



GETTLER-RYAN INC.

TRANSMITTAL

JUN 05 2001

May 17, 2001
G-R #180065

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

CC: Mr. Douglas Lee
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

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

RE: Tosco (Unocal) SS#5043
449 Hegenberger Road
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 9, 2001	Groundwater Monitoring and Sampling Report Second Quarter – Event of April 4, 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 **May 31, 2001**, this report will be distributed to the following:

cc: ~~Mr. Barney M. Chan, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502~~
Beretta Investment Group, 39560 Stevenson Place, Suite 118, Fremont, CA 94539

Enclosure

trans/5043.dbd



GETTLER-RYAN INC.

May 9, 2001
G-R Job #180065

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

RE: Second Quarter Event of April 4, 2001
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, 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. Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data is summarized in Table 3. A Potentiometric Map is included as Figure 1.

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

Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, R.G. No. 6882

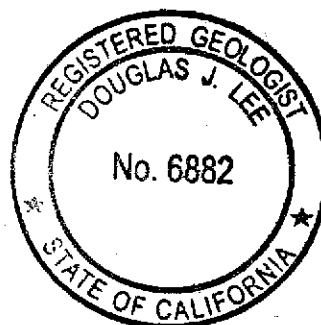
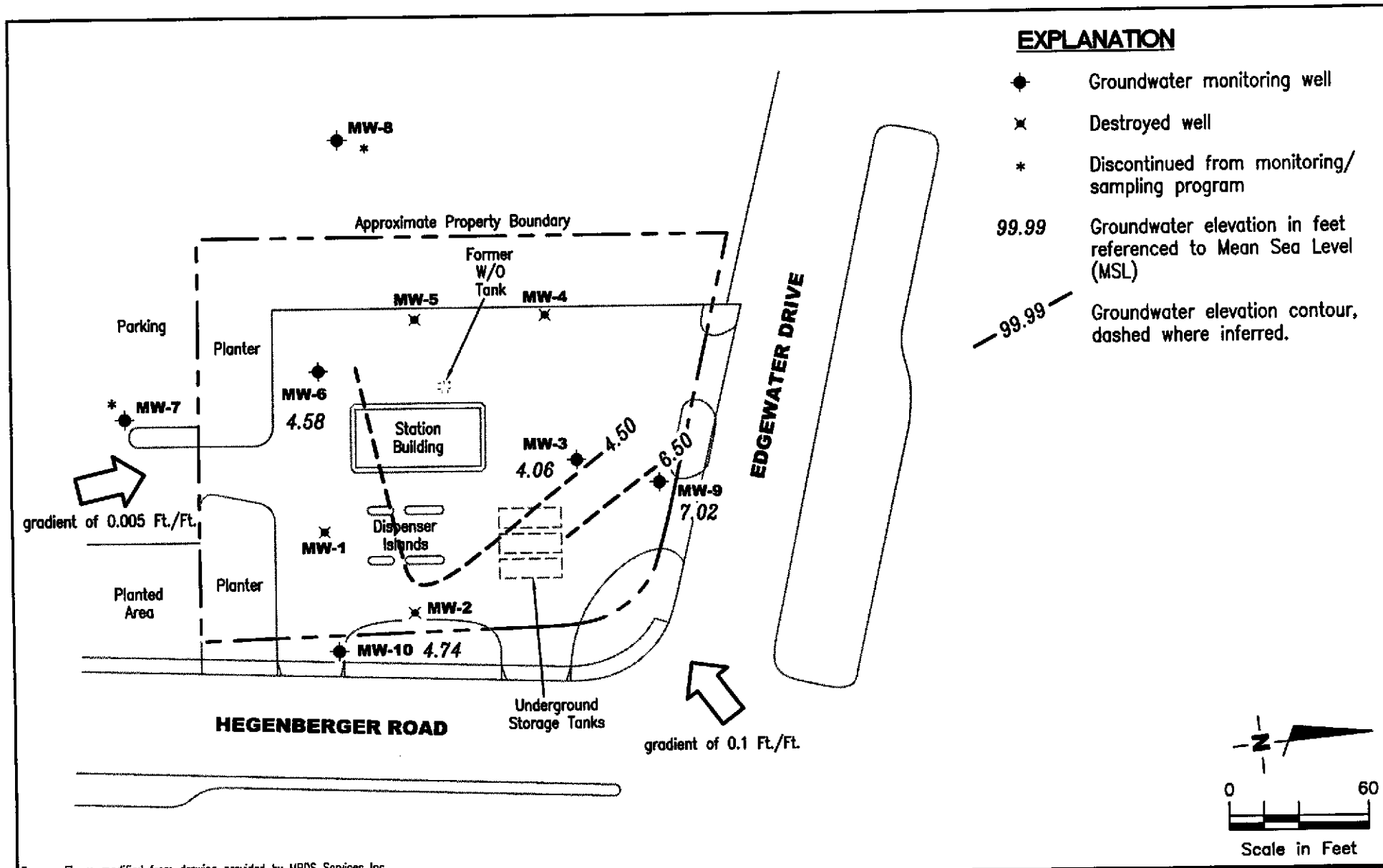


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Product Thickness/Removal Data
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets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

5043.qml



Source: Figure modified from drawing provided by MPDS Services Inc..

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 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

FIGURE
1

PROJECT NUMBER
180065

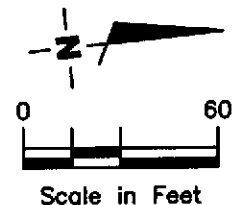
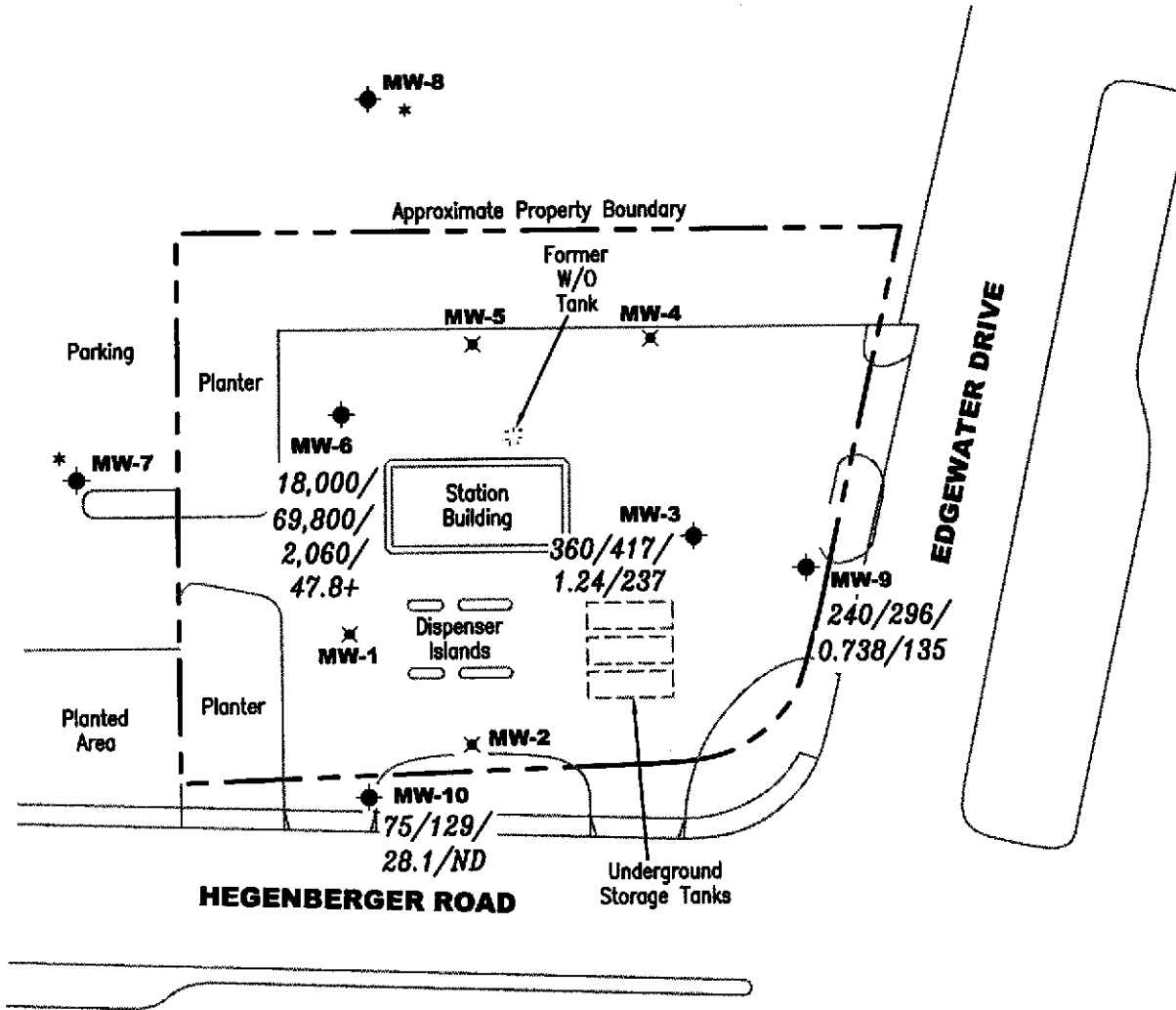
REVIEWED BY

