



GETTLER-RYAN INC.

TRANSMITTAL

RC 361

November 15, 1999

G-R #:180075

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

CC: Mr. David Vossler
Gettler-Ryan Inc.
Novato, California

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	Revised 11/15/99	Table 2 - {corrected page 1} to the Groundwater Monitoring and Sampling Report Second Quarter 1999 - Event of June 7, 1999 & Third Quarter 1999 - Event of September 3, 1999

COMMENTS:

Please find enclosed the corrected Table 2 for the Second and Third Quarter Monitoring & Sampling reports described above. The correction was made to the amount bailed for the June 7, 1999 event and therefore, needs to be replaced in both reports. I apologize for any inconvenience this error may have. Thank you.

Enclosures

cc: Mr. Scott Seery
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

99 NOV 17 PM 4:24

ENVIRONMENTAL PROTECTION

agency/7376cor.qmt



GETTLER-RYAN INC.

TRANSMITTAL

October 21, 1999

G-R #:180075

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

CC: Mr. David Vossler
Gettler-Ryan Inc.
Novato, California

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 20, 1999	Groundwater Monitoring and Sampling Report Third Quarter 1999 - Event of September 3, 1999

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 *November 3, 1999*, this report will be distributed to the following:

Enclosure

cc: Mr. Scott Seery
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

agency/7376dbd.qmt

NOV 4 4 27 PM '99

ENVIRONMENTAL PROTECTION



GETTLER - RYAN Inc.

October 20, 1999
G-R Job #180075

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

RE: Third Quarter 1999 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

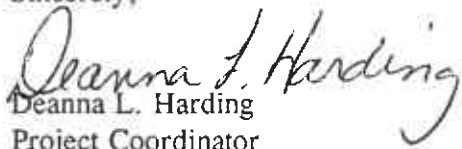
Dear Mr. De Witt:

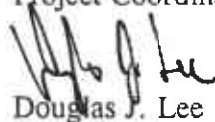
This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On September 3, 1999, field personnel monitored eight wells (MW-1, MW-2B and MW-3 through MW-8) and sampled six wells (MW-1, MW-2B, MW-3, MW-4, MW-7, and MW-8) at the above referenced site. One well (MW-6) had insufficient water to sample.

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

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1 and 3, and a Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,


Deanna L. Harding
Project Coordinator


Douglas J. Lee

Senior Geologist, R.G. No. 6882

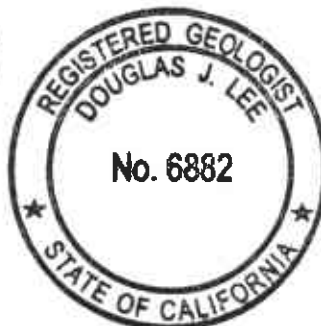


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Product Thickness/Removal Data
Table 3: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets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

7376.qml

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

Well ID	Date	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) gallons
MW-5	03/07/97	56.30	Sheen	--
	06/27/97	68.88	0.90	--
	09/29/97	69.47	0.35	--
	12/15/97	64.92	0.30	--
	03/16/98	49.63	0.09	0.25
	06/26/98	63.00	Sheen	--
	08/18/98	70.40	0.005	--
	09/22/98	69.10	0.06	--
	12/15/98	68.84	0.17	--
	12/23/98	68.42	0.50	--
	03/15/99	63.81	0.25	0.13
	03/23/99	63.59	0.13	0.00
	06/07/99	68.25	0.82	0.94

EXPLANATIONS:

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

DTW = Depth to water

(ft.) = Feet

-- = Not Measured/Not Available

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

Well ID	Date	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) gallons
MW-5	03/07/97	56.30	Sheen	--
	06/27/97	68.88	0.90	--
	09/29/97	69.47	0.35	--
	12/15/97	64.92	0.30	--
	03/16/98	49.63	0.09	0.25
	06/26/98	63.00	Sheen	--
	08/18/98	70.40	0.005	--
	09/22/98	69.10	0.06	--
	12/15/98	68.84	0.17	--
	12/23/98	68.42	0.50	--
	03/15/99	63.81	0.25	0.13
	03/23/99	63.59	0.13	0.00
	06/07/99	68.25	0.82	0.94
	09/03/99	69.38	0.70	0.078

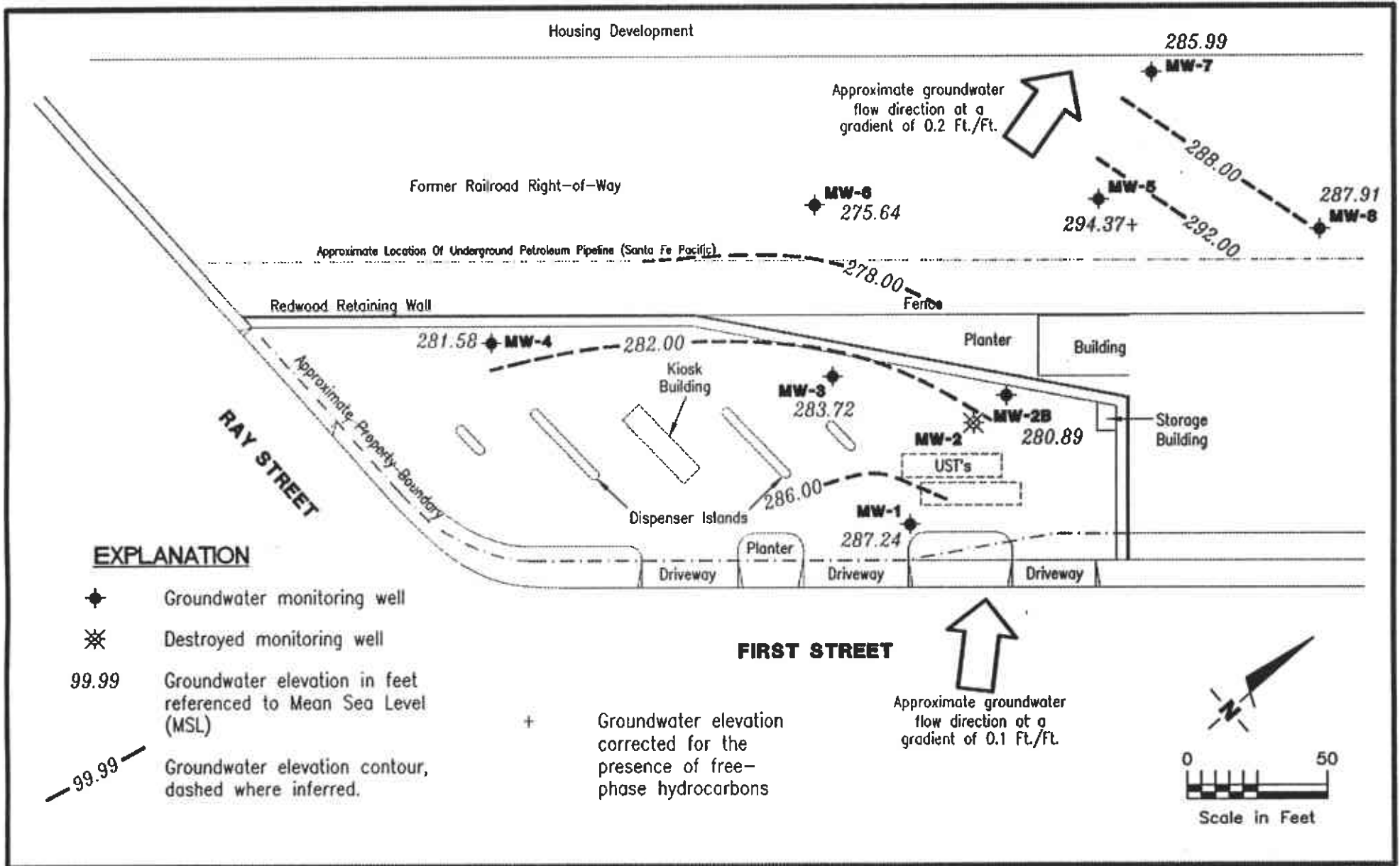
EXPLANATIONS:

