GETTLER-RYAN INC.

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TRANSMITTAL

June 2, 2000
G-R #:180022

SHO 4104

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

CC: Mr. Keith Romstad
ERI, Inc.
73 Digital Drive, Suite 100
Novato, California 94949

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

RE: **Tosco(Unocal) SS #7176**
7850 Amador Valley Blvd.
Dublin, California

Unocal 7176 6/17/2000

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 24, 2000	Groundwater Monitoring and Sampling Report Second Quarter 2000 - Event of April 4, 2000

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by ***June 15, 2000***, this report will be distributed to the following:

Enclosure

cc: **Mr. Amir K. Gholami, REHS**
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502

trans/7176dbd.qmt

GETTLER-RYAN INC.

May 24, 2000
G-R Job #180022

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

RE: Second 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 April 4, 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,

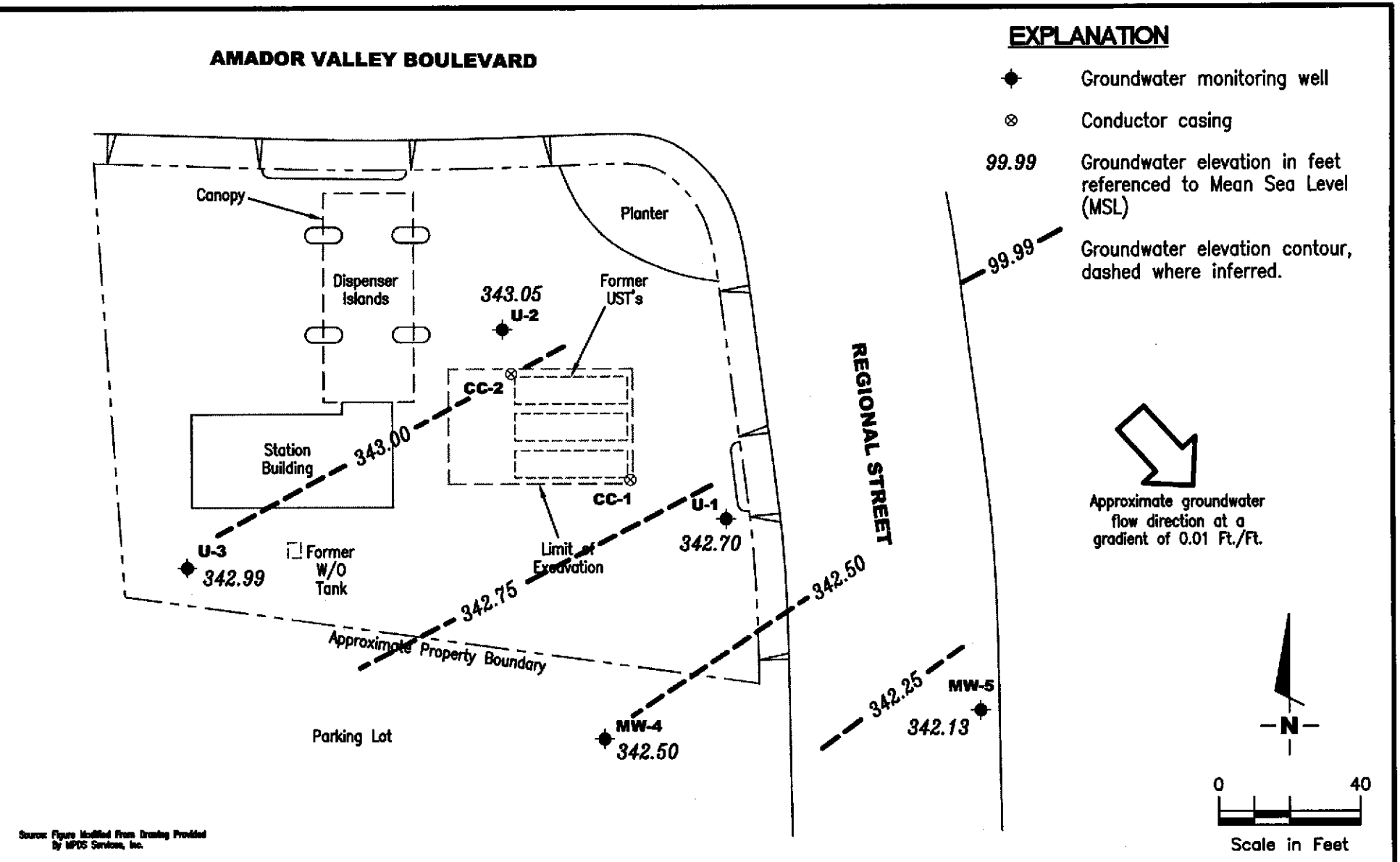
Anamarie Nercau
FOR
Deanna L. Harding
Project Coordinator

