:05									
Diesel Range Hydrocarbons	ND	50	ug/l	1	0A07001	07-Jan-00	11-Jan-00	EPA 8015M	
Surrogate: n-Pentacosane		57.1 %	50-150		"	"	"	"	





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Report Revised:  
28-Jan-00 01:54

**Volatile Organic Compounds by EPA Method 8260A  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>U-1 (W001025-02) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Ethanol	ND	500	ug/l	1	0A11011	07-Jan-00	07-Jan-00	EPA 8260A	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	120	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		82.0 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		76.0 %	50-150	"	"	"	"	"	
<b>U-2 (W001025-03) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Ethanol	ND	500	ug/l	1	0A11011	07-Jan-00	07-Jan-00	EPA 8260A	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	14	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		80.0 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		5.40 %	50-150	"	"	"	"	"	S-04
<b>U-3 (W001025-04) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Ethanol	ND	500	ug/l	1	0A11011	07-Jan-00	07-Jan-00	EPA 8260A	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		80.0 %	50-150	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		70.0 %	50-150	"	"	"	"	"	

Sequoia Analytical - Walnut Creek

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Alan B. Kemp, Laboratory Director







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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Report Revised:  
28-Jan-00 01:54

**Volatile Organic Compounds by EPA Method 8260A  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (W001025-05) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Ethanol	ND	500	ug/l	1	0A11011	07-Jan-00	07-Jan-00	EPA 8260A	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	17	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		78.0 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		68.0 %	50-150		"	"	"	"	
<b>MW-5 (W001025-06) Water</b> Sampled: 03-Jan-00 00:00 Received: 03-Jan-00 16:05									
Ethanol	ND	500	ug/l	1	0A11011	07-Jan-00	07-Jan-00	EPA 8260A	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		80.0 %	50-150		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		68.0 %	50-150		"	"	"	"	

Sequoia Analytical - Walnut Creek

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Alan B. Kemp, Laboratory Director





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Reported:  
17-Jan-00 15:41

**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
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**Batch 0A05001: Prepared 05-Jan-00 Using EPA 5030B [P/T]**

**Blank (0A05001-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	30.5		"	30.0		102	70-130			

**LCS (0A05001-BS1)**

Benzene	17.4	0.50	ug/l	20.0		87.0	70-130			
Toluene	17.6	0.50	"	20.0		88.0	70-130			
Ethylbenzene	16.1	0.50	"	20.0		80.5	70-130			
Xylenes (total)	56.9	0.50	"	60.0		94.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	28.4		"	30.0		94.7	70-130			

**Matrix Spike (0A05001-MS1)**

Source: W912588-02

Benzene	18.5	0.50	ug/l	20.0	ND	92.5	70-130			
Toluene	18.2	0.50	"	20.0	ND	91.0	70-130			
Ethylbenzene	16.7	0.50	"	20.0	ND	83.5	70-130			
Xylenes (total)	55.8	0.50	"	60.0	ND	93.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	28.7		"	30.0		95.7	70-130			

**Matrix Spike Dup (0A05001-MSD1)**

Source: W912588-02

Benzene	18.5	0.50	ug/l	20.0	ND	92.5	70-130	0	20	
Toluene	18.0	0.50	"	20.0	ND	90.0	70-130	1.10	20	
Ethylbenzene	18.6	0.50	"	20.0	ND	93.0	70-130	10.8	20	
Xylenes (total)	53.8	0.50	"	60.0	ND	89.7	70-130	3.65	20	
Surrogate: a,a,a-Trifluorotoluene	28.2		"	30.0		94.0	70-130			





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Reported:  
17-Jan-00 15:41

## 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
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Batch 0A06001: Prepared 06-Jan-00 Using EPA 5030B [P/T]

### Blank (0A06001-BLK1)

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a, a, a-Trifluorotoluene	28.0		"	30.0		93.3	70-130			

### LCS (0A06001-BS1)

Benzene	18.9	0.50	ug/l	20.0		94.5	70-130			
Toluene	19.1	0.50	"	20.0		95.5	70-130			
Ethylbenzene	17.5	0.50	"	20.0		87.5	70-130			
Xylenes (total)	61.0	0.50	"	60.0		102	70-130			
Surrogate: a, a, a-Trifluorotoluene	28.6		"	30.0		95.3	70-130			

### Matrix Spike (0A06001-MS1)

Source: W001027-01

Benzene	19.0	0.50	ug/l	20.0	ND	95.0	70-130			
Toluene	19.3	0.50	"	20.0	ND	96.5	70-130			
Ethylbenzene	19.9	0.50	"	20.0	ND	99.5	70-130			
Xylenes (total)	61.6	0.50	"	60.0	ND	103	70-130			
Surrogate: a, a, a-Trifluorotoluene	29.2		"	30.0		97.3	70-130			

