



GETTLER-RYAN INC.

TRANSMITTAL

January 30, 2002

G-R #180075

FEB 8 1 2002

TO: Mr. David B. De Witt
Phillips 66 Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

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

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

RE: **Tosco (Unocal) Service Station
#7376
4191 First Street
Pleasanton, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	January 23, 2002	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of December 17, 2001

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 *February 14, 2002*, this report will be distributed to the following:

cc: ~~Mr. Scott Seary~~, Alameda County Department of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502
Ms. Carol Mahoney, Zone 7 Water District, 5997 Parkside Drive, Pleasanton, CA 94588

Enclosure

trans/7376-dbd



GETTLER-RYAN INC.

January 23, 2002
G-R Job #180075

Mr. David B. De Witt
Phillips 66 Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: Fourth Quarter Event of December 17, 2001
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

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
- for -

Deanna L. Harding
Project Coordinator

Hagop Kevork

Hagop Kevork
P.E. No. C55734

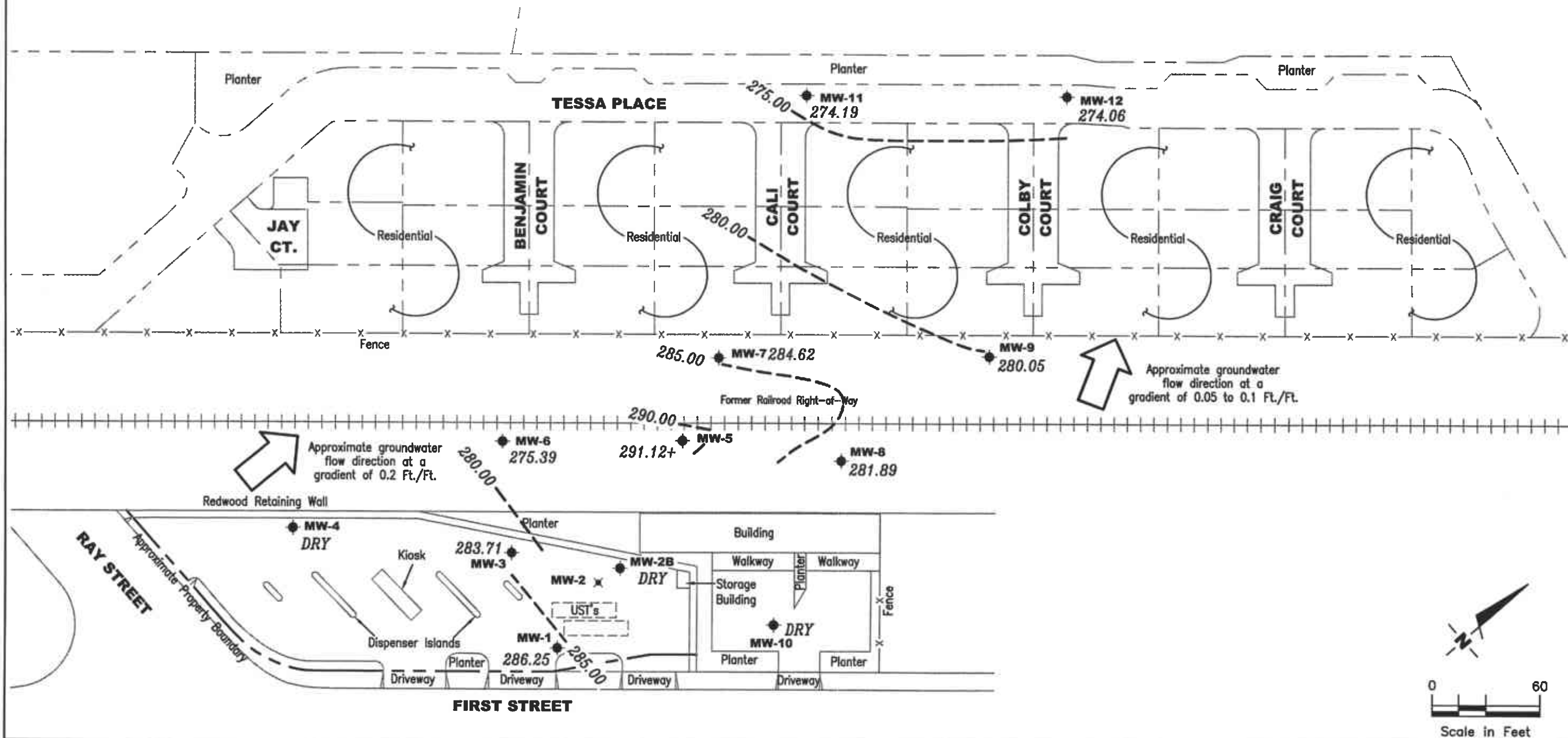


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Product Thickness/Removal Data
Table 3: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets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

7376.qml

EXPLANATION

- ◆ Groundwater monitoring well
- × Abandoned well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99- Groundwater elevation contour, dashed where inferred
- + Groundwater elevation corrected for the presence of free product



POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

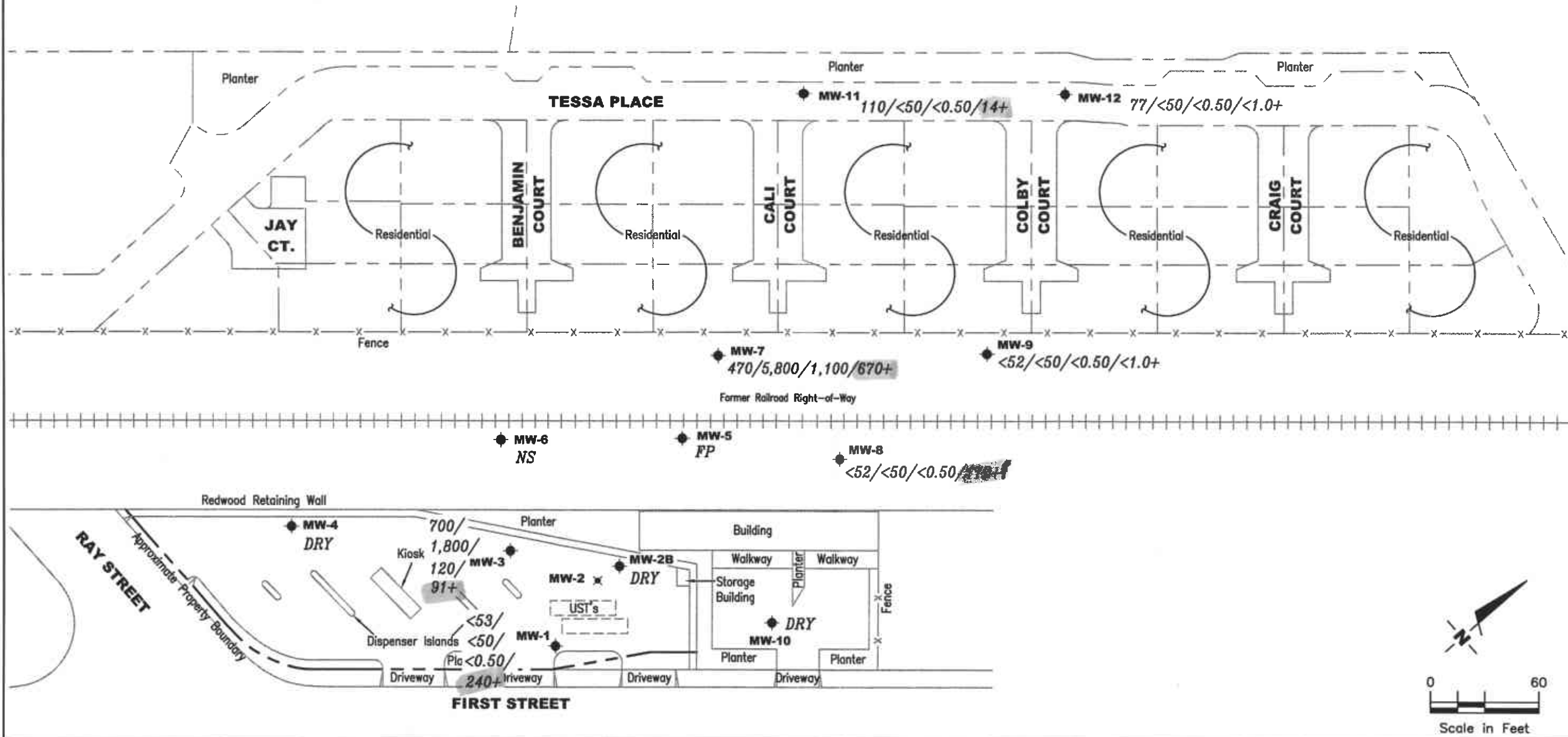
GETTLER-RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER: 180075
 REVIEWED BY: [Signature]
 DATE: December 17, 2001
 REVISED DATE: [Blank]