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

DTW = Depth to water

(ft.) = Feet

-- = Not Measured/Not Available



Gettler - Ryan Inc.

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

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

FIGURE 1

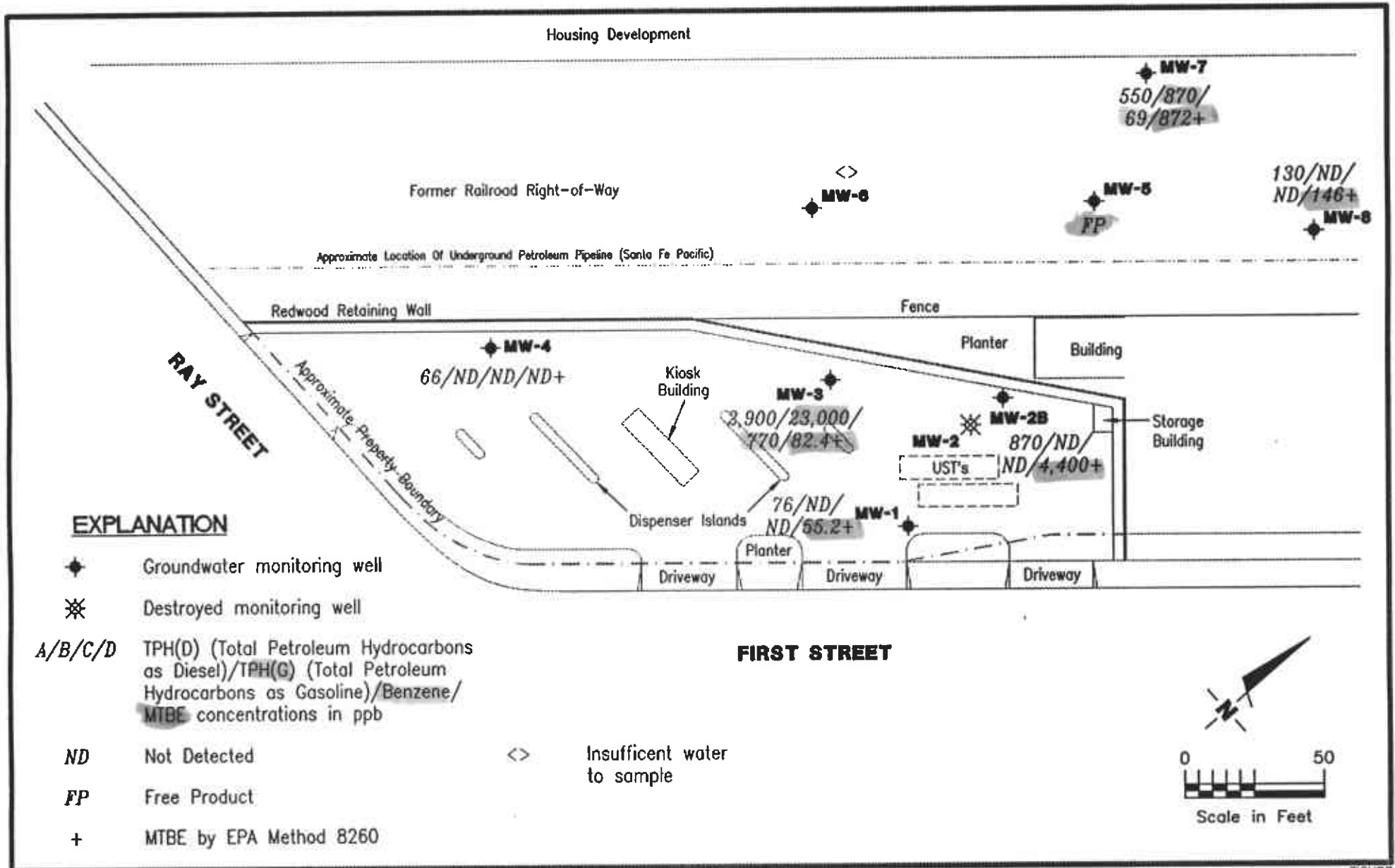
JOB NUMBER
180075

REVIEWED BY

DATE
September 3, 1999

REVISED DATE

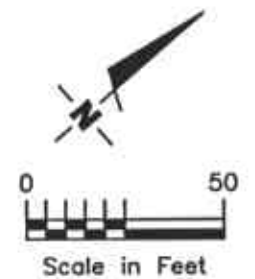
Housing Development



EXPLANATION

- ◆ Groundwater monitoring well
- ✱ Destroyed monitoring well
- A/B/C/D TPH(D) (Total Petroleum Hydrocarbons as Diesel)/TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- ND Not Detected
- FP Free Product
- + MTBE by EPA Method 8260

<> Insufficient water to sample



Gettler - Ryan Inc.