### Matrix Spike Dup (0A06001-MSD1)

Source: W001027-01

Benzene	20.1	0.50	ug/l	20.0	ND	101	70-130	5.63	20	
Toluene	20.2	0.50	"	20.0	ND	101	70-130	4.56	20	
Ethylbenzene	21.1	0.50	"	20.0	ND	106	70-130	5.85	20	
Xylenes (total)	63.7	0.50	"	60.0	ND	106	70-130	3.35	20	
Surrogate: a, a, a-Trifluorotoluene	29.5		"	30.0		98.3	70-130			

Sequoia Analytical - Walnut Creek

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Alan B. Kemp, Laboratory Director





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Reported:  
17-Jan-00 15:41

**Diesel Hydrocarbons (C9-C24) 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
<b>Batch 0A07001: Prepared 07-Jan-00 Using EPA 3510B</b>										
<b>Blank (0A07001-BLK1)</b>										
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	19.7		"	33.3		59.2	50-150			
<b>LCS (0A07001-BS1)</b>										
Diesel Range Hydrocarbons	367	50	ug/l	500		73.4	60-140			
Surrogate: n-Pentacosane	22.0		"	33.3		66.1	50-150			
<b>LCS Dup (0A07001-BSD1)</b>										
Diesel Range Hydrocarbons	381	50	ug/l	500		76.2	60-140	3.74	50	
Surrogate: n-Pentacosane	21.0		"	33.3		63.1	50-150			

  
Alan B. Kemp, Laboratory Director





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding


Reported:  
17-Jan-00 15:41

**Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup 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
<b>Batch 0A07001: Prepared 07-Jan-00 Using EPA 3510B</b>										
<b>Blank (0A07001-BLK1)</b>										
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	22.7		"	33.3		68.2	50-140			
<b>LCS (0A07001-BS1)</b>										
Diesel Range Hydrocarbons	363	50	ug/l	500		72.6	35-125			
Surrogate: n-Pentacosane	22.3		"	33.3		67.0	50-140			
<b>LCS Dup (0A07001-BSD1)</b>										
Diesel Range Hydrocarbons	442	50	ug/l	500		88.4	35-125	19.6	50	
Surrogate: n-Pentacosane	24.3		"	33.3		73.0	50-140			

Sequoia Analytical - Walnut Creek

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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Reported:  
17-Jan-00 15:41

**Volatile Organic Compounds by EPA Method 8260A - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0A11011: Prepared 07-Jan-00 Using EPA 5030B [P/T]**

**Blank (0A11011-BLK1)**

Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	100	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
<i>Surrogate: Dibromofluoromethane</i>	54.0		"	50.0		108	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52.0		"	50.0		104	50-150			

**Blank (0A11011-BLK2)**

Ethanol	ND	500	ug/l							
tert-Butyl alcohol	ND	100	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
<i>Surrogate: Dibromofluoromethane</i>	47.0		"	50.0		94.0	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	44.0		"	50.0		88.0	50-150			

**LCS (0A11011-BS1)**

Methyl tert-butyl ether	40.9	2.0	ug/l	50.0		81.8	70-130			
<i>Surrogate: Dibromofluoromethane</i>	47.0		"	50.0		94.0	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	45.0		"	50.0		90.0	50-150			

Sequoia Analytical - Walnut Creek

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Alan B. Kemp, Laboratory Director





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6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Reported:  
17-Jan-00 15:41

**Volatile Organic Compounds by EPA Method 8260A - Quality Control  
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0A11011: Prepared 10-Jan-00 Using EPA 5030B [P/T]**

**LCS (0A11011-BS2)**

Methyl tert-butyl ether	55.5	2.0	ug/l	50.0		111	70-130			
Surrogate: Dibromofluoromethane	50.0		"	50.0		100	50-150			
Surrogate: 1,2-Dichloroethane-d4	46.0		"	50.0		92.0	50-150			

**LCS Dup (0A11011-BSD1)**

Methyl tert-butyl ether	39.7	2.0	ug/l	50.0		79.4	70-130	2.98	200	
Surrogate: Dibromofluoromethane	43.0		"	50.0		86.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	41.0		"	50.0		82.0	50-150			

**Matrix Spike (0A11011-MS1)**

Source: W001025-06

Methyl tert-butyl ether	47.6	2.0	ug/l	50.0	ND	95.2	60-150			
Surrogate: Dibromofluoromethane	41.0		"	50.0		82.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	34.0		"	50.0		68.0	50-150			

**Matrix Spike Dup (0A11011-MSD1)**

Source: W001025-06

Methyl tert-butyl ether	35.5	2.0	ug/l	50.0	ND	71.0	60-150	29.1	25	Q-07
Surrogate: Dibromofluoromethane	40.0		"	50.0		80.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	33.0		"	50.0		66.0	50-150			





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

Project: Unocal  
Project Number: Unocal # 7176  
Project Manager: Deanna L. Harding

Report Revised:  
29-Jan-00 03:13

### Notes and Definitions

- D-11 Chromatogram Pattern: Unidentified Hydrocarbons < C16
- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-07 The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