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EXPLANATION

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



CONCENTRATION MAP
 Tosco (Unocal) Service Station #7376
 4191 First Street
 Pleasanton, California

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

PROJECT NUMBER: 180075
 REVIEWED BY: [Signature]
 DATE: December 17, 2001
 REVISED DATE: [Blank]

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	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	--	65.0-95.0	--	--	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
	12/06/99	79.74		287.24	0.00	ND	ND	ND	ND	ND	ND	120
	03/10/00	79.66		287.32	0.00	51 ¹⁹	ND	ND	ND	ND	ND	100
	06/08/00	79.57		287.41	0.00	68.2 ²⁰	ND	ND	ND	ND	ND	98.9
	09/25/00	79.48		287.50	0.00	ND	ND	ND	ND	ND	ND	145
	12/19/00	79.64		287.34	0.00	ND	ND	ND	ND	ND	ND	330
	03/05/01	80.03		286.95	0.00	505 ²⁰	ND	ND	ND	ND	ND	711

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Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1 (cont)	06/14/01	79.52	65.0-95.0	287.46	0.00	71 ²⁰	ND	ND	ND	ND	ND	680
	09/17/01	79.76		287.22	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	11
	09/25/01	79.71		287.27	0.00	--	--	--	--	--	--	--
	12/17/01	80.73		286.25	0.00	<53	<50	<0.50	<0.50	<0.50	<0.50	210/240 ²⁷
MW-2	12/08/87	--	--	--	--	620 ²	1,800 ³	910	800	260	1,200	--
	12/07/94 DESTROYED	DAMAGED	--	--	--	--	--	--	--	--	--	--
MW-2B 365.05	03/01/95	80.80	65.0-85.0	284.25	0.00	320	ND	ND	ND	ND	ND	--
	06/01/95	75.69		289.36	0.00	280	350	19	5.8	ND	7.7	--
	09/06/95	77.54		287.51	0.00	ND	ND	90	ND	ND	ND	-- ⁶
	12/12/95	75.96		289.09	0.00	850 ⁴	1,200	630	ND	15	57	-- ⁷
	03/01/96	73.27		291.78	0.00	870 ⁴	1,000	620	ND	ND	5.3	4,300
	06/15/96	73.21		291.84	0.00	420	910	350	ND	ND	ND	3,700
	09/18/96	81.08		283.97	0.00	600	1,200	95	ND	ND	ND	5,200
	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	0.00	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	0.00	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	

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4191 First Street
Pleasanton, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.lgs)	GWE (msl)	Product								
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-2B	03/23/99	77.06	65.0-85.0	287.99	0.00	--	--	--	--	--	--	--	--
(cont)	06/07/99	82.96		282.09	0.00	770 ²⁵	ND ¹¹	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	ND ¹¹	6,300/4,400 ²⁷
	12/06/99	84.41		280.64	0.00	850 ³²	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	4,400
	03/10/00	82.42		282.63	0.00	1,500 ²⁰	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	6,900
	06/08/00	82.73		282.32	0.00	-- ³⁴	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	7,780
	09/25/00	84.24		280.81	0.00	2,900 ²⁰	52.9 ³⁰	8.83	6.58	0.932	5.60		12,200
	12/19/00	84.39		280.66	0.00	700 ¹⁹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	ND ¹¹	6,000
	03/05/01	84.61		280.44	0.00	-- ³⁶	ND	ND	ND	ND	ND	ND	5,890
NP	06/14/01	83.53		281.52	0.00	570 ²⁰	ND	ND	ND	ND	ND	ND	6,600
	09/17/01	84.55		280.50	0.00	-- ³⁶	<200	<2.0	<2.0	<2.0	<2.0	<2.0	5,100
	09/25/01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--	--
	12/17/01	DRY	--	--	--	--	--	--	--	--	--	--	--
MW-3													
	12/08/87	--	76.5-96.5	--	--	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	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*(ft.)	DATE	DTW (ft.)	S.L. (ft.bgs)	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	76.5-96.5	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	
	12/06/99	83.41	283.62	0.00	4,200 ²⁰	41,000 ³⁰	3,200	3,500	1,300	8,300	ND ¹¹	
	03/10/00	83.23	283.80	0.00	2,500 ²⁰	5,100 ³⁰	340	ND ¹¹	97	450	200	
	06/08/00	83.22	283.81	0.00	489 ²⁰	1,200 ³⁰	52.0	ND ¹¹	41.7	356	55.8	
	09/25/00	83.37	283.66	0.00	4,380 ²⁰	3,400 ³⁰	305	ND ¹¹	25.4	512	137	
	12/19/00	83.27	283.76	0.00	5,600 ³⁵	6,800 ³⁰	260	ND ¹¹	120	950	130	
	03/05/01	83.34	283.69	0.00	3,790 ²⁰	16,800 ³⁰	1,100	48.6	637	4,260	224	
	06/14/01	83.39	283.64	0.00	1,300 ²⁰	1,800 ³⁰	260	ND ¹¹	5.5	25	83	
	09/17/01	84.10	282.93	0.00	290 ²⁰	<50	0.50	<0.50	<0.50	<0.50	71	
	09/25/01	84.23	282.80	0.00	--	--	--	--	--	--	--	
	12/17/01	83.32	283.71	0.00	700	1,800 ³⁰	120	<5.0	45	270	80/91 ²⁷	
MW-4												
369.03	09/18/96	73.67	73.0-93.0	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