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

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

FIGURE

2

JOB NUMBER
180075

REVIEWED BY

DATE
September 3, 1999

REVISED DATE

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	12/08/87 ¹	--	--	--	2,100 ²	50 ³	58	8.0	ND	10	--
366.99	12/07/94	81.04	285.95	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	80.09	286.90	0.00	120	ND	ND	1.1	ND	1.3	--
	06/01/95	77.53	289.46	0.00	54 ⁵	130	1.0	2.9	0.79	4.5	--
	09/06/95	79.00	287.99	0.00	690	ND	ND	ND	ND	ND	-- ⁶
	12/12/95	77.55	289.44	0.00	190 ⁵	ND	ND	ND	ND	ND	--
	03/01/96	75.09	291.90	0.00	56	ND	ND	ND	ND	ND	370
	06/15/96	75.07	291.92	0.00	ND	ND	ND	ND	ND	ND	270
	09/18/96	79.90	287.09	0.00	130 ⁵	ND	ND	ND	ND	ND	590
	12/21/96	78.96	288.03	0.00	ND	ND	ND	ND	ND	ND	150
	03/07/97	71.49	295.50	0.00	ND	ND	ND	ND	ND	ND	220
	06/27/97	80.05	286.94	0.00	ND	ND	ND	ND	ND	ND	17
	09/29/97	80.04	286.95	0.00	ND	ND	ND	ND	ND	ND	24
	12/15/97	80.07	286.92	0.00	ND	ND	ND	ND	ND	ND	25
	03/16/98	71.00	295.99	0.00	ND	ND	ND	0.52	ND	0.71	190
366.98	06/26/98	79.29	287.69	0.00	ND	59 ¹³	0.90	ND	ND	ND	570
	08/18/98	79.93	287.05	0.00	--	--	--	--	--	--	--
	09/22/98	79.99	286.99	0.00	240 ²⁰	ND	ND	ND	ND	ND	170
	12/15/98	80.02	286.96	0.00	ND	ND	ND	ND	ND	ND	63
	12/23/98	80.02	286.96	0.00	--	--	--	--	--	--	--
	03/15/99	78.95	288.03	0.00	67 ²⁴	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	520
	03/23/99	78.69	288.29	0.00	--	--	--	--	--	--	--
	06/07/99	79.82	287.16	0.00	ND	ND	ND	ND	ND	ND	310
	09/03/99	79.74	287.24	0.00	76 ¹⁹	ND	ND	ND	ND	ND	67/55.2 ²⁷
MW-2	12/08/87				620 ²	1,800 ³	910	800	260	1,200	--
	12/07/94	DAMAGED	--	--	--	--	--	--	--	--	--
	02/07/95	DESTROYED	--	--	--	--	--	--	--	--	--
MW-2B											
365.05	03/01/95	80.80	284.25	0.00	320	ND	ND	ND	ND	ND	--
	06/01/95	75.69	289.36	0.00	280	350	19	5.8	ND	7.7	--
	09/06/95	77.54	287.51	0.00	ND	ND	90	ND	ND	ND	-- ⁶

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2B	12/12/95	75.96	289.09	0.00	850 ⁴	1,200	630	ND	15	57	-- ⁷
(cont)	03/01/96	73.27	291.78	0.00	870 ⁴	1,000	620	ND	ND	5.3	4,300
	06/15/96	73.21	291.84	0.00	420	910	350	ND	ND	ND	3,700
	09/18/96	81.08	283.97	0.00	600	1,200	95	ND	ND	ND	5,200
	12/21/96	77.35	287.70	0.00	470	330 ⁸	57	ND	ND	ND	2,900
	03/07/97	69.67	295.38	Sheen	870 ⁴	190	28	0.64	ND	1.5	4,300
	06/27/97	82.40	282.65	0.00	680 ⁴	98	3.4	1.0	0.53	ND	3,100
	09/29/97	82.72	282.33	0.00	430	ND	ND	ND	ND	ND	3,000
	12/15/97	82.57	282.48	0.00	490	54 ⁹	ND	ND	ND	ND	4,100
	03/16/98	69.13	295.92	Sheen	4,000 ¹⁰	ND ¹¹	17	ND ¹¹	ND ¹¹	ND ¹¹	4,400
365.05	06/26/98	77.78	287.27	0.00	790 ¹⁴	ND	ND	ND	ND	ND	4,000
	08/18/98	83.99	281.06	0.00	--	--	--	--	--	--	--
	09/22/98	83.89	281.16	0.00	930 ²⁰	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	21	4,600
	12/15/98	82.84	282.21	0.00	600	ND	ND	ND	ND	ND	5,100
	12/23/98	82.55	282.50	0.00	--	--	--	--	--	--	--
	03/15/99	77.31	287.74	0.00	390 ²⁵	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	4,300/4,800 ²⁷
	03/23/99	77.06	287.99	0.00	--	--	--	--	--	--	--
	06/07/99	82.96	282.09	0.00	770 ²⁵	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	5,100
	09/03/99	84.16	280.89	0.00	870 ²⁰	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	6,300/4,400 ²⁷
MW-3	12/08/87	--	--	--	2,300 ²	24,000 ³	2,600	1,300	160	660	--
367.01	12/07/94	85.54	281.47	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	83.20	283.81	0.00	140 ⁴	ND	ND	1.1	ND	1.1	--
	06/01/95	77.60	289.41	0.00	140 ⁵	62	7.8	0.90	ND	1.6	--
	09/06/95	79.28	287.73	0.00	880 ⁵	4,100	380	490	130	710	-- ⁶
	12/12/95	77.73	289.28	0.00	3,100 ⁴	19,000	600	380	2,100	5,300	-- ⁷
	03/01/96	75.18	291.83	0.00	1,500 ⁵	3,400	950	3.2	1,900	290	59
	06/15/96	75.13	291.88	0.00	400 ⁴	780	190	8.8	3.8	4.0	630
	09/18/96	82.84	284.17	0.00	170	2,800	340	12	11	110	2,500
	12/21/96	79.29	287.72	0.00	64 ⁴	51	1.3	ND	ND	0.53	20
	03/07/97	71.58	295.43	0.00	570 ⁴	1,400	53	14	29	68	220
	06/27/97	83.27	283.74	0.00	ND	ND	ND	ND	ND	ND	27
	09/29/97	83.33	283.68	0.00	ND	ND	ND	ND	ND	ND	11

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	12/15/97	83.35	283.66	0.00	ND	ND	ND	ND	ND	ND	19
(cont)	03/16/98	71.07	295.94	0.00	670 ¹⁰	130 ¹²	6.5	1.9	1.5	1.6	210
367.03	06/26/98	79.65	287.38	0.00	63 ¹³	400 ¹⁵	15	ND ¹¹	ND ¹¹	1.9	490
	08/18/98	83.29	283.74	0.00	--	--	--	--	--	--	--
	09/22/98	83.33	283.70	0.00	95 ²⁰	ND	ND	ND	ND	ND	24
	12/15/98	83.29	283.74	0.00	ND	ND	ND	ND	ND	ND	18
	12/23/98	83.28	283.75	0.00	--	--	--	--	--	--	--
	03/15/99	79.19	287.84	0.00	3,500 ²⁶	26,000	3,100	270	2,200	3,100	1,300
	03/23/99	78.92	288.11	0.00	--	--	--	--	--	--	--
	06/07/99	83.22	283.81	0.00	ND	ND	ND	ND	0.63	ND	29
	09/03/99	83.31	283.72	0.00	2,900 ²⁰	23,000 ³⁰	770	ND ¹¹	980	6,400	280/82.4 ²⁷
MW-4											
369.03	09/18/96	73.67	295.36	0.00	200	160	14	ND	ND	1.6	ND
	12/21/96	77.69	291.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/07/97	68.04	300.99	0.00	ND	ND	1.9	0.99	ND	1.5	ND
	06/27/97	79.06	289.97	0.00	ND	ND	ND	ND	ND	ND	ND
	09/29/97	85.83	283.20	0.00	ND	ND	ND	ND	ND	ND	ND
	12/15/97	87.26	281.77	0.00	ND	ND	ND	ND	ND	ND	ND
	03/16/98	75.09	293.94	0.00	ND	ND	ND	0.69	ND	0.82	ND
368.81	06/26/98	73.81	295.00	0.00	630 ¹⁶	100 ¹³	62	ND	ND	ND	ND
	08/18/98	78.75	290.06	0.00	--	--	--	--	--	--	--
	09/22/98	83.95	284.86	0.00	74 ²⁰	ND	ND	ND	ND	ND	2.8
	12/15/98	85.41	283.40	0.00	ND	ND	ND	ND	ND	ND	ND
	12/23/98	84.95	283.86	0.00	--	--	--	--	--	--	--
	03/15/99	78.47	290.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/23/99	77.37	291.44	0.00	--	--	--	--	--	--	--
	06/07/99	76.60	292.21	0.00	ND	ND	ND	ND	ND	ND	ND
	09/03/99	87.23	281.58	0.00	66 ¹⁹	ND	ND	ND	ND	ND	ND/ND ²⁷
MW-5											
363.23	09/18/96	64.20	299.03	0.00	4,700 ⁵	36,000	6,700	410	730	6,500	4,100
	12/21/96	61.77	301.46	Sheen	4,700 ⁴	25,000	3,200	300	780	3,600	2,600

