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GETTLER-RYAN INC.

TRANSMITTAL

March 5, 2001
G-R #180065

MAR 22 2001

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

20 219

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	February 20, 2001	Groundwater Monitoring and Sampling Report First Quarter - Event of January 3, 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 **March 16, 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.

February 20, 2001
G-R Job #180065

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

RE: First Quarter Event of January 3, 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

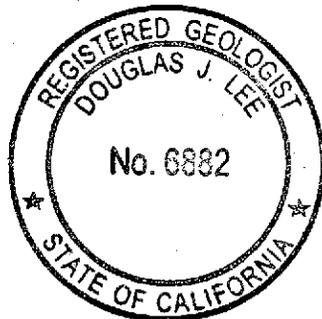
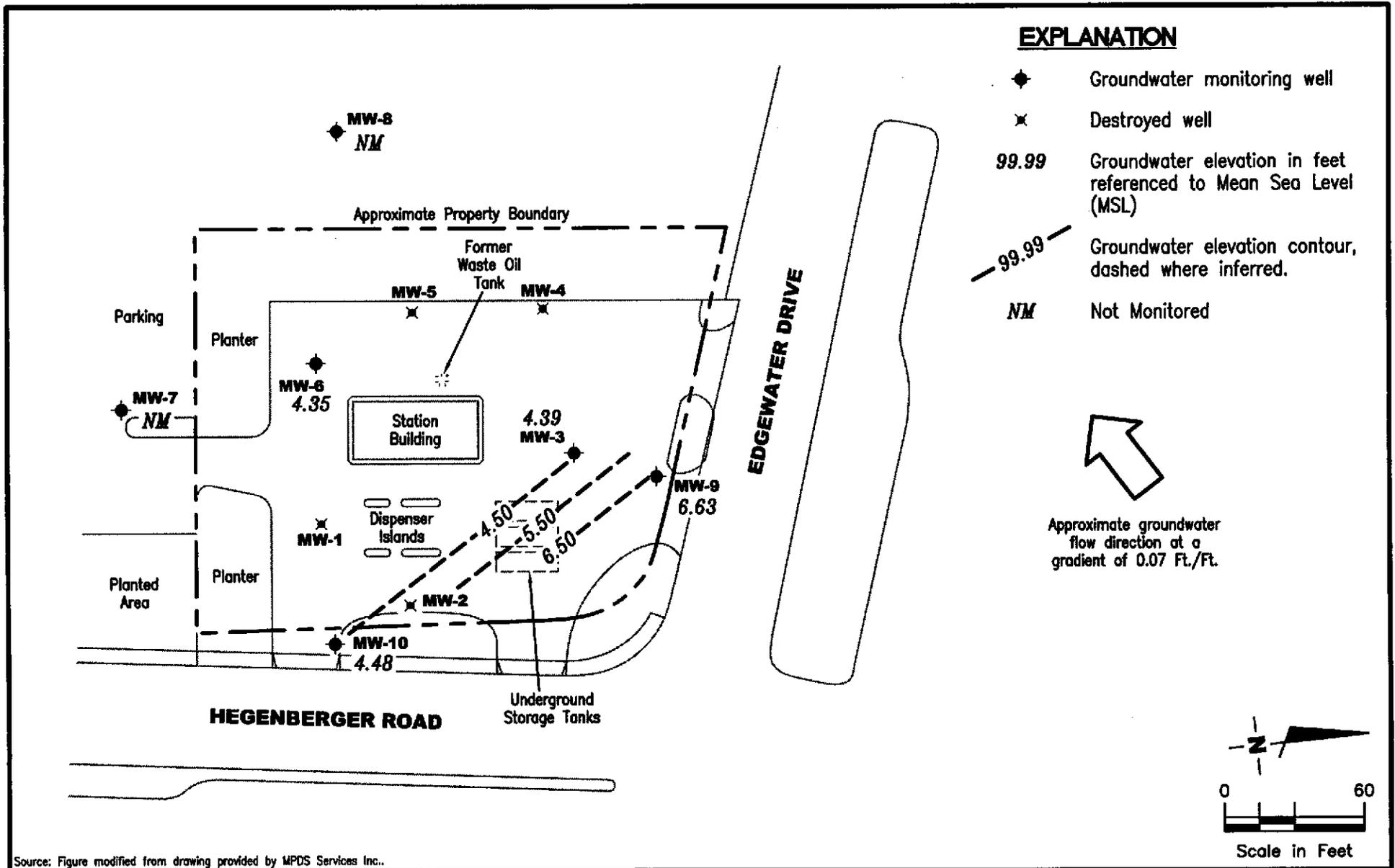