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	12/15/97	87.26	73.0-93.0	281.77	0.00	ND	ND	ND	ND	ND	ND	ND
(cont)	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
	12/06/99	92.23		276.58	0.00	95 ¹³	ND	ND	ND	ND	ND	ND
	03/10/00	88.54		280.27	0.00	ND	ND	ND	ND	ND	ND	ND
	06/08/00	86.98		281.83	0.00	72.8 ²⁰	ND	ND	ND	ND	ND	ND
	09/25/00	DRY		--	--	--	--	--	--	--	--	--
	12/19/00	DRY		--	--	--	--	--	--	--	--	--
	03/05/01	DRY		--	--	--	--	--	--	--	--	--
	06/14/01	DRY		--	--	--	--	--	--	--	--	--
	09/17/01	DRY		--	--	--	--	--	--	--	--	--
	09/25/01	DRY		--	--	--	--	--	--	--	--	--
	12/17/01	DRY		--	--	--	--	--	--	--	--	--
MW-5												
363.23	09/18/96	64.20	52.0-72.0	299.03	0.00	4,700 ⁵	36,000	6,700	410	730	6,500	4,100
	12/21/96	61.77		301.46	Sheen	4,700 ⁴	25,000	3,200	300	780	3,600	2,600
	03/07/97	56.30		306.93	Sheen	2,100 ⁴	14,000	1,300	120	410	1,200	1,700
	06/27/97	68.88		295.03***	0.90	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	09/29/97	69.47		294.02***	0.35	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	12/15/97	64.92	52.0-72.0	298.54***	0.30	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
(cont)	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						--
	12/06/99	70.02		293.82**	0.82	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	03/10/00	64.56		299.14**	0.64	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	06/08/00	66.47		297.13**	0.51	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	09/25/00	69.02		294.65**	0.60	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	12/19/00	68.31		295.01**	0.14	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	03/05/01	64.19		299.08**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	06/14/01	64.02		299.27**	0.11	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	09/17/01	72.07		291.17**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	09/25/01	72.17		291.06**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
	12/17/01	72.11		291.12**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--
MW-6												
363.12	09/18/96	79.07	68.0-88.0	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

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	12/15/97	84.03	68.0-88.0	279.09	0.00	ND	78 ⁹	ND	ND	ND	ND	39
(cont)	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	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	12/06/99	DRY		--	--	--	--	--	--	--	--	--
	03/10/00	85.61		277.52	0.00	ND	ND	ND	ND	ND	ND	64
	06/08/00	87.36		275.77	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	09/25/00	DRY		--	--	--	--	--	--	--	--	--
	12/19/00	87.73		275.40	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	03/05/01	87.82		275.31	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	06/14/01	87.69		275.44	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	09/17/01	87.70		275.43	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
	09/25/01	DRY		--	--	--	--	--	--	--	--	--
	12/17/01	87.74		275.39	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
MW-7												
355.97	06/26/98	--	55.0-75.0	--	--	--	--	--	--	--	--	--
	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

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	03/23/99	60.43	55.0-75.0	295.54	0.00	--	--	--	--	--	--	--
(cont)	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
	12/06/99	70.18		285.79	0.00	220 ²⁰	1,900 ³¹	350	ND ¹¹	ND ¹¹	ND ¹¹	1,100
	03/10/00	67.36		288.61	0.00	930 ²⁰	2,900 ³¹	1,600	ND ¹¹	40	54	1,100
	06/08/00	69.81		286.16	0.00	463 ²⁰	625 ³⁰	30.8	ND	0.761	0.940	1,290 ³⁵
	09/25/00	70.15		285.82	0.00	1,810 ²⁰	2,180 ²²	423	ND ¹¹	ND ¹¹	ND ¹¹	1,510
	12/19/00	70.11		285.86	0.00	930 ³²	5,900 ³¹	1,000	ND ¹¹	ND ¹¹	ND ¹¹	1,300
	03/05/01	68.72		287.25	0.00	801 ²⁰	13,200 ³⁰	5,070	195	306	385	1,530
	06/14/01	70.00		285.97	0.00	710 ²⁰	6,400 ³⁰	3,300	85	96	170	1,000
	09/17/01	70.28		285.69	0.00	860 ²⁰	11,000 ³⁷	3,000	<50	<50	<50	750
	09/25/01	70.49		285.48	0.00	--	--	--	--	--	--	--
	12/17/01	71.35		284.62	0.00	470	5,800 ³⁰	1,100	<10	<10	<10	760/670 ²⁷
MW-8												
362.37	06/26/98	63.00	66.0-86.0	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
	12/06/99	74.98		286.85	0.00	160 ¹⁹	ND	ND	ND	ND	ND	150
	03/10/00	71.54		290.29	0.00	61 ¹⁹	ND	ND	ND	ND	ND	150
	06/08/00	72.60		289.23	0.00	135 ²⁰	ND	ND	ND	ND	ND	42.8
	09/25/00	75.31		286.52	0.00	518 ²⁰	ND	ND	ND	ND	ND	227
	12/19/00	75.54		286.29	0.00	100 ¹⁹	ND	ND	ND	ND	ND	160
	03/05/01	75.91		285.92	0.00	161 ²⁰	ND	ND	ND	ND	ND	125

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8 (cont)	06/14/01	75.51	66.0-86.0	286.32	0.00	94 ²⁰	ND	ND	ND	ND	ND	140
	09/17/01	77.19		284.64	0.00	60 ²⁰	<50	<0.50	<0.50	<0.50	<0.50	110
	09/25/01	77.17		284.66	0.00	--	--	--	--	--	--	--
	12/17/01	79.94		281.89	0.00	<52	<50	<0.50	<0.50	<0.50	<0.50	140/170 ²⁷
MW-9												
354.85	11/29/99	74.50	--	280.35	0.00	--	--	--	--	--	--	--
	12/06/99	74.35		280.50	0.00	ND	ND	ND	ND	ND	ND	3.0/2.7 ²⁷
	03/10/00	65.94		288.91	0.00	150 ¹⁹	ND	ND	ND	ND	ND	2.5
	06/08/00	70.77		284.08	0.00	67.8 ²⁰	ND	ND	ND	ND	ND	ND
	09/25/00	74.75		280.10	0.00	903 ²⁰	ND	ND	0.516	ND	ND	10.5
	12/19/00	74.43		280.42	0.00	ND	ND	ND	ND	ND	ND	ND
	03/05/01	74.63		280.22	0.00	96.5 ²⁰	ND	ND	ND	ND	ND	ND
	06/14/01	74.75		280.10	0.00	ND	ND	ND	ND	ND	ND	ND
	09/17/01	74.78		280.07	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/25/01	74.83		280.02	0.00	--	--	--	--	--	--	--
	12/17/01	74.80		280.05	0.00	<52	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<1.0 ²⁷
	MW-10											
362.62	11/29/99	DRY	--	--	--	--	--	--	--	--	--	--
	12/06/99	DRY		--	--	--	--	--	--	--	--	--
	03/10/00 ³³	85.04		277.58	0.00	78 ²⁰	ND	ND	ND	ND	ND	130/150 ²⁷
	06/08/00	DRY		--	--	--	--	--	--	--	--	--
	09/25/00	DRY		--	--	--	--	--	--	--	--	--
	12/19/00	DRY		--	--	--	--	--	--	--	--	--
	03/05/01	DRY		--	--	--	--	--	--	--	--	--
	06/14/01	DRY		--	--	--	--	--	--	--	--	--