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	03/07/97	56.30	306.93	Sheen	2,100 ⁴	14,000	1,300	120	410	1,200	1,700
(cont)	06/27/97	68.88	295.03**	0.90	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	09/29/97	69.47	294.02**	0.35	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/15/97	64.92	298.53**	0.30	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	03/16/98	49.63	313.67**	0.09	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
363.21	06/26/98	64.13	299.08	Sheen	230,000 ¹⁷	490 ¹⁸	6.3	2.8	4.2	5.1	10
	08/18/98	70.40	292.81**	0.005	--	--	--	--	--	--	--
	09/22/98	69.10	294.16**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/15/98	68.84	294.50**	0.17	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/23/98	68.42	295.18**	0.50	--	--	--	--	--	--	--
	03/15/99	63.81	299.59**	0.25	--	--	--	--	--	--	--
	03/23/99	63.59	299.72**	0.13	--	--	--	--	--	--	--
	06/07/99	68.25	295.59**	0.82	4,700,000 ²⁶	210,000	6,700	3,700	5,000	20,000	11,000/4,000 ²⁷
	09/03/99	69.38	294.37**	0.70	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
MW-6											
363.12	09/18/96	79.07	284.05	0.00	ND	160	5.4	ND	ND	ND	ND
	12/21/96	75.40	287.72	0.00	ND	300 ⁸	96	1.3	ND	1.7	21
	03/07/97	67.61	295.51	0.00	190 ⁴	1,800 ⁸	920	18	ND	31	290
	06/27/97	80.45	282.67	0.00	73 ⁵	ND	0.73	ND	ND	38	38
	09/29/97	86.02	277.10	0.00	ND	62 ⁹	ND	ND	ND	ND	43
	12/15/97	84.03	279.09	0.00	ND	78 ⁹	ND	ND	ND	ND	39
	03/16/98	67.15	295.97	0.00	100 ¹⁰	210 ¹²	36	2.5	ND	3.0	64
363.13	06/26/98	75.71	287.42	0.00	180 ¹⁴	530	300	8.3	2.8	8.7	81
	08/18/98	74.86	288.27	0.00	--	--	--	--	--	--	--
	09/22/98	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
	12/15/98	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
	12/23/98	80.80	282.33	0.00	--	120 ²³	1.1	ND	ND	0.78	25
	01/23/99	80.68	282.45	0.00	ND	--	--	--	--	--	--
	03/15/99	75.29	287.84	0.00	71 ²⁴	62 ²²	1.4	ND	ND	ND	23
	03/23/99	75.03	288.10	0.00	--	--	--	--	--	--	--
	06/07/99	82.27	280.86	0.00	160 ²⁸	ND	ND	ND	ND	ND	18
	09/03/99	87.49	275.64	0.00	INSUFFICIENT WATER TO SAMPLE			--	--	--	--

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7											
355.97	06/26/98	--	--	--	--	--	--	--	--	--	--
	08/18/98	68.75	287.22	0.00	1,400 ²⁰	4,000	1,900	48	160	ND ¹¹	1,700
	09/22/98	66.35	289.62	0.00	780 ²⁰	3,200	1,100	ND	22	ND	1,500
	12/15/98	65.03	290.94	0.00	350 ²¹	1,900 ²²	180	2.7	2.9	3.8	1,400
	12/23/98	64.82	291.15	0.00	--	--	--	--	--	--	--
	03/15/99	60.44	295.53	0.00	460 ²⁶	2,700	1,100	ND ¹¹	30	16	1,400/970 ²⁷
	03/23/99	60.43	295.54	0.00	--	--	--	--	--	--	--
	06/07/99	64.48	291.49	0.00	550 ²⁵	2,600 ²⁹	180	21	ND	13	1,200
	09/03/99	69.98	285.99	0.00	550 ²⁰	870 ³⁰	69	ND ¹¹	ND ¹¹	ND ¹¹	1,100/872 ²⁷
MW-8											
362.37	06/26/98	63.00	299.37	0.00	80 ¹⁹	ND	6.0	ND	ND	ND	150
	08/18/98	73.38	288.99	0.00	--	--	--	--	--	--	--
	09/22/98	70.89	291.48	0.00	120 ²⁰	ND	ND	ND	ND	ND	9.5
	12/15/98	70.29	292.08	0.00	ND	ND	ND	ND	ND	ND	3.0
	12/23/98	70.03	292.34	0.00	--	--	--	--	--	--	--
	03/15/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
361.83	03/23/99	64.86	296.97	0.00	60 ²⁴	ND	ND	0.77	ND	0.96	190
	06/07/99	68.30	293.53	0.00	ND	ND	ND	ND	ND	ND	ND
	09/03/99	73.92	287.91	0.00	130 ¹⁹	ND	ND	0.57	ND	ND	170/146 ²⁷

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

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product							MTBE (ppb)	
				Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)		
Trip Blank												
TB-LB	03/16/98	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	06/26/98	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	08/18/98	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	09/22/98	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	12/15/98	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	12/23/98	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	03/15/99	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	03/23/99	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	06/07/99	--	--	--	--	ND	ND	ND	ND	ND	ND	ND
	09/03/99	--	--	--	--	ND	ND	ND	ND	ND	ND	ND

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

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 16, 1998, were compiled from reports prepared by MPDS Services, Inc.