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

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

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

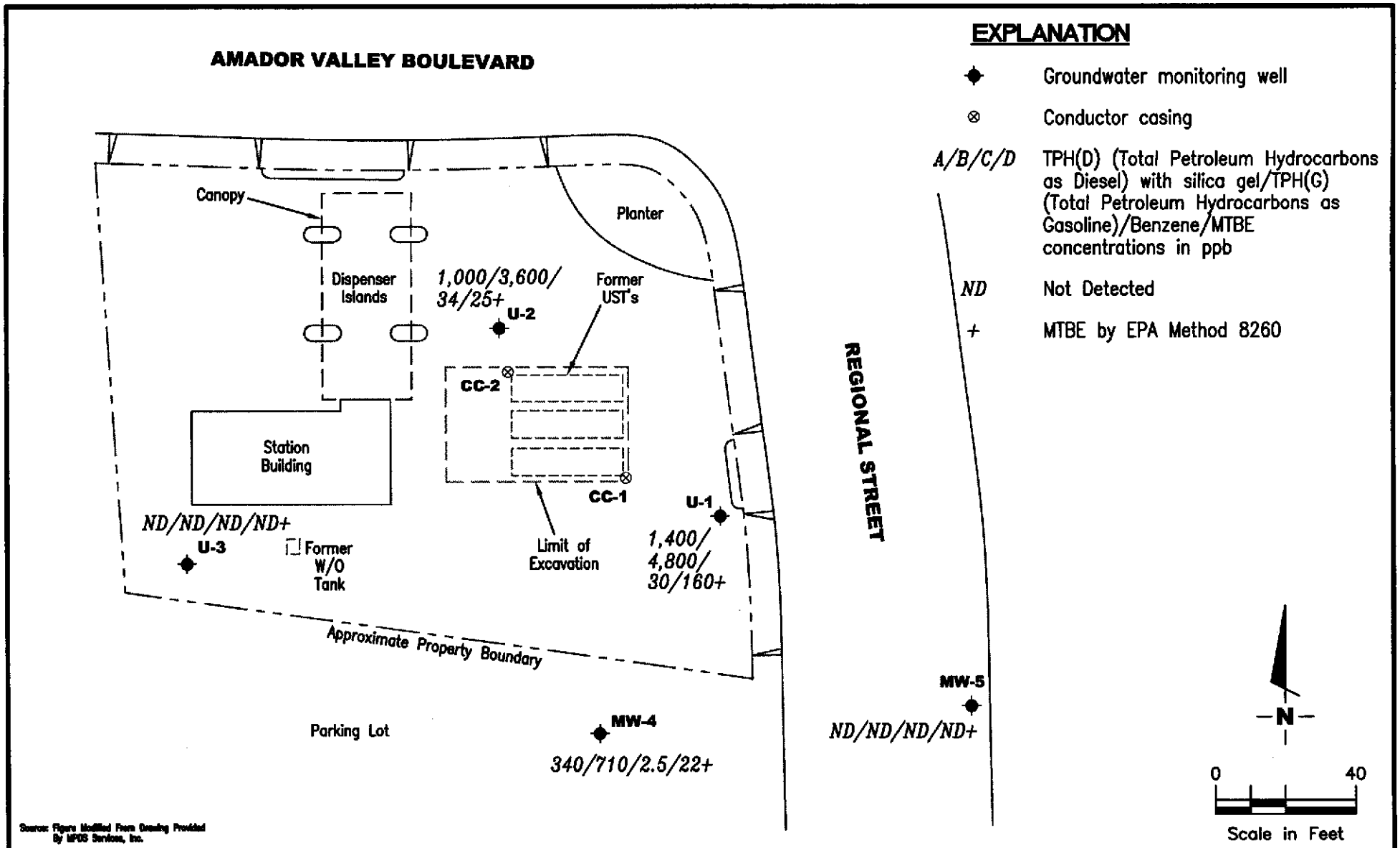


Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

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

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180022		April 4, 2000	



Gettler - Ryan Inc.
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CONCENTRATION MAP
Tosco (Unocal) Service Station No. 7176
7850 Amador Valley Boulevard
Dublin, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180022		April 4, 2000	