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	09/17/01	DRY	--	--	--	--	--	--	--	--	--	--
(cont)	09/25/01	DRY	--	--	--	--	--	--	--	--	--	--
	12/17/01	DRY	--	--	--	--	--	--	--	--	--	--
MW-11												
354.66	09/25/01	81.24	--	273.42	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	9.0
	12/17/01	80.47	--	274.19	0.00	110	<50	<0.50	<0.50	<0.50	<0.50	10/14 ²⁷
MW-12												
354.08	09/25/01	80.78	--	273.30	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/17/01	80.02	--	274.06	0.00	77	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<1.0 ²⁷
Trip Blank												
TB-LB	03/16/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/26/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	08/18/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/22/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/15/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/23/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/15/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/23/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/07/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/03/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/06/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/10/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/08/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/25/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/19/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND

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

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TB-LB	03/05/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
(cont)	06/14/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/17/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	09/25/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/17/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0

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	TPH-D = Total Petroleum Hydrocarbons as Diesel	(ppb) = Parts per billion
DTW = Depth to Water	TPH-G = Total Petroleum Hydrocarbons as Gasoline	ND = Not Detected
(ft.) = Feet	B = Benzene	-- = Not Measured/Not Analyzed
S.I. = Screen Interval	T = Toluene	NP = No Purge
(ft.bgs) = Feet Below Ground Surface	E = Ethylbenzene	
GWE = Groundwater Elevation	X = Xylenes	
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	

* TOC elevations were re-surveyed September 22, 2001, using the previous measurement references. (Benchmark Elevation = 353.92 feet, NGVD 29).
 On March 22, 1999, MW-8 was re-surveyed and on November 26, 1999, MW-9 and MW-10 were 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).

TOC elevations have been surveyed relative to 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).

** GWE corrected for the presence of free product; correction factor: $[(TOC - DTW) + (Product\ Thickness \times 0.77)]$.

*** GWE corrected for the presence of free product; correction factor: $[(TOC - DTW) + (Product\ Thickness \times 0.75)]$.

- 1 1,2-Dichloroethene (1,2-DCE) was detected at a concentration of 18 ppb.
- 2 Reported as Total Extractable Hydrocarbons (TEH).
- 3 Reported as Total Petroleum Hydrocarbons (TPH).
- 4 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- 5 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 6 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- 7 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 8 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 9 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 10 Laboratory report indicates diesel and unidentified hydrocarbons >C16.
- 11 Detection limit raised. Refer to analytical 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.

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

EXPLANATIONS: (cont)

- 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.
- 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.
- 31 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.
- 32 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 33 Well re-developed.
- 34 The diesel container for MW-2 was broken at lab, therefore; unable to report diesel result.
- 35 Laboratory report indicates unidentified hydrocarbons <C16.
- 36 Laboratory was unable to report diesel result due to insufficient amount of sample.
- 37 Laboratory report indicates unidentified hydrocarbons C6-C10.

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
	12/06/99	70.02	0.82	0.00
	03/10/00	64.56	0.64	0.00
	06/08/00	66.47	0.51	0.00
	09/25/00	69.02	0.60	0.00
	12/19/00	68.31	0.14	0.00
	03/05/01	64.19	0.08	0.00
	06/14/01	64.02	0.11	0.00
	09/17/01	72.07	0.04	0.00
	09/25/01	72.17	0.03	0.00
12/17/01	72.11	0.03	0.00	

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)	1,2-DCA (ppb)	EDB (ppb)
MW-1	09/03/99	ND	ND	55.2	ND	ND	ND	--	--
	12/17/01	<1,000	<40	240	<2.0	<2.0	<2.0	<2.0	<2.0
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	--	--
	12/17/01	DRY	--	--	--	--	--	--	--
MW-3	09/03/99	ND	ND	82.4	ND	ND	ND	--	--
	12/17/01	<500	26	91	<1.0	<1.0	<1.0	<1.0	<1.0
MW-4	09/03/99	ND	ND	ND	ND	ND	ND	--	--
	12/17/01	DRY	--	--	--	--	--	--	--
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				--	--	--	--
	12/17/01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT				--	--	--	--
MW-6	12/14/01	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--
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	--	--
	12/17/01	<5,000	<200	670	<10	<10	<10	<10	<10
MW-8	09/03/99	ND	ND	146	12.4	ND	ND	--	--
	12/17/01	<500	77	170	9.8	<1.0	<1.0	<1.0	<1.0

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)	1,2-DCA (ppb)	EDB (ppb)
MW-9	12/06/99	--	ND	2.7	ND	ND	ND	ND	ND
	12/17/01	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	03/10/00	--	ND	150	ND	ND	ND	22	ND
	12/17/01	DRY	--	--	--	--	--	--	--
MW-11	12/17/01	<500	<20	14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-12	12/17/01	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

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
1,2-DCA = Dichloroethane
EDB = 1,2-Dibromoethane
(ppb) = Parts per billion
ND = Not Detected
-- = Not Analyzed

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 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 # TOSCO- UNOCAL # 7376
 Address: 4191 FIRST STREET
 City: PLEASANTON, CA

Job #: 180075
 Date: 12/17/01
 Sampler: Vest Key

Well ID: MW-1

Well Condition: OK

Well Diameter: 2 in.

Hydrocarbon Thickness: 0.020 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth: 86.45 ft.

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

Depth to Water: 80.73 ft.

$5.72 \times VF 0.17 = 0.97 \times 3$ (case volume) = Estimated Purge Volume: 3 (gal.)

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

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

Starting Time: 1525

Weather Conditions: cloudy

Sampling Time: 1550

Water Color: clear Odor: no

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? no

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1532	1	7.60	204	68.0			
1538	2	7.50	796	68.6			
1546	3	7.45	790	68.9			

LABORATORY INFORMATION

SAMPLE ID	# - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
					TPHIG)/btox/mtbe + 804y3(8260)
MW-1	5 VOAVIAL	Y	HCL	SEQUOIA	TPH-D
2	1 Amber	2	NONE	-	

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # TOSCO # 7376 Job#: 180075
 Address: 4191 FIRST STREET Date: 12/17/10
 City: PLEASANTON, CA Sampler: Hartke

Well ID MW-2B Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 in. (product/water): Ø (gal.)
 Total Depth 85.25 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Factor (VF) 6" = 1.50 12" = 5.80
 Depth to Water DRY ft.

_____ 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 μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	<u>X VOA VIAL</u>	<u>Y</u>	<u>HEC</u>	<u>SEQUOIA</u>	<u>TPH, BTEX, MTBE</u>

COMMENTS: Well is dry

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility: TOSCO- UNOCAL # 7376
 Address: 4191 FIRST STREET
 City: PLEASANTON, CA

Job#: 180075
 Date: 12/17/01
 Sampler: Vortex

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 94.10 ft.
 Depth to Water: 83.32 ft.

Well Condition: OK
 Hydrocarbon Thickness: 0.00 (feet)
 Amount Bailed (product/water): 0 (Gallons)
 Volume Factor (VF):
 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

10.78 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: 1608
 Sampling Time: 1630
 Purging Flow Rate: 1 gpm.
 Did well de-water? no

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1610	2	7.56	1051	68.8			
1612	4	7.40	1040	69.2			
1614	5.5	7.36	1035	69.5			

LABORATORY INFORMATION

SAMPLE ID	(#)-CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	5 VOAVIAL	Y	HCL	SEQUOIA	TPHIGI/btex/mtbe + 80xy's (8260)
~	1 Amber	~	NONE	~	TPH-D

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # TOSCO- UNOCAL # 7376
 Address: 4191 FIRST STREET
 City: PLEASANTON, CA

Job#: 180075
 Date: 12/12/01
 Sampler: Ventura

Well ID MW-4

Well Condition: OK

Well Diameter 2 in.