DATE
April 4, 2000

REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well
- × Destroyed well
- * Discontinued from monitoring/sampling program
- 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
- + MTBE by EPA Method 8260



Source: Figure modified from drawing provided by MPDS Services Inc..

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

CONCENTRATION MAP
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

FIGURE
2

PROJECT NUMBER
180065

REVIEWED BY

DATE
 April 4, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California

WELL ID/ TOC*	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	02/18/92	--	--	--	--	13,000	150,000	17,000	26,000	5,200	26,000	--
	05/20/92	--	--	--	--	--	--	--	--	--	--	--
	08/31/92	--	--	--	--	8,900 ¹	64,000	13,000	12,000	2,500	22,000	--
	11/30/92	--	--	--	--	--	--	--	--	--	--	--
	02/04/93	--	--	--	--	--	--	--	--	--	--	--
8.96*	05/04/93	2.13		5.73**	0.10	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	08/04/93	2.92		4.88**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
7.38	11/03/93	3.04		4.74	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	02/07/94	2.55		4.85**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	05/19/94	2.23		5.16**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	06/25/94	2.49		4.90**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	07/27/94	3.10		4.28	0.00	--	--	--	--	--	--	--
	08/15/94	2.85		4.61**	0.11	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	11/14/94	2.97		4.50**	0.12	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	02/21/95	1.53		5.87**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
DESTROYED												
MW-2	02/18/92	--	--	--	--	4,300	29,000	1,000	5,300	260	7,900	--
	05/20/92	--	--	--	--	4,300 ¹	24,000	2,200	7,600	630	11,000	--
	08/31/92	--	--	--	--	1,600 ¹	9,000	1,800	640	140	2,000	--
	11/30/92	--	--	--	--	5,700 ¹	29,000	2,000	3,400	1,200	6,900	--
	02/04/93	--	--	--	--	6,100 ¹	18,000	1,600	3,000	ND	6,900	--
8.96*	05/04/93	2.48		6.48	0.00	7,100 ¹	63,000	3,200	17,000	470	17,000	--
	08/04/93	3.20		5.76	0.00	1,800 ²	45,000	2,100	6,600	1,400	12,000	--
8.58	11/03/93	3.37		5.21	0.00	2,600 ²	72,000	3,700	16,000	3,700	20,000	--
	02/07/94	2.40		6.18	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	05/19/94	2.13		6.45	0.00	3,000 ²	42,000	2,500	1,300	2,300	13,000	--
	06/25/94	2.65		5.93	0.00	--	--	--	--	--	--	--
	07/27/94	3.44		5.14	0.00	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (mst)	Product Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	08/15/94	3.25	--	5.33	0.00	2,800 ²	35,000	2,400	850	1,700	15,000	--
(cont)	11/14/94	2.13		6.45	0.00	10,000 ¹	43,000	2,200	6,500	1,800	14,000	--
	02/21/95	1.65		6.93	0.00	2,000 ²	44,000	2,200	3,200	1,300	1,500	--
	DESTROYED											
MW-3	02/18/92	--	2.5-14.0	--	--	ND	230	4.8	22	1.8	33	--
	05/20/92	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	08/31/92	--		--	--	92 ²	210 ⁴	1	ND	ND	ND	--
	11/30/92	--		--	--	94	790 ⁴	ND	ND	ND	ND	--
	02/04/93	--		--	--	550 ²	3,300	320	ND	96	6.1	--
7.84*	05/04/93	4.32		3.52	0.00	250 ²	1,800 ³	95	ND	ND	ND	--
	08/04/93	4.94		2.90	0.00	100	210 ⁴	ND	ND	ND	ND	--
7.42	11/03/93	4.53		2.89	0.00	160	640 ⁴	ND	ND	ND	ND	--
	02/07/94	2.40		5.02	0.00	620 ²	2,700	110	ND	17	ND	--
	05/19/94	3.60		3.82	0.00	480 ²	1,800	83	ND	6.2	9.1	--
	06/25/94	4.58		2.84	0.00	--	--	--	--	--	--	--
	07/27/94	4.58		2.84	0.00	--	--	--	--	--	--	--
	08/15/94	4.65		2.77	0.00	110 ²	130	1.1	0.54	ND	0.97	--
	11/14/94	3.18		4.24	0.00	150 ²	1,600 ⁴	ND	ND	ND	ND	--
	02/21/95	1.81		5.61	0.00	850 ²	3,800	350	ND	130	22	--
	05/18/95	4.56		2.86	0.00	150 ¹	1,300 ³	42	ND	ND	ND	--
	08/17/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	07/26/96	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	10/28/96 ⁶	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	01/29/97	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	04/15/97	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	05/27/97	3.45		4.59	0.00	--	670	6.5	ND	ND	ND	250
	06/01/97	3.50		4.54	0.00	610 ²	--	--	--	--	--	--
8.04	07/15/97	3.71		4.33	0.00	240 ²	240	ND	ND	ND	ND	490
	10/09/97	3.70		4.34	0.00	500 ²	270	1.1	ND	2.4	1.4	910