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-1											
355.62		07/08/95	12.59	343.03	9,400[3]	39,000	1,500	19	1,600	5,200	--
		10/12/95	15.38	340.24	4,200[5]	33,000	1,400	ND	1,400	3,100	--[7]
		01/11/96[1]	16.33	339.29	8,200[5]	8,300	690	11	680	1,500	--[8]
		04/11/96[2]	12.20	343.42	630[5]	3,200	110	ND	180	290	790
		07/10/96	13.84	341.78	2,200[5]	2,600	81	4.4	210	230	510
		10/30/96	15.85	339.77	560[5]	2,200	67	19	140	150	360
		01/27/97	12.20	343.42	2,300[5]	4,600	98	ND	360	290	150
		04/08/97	13.46	342.16	1,300[5]	2,800	50	ND	220	140	ND
		07/17/97	15.30	340.32	460[6]	2,300	30	4.5	140	94	190
		10/17/97	16.33	339.29	510[6]	1,500	31	6.7	110	88	220
		01/19/98	14.34	341.28	[10]1,900/1,300[10]	3,100	46	3.4	310	200	170
355.59	NP	04/23/98	11.16	344.43	--/1,700[11]	3,400	72	3.8	470	350	280
	NP	07/08/98	12.67	342.92	2,000[14]	4,500	51	ND[12]	590	430	190
		10/05/98	14.57	341.02	--/2,500[10]	7,500[16]	53	ND[12]	680	350	190/180[17]
		01/04/99	15.35	340.24	[11]2,700/2,500[11]	10,000[19]	ND[12]	ND[12]	1,200	540	ND[12]
		04/05/99	13.64	341.95	[10]920/570[10]	4,900	34	ND[12]	350	150	150/55[17]
		07/01/99	14.39	341.20	[10]2,700/3,600[26]	10,000	45	ND[12]	850	420	260/110[17]
		09/30/99	15.32	340.27	[10]2,360/1,680[10]	7,150[27]	ND[12]	ND[12]	415	84.4	[12]ND/195[17]
		01/03/00	16.51	339.08	[26]2,000/1,700[26]	5,400[27]	28	8.4	180	33	160/120[17]
		04/04/00	**12.89**	**342.70**	**[26]990/1,400[26]**	**4,800[27]**	**30**	**ND[12]**	**210**	**93**	**170/160[17]**
U-2											
356.59		07/08/95	12.68	343.91	4,700[3]	17,000	430	ND	2,200	590	--
		10/12/95	16.01	340.58	3,600[5]	24,000	310	60	1,900	190	--[7]
		01/11/96[1]	17.06	339.53	8,600[5]	10,000	210	55	1,400	240	--[8]
		04/11/96[2]	12.75	343.84	1,900[5]	7,700	130	27	1,100	110	340
		07/10/96	14.42	342.17	2,300[5]	5,600	59	15	610	42	250
		10/30/96	16.82	339.77	1,800[5]	7,700	67	35	1,000	54	260
		01/27/97	12.91	343.68	660[5]	1,600	14	ND	130	7.0	100
		04/08/97	14.07	342.52	2,000[5]	4,300	35	ND	400	16	ND
		07/17/97	15.96	340.63	1,300[6]	6,200	17	22	410	ND	130
		10/17/97	17.03	339.56	1,400[6]	7,100	71	26	520	50	ND
		01/19/98	15.10	341.49	[10]2,100/1,500[10]	5,300	46	11	350	16	110
356.55	NP	04/23/98	11.74	344.81	--/1,200[11]	3,200	23	11	210	38	160

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	NP	07/08/98	13.27	343.28	1,100[14]	1,600	34	8.5	100	7.4	190
(cont)		10/05/98	14.90	341.65	--/1,300[10]	2,900[18]	37	8.4	110	7.3	78
		01/04/99	15.94	340.61	[11]670/250[20]	2,200[21]	35	ND[12]	17	ND[12]	86
		04/05/99	14.19	342.36	[10]660/490[10]	4,900	21	77	130	310	100/6.9[17]
		07/01/99	14.98	341.57	[24]210/440[26]	1,500[25]	7.6	ND[12]	ND[12]	ND[12]	[12]ND/35[17]
		09/30/99	16.00	340.55	[10]483/340[10]	256[27]	1.85	ND[12]	2.42	ND[12]	26.3/29.8[17]
		01/03/00	17.20	339.35	[26]2,400/1,900[26]	3,400[27]	23	13	ND[12]	44	46/14[17]
		04/04/00	**13.50**	**343.05**	**[26]1,000/1,000[26]**	**3,600[27]**	**34**	**17**	**56**	**ND[12]**	**59/25[17]**
U-3											
358.13		07/08/95	14.58	343.55	710[3]	1,100[4]	0.57	2.1	1.7	2.4	--
		10/12/95	17.60	340.53	470[6]	560	ND	0.87	0.7	1.1	--
		01/11/96[1]	18.65	339.48	260[6]	230	0.62	0.91	0.97	1.9	--
		04/11/96	13.20	344.93	ND	68[9]	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[6]	ND	ND	ND	ND	ND	ND
		01/19/98	16.67	341.46	[10]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[15]	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[17]
		07/01/99	16.79	341.30	ND	ND	ND	ND	ND	ND	ND/ND[17]
		09/30/99	17.60	340.49	ND	ND	ND	ND	ND	ND	ND/ND[17]
		01/03/00	18.86	339.23	ND	ND	ND	ND	ND	ND	ND/ND[17]
		04/04/00	**15.10**	**342.99**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND/ND[17]**
MW-4											
356.41		04/23/98	12.11	344.30	--/1,400[11]	2,500	5.9	6.4	16	31	ND[12]
		07/08/98	13.70	342.71	1,400[11]	1,000[13]	ND[12]	ND[12]	ND[12]	ND[12]	ND[12]

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)t (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	10/05/98	15.18	341.23	--/230[10]	890[16]	ND[12]	ND[12]	ND[12]	14	ND[12]
(cont)	01/04/99	16.39	340.02	[10]71/71[10]	230[22]	0.56	1.3	1.4	1.8	10
	04/05/99	14.61	341.80	[10]340/210[10]	620[23]	ND[12]	1.8	2.1	ND[12]	6.0/9.3[17]
	07/01/99	15.43	340.98	[24]260/310[26]	700[19]	2.1	ND[12]	1.9	2.4	[12]ND/21[17]
	09/30/99	16.27	340.14	[10]420/220[10]	582[27]	2.60	1.30	1.98	ND[12]	23.1/22.5[17]
	01/03/00	17.50	338.91	[26]250/260[26]	800[27]	4.2	4.6	3.3	11	31/17[17]
	04/04/00	**13.91**	**342.50**	**[10,15]460/340[26]**	**710[27]**	**2.0**	**1.3**	**4.4**	**2.0**	**21/22[17]**
MW-5										
355.03	04/23/98	11.15	343.88	--/100[11]	120	0.53	0.90	1.0	3.8	13
	07/08/98	12.63	342.40	170[10]	ND	ND	ND	ND	ND	12
	10/05/98	14.00	341.03	--/100[10]	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[17]
	07/01/99	14.48	340.55	ND	ND	ND	ND	ND	ND	[12]ND/2.3[17]
	09/30/99	15.15	339.88	[10]60.4/ND	50.8[27]	ND	ND	ND	ND	ND/ND[17]
	01/03/00	16.34	338.69	ND	ND	ND	ND	ND	ND	ND/ND[17]
	04/04/00	**12.90**	**342.13**	**[15]69/ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND/ND[17]**
Trip Blank										
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
	01/03/00	--	--	--	ND	ND	ND	ND	ND	ND
	04/04/00	**--**	**--**	**--**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