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

* TOC elevations have been surveyed relative to mean sea level (msl) per City of Pleasanton Benchmark V1, a brass disk on the north curb of Ray Street, approximately 200 feet northwest of the centerline of First Street (Elevation = 367.17 feet msl). On March 22, 1999, MW-8 was re-surveyed, the Benchmark was a cut "+" on a concrete transformer pad on the north side of the property to the northwest (Elevation = 353.92 feet, msl).

** Groundwater elevation corrected for the presence of free product; correction factor = [(TOC-DTW)+(Product Thickness x 0.75)].

- 1 1,2-Dichloroethene (1,2-DCE) was detected at a concentration of 18 ppb.
- 2 Reported as Total Extractable Hydrocarbons (TEH).
- 3 Reported as Total Petroleum Hydrocarbons (TPH).
- 4 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- 5 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 6 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- 7 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 8 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 9 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 10 Laboratory report indicates diesel and unidentified hydrocarbons > C16.
- 11 Detection limit raised. Refer to analytical reports.
- 12 Laboratory report indicates gasoline and unidentified hydrocarbons < C7.
- 13 Laboratory report indicates discrete peaks.
- 14 Laboratory report indicates diesel and unidentified hydrocarbons > C20.
- 15 Laboratory report indicates discrete peaks and unidentified hydrocarbons < C7.
- 16 Laboratory report indicates diesel and unidentified hydrocarbons < C15.
- 17 Laboratory report indicates diesel and unidentified hydrocarbons < C15 and > C20.
- 18 Laboratory report indicates gasoline and unidentified hydrocarbons > C8.
- 19 Laboratory report indicates unidentified hydrocarbons > C16.
- 20 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 21 Laboratory report indicates diesel and unidentified hydrocarbons < C12.
- 22 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 23 Laboratory report indicates unidentified hydrocarbons C6-C9.

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

- 24 Laboratory report indicates unidentified hydrocarbons > C14.
- 25 Laboratory report indicates unidentified hydrocarbons > C10.
- 26 Laboratory report indicates unidentified hydrocarbons > C9.
- 27 MTBE by EPA Method 8260.
- 28 Laboratory report indicates unidentified hydrocarbons > C15.
- 29 Laboratory report indicates gasoline and unidentified hydrocarbons > C6.
- 30 Laboratory report indicates gasoline C6-C12.

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

Well ID	Date	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) gallons
MW-5	03/07/97	56.30	Sheen	--
	06/27/97	68.88	0.90	--
	09/29/97	69.47	0.35	--
	12/15/97	64.92	0.30	--
	03/16/98	49.63	0.09	0.25
	06/26/98	63.00	Sheen	--
	08/18/98	70.40	0.005	--
	09/22/98	69.10	0.06	--
	12/15/98	68.84	0.17	--
	12/23/98	68.42	0.50	--
	03/15/99	63.81	0.25	0.13
	03/23/99	63.59	0.13	0.00
	06/07/99	68.25	0.82	10.66
	09/03/99	69.38	0.70	0.078

over bailed?

)?

EXPLANATIONS:

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

DTW = Depth to water

(ft.) = Feet

-- = Not Measured/Not Available

Table 3
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

Well ID	Date	Ethanol (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1	09/03/99	ND	ND	55.2	ND	ND	ND
MW-2B	03/15/99	ND	3,800	4,800	13	ND	ND
	09/03/99	ND ²	3,480	4,400	ND ²	ND ²	ND ²
MW-3	09/03/99	ND	ND	82.4	ND	ND	ND
MW-4	09/03/99	ND	ND	ND	ND	ND	ND
MW-5	06/07/99	ND ²	ND ²	4,000 ¹	ND ²	ND ²	ND ²
	09/03/99	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				-	-
MW-7	03/15/99	ND	610	970	4.3	ND	ND
	09/03/99	ND ²	460	872	4.36	ND ²	ND ²
MW-8	09/03/99	ND	ND	146	12.4	ND	ND

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, 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
ppb = Parts per billion
-- = Not Analyzed
ND = Not Detected

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

- ¹ Laboratory results indicate sample contains high concentration of Hexane.
- ² Detection limit raised. Refer to analytical reports.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using 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 # Tosco 7376
 Address: 4191 First St.
 City: Pleasanton

Job#: 180075
 Date: 9/3/99
 Sampler: Nantke

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 86.43 ft.
 Depth to Water: 79.74 ft.

Well Condition: OK
 Hydrocarbon Thickness: 0 (feet) Amount Bailed (Gallons)
 Volume Factor (VF):
 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

6.69 x VF 0.17 = 1.13 x 3 (case volume) = Estimated Purge Volume: 3.41 (gal.)

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

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

Starting Time: 11:10
 Sampling Time: 11:30
 Purging Flow Rate: 1 gpm.
 Did well de-water? no

Weather Conditions: clear
 Water Color: clear Odor: no
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:11</u>	<u>1</u>	<u>7.60</u>	<u>6.09</u>	<u>70.3</u>			
<u>11:13</u>	<u>2</u>	<u>7.46</u>	<u>7.95</u>	<u>69.9</u>			
<u>11:14</u>	<u>3.5</u>	<u>7.41</u>	<u>7.89</u>	<u>70.0</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-1</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>"</u>	<u>TPH-D</u>

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376
Address: 4191 First St.
City: Pleasanton

Job#: 180075
Date: 9/3/99
Sampler: Nantke

Well ID: MW-2B
Well Diameter: 2 in.
Total Depth: 85.25 ft.
Depth to Water: 84.16 ft.

Well Condition: OK
Hydrocarbon Thickness: φ (feet) Amount Bailed (Gallons)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

1.09 x VF 0.17 = 0.18 x 3 (case volume) = Estimated Purge Volume: 0.55 (gal.)

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

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

Starting Time: 12:32
Sampling Time: 12:50
Purging Flow Rate: _____ gpm.
Did well de-water? no

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

Time	Volume (gal.)	pH	Conductivity (µmhos/cm x 100)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:35</u>	<u>3.28</u>	<u>7.46</u>	<u>5.60</u>	<u>69.2</u>			
<u>12:40</u>	<u>0.5</u>	<u>7.33</u>	<u>5.48</u>	<u>69.4</u>			
<u>12:45</u>	<u>1</u>	<u>7.28</u>	<u>5.51</u>	<u>69.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2B</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/bTEX/mtbe</u>
<u>MW-2B</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>"</u>	<u>TPH-D</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco 7376 Job#: 180075
 Address: 4191 First st. Date: 9/3/99
 City: Pleasanton Sampler: Vantek

Well ID MW-3 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)
 Total Depth 94.11 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 83.31 ft. Factor (VF) 6" = 1.50 12" = 5.80

10.80 x VF 0.17 = 1.83 x 3 (case volume) = Estimated Purge Volume: 5.5 gal.