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID/ TOC*	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-3	01/14/98	2.16	2.5-14.0	5.88	0.00	340 ⁷	310	ND	ND	0.62	0.65	140
(cont)	04/01/98	2.20		5.84	0.00	320 ⁷	370	5.7	ND ⁹	ND ⁹	ND ⁹	93
	07/15/98	3.38		4.66	0.00	510 ¹⁰	460 ¹¹	ND ⁹	ND ⁹	ND ⁹	ND ⁹	230
	10/16/98	2.30		5.74	0.00	67 ¹³	330 ¹⁴	4.7	ND ⁹	ND ⁹	ND ⁹	60
	01/25/99	2.42		5.62	0.00	120 ⁷	420 ¹⁴	1.5	ND ⁹	ND ⁹	ND ⁹	180
	04/15/99	2.16		5.88	0.00	170 ¹⁷	290	0.54	ND	ND	ND	160
	07/14/99	2.35		5.69	0.00	420 ¹⁹	290	3.2	ND	ND	ND	160
	10/21/99	2.49		5.55	0.00	350 ⁷	360 ²³	0.77	ND	ND	ND	82
	01/20/00	2.38		5.66	0.00	2,060 ¹	ND	0.81	ND	ND	ND	54
	04/13/00	2.76		5.28	0.00	200 ²¹	250 ²³	0.69	ND	ND	ND	91/150 ²⁶
	07/14/00	3.26		4.78	0.00	423 ⁷	345 ²⁷	ND	ND	ND	ND	94.7
	10/26/00	3.12		4.92	0.00	330 ²⁹	480 ²³	6.0	ND ⁹	ND ⁹	ND ⁹	120
	01/03/01	3.65		4.39	0.00	287 ⁷	364 ²⁷	1.59	ND	ND	ND	118
	04/04/01	3.98		4.06	0.00	360⁷	417²⁷	1.24	ND	ND	0.802	237
MW-4	08/31/92	--	--	--	--	90 ²	240 ⁴	ND	ND	ND	0.54	--
	11/30/92	--		--	--	61	420 ⁴	ND	ND	ND	ND	--
	02/04/93	--		--	--	ND	ND	ND	ND	ND	ND	--
9.00*	05/04/93	4.09		4.91	0.00	ND	110 ³	0.95	ND	ND	ND	--
	08/04/93	5.01		3.99	0.00	81	250 ⁴	ND	3.5	ND	4.1	--
8.41	11/03/93	4.23		4.18	0.00	68	130 ⁴	ND	ND	ND	ND	--
	02/07/94	3.35		5.06	0.00	ND	56 ⁴	ND	ND	ND	ND	--
	05/19/94	3.92		4.49	0.00	90 ²	140 ⁴	ND	ND	ND	ND	--
	06/25/94	4.35		4.06	0.00	--	--	--	--	--	--	--
	07/27/94	4.28		4.13	0.00	--	--	--	--	--	--	--
	08/15/94	4.27		4.14	0.00	72 ²	59 ⁴	ND	0.6	ND	ND	--
	11/14/94	4.05		4.36	0.00	ND	130 ⁴	ND	ND	ND	ND	--
	DESTROYED											

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Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product		B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)		
					Thickness (ft.)	TPH-D (ppb)							
MW-5	08/31/92	--	--	--	--	690 ¹	78	0.89	ND	ND	13	--	
	11/30/92 ⁵	--	--	--	--	470 ²	930	70	290	0.79	14	--	
	02/04/93 ⁵	--	--	--	--	5,500 ²	5,700	38	ND	620	170	--	
	05/04/93 ⁵	4.37		4.90	0.00	4,600 ¹	7,400	41	ND	1,000	35	--	
	08/04/93 ⁵	5.81		3.46	0.00	970 ²	1,500	130	1	460	11	--	
8.95	11/03/93	5.68		3.27	0.00	2,100 ²	13,000	350	ND	3,500	530	--	
	02/07/94	5.11		3.84	0.00	830 ²	2,000	87	ND	370	110	--	
	05/19/94	5.09		3.86	0.00	600 ²	260	44	ND	32	4.1	--	
	06/25/94	4.55		4.40	0.00	--	--	--	--	--	--	--	
	07/27/94	5.72		3.23	0.00	--	--	--	--	--	--	--	
	08/15/94	5.68		3.27	0.00	860 ²	1,600	110	ND	340	72	--	
	11/14/94	5.63		3.32	0.00	290 ¹	250	40	ND	ND	5	--	
	DESTROYED												
MW-6	08/31/92	--	2.5-13.5	--	--	750 ²	ND	ND	ND	ND	ND	--	
	11/30/92	--		--	--	1,400 ¹	9,200	550	ND	740	1,600	--	
9.12*	02/04/93	--		--	--	890 ²	3,600	340	ND	290	550	--	
	05/04/93	3.72		5.40	0.00	1,800 ¹	4,900	360	18	450	430	--	
	08/04/93	5.15		3.97	0.00	1,100 ²	3,400	390	ND	440	190	--	
8.87	11/03/93	5.25		3.62	0.00	390 ²	1,400	320	ND	200	7.7	--	
	02/07/94	4.55		4.32	0.00	970 ²	4,900	650	ND	250	35	--	
	05/19/94	4.62		4.25	0.00	1,400 ²	3,600	300	1.7	210	41	--	
	08/15/94	5.08		3.79	0.00	790 ²	1,300	130	6.7	54	57	--	
	11/14/94	5.30		3.57	0.00	800 ²	730	50	ND	ND	39	--	
	02/21/95	5.37		3.50	0.00	730 ²	2,000	250	4.6	25	30	--	
	05/18/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
	08/17/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
	07/26/96	6.40		5.03**	3.33	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
	10/28/96	4.10		4.93**	0.21	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT						--	--
11/13/96	4.02		5.04**	0.25	--	--	--	--	--	--	--	--	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID/ TOC*	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-6	11/25/96	4.01	2.5-13.5	5.44**	0.75	--	--	--	--	--	--	--
(cont)	12/04/96	3.65		5.61**	0.50	--	--	--	--	--	--	--
	12/19/96	4.80		5.76**	2.20	--	--	--	--	--	--	--
	01/08/97	4.84		5.38**	1.75	--	--	--	--	--	--	--
	01/14/97	4.51		5.25**	1.15	--	--	--	--	--	--	--
	01/27/97	4.00		6.22**	1.75	--	--	--	--	--	--	--
	01/29/97	3.24		5.87**	0.31	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	02/11/97	4.65		5.14**	1.20	--	--	--	--	--	--	--
	02/24/97	4.81		4.91**	1.10	--	--	--	--	--	--	--
	03/10/97	4.60		5.00**	0.95	--	--	--	--	--	--	--
	03/17/97	4.50		5.06**	0.89	--	--	--	--	--	--	--
	03/31/97	4.65		4.99**	1.00	--	--	--	--	--	--	--
	04/15/97	4.90		4.76**	1.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	04/28/97	4.78		4.11**	0.03	--	--	--	--	--	--	--
	05/15/97	4.60		4.46**	0.25	--	--	--	--	--	--	--
	05/27/97	4.50		4.56**	0.25	--	--	--	--	--	--	--
	06/09/97	4.60		4.42**	0.20	--	--	--	--	--	--	--
	06/24/97	4.50		4.56**	0.25	--	--	--	--	--	--	--
	07/09/97	4.80		4.53**	0.60	--	--	--	--	--	--	--
	07/15/97	4.63		4.56**	0.42	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	07/21/97	4.75		4.31**	0.25	--	--	--	--	--	--	--
	08/06/97	4.50		4.45**	0.10	--	--	--	--	--	--	--
	08/20/97	4.55		4.40**	0.10	--	--	--	--	--	--	--
	09/02/97	4.75		4.16**	0.05	--	--	--	--	--	--	--
	10/09/97	4.84		4.06**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	01/14/98	3.90		5.69**	0.94	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	02/12/98	3.35		6.01**	0.64	--	--	--	--	--	--	--
	03/03/98	4.51		4.38**	0.02	--	--	--	--	--	--	--
	04/01/98	3.67		6.43**	1.60	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	05/26/98	4.11		5.15**	0.50	--	--	--	--	--	--	--
	06/15/98	5.03		4.07**	0.30	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product							MTBE (ppb)	
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)		
MW-6	07/15/98	4.56	2.5-13.5	4.35**	0.05	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							--
(cont)	08/21/98	4.77		4.12**	0.02	--	--	--	--	--	--	--	
	09/30/98	5.08		3.81**	0.03	--	--	--	--	--	--	--	
	10/16/98	4.31		6.41**	2.40	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							--
	11/06/98	3.98		5.02**	0.17	--	--	--	--	--	--	--	
	11/25/98	3.92		5.03**	0.10	--	--	--	--	--	--	--	
	12/28/98	3.90		5.12**	0.20	--	--	--	--	--	--	--	
	01/25/99	4.18		5.15**	0.60	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							--
	02/22/99	4.07		4.97**	0.22	--	--	--	--	--	--	--	
	03/22/99	4.32		4.67**	0.15	--	--	--	--	--	--	--	
	04/15/99	4.23		5.37**	0.95	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							--
	05/28/99	4.38		4.79**	0.39	--	--	--	--	--	--	--	
	06/29/99	4.12		4.77**	0.02	--	--	--	--	--	--	--	
	07/14/99	4.20		4.69**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							--
	08/23/99	4.51		4.54**	0.24	--	--	--	--	--	--	--	
	09/30/99	4.17		4.83**	0.17	--	--	--	--	--	--	--	
	10/21/99	4.27		4.69**	0.12	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT							--
	11/29/99	4.18		4.69	<0.01	--	--	--	--	--	--	--	
	12/20/99	4.26		4.62**	0.01	--	--	--	--	--	--	--	
	01/20/00	4.31		4.56	<0.01	67,600 ¹	130,000 ²³	2,900	8,600	2,000	16,000	ND ⁹	
	02/26/00	3.98		4.89	0.00	--	--	--	--	--	--	--	
	03/31/00	4.14		4.73	0.00	--	--	--	--	--	--	--	
	04/13/00	4.04		4.83	0.00	8,700 ⁷	140,000 ²³	5,000	14,000	3,600	27,000	7,700	
	05/26/00	4.41		4.46	0.00	--	--	--	--	--	--	--	
	06/17/00	4.35		4.52	0.00	--	--	--	--	--	--	--	
	07/14/00	4.47		4.40	<0.01	133,000 ⁷	259,000 ²³	7,670	13,700	6,860	40,700	⁹ ND/ND ^{9,26}	
	08/24/00	3.71		5.16	0.00	--	--	--	--	--	--	--	
	09/27/00	4.33		4.54	0.00	--	--	--	--	--	--	--	
	10/26/00	4.32		4.55	0.00	61,000 ²⁸	110,000 ²³	7,000	6,200	3,700	12,000	670/43 ³⁰	
	01/03/01	4.52		4.35	0.00	929 ⁷	84,700 ²³	3,950	4,130	3,650	11,800	⁹ ND/ND ^{9,26}	
	04/04/01	4.29		4.58	0.00	18,000 ²⁸	69,800 ²³	2,060	2,840	3,650	10,900	⁹ ND/47.8 ²⁶	