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

Well ID	Date	Ethanol (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)
U-1	04/05/99	ND[1]	ND[1]	55	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/01/99	ND	ND	110	ND	ND	ND	ND	ND
	09/30/99	ND[1]	ND[1]	195	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	01/03/00	ND	ND	120	ND	ND	ND	ND	ND
	04/04/00	**ND[1]**	**ND[1]**	**160**	**ND[1]**	**ND[1]**	**ND[1]**	**ND[1]**	**ND[1]**
U-2	04/05/99	ND[1]	ND[1]	6.9	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/01/99	ND	ND	35	ND	ND	ND	ND	ND
	09/30/99	ND	ND	29.8	ND	ND	ND	ND	ND
	01/03/00	ND	ND	14	ND	ND	ND	ND	ND
	04/04/00	**ND[1]**	**ND[1]**	**25**	**ND[1]**	**ND[1]**	**ND[1]**	**ND[1]**	**ND[1]**
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
	01/03/00	ND	ND	ND	ND	ND	ND	ND	ND
	04/04/00	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
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
	01/03/00	ND	ND	17	ND	ND	ND	ND	ND
	04/04/00	**ND**	**ND**	**22**	**ND**	**ND**	**ND**	**ND**	**ND**
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
	01/03/00	ND	ND	ND	ND	ND	ND	ND	ND
	04/04/00	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

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

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

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[1]	1.22	--
	10/30/96[1]	1.41	--
	01/27/97[1]	1.34	--
	04/08/97[1]	2.09	--
	07/17/97[1]	2.00	--
	10/17/97[1]	1.86	--
	01/19/98[1]	2.91	--
	04/23/98[1]	0.59	--
	07/08/98[1]	1.10	--
U-2	01/11/96	--	3.99
	04/11/96	3.32	3.41
	07/10/96[1]	1.01	--
	10/30/96[1]	1.42	--
	01/27/97[1]	1.29	--
	04/08/97[1]	1.69	--
	07/17/97[1]	2.08	--
	10/17/97[1]	1.80	--
	01/19/98[1]	2.95	--
	04/23/98[1]	0.55	--
	07/08/98[1]	1.36	--
U-3	01/11/96	--	5.05
	04/11/96	5.16	4.96
	07/10/96[1]	3.44	--
	10/30/96[1]	2.18	--
	01/27/97[1]	2.61	--
	04/08/97[1]	3.73	--
	07/17/97[1]	2.65	--
	10/17/97[1]	2.44	--
	01/19/98[1]	6.51	--
	04/23/98[1]	4.72	--
	07/08/98[1]	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

[1] 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 an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

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

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

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

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

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

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility: UNOCAL SS # 7176 (TOSCO) Job#: 180022

Address: 7850 AMADOR VALLEY ROAD Date: 4-4-00

City: DUBLIN, CA Sampler: STEVE RALIAN

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

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

Total Depth: 27.90 ft.

Depth to Water: 12.89 ft.

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

15.01 X VF 0.17 = 2.55 X 3 (case volume) = Estimated Purge Volume: 7.66 (gal.)

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

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

Starting Time: 15:39 Weather Conditions: SUNNY

Sampling Time: 16:00 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 µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
15:42	3	6.85	665	70.0			
15:44	5.5	6.84	686	69.8			
15:46	8	6.84	683	69.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-1	6 - VOA's	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe (6 - only)
U-1	1 - AMBER	Y	—	"	TPH-D (1 only) EDB

COMMENTS: _____

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WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility: UNOCAL SS # 7176 (TOSCO) Job#: 180022

Address: 7850 AMADOR VALLEY ROAD Date: 4-4-00

City: DUBLIN, CA Sampler: STEVE RALIAN

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

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

Total Depth: 26.50 ft.

Depth to Water: 13.50 ft.

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

13.00 X VF 0.17 = 2.21 X 3 (case volume) = Estimated Purge Volume: 6.63 (gal.)

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

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

Starting Time: 15:04 Weather Conditions: SUNNY

Sampling Time: 15:25 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 µmhos/cm	Temperature °F	D.O. (mg/L) *	ORP (mV)	Alkalinity (ppm)
15:06	2.5	6.89	810	70.6			
15:08	5	6.88	797	70.2			
15:10	7	6.87	785	70.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-2	6 - VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe 8260
U-2	1 - AMBER	Y	—	"	TPH-D 1,2 DCA EDB

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility: UNOCAL SS # 7176 (TOSCO) | Job#: 180022
Address: 7850 AMADOR VALLEY ROAD | Date: 4-4-00
City: DUBLIN, CA | Sampler: STEVE BALIAN

Well ID: U-3 | Well Condition: * ONE FLANGE IS BROKEN

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

Total Depth: 28.50 ft.