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Product Thickness/Removal Data
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets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

5043.qml



GETTLER - RYAN 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

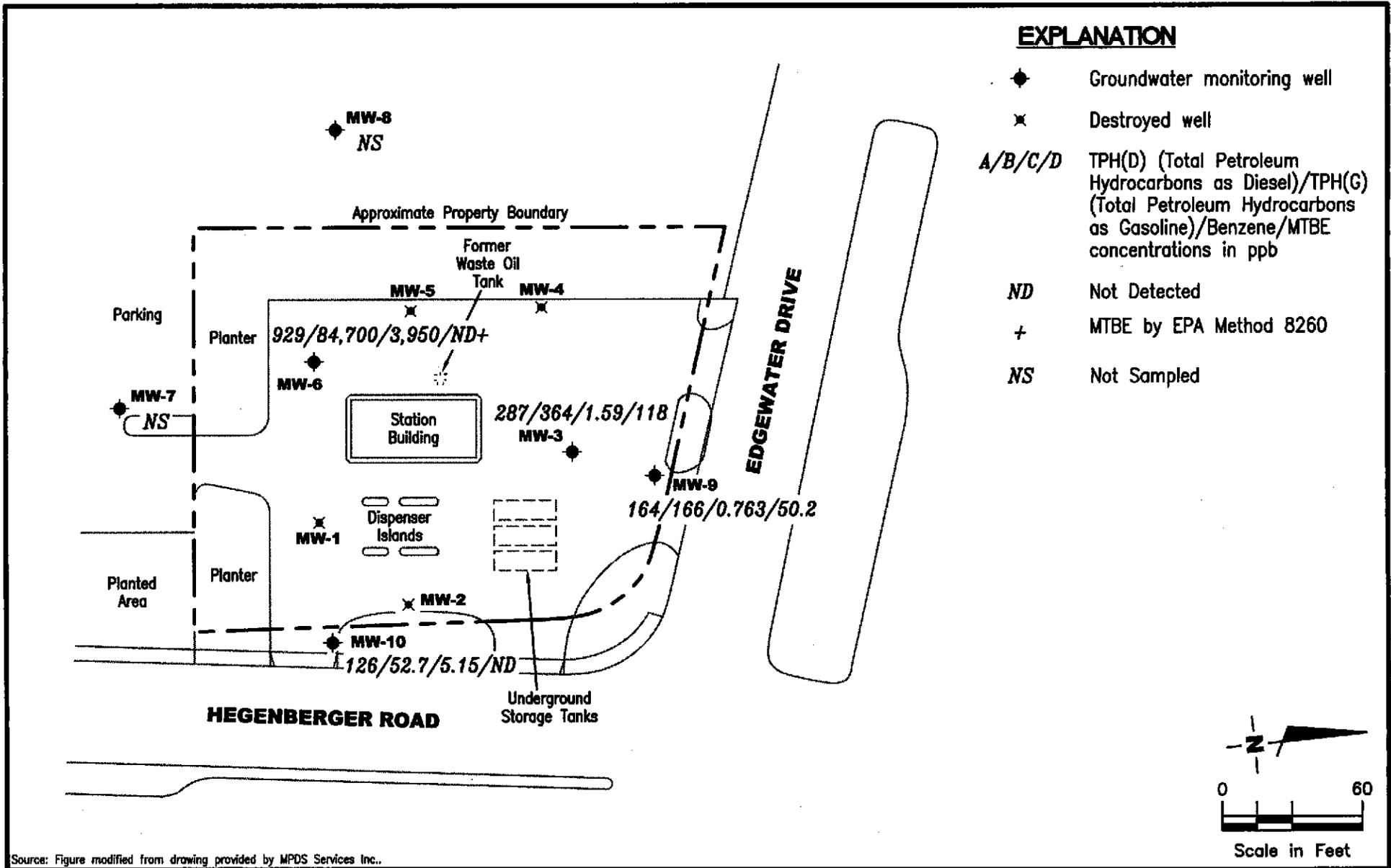
PROJECT NUMBER
 180065

REVIEWED BY

DATE
 January 3, 2001

REVISED DATE

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

GETTLER - RYAN INC.
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CONCENTRATION MAP
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