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

Total Depth 92.85 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.98	4" = 0.66
	6" = 1.50	12" = 5.80	

Depth to Water DRY ft.

_____ 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: _____
 Sampling Time: _____
 Purging Flow Rate: _____ gpm.
 Did well de-water? _____

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW	VOAVIAL	Y	HCL	SEQUOIA	TPH(GI)/bTEX/mtbe

COMMENTS: Well is dry.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility: TOSCO- UNOCAL # 7376 Job#: 180075
 Address: 4191 FIRST STREET Date: 12/17/01
 City: PLEASANTON, CA Sampler: Ventke

Well ID: MW-5 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.03 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth: 72.50 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 72.11 ft. Factor (VF) 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 μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>VOAVTAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/bTEX/mtbe</u>

COMMENTS: Not Sampled due to the presence of free product,
also Insufficient water.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility: TOSCO- UNOCAL # 7376
 Address: 4191 FIRST STREET
 City: PLEASANTON, CA

Job#: 180075
 Date: 12/17/01
 Sampler: Vantkes

Well ID: MW-6

Well Condition: OK

Well Diameter: 2 in.

Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth: 88.00 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.98	4" = 0.66
	6" = 1.50	12" = 5.80	

Depth to Water: 87.74 ft.

 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:
 Sampling Time:
 Purging Flow Rate: gpm.
 Did well de-water?

Weather Conditions:
 Water Color: Odor:
 Sediment Description:
 If yes; Time: Volume: (gal.)

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

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>VOAVIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(GI)/BTEX/MTBE</u>

COMMENTS: Insufficient water to sample

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility: TOSCO- UNOCAL # 7376 Job#: 180075
 Address: 4191 FIRST STREET Date: 12/17/01
 City: PLEASANTON, CA Sampler: Varthen

Well ID: MW-7 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth: 7680 ft.
 Depth to Water: 71.35 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.98	4" = 0.66
	6" = 1.50	12" = 5.80	

5.45 x VF 0.17 = 0.92 x 3 (case volume) = Estimated Purge Volume: 3 (gal.)

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

Starting Time: 1440 Weather Conditions: cloudy
 Sampling Time: 1505 Water Color: brn. Odor: +
 Purging Flow Rate: _____ gpm. Sediment Description: silt
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1446	1	7.50	1172	68.3			
1454	2	7.33	1157	68.9			
1501	3	7.28	1153	69.1			

LABORATORY INFORMATION

SAMPLE ID	#1 - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	5 VOAVIAL	Y	HCL	SEQUOIA	TPH(GI)/bTEX/mtbe + 80x's (8260)
"	1 Amber	"	NONE	"	TPH-D

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # TOSCO- UNOCAL # 7376 Job#: 180075
 Address: 4191 FIRST STREET Date: 12/17/01
 City: PLEASANTON, CA Sampler: Vortex

Well ID: MW-8 Well Condition: ON
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth: 84.50 ft.
 Depth to Water: 79.94 ft.

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

4.56 x VF 0.17 = 0.77 x 3 (case volume) = Estimated Purge Volume: 2.5 (gal.)

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

Starting Time: 1355 Weather Conditions: cldy
 Sampling Time: 1421 Water Color: SRP Odor: NO
 Purging Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1402</u>	<u>1</u>	<u>7.67</u>	<u>883</u>	<u>67.4</u>			
<u>1409</u>	<u>2</u>	<u>7.48</u>	<u>871</u>	<u>68.0</u>			
<u>1416</u>	<u>2.5</u>	<u>7.45</u>	<u>866</u>	<u>68.5</u>			

LABORATORY INFORMATION

SAMPLE ID	#1 - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
					TPHIG)/bTEX/mtbe + 8087 (8260)
<u>MW-8</u>	<u>5 VOAVIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	
<u>~</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- UNOCAL # 7376
 Address: 4191 FIRST STREET
 City: PLEASANTON, CA

Job #: 180075
 Date: 12/17/01
 Sampler: Vartkes

Well ID: MW-9
 Well Diameter: 2 in.
 Total Depth: 78.05 ft.
 Depth to Water: 74.80 ft.

Well Condition: DN
 Hydrocarbon Thickness: 0.00 (feet)
 Amount Bailed (product/water): 0 (Gallons)

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

$3.25 \times \text{VF } 0.17 = 0.55 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 2 \text{ (gal.)}$

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

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

Starting Time: 1315
 Sampling Time: 1340
 Purging Flow Rate: _____ gpm.
 Did well de-water? no

Weather Conditions: cldy
 Water Color: brn. 1 Odor: no
 Sediment Description: Silt
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1320</u>	<u>0.2</u>	<u>7.70</u>	<u>724</u>	<u>67.3</u>	_____	_____	_____
<u>1328</u>	<u>1</u>	<u>7.55</u>	<u>738</u>	<u>67.8</u>	_____	_____	_____
<u>1336</u>	<u>2</u>	<u>7.51</u>	<u>736</u>	<u>68.0</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>5 VOAVIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe + 80xys (8260)</u>
<u>~</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- UNOCAL # 7376 Job#: 180075
 Address: 4191 FIRST STREET Date: 12/17/07
 City: PLEASANTON, CA Sampler: Vartkes

Well ID: MW-10

Well Condition: ok

Well Diameter: 2 in.

Hydrocarbon Thickness: _____ (feet) Amount Bailed (Gallons)

Total Depth: 93.40 ft.

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

Depth to Water: DRY ft.

_____ 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 μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	VOAVIAL	Y	HCL	SEOUOIA	TPH(G)/BTEX/MCBE

COMMENTS: well is dry.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility: TOSCO- UNOCAL # 7376
 Address: 4191 FIRST STREET
 City: PLEASANTON, CA

Job#: 180075
 Date: 12/17/01
 Sampler: Vastley

Well ID: MW-11

Well Condition: OK

Well Diameter: 2 in.

Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth: 86.33 ft.

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

Depth to Water: 80.47 ft.

5.86 X VF 0.17 = 0.99 X 3 (case volume) = Estimated Purge Volume: 3 (gal.)

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

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

Starting Time: 1225

Weather Conditions: cloudy

Sampling Time: 1252

Water Color: brn. Odor: no sewer (H₂S)

Purging Flow Rate: _____ gpm.

Sediment Description: silt

Did well de-water? NO

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1232</u>	<u>1</u>	<u>7.61</u>	<u>663</u>	<u>66.2</u>	_____	_____	_____
<u>1240</u>	<u>2</u>	<u>7.50</u>	<u>645</u>	<u>66.4</u>	_____	_____	_____
<u>1247</u>	<u>3</u>	<u>7.46</u>	<u>639</u>	<u>67.2</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>5 VOAVIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btox/mtbs + 8 cys (8260)</u>
<u>2</u>	<u>1 Amber</u>	<u>-</u>	<u>NONE</u>	<u>2</u>	<u>TPH-D</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility: TOSCO- UNOCAL # 7376 Job#: 180075
 Address: 4191 FIRST STREET Date: 12/17/01
 City: PLEASANTON, CA Sampler: Ventles

Well ID: MW-12 Well Condition: ok
 Well Diameter: 2 in. Hydrocarbon Thickness: 0.24 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth: 89.33 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 80.02 ft. 6" = 1.50 12" = 5.80

9.31 x VF 0.17 = 1.58 x 3 (case volume) = Estimated Purge Volume: 5.0 (gal.)