Depth to Water: 15.10 ft.

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

13.40 x VF 0.17 = 2.27 x 3 (case volume) = Estimated Purge Volume: 6.83 (gal.)

Purge Equipment: Disposable Bailer / Bailer / Stack / **Suction** (circled) / Grundfos / Other: ______

Sampling Equipment: **Disposable Bailer** (circled) / Bailer / Pressure Bailer / Grab Sample / Other: ______

Starting Time: 13:22 | Weather Conditions: SUNNY
Sampling Time: 13:40 | 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 µmhos/cm	Temperature •F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
13:24	2.5	6.90	792	74.3			
13:26	5	6.89	806	72.2			
13:28	7	6.89	814	71.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-3	5 - VOA's	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe / 6-oxy / 1,2
U-3	1-AMBER	Y	—	"	TPH-D / EDB

COMMENTS: * 8" (METAL)

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility UNOCAL SS # 7176 (TOSCO) Job#: 180022

Address: 7850 AMADOR VALLEY ROAD Date: 4-4-00

City: DUBLIN, CA Sampler: STEVE BALIAN

Well ID MW-4 Well Condition: O.K

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

Total Depth 25.50 ft.

Depth to Water 13.91 ft.

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

11.59 X VF 0.17 = 1.97 X 3 (case volume) = Estimated Purge Volume: 5.91 (gal.)

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

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

Starting Time: 14:29 Weather Conditions: SUNNY

Sampling Time: 14:50 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 µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:31	2	6.82	825	70.4			
14:33	4	6.83	820	69.8			
14:35	6	6.83	811	69.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 - VOA's	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe (6-VOA's)
MW-4	1-AMBER	Y	—	"	TPH-D EDB (620)

COMMENTS: _____

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WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility UNOCAL SS # 7176 (TOSCO) Job#: 180022

Address: 7850 AMADOR VALLEY ROAD Date: 4-4-00

City: DUBLIN, CA Sampler: STEVE RALIAN

Well ID MW-5 Well Condition: O.K

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

Total Depth 25.00 ft.

Depth to Water 12.90 ft.

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

12.10 X VF 0.17 = 2.06 X 3 (case volume) = Estimated Purge Volume: 6.17 (gal.)

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

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

Starting Time: 13:54 Weather Conditions: SUNNY

Sampling Time: 14:15 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 µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
13:56	2.5	6.90	817	70.6			
13:58	4.5	6.90	814	70.1			
14:00	6.5	6.90	807	70.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	5# - VOA's	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe (6-ox) / 1,2 DCA
MW-5	1-AMBER	Y	—	"	TPH-D EDB

COMMENTS: _____

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TOSCO

Tosco Marketing Company
2003 Cow Canyon Pl., Ste. 400
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 J, 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:
Samples Collected by (Name): STEVE RALIN
Collection Date: 4-4-00
Signature: STEVE RALIN

Sample Number	Lab Sample Number	Number of Containers	Matrix: S = Soil A = Air W = Water C = Charcoal	Type: G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	6 oxy's by 8260 & 1,2 DCA & EDB				DO NOT BILL TB-LB ANALYSIS Remarks
TB-LB		1	W	G		HCl	Y	X												Run Silica Gel
U-1		6	"	"	16:00	"	Y	X	X							X				clean-up on all
U-2		6	"	"	15:25	"	Y	X	X							X				Diesel hits.
U-3		6	"	"	13:40	"	Y	X	X							X				
MW-4		6	"	"	14:50	"	Y	X	X							X				
MW-5		6	"	"	14:15	"	Y	X	X							X				

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
STEVE RALIN	G-R Inc.	4-4-00 16:30		4/5/00	11:30
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W004100-01	Water	04-Apr-00 00:00	05-Apr-00 17:30
U-1	W004100-02	Water	04-Apr-00 16:00	05-Apr-00 17:30
U-2	W004100-03	Water	04-Apr-00 15:25	05-Apr-00 17:30
U-3	W004100-04	Water	04-Apr-00 13:40	05-Apr-00 17:30
MW-4	W004100-05	Water	04-Apr-00 14:50	05-Apr-00 17:30
MW-5	W004100-06	Water	04-Apr-00 14:15	05-Apr-00 17:30

Sequoia Analytical - Walnut Creek

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Charlie Westwater, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W004100-01) Water Sampled: 04-Apr-00 00:00 Received: 05-Apr-00 17:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	0D12002	12-Apr-00	12-Apr-00	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.3 %*	*70-130*		"	"	"	"	
U-1 (W004100-02) Water Sampled: 04-Apr-00 16:00 Received: 05-Apr-00 17:30									**P-01**
Purgeable Hydrocarbons	**4800**	1000	ug/l	20	0D13001	13-Apr-00	13-Apr-00	EPA	
Benzene	**30**	10	"	"	"	"	"	8015M/8020	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	**210**	10	"	"	"	"	"	"	
Xylenes (total)	**93**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**170**	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*70-130*		"	"	"	"	
U-2 (W004100-03) Water Sampled: 04-Apr-00 15:25 Received: 05-Apr-00 17:30									**P-01**
Purgeable Hydrocarbons	**3600**	1000	ug/l	20	0D13001	13-Apr-00	13-Apr-00	EPA	
Benzene	**34**	10	"	"	"	"	"	8015M/8020	
Toluene	**17**	10	"	"	"	"	"	"	
Ethylbenzene	**56**	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**59**	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*70-130*		"	"	"	"	