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID/ TOC*	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	05/27/97	4.50	3.0-13.0	4.33	0.00	--	68	ND	ND	ND	ND	ND
8.83	06/01/97	4.54		4.29	0.00	69 ²	--	--	--	--	--	--
	07/15/97	4.70		4.13	0.00	ND	ND	ND	ND	ND	ND	ND
	10/09/97	4.30		4.53	0.00	190 ¹	ND	ND	ND	ND	ND	ND
	01/14/98	2.88		5.95	0.00	65 ⁷	ND	ND	ND	ND	ND	36
	04/01/98	3.13		5.70	0.00	ND	ND	ND	ND	ND	ND	ND
	07/15/98	4.45		4.38	0.00	74 ¹²	ND	ND	ND	ND	ND	ND
	10/16/98	3.45		5.38	0.00	ND	ND	ND	ND	ND	ND	ND
	01/25/99	3.22		5.61	0.00	ND	ND	ND	ND	ND	ND	ND
	04/15/99	3.11		5.72	0.00	ND	ND	ND	ND	ND	ND	ND
	07/14/99	3.34		5.49	0.00	69 ²⁰	ND	ND	ND	ND	ND	ND
	10/21/99	3.43		5.40	0.00	ND	ND	ND	ND	ND	ND	ND
	01/20/00	3.29		5.54	0.00	ND	ND	ND	ND	ND	ND	4.2
	04/13/00	3.39		5.44	0.00	ND ⁹	ND	ND	ND	ND	ND	ND
	07/14/00	4.42		4.41	0.00	68.0 ⁷	ND	ND	ND	ND	ND	7.83
NOT MONITORED/SAMPLED												
MW-8	05/27/97	3.42	3.0-15.0	5.10	0.00	--	310	0.88	0.67	15	70	ND
8.52	06/01/97	3.46		5.06	0.00	320 ²	--	--	--	--	--	--
	07/15/97	3.49		5.03	0.00	ND	ND	ND	ND	2.7	3.8	ND
	10/09/97	3.73		4.79	0.00	390 ¹	590	1.4	ND	32	4.1	ND
	01/14/98	1.92		6.60	0.00	230 ⁷	ND	ND	ND	ND	ND	ND
	04/01/98	2.38		6.14	0.00	510 ⁷	ND	ND	ND	ND	ND	4.7
	07/15/98	3.53		4.99	0.00	140 ¹²	ND	ND	ND	0.56	1.1	ND
	10/16/98	3.04		5.48	0.00	170 ¹⁵	ND	ND	ND	ND	ND	ND
	01/25/99	2.92		5.60	0.00	ND ⁹	ND	ND	ND	ND	ND	ND
	04/15/99	2.40		6.12	0.00	91 ¹²	ND	ND	ND	ND	ND	ND
	07/14/99	3.03		5.49	0.00	120 ²¹	ND	ND	ND	ND	ND	ND
	10/21/99	3.11		5.41	0.00	110 ²⁴	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product		B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
					Thickness (ft.)	TPH-D (ppb)						TPH-G (ppb)
MW-8	01/20/00	3.06	3.0-15.1	5.46	0.00	583 ¹	ND	ND	ND	ND	ND	ND
(cont)	04/13/00	2.84		5.68	0.00	80 ²⁴	ND	ND	ND	ND	ND	ND
	07/14/00	3.39		5.13	0.00	113 ⁷	ND	ND	ND	ND	ND	ND
NOT MONITORED/SAMPLED												
MW-9	02/21/95	1.98	3.0-13.0	6.31	0.00	71 ²	70 ⁴	ND	ND	ND	ND	--
8.29	05/18/95	3.47		4.82	0.00	ND	52	ND	1.1	ND	1.9	--
	08/17/95	1.49		6.80	0.00	ND	ND	ND	ND	ND	ND	--
	07/26/96	0.28		8.01	0.00	98	ND	ND	ND	ND	ND	ND
	10/28/96	1.15		7.14	0.00	99 ¹	ND	ND	ND	ND	ND	7.6
	01/29/97	1.05		7.24	0.00	54	ND	ND	ND	ND	ND	5.4
	04/15/97	1.88		6.41	0.00	94 ¹	ND	ND	ND	ND	ND	5.4
	05/27/97	1.05		7.24	0.00	--	--	--	--	--	--	--
	07/15/97	1.90		6.39	0.00	ND	ND	ND	ND	ND	ND	ND
	10/09/97	1.76		6.53	0.00	160 ¹	ND	ND	ND	ND	ND	ND
	01/14/98	1.26		7.03	0.00	110 ⁷	ND	ND	ND	ND	ND	3.0
	04/01/98	0.85		7.44	0.00	110 ⁷	ND	ND	ND	ND	ND	ND
	07/15/98	1.52		6.77	0.00	200 ¹²	ND	ND	ND	ND	ND	ND
	10/16/98	0.81		7.48	0.00	ND	ND	ND	ND	ND	ND	ND
	01/25/99	0.92		7.37	0.00	ND	ND	ND	ND	ND	ND	ND
	04/15/99	0.90		7.39	0.00	ND	75 ¹⁸	21	ND	ND	1.1	680
	07/14/99	1.04		7.25	0.00	140 ²¹	ND	1.9	ND	ND	ND	260
	10/21/99	1.23		7.06	0.00	210 ²⁴	ND	ND	ND	ND	ND	170
	01/20/00	1.18		7.11	0.00	519 ¹	ND	1.1	ND	ND	ND	35
	04/13/00	1.08		7.21	0.00	81 ²⁵	160 ²³	0.64	ND	ND	ND	53
	07/14/00	1.43		6.86	0.00	107 ⁷	ND	ND	ND	ND	ND	20.2
	10/26/00	1.38		6.91	0.00	240 ⁷	240 ²³	2.9	ND	ND	ND	56
	01/03/01	1.66		6.63	0.00	164 ⁷	166 ²⁷	0.763	0.776	ND	1.28	50.2
	04/04/01	1.27		7.02	0.00	240 ⁷	296 ²⁷	0.738	ND	ND	0.907	135