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

Starting Time: 1145 Weather Conditions: cldy
 Sampling Time: 1215 Water Color: brn. Odor: no
 Purging Flow Rate: 0.5 gpm. Sediment Description: Silt.
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1148	1.5	7.72	703	67.3			
1154	3	7.57	690	67.7			
1155	5	7.53	683	67.9			

LABORATORY INFORMATION

SAMPLE ID	(#)- CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
					TPH(GI)/btex/mtbe + 80473 (8260)
MW-12	5 VOAVIAL	Y	HCL	SEQUOIA	TPHD
~	1 Amber	~	NONE	~	

COMMENTS: _____



Tosco Marketing Company
2000 De Anza Canyon Pl., Ste. 400
San Ramon, CA 94583

Facility Number TOSCO (UNOCAL) SS# 7376
 Facility Address 4191 First Street, Pleasanton, CA
 Consultant Project Number 180075.85
 Consultant Name Gattler-Ryan Inc. (G-R Inc.)
 Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
 Project Contact (Name) Deanna L. Harding
 (Phone) (925) 551-7555 (Fax Number) 925-551-7899

Contact (Name) MR. Dave DeWitt
 (Phone) 925-277-2384
 Laboratory Name Sequoia Analytical
 Laboratory Release Number _____
 Samples Collected by (Name) Vartkes Tashjian
 Collection Date 12/13/01
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Lead (Yes or No)	Analytes To Be Performed										DO NOT BILL TB-LB ANALYSIS					
								THM G-1 1001	STX 1002	DIBP 1003	Oil and Grease (5520)	Purgeable Hydrocarbons (9010)	Purgeable Aromatics (9020)	Purgeable Organics (9240)	Extractable Organics (9270)	Metals Cd, Cr, Pb, Zn, Ni (904 or 905)	8 Oxy's (8260)						
TB-LB		1	W	C ₂		#21	Y	X															
MW-1		6	W	"	1550	"	"	X	X														
MW-3		6	W	"	1630	"	"	X	X														
MW-7		6	W	"	1505	"	"	X	X														
MW-8		6	W	"	1421	"	"	X	X														
MW-9		6	W	"	1340	"	"	X	X														
MW-11		6	W	"	1252	"	"	X	X														
MW-12		6	W	"	1215	"	"	X	X														

Relinquished By (Signature) <u>[Signature]</u>	Organization G-R Inc.	Date/Time 12/13/01	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time 12/13/01	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time	



**Sequoia
Analytical**

1551 Industrial Road
San Carlos, CA 94070
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

7 January, 2002

RECEIVED

JAN 08 2002

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568

GETTLER-RYAN INC.
GENERAL CONTRACTORS

RE: Tosco(1)
Sequoia Report: L112107

Enclosed are the results of analyses for samples received by the laboratory on 12/17/01 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #2360



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L112107-01	Water	12/17/01 00:00	12/17/01 17:55
MW-1	L112107-02	Water	12/17/01 15:50	12/17/01 17:55
MW-3	L112107-03	Water	12/17/01 16:30	12/17/01 17:55
MW-7	L112107-04	Water	12/17/01 15:05	12/17/01 17:55
MW-8	L112107-05	Water	12/17/01 14:21	12/17/01 17:55
MW-9	L112107-06	Water	12/17/01 13:40	12/17/01 17:55
MW-11	L112107-07	Water	12/17/01 12:52	12/17/01 17:55
MW-12	L112107-08	Water	12/17/01 12:15	12/17/01 17:55

Sequoia Analytical - San Carlos

Latonya Pelt, Project Manager

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.

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
 Project Manager: Deanna Harding

 Reported:
 01/07/02 14:26

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L112107-01) Water Sampled: 12/17/01 00:00 Received: 12/17/01 17:55									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120096	12/26/01	12/27/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.4 %		70-130	"	"	"	"	
MW-1 (L112107-02) Water Sampled: 12/17/01 15:50 Received: 12/17/01 17:55									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120100	12/27/01	12/27/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	210	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.3 %		70-130	"	"	"	"	
MW-3 (L112107-03) Water Sampled: 12/17/01 16:30 Received: 12/17/01 17:55									
Purgeable Hydrocarbons as Gasoline	1800	500	ug/l	10	1120100	12/27/01	12/27/01	EPA 8021B	P-01
Benzene	120	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	45	5.0	"	"	"	"	"	"	
Xylenes (total)	270	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	80	50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		77.7 %		70-130	"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (L112107-04) Water Sampled: 12/17/01 15:05 Received: 12/17/01 17:55									
Purgeable Hydrocarbons as Gasoline	5800	1000	ug/l	20	1120100	12/27/01	12/27/01	EPA 8021B	P-01
Benzene	1100	10	"	"	"	"	"	"	"
Toluene	ND	10	"	"	"	"	"	"	"
Ethylbenzene	ND	10	"	"	"	"	"	"	"
Xylenes (total)	ND	10	"	"	"	"	"	"	"
Methyl tert-butyl ether	760	100	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.3 %	70-130	"	"	"	"	"	"
MW-8 (L112107-05) Water Sampled: 12/17/01 14:21 Received: 12/17/01 17:55									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120100	12/27/01	12/27/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	140	5.0	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		78.9 %	70-130	"	"	"	"	"	"
MW-9 (L112107-06) Water Sampled: 12/17/01 13:40 Received: 12/17/01 17:55									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120096	12/26/01	12/27/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.1 %	70-130	"	"	"	"	"	"



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (L112107-07) Water Sampled: 12/17/01 12:52 Received: 12/17/01 17:55									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120099	12/27/01	12/27/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	10	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.3 %	70-130		"	"	"	"	
MW-12 (L112107-08) Water Sampled: 12/17/01 12:15 Received: 12/17/01 17:55									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1120099	12/27/01	12/27/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		79.7 %	70-130		"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L112107-02) Water Sampled: 12/17/01 15:50 Received: 12/17/01 17:55									
Ethanol	ND	1000	ug/l	2	1120095	12/26/01	12/26/01	EPA 8260B	
1,2-Dibromoethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	240	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	40	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89.6 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		104 %		70-130	"	"	"	"	
MW-3 (L112107-03) Water Sampled: 12/17/01 16:30 Received: 12/17/01 17:55									
Ethanol	ND	500	ug/l	1	1120095	12/27/01	12/27/01	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	91	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	26	20	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		86.0 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		102 %		70-130	"	"	"	"	
MW-7 (L112107-04) Water Sampled: 12/17/01 15:05 Received: 12/17/01 17:55									
Ethanol	ND	5000	ug/l	10	1120095	12/27/01	12/27/01	EPA 8260B	
1,2-Dibromoethane	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	670	10	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	10	"	"	"	"	"	"	
Tert-butyl alcohol	ND	200	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		83.8 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		101 %		70-130	"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (L112107-05) Water Sampled: 12/17/01 14:21 Received: 12/17/01 17:55									
Ethanol	ND	500	ug/l	1	1120095	12/26/01	12/26/01	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	9.8	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	170	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	77	20	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.4 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		102 %		70-130	"	"	"	"	
MW-9 (L112107-06) Water Sampled: 12/17/01 13:40 Received: 12/17/01 17:55									
Ethanol	ND	500	ug/l	1	1120090	12/21/01	12/26/01	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89.6 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		102 %		70-130	"	"	"	"	
MW-11 (L112107-07) Water Sampled: 12/17/01 12:52 Received: 12/17/01 17:55									
Ethanol	ND	500	ug/l	1	1120095	12/26/01	12/26/01	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	14	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.6 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		104 %		70-130	"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

**Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (L112107-08) Water Sampled: 12/17/01 12:15 Received: 12/17/01 17:55									
Ethanol	ND	500	ug/l	1	1120095	12/26/01	12/26/01	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %		70-130	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
 Project Manager: Deanna Harding

 Reported:
 01/07/02 14:26

Diesel Hydrocarbons (C10-C28) by 8015B modified
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L112107-02) Water Sampled: 12/17/01 15:50 Received: 12/17/01 17:55									
Diesel Range Organics (C10-C28)	ND	53	ug/l	1	1L31029	12/31/01	01/03/02	8015Bm	I-04
Surrogate: n-Octacosane		35.4 %	50-150		"	"	"	"	I-04,S-LIM
MW-3 (L112107-03) Water Sampled: 12/17/01 16:30 Received: 12/17/01 17:55									
Diesel Range Organics (C10-C28)	700	52	ug/l	1	1L31029	12/31/01	01/02/02	8015Bm	I-04
Surrogate: n-Octacosane		96.0 %	50-150		"	"	"	"	I-04
MW-7 (L112107-04) Water Sampled: 12/17/01 15:05 Received: 12/17/01 17:55									
Diesel Range Organics (C10-C28)	470	52	ug/l	1	1L31029	12/31/01	01/02/02	8015Bm	I-04
Surrogate: n-Octacosane		56.9 %	50-150		"	"	"	"	I-04
MW-8 (L112107-05) Water Sampled: 12/17/01 14:21 Received: 12/17/01 17:55									
Diesel Range Organics (C10-C28)	ND	52	ug/l	1	1L31029	12/31/01	01/02/02	8015Bm	I-04
Surrogate: n-Octacosane		15.1 %	50-150		"	"	"	"	I-04,S-LIM
MW-9 (L112107-06) Water Sampled: 12/17/01 13:40 Received: 12/17/01 17:55									
Diesel Range Organics (C10-C28)	ND	52	ug/l	1	1L31029	12/31/01	01/02/02	8015Bm	I-04
Surrogate: n-Octacosane		37.3 %	50-150		"	"	"	"	I-04,S-LIM
MW-11 (L112107-07) Water Sampled: 12/17/01 12:52 Received: 12/17/01 17:55									
Diesel Range Organics (C10-C28)	110	52	ug/l	1	1L31029	12/31/01	01/02/02	8015Bm	I-04
Surrogate: n-Octacosane		67.6 %	50-150		"	"	"	"	I-04
MW-12 (L112107-08) Water Sampled: 12/17/01 12:15 Received: 12/17/01 17:55									
Diesel Range Organics (C10-C28)	77	52	ug/l	1	1L31029	12/31/01	01/02/02	8015Bm	I-04
Surrogate: n-Octacosane		74.2 %	50-150		"	"	"	"	I-04



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1120096 - EPA 5030B (P/T)

Blank (1120096-BLK1)

Prepared & Analyzed: 12/26/01

Purgeable Hydrocarbons as Gasoline	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	5.0	"							
Surrogate: a,a,a-Trifluorotoluene	10.3		"	10.0		103	70-130			

LCS (1120096-BS1)

Prepared & Analyzed: 12/26/01

Benzene	11.0	0.50	ug/l	10.0		110	70-130			
Toluene	10.7	0.50	"	10.0		107	70-130			
Ethylbenzene	10.6	0.50	"	10.0		106	70-130			
Xylenes (total)	31.6	0.50	"	30.0		105	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.60		"	10.0		96.0	70-130			

LCS (1120096-BS2)

Prepared & Analyzed: 12/26/01

Purgeable Hydrocarbons as Gasoline	261	50	ug/l	250		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.0		"	10.0		100	70-130			

Matrix Spike (1120096-MS1)

Source: L112099-05

Prepared & Analyzed: 12/26/01

Benzene	10.9	0.50	ug/l	10.0	ND	109	60-140			
Toluene	10.7	0.50	"	10.0	ND	107	60-140			
Ethylbenzene	10.6	0.50	"	10.0	ND	106	60-140			
Xylenes (total)	31.4	0.50	"	30.0	ND	105	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.75		"	10.0		97.5	70-130			

Matrix Spike Dup (1120096-MSD1)

Source: L112099-05

Prepared & Analyzed: 12/26/01

Benzene	11.0	0.50	ug/l	10.0	ND	110	60-140	0.913	25	
Toluene	10.6	0.50	"	10.0	ND	106	60-140	0.939	25	
Ethylbenzene	10.5	0.50	"	10.0	ND	105	60-140	0.948	25	
Xylenes (total)	31.5	0.50	"	30.0	ND	105	60-140	0.318	25	
Surrogate: a,a,a-Trifluorotoluene	10.4		"	10.0		104	70-130			

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
 Project Manager: Deanna Harding

Reported:
 01/07/02 14:26

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120099 - EPA 5030B (P/T)										
Blank (1120099-BLK1) Prepared & Analyzed: 12/27/01										
Purgeable Hydrocarbons as Gasoline	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	5.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.32		"	10.0		83.2	70-130			
LCS (1120099-BS1) Prepared & Analyzed: 12/27/01										
Benzene	11.2	0.50	ug/l	10.0		112	70-130			
Toluene	11.0	0.50	"	10.0		110	70-130			
Ethylbenzene	10.3	0.50	"	10.0		103	70-130			
Xylenes (total)	33.5	0.50	"	30.0		112	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.13		"	10.0		91.3	70-130			
LCS (1120099-BS2) Prepared & Analyzed: 12/27/01										
Purgeable Hydrocarbons as Gasoline	270	50	ug/l	250		108	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.1		"	10.0		101	70-130			
Matrix Spike (1120099-MS1) Source: L112107-08 Prepared & Analyzed: 12/27/01										
Purgeable Hydrocarbons as Gasoline	245	50	ug/l	250	ND	98.0	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.46		"	10.0		94.6	70-130			
Matrix Spike Dup (1120099-MSD1) Source: L112107-08 Prepared & Analyzed: 12/27/01										
Purgeable Hydrocarbons as Gasoline	250	50	ug/l	250	ND	100	60-140	2.02	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.7		"	10.0		107	70-130			

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
 Project Manager: Deanna Harding