Charlie Westwater, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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
U-3 (W004100-04) Water Sampled: 04-Apr-00 13:40 Received: 05-Apr-00 17:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	0D12003	12-Apr-00	12-Apr-00	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.0 %*	*70-130*		"	"	"	"	
MW-4 (W004100-05) Water Sampled: 04-Apr-00 14:50 Received: 05-Apr-00 17:30									**P-01**
Purgeable Hydrocarbons	**710**	50	ug/l	1	0D12003	12-Apr-00	12-Apr-00	EPA	
Benzene	**2.0**	0.50	"	"	"	"	"	8015M/8020	
Toluene	**1.3**	0.50	"	"	"	"	"	"	
Ethylbenzene	**4.4**	0.50	"	"	"	"	"	"	
Xylenes (total)	**2.0**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**21**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*70.7 %*	*70-130*		"	"	"	"	
MW-5 (W004100-06) Water Sampled: 04-Apr-00 14:15 Received: 05-Apr-00 17:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	0D12001	12-Apr-00	12-Apr-00	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.7 %*	*70-130*		"	"	"	"	

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Charlie Westwater, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W004100-02) Water	**Sampled: 04-Apr-00 16:00**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	**990**	50	ug/l	1	0D18018	18-Apr-00	18-Apr-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		*61.0 %*	*50-150*		"	"	"	"	
U-2 (W004100-03) Water	**Sampled: 04-Apr-00 15:25**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	**1000**	50	ug/l	1	0D18018	18-Apr-00	18-Apr-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		*68.1 %*	*50-150*		"	"	"	"	
U-3 (W004100-04) Water	**Sampled: 04-Apr-00 13:40**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	ND	50	ug/l	1	0D18018	18-Apr-00	18-Apr-00	EPA 8015M	
Surrogate: n-Pentacosane		*79.0 %*	*50-150*		"	"	"	"	
MW-4 (W004100-05) Water	**Sampled: 04-Apr-00 14:50**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	**460**	50	ug/l	1	0D18018	18-Apr-00	18-Apr-00	EPA 8015M	D-06,D-14
Surrogate: n-Pentacosane		*91.0 %*	*50-150*		"	"	"	"	
MW-5 (W004100-06) Water	**Sampled: 04-Apr-00 14:15**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	**69**	50	ug/l	1	0D18018	18-Apr-00	18-Apr-00	EPA 8015M	D-06
Surrogate: n-Pentacosane		*101 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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
U-1 (W004100-02) Water	**Sampled: 04-Apr-00 16:00**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	**1400**	50	ug/l	1	0D25019	18-Apr-00	24-Apr-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		*50.2 %*	*50-140*		"	"	"	"	
U-2 (W004100-03) Water	**Sampled: 04-Apr-00 15:25**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	**1000**	50	ug/l	1	0D25019	18-Apr-00	24-Apr-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		*73.0 %*	*50-140*		"	"	"	"	
MW-4 (W004100-05) Water	**Sampled: 04-Apr-00 14:50**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	**340**	50	ug/l	1	0D25019	18-Apr-00	24-Apr-00	EPA 8015M	D-11
Surrogate: n-Pentacosane		*63.1 %*	*50-140*		"	"	"	"	
MW-5 (W004100-06) Water	**Sampled: 04-Apr-00 14:15**	**Received: 05-Apr-00 17:30**							
Diesel Range Hydrocarbons	ND	50	ug/l	1	0D25019	18-Apr-00	24-Apr-00	EPA 8015M	
Surrogate: n-Pentacosane		*105 %*	*50-140*		"	"	"	"	

Sequoia Analytical - Walnut Creek

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Charlie Westwater, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

Volatile Organic Compounds by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (W004100-02) Water Sampled: 04-Apr-00 16:00 Received: 05-Apr-00 17:30									
Ethanol	ND	2500	ug/l	5	0D04020	06-Apr-00	06-Apr-00	EPA 8260A	
tert-Butyl alcohol	ND	500	"	"	"	"	"	"	
Methyl tert-butyl ether	**160**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethylene dibromide	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*78.0 %*	*50-150*		"	"	"	"	
U-2 (W004100-03) Water Sampled: 04-Apr-00 15:25 Received: 05-Apr-00 17:30									
Ethanol	ND	2500	ug/l	5	0D04020	06-Apr-00	06-Apr-00	EPA 8260A	
tert-Butyl alcohol	ND	500	"	"	"	"	"	"	
Methyl tert-butyl ether	**25**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethylene dibromide	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*76.0 %*	*50-150*		"	"	"	"	
U-3 (W004100-04) Water Sampled: 04-Apr-00 13:40 Received: 05-Apr-00 17:30									
Ethanol	ND	500	ug/l	1	0D04020	06-Apr-00	06-Apr-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	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*74.0 %*	*50-150*		"	"	"	"	