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

Starting Time: 10:32 Weather Conditions: clear
 Sampling Time: 10:55 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:34</u>	<u>2</u>	<u>7.67</u>	<u>6.02</u>	<u>69.7</u>	_____	_____	_____
<u>10:36</u>	<u>4</u>	<u>7.45</u>	<u>5.87</u>	<u>69.3</u>	_____	_____	_____
<u>10:38</u>	<u>6</u>	<u>7.42</u>	<u>5.81</u>	<u>69.3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/bTEX/mtbe</u>
<u>MW-3</u>	<u>1 Amber</u>	<u>-</u>	<u>NONE</u>	<u>-</u>	<u>TPH-D</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

FIELD DATA SHEET

Client/ Facility # Tosco 7376
 Address: 4191 First St.
 City: Pleasanton

Job#: 180075
 Date: 9/3/99
 Sampler: Nantke

Well ID MW-4
 Well Diameter 2 in.
 Total Depth 93.01 ft.
 Depth to Water 87.23 ft.

Well Condition: OK
 Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

5.78 x VF 0.17 = 0.98 x 3 (case volume) = Estimated Purge Volume: 2.94 (gal.)

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

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

Starting Time: 10:00
 Sampling Time: 10:20
 Purging Flow Rate: 1 gpm.
 Did well de-water? no

Weather Conditions: clear
 Water Color: clear Odor: no
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:01	1	7.63	6.12	68.7			
10:02	2	7.50	5.94	69.1			
10:04	3	7.48	5.90	69.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-4	1 Amber	~	NONE	"	TPH-D

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco 7376 Job#: 180075
 Address: 4191 First St. Date: 9/3/99
 City: Pleasanton Sampler: Vantek

Well ID MW-5 Well Condition: φ
 Well Diameter 2 in. Hydrocarbon Thickness: 0.70 Feet Amount Bailed (product/water): 100% *estimated* (Gallons)
 Total Depth 72.52 ft.
 Depth to Water 69.38 ft.

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>3 VOA</u>		<u>HCl</u>	<u>SECUGIA</u>	<u>TPH(GI)/hex/mtbe</u>

COMMENTS: Free Product - dark Brown.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco # 7376
 Address: 4191 First St.
 City: Pleasanton

Job#: 180075
 Date: 9/3/99
 Sampler: Vantke

Well ID MW-6

Well Condition: OK

Well Diameter 2 in.

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

Total Depth 88.00 ft.

Depth to Water 87.49 ft.

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

0.51 x VF 0.17 = 0.08 x 3 (case volume) = Estimated Purge Volume: 0.26 (gal.)

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

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

Starting Time: _____

Weather Conditions: _____

Sampling Time: _____

Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3-VOA	Y	HCl	SEQUOIA	TPH/GI/hrex/mtbe
MW-	1 Amber	Y	NONE	"	TPH-D

COMMENTS: Insufficient water to sample.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco 7376
 Address: 4191 First st.
 City: Pleasanton

Job#: 180075
 Date: 9/3/99
 Sampler: Nantke

Well ID HW-7

Well Condition: OK

Well Diameter 2 in.

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

Total Depth 76.90 ft.

Depth to Water 69.98 ft.

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

6.92 x VF 0.17 = 1.17 x 3 (case volume) = Estimated Purge Volume: 3.53 (gal.)

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

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

Starting Time: 11:52
 Sampling Time: 12:15
 Purging Flow Rate: 1 gpm.
 Did well de-water? NO

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:54</u>	<u>1</u>	<u>7.20</u>	<u>5.76</u>	<u>70.9</u>			
<u>11:55</u>	<u>2.5</u>	<u>7.38</u>	<u>5.63</u>	<u>70.3</u>			
<u>11:57</u>	<u>4</u>	<u>7.35</u>	<u>5.58</u>	<u>70.1</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>MW-7</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>~</u>	<u>TPH-D</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # Tosco 7376
 Address: 4191 First st.
 City: Pleasanton

Job#: 180075
 Date: 9/3/99
 Sampler: Vantek

Well ID MW-8
 Well Diameter 2 in.
 Total Depth 86.40 ft.
 Depth to Water 73.92 ft.

Well Condition: OK
 Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

12.48 x VF 0.17 = 2.12 x 3 (case volume) = Estimated Purge Volume: 6.36 (gal.)

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

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

Starting Time: 9:25
 Sampling Time: 9:47
 Purging Flow Rate: 1 gpm.
 Did well de-water? no

Weather Conditions: overcast
 Water Color: brn Odor: no
 Sediment Description: silt
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:27</u>	<u>2</u>	<u>7.70</u>	<u>7.28</u>	<u>67.8</u>	_____	_____	_____
<u>9:29</u>	<u>4</u>	<u>7.54</u>	<u>7.20</u>	<u>68.3</u>	_____	_____	_____
<u>9:32</u>	<u>6.5</u>	<u>7.49</u>	<u>7.13</u>	<u>68.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 VOA</u>	<u>Y</u>	<u>HCl</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-8</u>	<u>1 Amber</u>	<u>~</u>	<u>NONE</u>	<u>~</u>	<u>TPH-D</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____



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

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

Contact (Name) DAVID DEWITT
 (Phone) (916) 277-2324
 Laboratory Name Sequoia Analytical
 Laboratory Release Number _____
 Samples Collected by (Name) Vartkes Tashjian
 Collection Date 9/3/99
 Signature David Dewitt

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type C = Grab D = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											DO NOT BILL TB-LB ANALYSIS	Remarks					
								TPH C- + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (104P or AA)	8260-Oxy's (6)									
TB-LB		1	W	C		HCl	Y	X																	
MW-1		4	W	C	11:30 AM		Y	X	X																Amended
MW-2B		4	W	C	12:30 PM		Y	X	X																COC adding
MW-3		4	W	C	10:30 AM		Y	X	X																8260 Oxy's
MW-4		4	W	C	10:30 AM		Y	X	X																JW 9/15/99
MW-7		4	W	C	12:30 PM		Y	X	X																
MW-8		4	W	C	4:30 PM		Y	X	X																

Delivered By (Signature) <u>David Dewitt</u>	Organization G-R Inc.	Date/Time 9/3/99 3:30 PM	Received By (Signature) <u>[Signature]</u>	Organization SEQUOIA	Date/Time 9/3/99 1730	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Delivered By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Delivered By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time	



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

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

Project: Tosco
Project Number: Tosco (Unocal) # 7376
Project Manager: Deanna L. Harding

Reported:
28-Sep-99 12:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W909135-01	Water	03-Sep-99 00:00	03-Sep-99 17:30
MW-1	W909135-02	Water	03-Sep-99 11:30	03-Sep-99 17:30
MW-2B	W909135-03	Water	03-Sep-99 12:50	03-Sep-99 17:30
MW-3	W909135-04	Water	03-Sep-99 10:55	03-Sep-99 17:30
MW-4	W909135-05	Water	03-Sep-99 10:20	03-Sep-99 17:30
MW-7	W909135-06	Water	03-Sep-99 12:15	03-Sep-99 17:30
MW-8	W909135-07	Water	03-Sep-99 09:47	03-Sep-99 17:30

Julianne Pegley, Project Manager



Sequoia Analytical

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404 N. Wiget Lane
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1551 Industrial Road