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID/ TOC*	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-10	02/21/95	4.69	3.0-13.0	3.93	0.00	270 ²	1,500	250	26	9.1	160	--
8.62	05/18/95	4.92		3.70	0.00	75 ¹	810	520	ND	18	23	--
	08/17/95	4.05		4.57	0.00	ND	67	25	ND	2.4	ND	--
	07/26/96	4.08		4.54	0.00	ND	ND	3.7	ND	ND	ND	ND
	10/28/96	4.09		4.53	0.00	ND	ND	1.1	ND	ND	ND	ND
	01/29/97	2.94		5.68	0.00	ND	210	41	0.67	7.2	4.8	11
	04/15/97	4.07		4.55	0.00	ND	110	12	ND	0.77	ND	9.7
	05/27/97	4.40		4.22	0.00	--	--	--	--	--	--	--
	07/15/97	4.19		4.43	0.00	ND	ND	2.1	ND	0.67	0.73	ND
	10/09/97	4.75		3.87	0.00	ND	190	38	0.92	6.6	7.6	ND
	01/14/98	2.66		5.96	0.00	-- ⁸	59	9.5	0.85	1.2	1.7	4.5
	04/01/98	3.45		5.17	0.00	62 ⁷	230	66	1.7	12	17	6.4
	07/15/98	4.21		4.41	0.00	78 ¹²	290	98	45	21	38	21
	10/16/98	4.11		4.51	0.00	ND	160 ¹⁶	44	0.96	2.5	10	17
	01/25/99	3.26		5.36	0.00	ND	140	27	ND	2.8	6.8	23
	04/15/99	3.63		4.99	0.00	ND	120	18	ND	1.8	5.1	14
	07/14/99	3.89		4.73	0.00	180 ²²	280	55	3.2	11	31	6.1
	10/21/99	4.09		4.53	0.00	96 ⁷	140 ²³	22	0.59	1.7	7.7	5.3
	01/20/00	3.92		4.70	0.00	252 ¹	ND	0.73	0.86	ND	ND	5.2
	04/13/00	3.85		4.77	0.00	69 ²⁴	67 ²³	54	ND	2.6	ND	3.8
	07/14/00	4.18		4.44	0.00	149 ⁷	ND	0.547	ND	ND	ND	ND
	10/26/00	3.96		4.66	0.00	83 ²⁴	ND	3.3	ND	0.83	1.5	ND
	01/03/01	4.14		4.48	0.00	126 ⁷	52.7 ²³	5.15	ND	0.823	1.57	ND
	04/04/01	3.88		4.74	0.00	75 ²⁴	129 ²³	28.1	1.67	4.97	10.1	ND
Trip Blank												
TB-LB	01/14/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/01/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/15/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/16/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product		B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
					Thickness (ft.)	TPH-D (ppb)						
TB-LB	01/25/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
(cont)	04/15/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/14/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/21/99	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	01/20/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/13/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/14/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/26/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	01/03/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/04/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to January 14, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	B = Benzene	(ppb) = Parts per billion
DTW = Depth to Water	T = Toluene	ND = Not Detected
(ft.) = Feet	E = Ethylbenzene	-- = Not Measured/Not Analyzed
S. I. = Screen Interval	X = Xylenes	
(ft. bgs) = Feet Below Ground Surface	MTBE = Methyl tertiary butyl ether	
GWE = Groundwater Elevation		
(msl) = Mean sea level		
TPH-D = Total Petroleum Hydrocarbons as Diesel		
TPH-G = Total Petroleum Hydrocarbons as Gasoline		

- * TOC elevations are relative to msl, per the City of Oakland Benchmark #3880, (Elevation = 20.37 feet, msl).
 - ** GWE corrected for the presence of free product; correction factor: [(TOC - DTW) + (Product Thickness x 0.77)].
 - Elevations were based on the top of the well covers and were surveyed relative to msl, per the City of Oakland Benchmark #3880, (Elevation = 20.37 feet).
- 1 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
 - 2 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
 - 3 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
 - 4 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
 - 5 Total Oil and Grease (TOG) was ND.
 - 6 The well was obstructed with debris at 0.55 feet. A water sample was collected but was not analyzed as it was considered not representative of groundwater in this well.
 - 7 Laboratory report indicates unidentified hydrocarbons C9-C24
 - 8 Sample bottle broken at laboratory.
 - 9 Detection limit raised. Refer to analytical reports.
 - 10 Laboratory report indicates unidentified hydrocarbons >C14 and <C12.
 - 11 Laboratory report indicates gasoline and unidentified hydrocarbons >C8.
 - 12 Laboratory report indicates unidentified hydrocarbons >C14.
 - 13 Laboratory report indicates non diesel mix >C14.
 - 14 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
 - 15 Laboratory report indicates non diesel mix C9-C27.
 - 16 Laboratory report indicates unidentified hydrocarbons <C7.
 - 17 Laboratory report indicates unidentified hydrocarbons >C10.
 - 18 Laboratory report indicates unidentified hydrocarbons C6-C12.

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California

EXPLANATIONS: (cont)

- 19 Laboratory report indicates unidentified hydrocarbons >C9.
- 20 Laboratory report indicates discrete peaks and unidentified hydrocarbons >C20.
- 21 Laboratory report indicates discrete peaks and unidentified hydrocarbons >C16.
- 22 Laboratory report indicates unidentified hydrocarbons <C14 and >C16.
- 23 Laboratory report indicates gasoline C6-C12.
- 24 Laboratory report indicates unidentified hydrocarbons >C16.
- 25 Laboratory report indicates discrete peaks.
- 26 MTBE by EPA Method 8260.
- 27 Laboratory report indicates weathered gasoline C6-C12.
- 28 Laboratory report indicates unidentified hydrocarbons <C16
- 29 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 30 MTBE by EPA Method 8260 was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	04/13/00	ND	ND	150	ND	ND	ND	ND	ND
MW-6	07/14/00	--	--	ND ¹	--	--	--	--	--
	10/26/00	--	--	43 ²	--	--	--	--	--
	01/03/01	--	--	ND ¹	--	--	--	--	--
	04/04/01	ND ¹	ND ¹	47.8	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹

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

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

¹ Detection limit raised. Refer to analytical reports.