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6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

Volatile Organic Compounds by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W004100-05) Water Sampled: 04-Apr-00 14:50 Received: 05-Apr-00 17:30									
Ethanol	ND	500	ug/l	1	0D04020	06-Apr-00	06-Apr-00	EPA 8260A	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**22**	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	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*74.0 %*	*50-150*		"	"	"	"	
MW-5 (W004100-06) Water Sampled: 04-Apr-00 14:15 Received: 05-Apr-00 17:30									
Ethanol	ND	500	ug/l	1	0D04020	06-Apr-00	06-Apr-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	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*72.0 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D12001: Prepared 12-Apr-00 Using EPA 5030B [P/T]										
Blank (0D12001-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 (0D12001-BS1)										
Benzene	16.3	0.50	ug/l	20.0		81.5	70-130			
Toluene	17.0	0.50	"	20.0		85.0	70-130			
Ethylbenzene	20.1	0.50	"	20.0		101	70-130			
Xylenes (total)	55.5	0.50	"	60.0		92.5	70-130			
Surrogate: a,a,a-Trifluorotoluene	*26.6*		"	*30.0*		*88.7*	*70-130*			
Matrix Spike (0D12001-MS1)					**Source: W004117-05**					
Benzene	18.3	0.50	ug/l	20.0	ND	91.5	70-130			
Toluene	19.1	0.50	"	20.0	ND	95.5	70-130			
Ethylbenzene	18.3	0.50	"	20.0	ND	91.5	70-130			
Xylenes (total)	61.6	0.50	"	60.0	ND	103	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.0*		"	*30.0*		*90.0*	*70-130*			
Matrix Spike Dup (0D12001-MSD1)					**Source: W004117-05**					
Benzene	17.3	0.50	ug/l	20.0	ND	86.5	70-130	5.62	20	
Toluene	17.9	0.50	"	20.0	ND	89.5	70-130	6.49	20	
Ethylbenzene	18.5	0.50	"	20.0	ND	92.5	70-130	1.09	20	
Xylenes (total)	58.7	0.50	"	60.0	ND	97.8	70-130	4.82	20	
Surrogate: a,a,a-Trifluorotoluene	*26.9*		"	*30.0*		*89.7*	*70-130*			

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6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D12002: Prepared 12-Apr-00 Using EPA 5030B [P/T]										
Blank (0D12002-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	*28.4*		"	*30.0*		*94.7*	*70-130*			
LCS (0D12002-BS1)										
Benzene	16.5	0.50	ug/l	20.0		82.5	70-130			
Toluene	17.4	0.50	"	20.0		87.0	70-130			
Ethylbenzene	18.2	0.50	"	20.0		91.0	70-130			
Xylenes (total)	54.7	0.50	"	60.0		91.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.4*		"	*30.0*		*94.7*	*70-130*			
LCS Dup (0D12002-BSD1)										
Benzene	18.1	0.50	ug/l	20.0		90.5	70-130	9.25	20	
Toluene	19.1	0.50	"	20.0		95.5	70-130	9.32	20	
Ethylbenzene	19.7	0.50	"	20.0		98.5	70-130	7.92	20	
Xylenes (total)	59.2	0.50	"	60.0		98.7	70-130	7.90	20	
Surrogate: a,a,a-Trifluorotoluene	*29.8*		"	*30.0*		*99.3*	*70-130*			
Batch 0D12003: Prepared 12-Apr-00 Using EPA 5030B [P/T]										
Blank (0D12003-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	*31.4*		"	*30.0*		*105*	*70-130*			

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6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D12003: Prepared 12-Apr-00 Using EPA 5030B [P/T]										
LCS (0D12003-BS1)										
Benzene	20.7	0.50	ug/l	20.0		104	70-130			
Toluene	21.0	0.50	"	20.0		105	70-130			
Ethylbenzene	21.2	0.50	"	20.0		106	70-130			
Xylenes (total)	61.0	0.50	"	60.0		102	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.8*		"	*30.0*		*96.0*	*70-130*			
Matrix Spike (0D12003-MS1)					**Source: W004084-01**					
Benzene	20.7	0.50	ug/l	20.0	ND	104	70-130			
Toluene	21.0	0.50	"	20.0	ND	105	70-130			
Ethylbenzene	21.1	0.50	"	20.0	ND	106	70-130			
Xylenes (total)	61.0	0.50	"	60.0	ND	102	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.6*		"	*30.0*		*92.0*	*70-130*			
Matrix Spike Dup (0D12003-MSD1)					**Source: W004084-01**					
Benzene	19.5	0.50	ug/l	20.0	ND	97.5	70-130	5.97	20	
Toluene	19.8	0.50	"	20.0	ND	99.0	70-130	5.88	20	
Ethylbenzene	19.7	0.50	"	20.0	ND	98.5	70-130	6.86	20	
Xylenes (total)	57.3	0.50	"	60.0	ND	95.5	70-130	6.26	20	
Surrogate: a,a,a-Trifluorotoluene	*27.1*		"	*30.0*		*90.3*	*70-130*			
Batch 0D13001: Prepared 13-Apr-00 Using EPA 5030B [P/T]										
Blank (0D13001-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	*30.2*		"	*30.0*		*101*	*70-130*			