FIGURE
2

PROJECT NUMBER
 180065

REVIEWED BY

DATE
 January 3, 2001

REVISED DATE

FILE NAME: P:\ENVIRO\TOSCO\5043\001-5043.DWG | Layout Tab: Con1

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-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					--	--
	05/18/95	DESTROYED (3/95)		--	--	--	--	--	--	--	--	--
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.I. (ft. bgs.)	GWE (msl)	Product		TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
					Thickness (ft.)								
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	--
	05/18/95	DESTROYED (3/95)		--	--		--	--	--	--	--	--	--
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

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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
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	--
	02/21/95	DESTROYED (1/95)		--	--	--	--	--	--	--	--	--

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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-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	--	
	02/21/95	DESTROYED (1/95)		--	--	--	--	--	--	--	--	--	--
	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	--	
02/04/93		--	--	--	--	890 ²	3,600	340	ND	290	550	--	
9.12*		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	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
					Thickness (ft.)							
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							X (ppb)	MTBE (ppb)	
					Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (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}		

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

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-8	07/14/99	3.03	3.0-15.1	5.49	0.00	120 ²¹	ND	ND	ND	ND	ND	ND
(cont)	10/21/99	3.11		5.41	0.00	110 ²⁴	ND	ND	ND	ND	ND	ND
	01/20/00	3.06		5.46	0.00	583 ¹	ND	ND	ND	ND	ND	ND
	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

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-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
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
	01/25/99	--		--	--	--	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 Thickness (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TB-LB	04/15/99	--		--	--	--	ND	ND	ND	ND	ND	ND
(cont)	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

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

DTW = Depth to Water

(ft.) = Feet

S. I. = Screen Interval

(ft. bgs.) = Feet Below Ground Surface

GWE = Groundwater Elevation

(msl) = mean sea level

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

TOG = Total Oil and Grease

* TOC elevations are relative to msl, per the City of Oakland Benchmark #3880 (Elevation = 20.37 feet msl).

** Groundwater elevation corrected for the presence of free product $[(TOC-DTW)+(Product\ Thickness \times 0.77)]$.

◆ 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 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.

¹⁹ Laboratory report indicates unidentified hydrocarbons >C9.

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

EXPLANATIONS:

- 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	--	--	--	--	--

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 = Ethylene dibromide
 (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 preformed 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	
04/15/99 ¹	4.23	0.95	1.0 product	
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	

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	07/14/99 ¹	4.20	0.03	0.039 product/2.0 water
(cont)	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

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 Job#: 180065
Address: 449 Heegenberger Rd. Date: 1-3-01
City: Oakland, CA. Sampler: Joe

Well ID MW-3 Well Condition: O.K.
Well Diameter 2 in Hydrocarbon Amount Bailed
Thickness: 0 in. (product/water): 0 (gal.)
Total Depth 13.92 ±
Depth to Water 3.65 ±

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

$10.27 \times \text{VF } 0.17 = 1.75 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 5.5 \text{ (gal.)}$

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

Starting Time: 12:45 Weather Conditions: Clear
Sampling Time: 1:12 p.m. Water Color: clear Odor: Some
Purging Flow Rate: 0.5 gpm Sediment Description: none
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal)	pH	Conductivity (µmhos/cm) ¹⁰⁰	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:55</u>	<u>1.5</u>	<u>7.15</u>	<u>2.90</u>	<u>64.6</u>			
<u>12:59</u>	<u>3</u>	<u>7.20</u>	<u>3.11</u>	<u>64.5</u>			
<u>1:04</u>	<u>5.5</u>	<u>7.22</u>	<u>3.12</u>	<u>64.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPNG, BTEX, MTBE</u>
	<u>1 AmL</u>	<u>"</u>	<u> </u>	<u>"</u>	<u>TPHD</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

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

Job#: 180065
Date: 1-3-01
Sampler: Joe

Well ID MW-6 Well Condition: O.K.