² Laboratory report indicates sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

Table 3
Product Thickness/Removal Data
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID	DATE	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) (gallons)
MW-6	07/26/96	6.40	3.33	2.10
	10/28/96	4.10	0.21	0.14
	11/13/96	4.02	0.25	0.09
	11/25/96	4.01	0.75	0.47
	12/04/96	3.65	0.50	0.43
	12/19/96	4.80	2.20	1.02
	01/08/97	4.84	1.75	0.59
	01/14/97	4.51	1.15	0.66
	01/27/97	4.00	1.75	0.78
	01/29/97	3.24	0.31	0.25
	02/11/97	4.65	1.20	0.62
	02/24/97	4.81	1.10	0.50
	03/10/97	4.60	0.95	0.47
	03/17/97	4.50	0.89	0.35
	03/31/97	4.65	1.00	0.50
	04/15/97	4.90	1.03	0.51
	04/28/97	4.78	0.03	0.20
	05/15/97	4.60	0.25	0.20
	05/27/97	4.50	0.25	0.00
	06/09/97	4.60	0.20	0.23
	06/24/97	4.50	0.25	0.25
	07/09/97	4.80	0.60	0.25
	07/15/97	4.63	0.42	0.20
	07/21/97	4.75	0.25	0.27
	08/06/97	4.50	0.10	0.16
	08/20/97	4.55	0.10	0.20
	09/02/97	4.75	0.05	0.12
	10/09/97	4.84	0.04	0.12
	01/14/98 ¹	3.90	0.94	1.50
	02/12/98 ¹	3.35	0.64	0.32
	03/03/98 ¹	4.51	0.02	2.00
	04/01/98 ¹	3.67	1.60	0.50
	05/26/98 ¹	4.11	0.50	0.08
	06/15/98 ¹	5.03	0.30	0.060
	07/15/98 ¹	4.56	0.05	0.10
	08/21/98 ¹	4.77	0.02	0.040
	09/30/98 ¹	5.08	0.03	0.027
	10/16/98 ¹	4.32	2.40	0.98
	11/06/98 ¹	3.98	0.17	0.16
	11/25/98 ¹	3.92	0.10	0.12
	12/28/98 ¹	3.90	0.20	0.14
	01/25/99 ¹	4.18	0.60	0.27
	02/22/99 ¹	4.07	0.22	0.078 product/3.0 water
	03/22/99 ¹	4.32	0.15	0.039 product/5.0 water

Table 3
Product Thickness/Removal Data
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

WELL ID	DATE	DTW (ft.)	Product Thickness (ft.)	Amount Bailed (Product + Water) (gallons)
MW-6	04/15/99 ¹	4.23	0.95	1.0 product
(cont)	05/28/99 ¹	4.38	0.39	0.141 product/1.0 water
	06/29/99 ¹	4.12	0.02	0.054 product/8.0 water
	07/14/99 ¹	4.20	0.03	0.039 product/2.0 water
	08/23/99 ¹	4.51	0.24	0.094 product/1.0 water
	09/30/99 ¹	4.17	0.17	0.141 product/1.0 water
	10/21/99 ¹	4.27	0.12	0.070 product/1.0 water
	11/29/99 ²	4.18	<0.01	0.0078 product/1.0 water
	12/20/99 ²	4.26	0.01	0.0156 product/1.0 water
	01/20/00 ²	4.31	<0.01	0.00
	02/26/00	3.98	0.00	0.00
	03/31/00	4.14	0.00	0.00
	04/13/00	4.04	0.00	0.00
	05/26/00	4.41	0.00	0.00
	06/17/00	4.35	0.00	0.00
	07/14/00	4.47	<0.01	<1 ounce
	08/24/00	3.71	0.00	0.00
	09/27/00	4.33	0.00	0.00
	10/26/00	4.32	0.00	0.00
	01/03/01	4.52	0.00	0.00
	04/04/01	4.29	0.00	0.00

EXPLANATIONS:

Product Thickness/Removal Data prior to January 14, 1998, were compiled from reports prepared by MPDS Services, Inc.

DTW = Depth to Water

(ft.) = Feet

¹ Skimmer present in well.

² No skimmer found in well.

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 # 5043
Address: 449 Heegenberger Rd.
City: Oakland, CA.

Job#: 180065
Date: 4-4-01
Sampler: Joe

Well ID: MW-3
Well Diameter: 2 in.
Total Depth: 13.92 ft.
Depth to Water: 3.98 ft.

Well Condition: O.K.
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

9.94 x VF 0.17 = 1.69 x 3 (case volume) = Estimated Purge Volume: 5 (gal.)

Purge Equipment: Disposable Bailer
 Stack
 Suction
 Grundfos
 Other: _____

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

Starting Time: 7:40
Sampling Time: 8:05 A.M.
Purging Flow Rate: 0.2 gpm
Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>7:50</u>	<u>1.5</u>	<u>7.36</u>	<u>3.64</u>	<u>64.8</u>	_____	_____	_____
<u>7:53</u>	<u>3</u>	<u>7.30</u>	<u>3.74</u>	<u>64.6</u>	_____	_____	_____
<u>7:55</u>	<u>5</u>	<u>7.34</u>	<u>3.75</u>	<u>64.6</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3YOA</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>1 Amb</u>	<u>#</u>	<u>-</u>	<u>"</u>	<u>TPHP</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5043
Address: 449 Heegenberger Rd.
City: Oakland, CA.

Job#: 180065
Date: 4-4-01
Sampler: Joe

Well ID MW-6 Well Condition: O.K

Well Diameter 2 in.
Total Depth 12.71 ft
Depth to Water 4.29 ft

Hydrocarbon Thickness:	Amount Bailed (product/water):
<u>0</u> in.	<u>0</u> (gal.)
2" = 0.17	3" = 0.38
6" = 1.50	12" = 5.80
4" = 0.66	

8.42 x VF 0.17 = 1.43 x 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

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

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

Starting Time: 8:55
Sampling Time: 9:30 AM
Purging Flow Rate: 0.5 gpm
Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^0$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:06</u>	<u>1.5</u>	<u>6.80</u>	<u>0.80</u>	<u>64.4</u>	_____	_____	_____
<u>9:10</u>	<u>3</u>	<u>6.81</u>	<u>0.75</u>	<u>64.2</u>	_____	_____	_____
<u>9:13</u>	<u>1.5</u>	<u>6.82</u>	<u>0.75</u>	<u>64.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3V0A</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2V0A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(6) Oxy 1,2 DCA, EDB 648260</u>
	<u>1Amb</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>TPHP</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 5043 Job#: 180065
 Address: 449 Hegenberger Rd. Date: 4-4-01
 City: Oakland, CA. Sampler: Joe

Well ID MW-09 Well Condition: O.K.
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 11.90 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 1.27 ft. Factor (VF) 6" = 1.50 12" = 5.80

10.63 x VF 0.17 = 1.81 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: 7:05 Weather Conditions: cloudy
 Sampling Time: 7:30 AM Water Color: clear Odor: some
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>7:15</u>	<u>1.5</u>	<u>7.39</u>	<u>5.18</u>	<u>65.0</u>	_____	_____	_____
<u>7:17</u>	<u>3</u>	<u>7.45</u>	<u>5.22</u>	<u>64.8</u>	_____	_____	_____
<u>7:20</u>	<u>5.5</u>	<u>7.40</u>	<u>5.25</u>	<u>65.1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-09</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>1 Amb</u>	<u> </u>	<u>-</u>	<u> </u>	<u>TPHD</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 5043 Job#: 180065
 Address: 449 Hegeberger Rd. Date: 4-4-01
 City: Oakland, CA. Sampler: Joe

Well ID: MW-10 Well Condition: O.K.
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth: 12.81 ft.
 Depth to Water: 3.88 ft.