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

Project: Tosco
Project Number: Tosco (Unocal) # 7376
Project Manager: Deanna L. Harding

Reported:
28-Sep-99 12:17

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 (W909135-01) Water Sampled: 03-Sep-99 00:00 Received: 03-Sep-99 17:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	9114016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
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>		117 %	70-130	"	"	"	"	"	
MW-1 (W909135-02) Water Sampled: 03-Sep-99 11:30 Received: 03-Sep-99 17:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	9114016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	67	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.7 %	70-130	"	"	"	"	"	
MW-2B (W909135-03) Water Sampled: 03-Sep-99 12:50 Received: 03-Sep-99 17:30									
Purgeable Hydrocarbons	ND	500	ug/l	10	9114016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	6300	250	"	100	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93.3 %	70-130	"	"	"	"	"	

Sequoia Analytical - Walnut Creek

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Julianne Regley, Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

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(650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

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

Project: Tosco
Project Number: Tosco (Unocal) # 7376
Project Manager: Deanna L. Harding

Reported:
28-Sep-99 12:17

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W909135-04) Water Sampled: 03-Sep-99 10:55 Received: 03-Sep-99 17:30 P-01									
Purgeable Hydrocarbons	23000	5000	ug/l	100	9114016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	770	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	980	50	"	"	"	"	"	"	
Xylenes (total)	6400	50	"	"	"	"	"	"	
Methyl tert-butyl ether	280	250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	70-130	"	"	"	"	"	
MW-4 (W909135-05) Water Sampled: 03-Sep-99 10:20 Received: 03-Sep-99 17:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	9114016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
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>		93.3 %	70-130	"	"	"	"	"	
MW-7 (W909135-06) Water Sampled: 03-Sep-99 12:15 Received: 03-Sep-99 17:30 P-01									
Purgeable Hydrocarbons	870	500	ug/l	10	9114016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	69	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1100	25	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	70-130	"	"	"	"	"	

Julianne Hegley, Project Manager





Sequoia Analytical

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1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

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(650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

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

Project: Tosco
Project Number: Tosco (Unocal) # 7376
Project Manager: Deanna L. Harding

Reported:
28-Sep-99 12:17


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

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (W909135-07) Water Sampled: 03-Sep-99 09:47 Received: 03-Sep-99 17:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	9I14016	10-Sep-99	10-Sep-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	0.57	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	170	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.7 %		70-130	"	"	"	"	

Sequoia Analytical - Walnut Creek

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Julianne Pegley, Project Manager





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680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

(650) 364-9600
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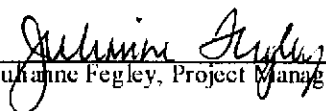
Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco (Unocal) # 7376 Project Manager: Deanna L. Harding	Reported: 28-Sep-99 12:17
--	---	-------------------------------------

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W909135-02) Water Sampled: 03-Sep-99 11:30 Received: 03-Sep-99 17:30									
Diesel Range Hydrocarbons	76	50	ug/l	1	9116004	16-Sep-99	18-Sep-99	DHS LUFT	D-12
Surrogate: n-Pentacosane		126 %	50-150		"	"	"	"	
MW-2B (W909135-03) Water Sampled: 03-Sep-99 12:50 Received: 03-Sep-99 17:30									
Diesel Range Hydrocarbons	870	50	ug/l	1	9116004	16-Sep-99	18-Sep-99	DHS LUFT	D-14
Surrogate: n-Pentacosane		129 %	50-150		"	"	"	"	
MW-3 (W909135-04) Water Sampled: 03-Sep-99 10:55 Received: 03-Sep-99 17:30									
Diesel Range Hydrocarbons	2900	50	ug/l	1	9116004	16-Sep-99	18-Sep-99	DHS LUFT	D-14
Surrogate: n-Pentacosane		105 %	50-150		"	"	"	"	
MW-4 (W909135-05) Water Sampled: 03-Sep-99 10:20 Received: 03-Sep-99 17:30									
Diesel Range Hydrocarbons	66	50	ug/l	1	9116004	16-Sep-99	18-Sep-99	DHS LUFT	D-12
Surrogate: n-Pentacosane		96.1 %	50-150		"	"	"	"	
MW-7 (W909135-06) Water Sampled: 03-Sep-99 12:15 Received: 03-Sep-99 17:30									
Diesel Range Hydrocarbons	550	50	ug/l	1	9116004	16-Sep-99	18-Sep-99	DHS LUFT	D-14
Surrogate: n-Pentacosane		72.1 %	50-150		"	"	"	"	
MW-8 (W909135-07) Water Sampled: 03-Sep-99 09:47 Received: 03-Sep-99 17:30									
Diesel Range Hydrocarbons	130	50	ug/l	1	9116004	16-Sep-99	18-Sep-99	DHS LUFT	D-12
Surrogate: n-Pentacosane		84.1 %	50-150		"	"	"	"	

Sequoia Analytical - Walnut Creek

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Julianne Feyley, Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

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

Project: Tosco
Project Number: Tosco (Unocal) # 7376
Project Manager: Deanna L. Harding

Reported:
28-Sep-99 12:17

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 9I14016: Prepared 10-Sep-99 Using EPA 5030B [P/T]

Blank (9I14016-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	"							
<i>Surrogate: a, a, a-Trifluorotoluene</i>	29.9		"	30.0		99.7	70-130			

LCS (9I14016-BS1)

Benzene	20.3	0.50	ug/l	20.0		101	70-130			
Toluene	18.4	0.50	"	20.0		92.0	70-130			
Ethylbenzene	19.1	0.50	"	20.0		95.5	70-130			
Xylenes (total)	64.2	0.50	"	60.0		107	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	28.7		"	30.0		95.7	70-130			

Matrix Spike (9I14016-MS1)

Source: W909135-05

Benzene	19.2	0.50	ug/l	20.0	ND	96.0	70-130			
Toluene	16.5	0.50	"	20.0	ND	82.5	70-130			
Ethylbenzene	18.3	0.50	"	20.0	ND	91.5	70-130			
Xylenes (total)	59.6	0.50	"	60.0	ND	99.3	70-130			
<i>Surrogate: a, a, a-Trifluorotoluene</i>	26.3		"	30.0		87.7	70-130			

Matrix Spike Dup (9I14016-MSD1)

Source: W909135-05

Benzene	20.3	0.50	ug/l	20.0	ND	101	70-130	5.57	20	
Toluene	18.3	0.50	"	20.0	ND	91.5	70-130	10.3	20	
Ethylbenzene	19.3	0.50	"	20.0	ND	96.5	70-130	5.32	20	
Xylenes (total)	63.1	0.50	"	60.0	ND	105	70-130	5.70	20	
<i>Surrogate: a, a, a-Trifluorotoluene</i>	28.1		"	30.0		93.7	70-130			

Sequoia Analytical - Walnut Creek

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Julianne Fegley, Project Manager