Sequoia Analytical - Walnut Creek

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6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D13001: Prepared 13-Apr-00 Using EPA 5030B [P/T]										
LCS (0D13001-BS1)										
Benzene	18.6	0.50	ug/l	20.0		93.0	70-130			
Toluene	19.4	0.50	"	20.0		97.0	70-130			
Ethylbenzene	19.1	0.50	"	20.0		95.5	70-130			
Xylenes (total)	63.3	0.50	"	60.0		105	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.4*		"	*30.0*		*91.3*	*70-130*			
Matrix Spike (0D13001-MS1)					**Source: W004085-07**					
Benzene	16.9	0.50	ug/l	20.0	ND	84.5	70-130			
Toluene	17.5	0.50	"	20.0	ND	87.5	70-130			
Ethylbenzene	18.1	0.50	"	20.0	ND	90.5	70-130			
Xylenes (total)	57.2	0.50	"	60.0	ND	95.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*26.8*		"	*30.0*		*89.3*	*70-130*			
Matrix Spike Dup (0D13001-MSD1)					**Source: W004085-07**					
Benzene	17.1	0.50	ug/l	20.0	ND	85.5	70-130	1.18	20	
Toluene	17.8	0.50	"	20.0	ND	89.0	70-130	1.70	20	
Ethylbenzene	19.2	0.50	"	20.0	ND	96.0	70-130	5.90	20	
Xylenes (total)	58.4	0.50	"	60.0	ND	97.3	70-130	2.08	20	
Surrogate: a,a,a-Trifluorotoluene	*25.4*		"	*30.0*		*84.7*	*70-130*			

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6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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
Batch 0D18018: Prepared 18-Apr-00 Using EPA 3510B										
Blank (0D18018-BLK1)										
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	*40.0*		"	*33.3*		*120*	*50-150*			
LCS (0D18018-BS1)										
Diesel Range Hydrocarbons	525	50	ug/l	500		105	60-140			
Surrogate: n-Pentacosane	*40.0*		"	*33.3*		*120*	*50-150*			
LCS Dup (0D18018-BSD1)										
Diesel Range Hydrocarbons	343	50	ug/l	500		68.6	60-140	41.9	50	
Surrogate: n-Pentacosane	*35.0*		"	*33.3*		*105*	*50-150*			

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6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

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
Batch 0D25019: Prepared 18-Apr-00 Using EPA 3510B										
Blank (0D25019-BLK1)										
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	*29.3*		"	*33.3*		*88.0*	*50-140*			
LCS (0D25019-BS1)										
Diesel Range Hydrocarbons	260	50	ug/l	500		52.0	35-125			
Surrogate: n-Pentacosane	*31.0*		"	*33.3*		*93.1*	*50-140*			
LCS Dup (0D25019-BSD1)										
Diesel Range Hydrocarbons	310	50	ug/l	500		62.0	35-125	17.5	50	
Surrogate: n-Pentacosane	*31.0*		"	*33.3*		*93.1*	*50-140*			

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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
Batch 0D04020: Prepared 03-Apr-00 Using EPA 5030B [P/T]										
Blank (0D04020-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	"							
tert-Amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
Surrogate: Dibromofluoromethane	*46.0*		"	*50.0*		*92.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*39.0*		"	*50.0*		*78.0*	*50-150*			
Blank (0D04020-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	"							
tert-Amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
Surrogate: Dibromofluoromethane	*44.0*		"	*50.0*		*88.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*35.0*		"	*50.0*		*70.0*	*50-150*			
LCS (0D04020-BS1)										
Methyl tert-butyl ether	58.3	2.0	ug/l	50.0		117	70-130			
Surrogate: Dibromofluoromethane	*48.0*		"	*50.0*		*96.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*39.0*		"	*50.0*		*78.0*	*50-150*			

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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
Batch 0D04020: Prepared 06-Apr-00 Using EPA 5030B [P/T]										
LCS (0D04020-BS2)										
Methyl tert-butyl ether	51.2	2.0	ug/l	50.0		102	70-130			
Surrogate: Dibromofluoromethane	*43.0*		"	*50.0*		*86.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*34.0*		"	*50.0*		*68.0*	*50-150*			
Matrix Spike (0D04020-MS1)					**Source: W003692-01**					
Methyl tert-butyl ether	66.9	2.0	ug/l	50.0	5.8	122	60-150			
Surrogate: Dibromofluoromethane	*48.0*		"	*50.0*		*96.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*41.0*		"	*50.0*		*82.0*	*50-150*			
Matrix Spike Dup (0D04020-MSD1)					**Source: W003692-01**					
Methyl tert-butyl ether	72.1	2.0	ug/l	50.0	5.8	133	60-150	7.48	25	
Surrogate: Dibromofluoromethane	*49.0*		"	*50.0*		*98.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*42.0*		"	*50.0*		*84.0*	*50-150*			

This report represents a revision of the original document. The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Charlie Westwater, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Unocal	
6747 Sierra Court Suite J	Project Number: Unocal # 7176	**Report Revised:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	12-May-00 08:48

Notes and Definitions

D-06	Discrete peaks.
D-11	Chromatogram Pattern: Unidentified Hydrocarbons < C16
D-14	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
P-01	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Charlie Westwater, Project Manager