 Reported:
 01/07/02 14:26

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120100 - EPA 5030B (P/T)										
Blank (1120100-BLK1) Prepared & Analyzed: 12/27/01										
Purgeable Hydrocarbons as Gasoline	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	5.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.29		"	10.0		92.9	70-130			
LCS (1120100-BS1) Prepared & Analyzed: 12/27/01										
Benzene	12.0	0.50	ug/l	10.0		120	70-130			
Toluene	10.9	0.50	"	10.0		109	70-130			
Ethylbenzene	10.6	0.50	"	10.0		106	70-130			
Xylenes (total)	31.4	0.50	"	30.0		105	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.95		"	10.0		89.5	70-130			
LCS (1120100-BS2) Prepared & Analyzed: 12/27/01										
Purgeable Hydrocarbons as Gasoline	284	50	ug/l	250		114	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.54		"	10.0		95.4	70-130			
Matrix Spike (1120100-MS1) Source: L112107-02 Prepared & Analyzed: 12/27/01										
Purgeable Hydrocarbons as Gasoline	235	50	ug/l	250	ND	94.0	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.1		"	10.0		101	70-130			
Matrix Spike Dup (1120100-MSD1) Source: L112107-02 Prepared & Analyzed: 12/27/01										
Purgeable Hydrocarbons as Gasoline	253	50	ug/l	250	ND	101	60-140	7.38	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.62		"	10.0		96.2	70-130			



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120090 - EPA 5030B [P/T]

Blank (1120090-BLK1)

Prepared & Analyzed: 12/21/01

Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.7</i>		"	<i>50.0</i>		<i>91.4</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.2</i>		"	<i>50.0</i>		<i>102</i>	<i>70-130</i>			

Blank (1120090-BLK2)

Prepared & Analyzed: 12/26/01

Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.8</i>		"	<i>50.0</i>		<i>89.6</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.7</i>		"	<i>50.0</i>		<i>103</i>	<i>70-130</i>			

Blank (1120090-BLK3)

Prepared & Analyzed: 12/26/01

Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.8</i>		"	<i>50.0</i>		<i>89.6</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.7</i>		"	<i>50.0</i>		<i>103</i>	<i>70-130</i>			



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120090 - EPA 5030B [P/T]										
LCS (1120090-BS1) Prepared & Analyzed: 12/21/01										
Methyl tert-butyl ether	57.9	1.0	ug/l	50.0		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	46.4		"	50.0		92.8	70-130			
Surrogate: Toluene-d8	55.4		"	50.0		111	70-130			
LCS (1120090-BS2) Prepared & Analyzed: 12/26/01										
Methyl tert-butyl ether	51.2	1.0	ug/l	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	46.7		"	50.0		93.4	70-130			
Surrogate: Toluene-d8	55.8		"	50.0		112	70-130			
LCS (1120090-BS3) Prepared & Analyzed: 12/26/01										
Methyl tert-butyl ether	51.2	1.0	ug/l	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	46.7		"	50.0		93.4	70-130			
Surrogate: Toluene-d8	55.8		"	50.0		112	70-130			
Matrix Spike (1120090-MS1) Source: L112107-06 Prepared & Analyzed: 12/26/01										
Methyl tert-butyl ether	51.9	1.0	ug/l	50.0	ND	104	60-140			
Surrogate: 1,2-Dichloroethane-d4	45.3		"	50.0		90.6	70-130			
Surrogate: Toluene-d8	56.1		"	50.0		112	70-130			
Matrix Spike Dup (1120090-MSD1) Source: L112107-06 Prepared & Analyzed: 12/26/01										
Methyl tert-butyl ether	51.7	1.0	ug/l	50.0	ND	103	60-140	0.966	25	
Surrogate: 1,2-Dichloroethane-d4	45.2		"	50.0		90.4	70-130			
Surrogate: Toluene-d8	55.7		"	50.0		111	70-130			
Batch 1120095 - EPA 5030B [P/T]										
Blank (1120095-BLK1) Prepared & Analyzed: 12/26/01										
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
Surrogate: 1,2-Dichloroethane-d4	44.8		"	50.0		89.6	70-130			
Surrogate: Toluene-d8	51.7		"	50.0		103	70-130			

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
 Project Manager: Deanna Harding

 Reported:
 01/07/02 14:26

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120095 - EPA 5030B [P/T]
Blank (1120095-BLK2)

Prepared & Analyzed: 12/27/01

Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	43.0		"	50.0		86.0	70-130			
<i>Surrogate: Toluene-d8</i>	51.6		"	50.0		103	70-130			

Blank (1120095-BLK3)

Prepared & Analyzed: 12/28/01

Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	52.2		"	50.0		104	70-130			
<i>Surrogate: Toluene-d8</i>	54.3		"	50.0		109	70-130			

LCS (1120095-BS1)

Prepared & Analyzed: 12/26/01

Methyl tert-butyl ether	51.2	1.0	ug/l	50.0		102	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.7		"	50.0		93.4	70-130			
<i>Surrogate: Toluene-d8</i>	55.8		"	50.0		112	70-130			



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120095 - EPA 5030B [P/T]

LCS (1120095-BS2)

Prepared & Analyzed: 12/27/01

Methyl tert-butyl ether	52.5	1.0	ug/l	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	45.0		"	50.0		90.0	70-130			
Surrogate: Toluene-d8	56.4		"	50.0		113	70-130			

LCS (1120095-BS3)

Prepared & Analyzed: 12/28/01

Methyl tert-butyl ether	58.7	1.0	ug/l	50.0		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	48.8		"	50.0		97.6	70-130			
Surrogate: Toluene-d8	55.2		"	50.0		110	70-130			

Matrix Spike (1120095-MS1)

Source: L112120-02

Prepared: 12/26/01 Analyzed: 12/28/01

Methyl tert-butyl ether	60.5	1.0	ug/l	50.0	ND	121	60-140			
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.0		100	70-130			
Surrogate: Toluene-d8	59.0		"	50.0		118	70-130			

Matrix Spike Dup (1120095-MSD1)

Source: L112120-02

Prepared: 12/26/01 Analyzed: 12/28/01

Methyl tert-butyl ether	59.7	1.0	ug/l	50.0	ND	119	60-140	1.67	25	
Surrogate: 1,2-Dichloroethane-d4	48.1		"	50.0		96.2	70-130			
Surrogate: Toluene-d8	55.9		"	50.0		112	70-130			

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
 Project Manager: Deanna Harding

Reported:
 01/07/02 14:26

Diesel Hydrocarbons (C10-C28) by 8015B modified - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L31029 - EPA 3510B										
Blank (1L31029-BLK1)										
					Prepared: 12/31/01 Analyzed: 01/02/02					
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: <i>n-Octacosane</i>	39.6		"	50.0		79.2	50-150			
LCS (1L31029-BS1)										
					Prepared: 12/31/01 Analyzed: 01/02/02					
Diesel Range Organics (C10-C28)	459	50	ug/l	500		91.8	60-140			
Surrogate: <i>n-Octacosane</i>	7.80		"	50.0		15.6	50-150			1-04
LCS Dup (1L31029-BSD1)										
					Prepared: 12/31/01 Analyzed: 01/02/02					
Diesel Range Organics (C10-C28)	359	50	ug/l	500		71.8	60-140	24.4	50	
Surrogate: <i>n-Octacosane</i>	6.33		"	50.0		12.7	50-150			1-04



Gettler-Ryan/Geostrategies(1)
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Project: Tosco(1)
Project Number: Tosco (Unocal) SS#7376, Pleasanton, CA
Project Manager: Deanna Harding

Reported:
01/07/02 14:26

Notes and Definitions

- I-04 The LCS recovery was below the control limit by 38% for the surrogate. This should be considered in evaluating the results associated with this batch for their intended purpose.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- S-LIM The surrogate recovery was outside control limits. The result may still be useful for its intended purpose.
- 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