Sequoia Analytical

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1551 Industrial Road

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

Project: Tosco
Project Number: Tosco (Unocal) # 7376
Project Manager: Deanna L. Harding

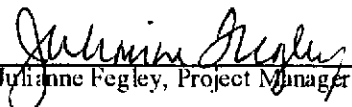
Reported:
28-Sep-99 12:17

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 9I16004: Prepared 16-Sep-99 Using EPA 3510B										
Blank (9I16004-BLK1)										
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	47.3		"	33.3		142	50-150			
LCS (9I16004-BS1)										
Diesel Range Hydrocarbons	544	50	ug/l	500		109	60-140			
Surrogate: n-Pentacosane	46.0		"	33.3		138	50-150			
LCS Dup (9I16004-BSD1)										
Diesel Range Hydrocarbons	567	50	ug/l	500		113	60-140	4.14	50	
Surrogate: n-Pentacosane	44.7		"	33.3		134	50-150			
Matrix Spike (9I16004-MS1)										
Diesel Range Hydrocarbons	531	50	ug/l	500		106	50-150			
Surrogate: n-Pentacosane	45.7		"	33.3		137	50-150			
Matrix Spike Dup (9I16004-MSD1)										
Diesel Range Hydrocarbons	593	50	ug/l	500		119	50-150	11.0	50	
Surrogate: n-Pentacosane	45.7		"	33.3		137	50-150			

Sequoia Analytical - Walnut Creek

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.


Julianne Fegley, Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

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

Project: Tosco
Project Number: Tosco (Unocal) # 7376
Project Manager: Deanna L. Harding

Reported:
28-Sep-99 12:17

Notes and Definitions

- D-12 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

Julianne Pegley, Project Manager





Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#909289) Project Manager: Julianne Fegley	Sampled: 9/3/99 Received: 9/15/99 Reported: 9/20/99
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ANALYTICAL REPORT FOR S909211

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
W909289-02/MW1	S909211-01	Water	9/3/99
W909289-03/MW2B	S909211-02	Water	9/3/99
W909289-04/MW3	S909211-03	Water	9/3/99
W909289-05/MW4	S909211-04	Water	9/3/99
W909289-06/MW7	S909211-05	Water	9/3/99
W909289-07/MW8	S909211-06	Water	9/3/99





Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#909289) Project Manager: Julianne Fegley	Sampled: 9/3/99 Received: 9/15/99 Reported: 9/20/99
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**Volatile Oxygenate Compounds by EPA Method 8260A
Sequoia Analytical - Sacramento**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W909289-02/MW1				S909211-01		Water		
Tert-butyl alcohol	9090151	9/16/99	9/16/99		200	ND	ug/l	
Methyl tert-butyl ether	"	"	"		2.00	55.2	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Ethanol	"	"	"		3000	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		114	%	
W909289-03/MW2B				S909211-02		Water		
Tert-butyl alcohol	9090151	9/16/99	9/16/99		2000	3480	ug/l	D
Methyl tert-butyl ether	"	"	"		20.0	4400	"	D
Di-isopropyl ether	"	"	"		20.0	ND	"	D
Ethyl tert-butyl ether	"	"	"		20.0	ND	"	D
Tert-amyl methyl ether	"	"	"		20.0	ND	"	D
Ethanol	"	"	"		30000	ND	"	D
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		113	%	
W909289-04/MW3				S909211-03		Water		
Tert-butyl alcohol	9090151	9/16/99	9/16/99		200	ND	ug/l	
Methyl tert-butyl ether	"	"	"		2.00	82.4	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Ethanol	"	"	"		3000	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		112	%	
W909289-05/MW4				S909211-04		Water		
Tert-butyl alcohol	9090151	9/16/99	9/16/99		200	ND	ug/l	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Ethanol	"	"	"		3000	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		107	%	
W909289-06/MW7				S909211-05		Water		
Tert-butyl alcohol	9090151	9/16/99	9/16/99		400	460	ug/l	D
Methyl tert-butyl ether	"	"	"		4.00	872	"	D
Di-isopropyl ether	"	"	"		4.00	4.36	"	D
Ethyl tert-butyl ether	"	"	"		4.00	ND	"	D
Tert-amyl methyl ether	"	"	"		4.00	ND	"	D



Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#909289) Project Manager: Julianne Fegley	Sampled: 9/3/99 Received: 9/15/99 Reported: 9/20/99
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**Volatile Oxygenate Compounds by EPA Method 8260A
Sequoia Analytical - Sacramento**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W909289-06/MW7 (continued)				S909211-05			Water	
Ethanol	9090151	9/16/99	9/16/99		6000	ND	ug/l	D
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		118	%	
W909289-07/MW8				S909211-06			Water	
Tert-butyl alcohol	9090151	9/16/99	9/16/99		200	ND	ug/l	
Methyl tert-butyl ether	"	"	"		2.00	146	"	
Di-isopropyl ether	"	"	"		2.00	12.4	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Ethanol	"	"	"		3000	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		114	%	





Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#909289) Project Manager: Julianne Fegley	Sampled: 9/3/99 Received: 9/15/99 Reported: 9/20/99
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**Volatile Oxygenate Compounds by EPA Method 8260A/Quality Control
Sequoia Analytical - Sacramento**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9090151		Date Prepared: 9/16/99			Extraction Method: EPA 5030B [P/T]					
Blank										
Tert-butyl alcohol	9/16/99			ND	ug/l	200				
Methyl tert-butyl ether	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Ethanol	"			ND	"	3000				
Surrogate: 1,2-DCA-d4	"	50.0		59.2	"	60.0-140	118			
Blank										
9090151-BLK2										
Tert-butyl alcohol	9/17/99			ND	ug/l	200				
Methyl tert-butyl ether	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Ethanol	"			ND	"	3000				
Surrogate: 1,2-DCA-d4	"	50.0		56.8	"	60.0-140	114			
LCS										
9090151-BS1										
Methyl tert-butyl ether	9/16/99	50.0		47.4	ug/l	70.0-130	94.8			
Surrogate: 1,2-DCA-d4	"	50.0		58.8	"	60.0-140	118			
LCS Dup										
9090151-BSD1										
Methyl tert-butyl ether	9/16/99	50.0		47.2	ug/l	70.0-130	94.4	25.0	0.423	
Surrogate: 1,2-DCA-d4	"	50.0		57.2	"	60.0-140	114			
Matrix Spike										
9090151-MS1 S909193-01										
Methyl tert-butyl ether	9/16/99	50.0	2.74	47.4	ug/l	60.0-140	89.3			
Surrogate: 1,2-DCA-d4	"	50.0		58.4	"	60.0-140	117			
Matrix Spike Dup										
9090151-MSD1 S909193-01										
Methyl tert-butyl ether	9/16/99	50.0	2.74	49.4	ug/l	60.0-140	93.3	25.0	4.38	
Surrogate: 1,2-DCA-d4	"	50.0		61.0	"	60.0-140	122			