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

8.93 x VF 0.17 = 1.52 x 3 (case volume) = Estimated Purge Volume: 4.56 (gal.)

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

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

Starting Time: 8:18 Weather Conditions: cloudy
 Sampling Time: 8:40 AM Water Color: clear Odor: gas
 Purging Flow Rate: 0.15 gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm X	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:25	1.5	7.10	4.63	64.8			
8:27	3	7.16	4.60	64.7			
8:30	5	7.25	4.61	64.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	3 Vol	Y	HCL	Seq.	TPHG, BTEX, MTBE
	1 Amb.		-	"	TPHD

COMMENTS: _____



Tosco Marketing Company
2020 Cape Canyon Pl., Ste. 400
San Ramon, California 94583

Facility Number UNOCAL SS# 5043
 Facility Address 449 Hegenberger Road, Oakland, CA
180065.85
 Consultant Project Number _____
 Consultant Name Gettler-Ryan Inc. (G-R Inc.)
 Address 6747 Sierra Court, Suite J, Dublin, CA 94568
 Project Contact (Name) Deanna L. Harding
 (Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name) MR. DAVID DEWITT
 (Phone) 925-277-2384
 Laboratory Name Sequoia Analytical
 Laboratory Release Number _____
 Samples Collected by (Name) JOE ATEMIAN
 Collection Date 4-4-01
 Signature [Signature]

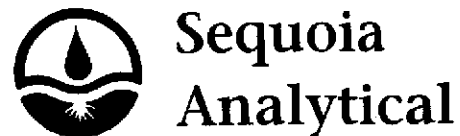
C104028

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iod (Yes or No)	Analytes To Be Performed										Remarks		
								TPH Gas + BTEX w/MTBE (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	by 8260				
TB-LB	01	VOL	W	G	-	HCL	Y	✓												
MW-3	02	3 VOL 1 AMB	/	/	8:05	/	/	✓	✓											
MW-6	03	5 VOL 1 AMB	/	/	9:30	/	/	✓	✓											
MW-9	04	3 VOL 1 AMB	/	/	7:30	/	/	✓	✓											
MW-10	05	3 VOL 1 AMB	/	/	8:20	/	/	✓	✓											

DO NOT BILL
TB-LB ANALYSIS

Shipped By (Signature) <u>[Signature]</u>	Organization G-R Inc.	Date/Time 3:30 PM 4-4-01	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time 4/4/01
Shipped By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Shipped By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time

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



1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

April 19 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L104028

Enclosed are the results of analyses for samples received by the laboratory on 04/04/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Latonya K. Pelt".

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360

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

Project: Tosco(1)
Project Number: Unocal SS#5043
Project Manager: Deanna Harding

Reported:
04/19/01 09:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L104028-01	Water	04/04/01 00:00	04/04/01 17:01
MW-3	L104028-02	Water	04/04/01 08:05	04/04/01 17:01
MW-6	L104028-03	Water	04/04/01 09:30	04/04/01 17:01
MW-9	L104028-04	Water	04/04/01 07:30	04/04/01 17:01
MW-10	L104028-05	Water	04/04/01 08:40	04/04/01 17:01

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

Project: Tosco(1)
 Project Number: Unocal SS#5043
 Project Manager: Deanna Harding

Reported:
 04/19/01 09:47

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L104028-01) Water Sampled: 04/04/01 00:00 Received: 04/04/01 17:01									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1040049	04/13/01	04/13/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	70-130		"	"	"	"	
MW-3 (L104028-02) Water Sampled: 04/04/01 08:05 Received: 04/04/01 17:01									
Purgeable Hydrocarbons as Gasoline	417	50.0	ug/l	1	1040049	04/13/01	04/13/01	DHS LUFT	P-02
Benzene	1.24	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	0.802	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	237	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	70-130		"	"	"	"	
MW-6 (L104028-03) Water Sampled: 04/04/01 09:30 Received: 04/04/01 17:01									
Purgeable Hydrocarbons as Gasoline	69800	10000	ug/l	200	1040049	04/13/01	04/14/01	DHS LUFT	P-01
Benzene	2060	100	"	"	"	"	"	"	
Toluene	2840	100	"	"	"	"	"	"	
Ethylbenzene	3650	100	"	"	"	"	"	"	
Xylenes (total)	10900	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	70-130		"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5043
 Project Manager: Deanna Harding

Reported:
 04/19/01 09:47

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (L104028-04) Water Sampled: 04/04/01 07:30 Received: 04/04/01 17:01									
Purgeable Hydrocarbons as Gasoline	296	50.0	ug/l	1	1040052	04/14/01	04/14/01	DHS LUFT	P-02
Benzene	0.738	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	0.907	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	135	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.4 %	70-130		"	"	"	"	
MW-10 (L104028-05) Water Sampled: 04/04/01 08:40 Received: 04/04/01 17:01									
Purgeable Hydrocarbons as Gasoline	129	50.0	ug/l	1	1040052	04/14/01	04/14/01	DHS LUFT	P-01
Benzene	28.1	0.500	"	"	"	"	"	"	
Toluene	1.67	0.500	"	"	"	"	"	"	
Ethylbenzene	4.97	0.500	"	"	"	"	"	"	
Xylenes (total)	10.1	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.6 %	70-130		"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5043
 Project Manager: Deanna Harding

Reported:
 04/19/01 09:47

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-6 (L104028-03) Water									O-04
Sampled: 04/04/01 09:30 Received: 04/04/01 17:01									
Ethanol	ND	20000	ug/l	20	1040017	04/05/01	04/05/01	EPA 8260B	
1,2-Dibromoethane	ND	40.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	40.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	40.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	40.0	"	"	"	"	"	"	
Methyl tert-butyl ether	47.8	40.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	40.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	2000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.2 %		76-114	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %		88-110	"	"	"	"	

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

Project: Tosco(1)
 Project Number: Unocal SS#5043
 Project Manager: Deanna Harding

Reported:
 04/19/01 09:47

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L104028-02) Water Sampled: 04/04/01 08:05 Received: 04/04/01 17:01									
Diesel Range Hydrocarbons	360	50	ug/l	1	1D13005	04/13/01	04/14/01	EPA 8015M	D-14
Surrogate: n-Pentacosane		75.1 %	50-150		"	"	"	"	
MW-6 (L104028-03) Water Sampled: 04/04/01 09:30 Received: 04/04/01 17:01									
Diesel Range Hydrocarbons	18000	500	ug/l	10	1D13005	04/13/01	04/16/01	EPA 8015M	D-11
Surrogate: n-Pentacosane		70.0 %	50-150		"	"	"	"	
MW-9 (L104028-04) Water Sampled: 04/04/01 07:30 Received: 04/04/01 17:01									
Diesel Range Hydrocarbons	240	50	ug/l	1	1D13005	04/13/01	04/14/01	EPA 8015M	D-14
Surrogate: n-Pentacosane		83.2 %	50-150		"	"	"	"	
MW-10 (L104028-05) Water Sampled: 04/04/01 08:40 Received: 04/04/01 17:01									
Diesel Range Hydrocarbons	75	50	ug/l	1	1D13005	04/13/01	04/14/01	EPA 8015M	D-12
Surrogate: n-Pentacosane		78.1 %	50-150		"	"	"	"	

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

Project: Tosco(1)
Project Number: Unocal SS#5043
Project Manager: Deanna Harding

Reported:
04/19/01 09:47

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

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

Batch 1040049 - EPA 5030B (P/T)

Blank (1040049-BLK1)

Prepared & Analyzed: 04/13/01

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.3		"	10.0		103	70-130			

LCS (1040049-BS1)

Prepared & Analyzed: 04/13/01

Benzene	10.0	0.500	ug/l	10.0		100	70-130			
Toluene	9.91	0.500	"	10.0		99.1	70-130			
Ethylbenzene	10.1	0.500	"	10.0		101	70-130			
Xylenes (total)	30.4	0.500	"	30.0		101	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.4		"	10.0		104	70-130			

LCS (1040049-BS2)

Prepared & Analyzed: 04/13/01

Purgeable Hydrocarbons as Gasoline	226	50.0	ug/l	250		90.4	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.4		"	10.0		114	70-130			

Matrix Spike (1040049-MS1)

Source: L104038-04

Prepared & Analyzed: 04/13/01

Purgeable Hydrocarbons as Gasoline	255	50.0	ug/l	250	ND	102	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.4		"	10.0		114	70-130			

Matrix Spike Dup (1040049-MSD1)

Source: L104038-04

Prepared & Analyzed: 04/13/01

Purgeable Hydrocarbons as Gasoline	240	50.0	ug/l	250	ND	96.0	60-140	6.06	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.3		"	10.0		113	70-130			

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

Project: Tosco(1)
Project Number: Unocal SS#5043
Project Manager: Deanna Harding

Reported:
04/19/01 09:47

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - 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 1040052 - EPA 5030B (P/T)

Blank (1040052-BLK1)

Prepared & Analyzed: 04/14/01

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	9.97		"	10.0		99.7	70-130			

Blank (1040052-BLK2)

Prepared & Analyzed: 04/16/01

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	11.7		"	10.0		117	70-130			

LCS (1040052-BS1)

Prepared & Analyzed: 04/14/01

Benzene	10.9	0.500	ug/l	10.0		109	70-130			
Toluene	10.7	0.500	"	10.0		107	70-130			
Ethylbenzene	11.3	0.500	"	10.0		113	70-130			
Xylenes (total)	34.0	0.500	"	30.0		113	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.5		"	10.0		105	70-130			

LCS (1040052-BS2)

Prepared & Analyzed: 04/14/01

Purgeable Hydrocarbons as Gasoline	266	50.0	ug/l	250		106	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.8		"	10.0		108	70-130			

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

Project: Tosco(1)
Project Number: Unocal SS#5043
Project Manager: Deanna Harding

Reported:
04/19/01 09:47

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - 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 1040052 - EPA 5030B (P/T)

LCS (1040052-BS3)

Prepared & Analyzed: 04/16/01

Benzene	10.2	0.500	ug/l	10.0		102	70-130			
Toluene	10.2	0.500	"	10.0		102	70-130			
Ethylbenzene	10.4	0.500	"	10.0		104	70-130			
Xylenes (total)	31.1	0.500	"	30.0		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	12.6		"	10.0		126	70-130			

LCS (1040052-BS4)

Prepared & Analyzed: 04/16/01

Purgeable Hydrocarbons as Gasoline	241	50.0	ug/l	250		96.4	70-130			
Surrogate: a,a,a-Trifluorotoluene	12.5		"	10.0		125	70-130			

Matrix Spike (1040052-MS1)

Source: L104037-02

Prepared & Analyzed: 04/14/01

Benzene	10.6	0.500	ug/l	10.0	ND	106	60-140			
Toluene	10.5	0.500	"	10.0	ND	105	60-140			
Ethylbenzene	10.7	0.500	"	10.0	ND	107	60-140			
Xylenes (total)	32.2	0.500	"	30.0	ND	107	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.95		"	10.0		99.5	70-130			

Matrix Spike Dup (1040052-MSD1)

Source: L104037-02

Prepared & Analyzed: 04/14/01

Benzene	10.9	0.500	ug/l	10.0	ND	109	60-140	2.79	25	
Toluene	10.6	0.500	"	10.0	ND	106	60-140	0.948	25	
Ethylbenzene	10.8	0.500	"	10.0	ND	108	60-140	0.930	25	
Xylenes (total)	32.4	0.500	"	30.0	ND	108	60-140	0.619	25	
Surrogate: a,a,a-Trifluorotoluene	9.94		"	10.0		99.4	70-130			

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

Project: Tosco(1)
 Project Number: Unocal SS#5043
 Project Manager: Deanna Harding

Reported:
 04/19/01 09:47

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 1040017 - EPA 5030B [P/T]

Blank (1040017-BLK1)

Prepared & Analyzed: 04/05/01

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	76-114			
Surrogate: Toluene-d8	52.7		"	50.0		105	88-110			

LCS (1040017-BS1)

Prepared & Analyzed: 04/05/01

Methyl tert-butyl ether	44.5	2.00	ug/l	50.0		89.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	45.8		"	50.0		91.6	76-114			
Surrogate: Toluene-d8	51.2		"	50.0		102	88-110			

Matrix Spike (1040017-MS1)

Source: L104025-05

Prepared & Analyzed: 04/05/01

Methyl tert-butyl ether	80.0	2.00	ug/l	50.0	38.2	83.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	47.0		"	50.0		94.0	76-114			
Surrogate: Toluene-d8	51.7		"	50.0		103	88-110			

Matrix Spike Dup (1040017-MSD1)

Source: L104025-05

Prepared & Analyzed: 04/05/01

Methyl tert-butyl ether	79.3	2.00	ug/l	50.0	38.2	82.2	60-140	0.879	25	
Surrogate: 1,2-Dichloroethane-d4	47.6		"	50.0		95.2	76-114			
Surrogate: Toluene-d8	51.1		"	50.0		102	88-110			

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

Project: Tosco(1)
 Project Number: Unocal SS#5043
 Project Manager: Deanna Harding

Reported:
 04/19/01 09:47

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 1D13005 - EPA 3510B										
Blank (1D13005-BLK1)					Prepared: 04/13/01 Analyzed: 04/14/01					
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	27.7		"	33.3		83.2	50-150			
LCS (1D13005-BS1)					Prepared: 04/13/01 Analyzed: 04/14/01					
Diesel Range Hydrocarbons	337	50	ug/l	500		67.4	60-140			
Surrogate: n-Pentacosane	22.7		"	33.3		68.2	50-150			
LCS Dup (1D13005-BSD1)					Prepared: 04/13/01 Analyzed: 04/14/01					
Diesel Range Hydrocarbons	396	50	ug/l	500		79.2	60-140	16.1	50	
Surrogate: n-Pentacosane	33.3		"	33.3		100	50-150			

Gettler-Ryan/Geostrategies(1)
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Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#5043
Project Manager: Deanna Harding

Reported:
04/19/01 09:47

Notes and Definitions

D-11 Chromatogram Pattern: Unidentified Hydrocarbons < C16
D-12 Chromatogram Pattern: Unidentified Hydrocarbons > C16
D-14 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
O-04 This sample was diluted due to high non-target compounds.
P-01 Chromatogram Pattern: Gasoline C6-C12
P-02 Chromatogram Pattern: Weathered 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