Well Diameter 2 in Hydrocarbon Thickness: 0 in Amount Bailed (product/water): 0 (gal)

Total Depth 12.71 ft
Depth to Water 4.52 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

8.19 x VF 0.17 = 1.39 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: 1:25 Weather Conditions: clear
Sampling Time: 1:55 PM Water Color: clear Odor: yes/strange
Purging Flow Rate: 0.5 gpm Sediment Description: none
Did well de-water? _____ If yes: Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity (µmhos/cm) ¹⁰⁰⁰	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:35</u>	<u>1.5</u>	<u>6.77</u>	<u>0.45</u>	<u>63.9</u>			
<u>1:40</u>	<u>3</u>	<u>6.80</u>	<u>0.46</u>	<u>64.0</u>			
<u>1:44</u>	<u>4.5</u>	<u>6.81</u>	<u>0.47</u>	<u>64.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE-6</u>
	<u>1 Amt</u>	<u>"</u>	<u>←</u>	<u>"</u>	<u>TPHD</u>

8260

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5043 Job#: 180065
Address: 449 Heegenberger Rd. Date: 1-3-01
City: Oakland, CA. Sampler: Joe

Well ID MW-9 Well Condition: O.K.
Well Diameter 2 in Hydrocarbon Thickness: 0 in Amount Bailed (product/water): 0 (gal)
Total Depth 11.90 ft
Depth to Water 1.66 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

10.24 x VF 0.17 = 1.74 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: 11:30 Weather Conditions: Clear
Sampling Time: 12:00 P.M. Water Color: clear Odor: mild
Purging Flow Rate: 0.5 gpm Sediment Description: none
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm } ^\circ\text{F}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:42</u>	<u>1.5</u>	<u>7.59</u>	<u>4.62</u>	<u>65.0</u>			
<u>11:46</u>	<u>3</u>	<u>7.61</u>	<u>4.60</u>	<u>64.6</u>			
<u>11:50</u>	<u>5.5</u>	<u>7.55</u>	<u>4.57</u>	<u>64.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3VOL</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPH, BTEX, MTBE</u>
	<u>1AMB</u>	<u>"</u>	<u> </u>	<u>"</u>	<u>TPHD</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # 5043 Job#: 180065
 Address: 449 Heegenberger Rd. Date: 1-3-01
 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 1281 +
 Depth to Water 4.14 +

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.50	

8.67 x VF 0.17 = 1.47 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: 12:12 Weather Conditions: Clear
 Sampling Time: 12:35 PM Water Color: clear Odor: yes
 Purging Flow Rate: 0.5 gpm Sediment Description: none
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm}$ ¹	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:20</u>	<u>1.5</u>	<u>7.29</u>	<u>5.16</u>	<u>64.2</u>			
<u>12:24</u>	<u>3</u>	<u>7.31</u>	<u>5.20</u>	<u>64.5</u>			
<u>12:28</u>	<u>4.5</u>	<u>7.32</u>	<u>5.21</u>	<u>64.1</u>			
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(?) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3 YOA</u>	<u>Y</u>	<u>HCL</u>	<u>Sequoia</u>	<u>TPHG, BTEX, MTBE</u>
	<u>1 AML</u>	<u>"</u>	<u>---</u>	<u>"</u>	<u>TPHD</u>

COMMENTS: _____



**Sequoia
Analytical**

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

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GETTLER-RYAN INC.
GENERAL CONTRACTORS

January 17, 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L101018

Enclosed are the results of analyses for samples received by the laboratory on 01/03/01. 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 Number 2360





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

Project: Tosco(1)
Project Number: 1
Project Manager: Deanna Harding

Reported:
01/17/01 13:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L101018-01	Water	01/03/01 00:00	01/03/01 15:00
MW-3	L101018-02	Water	01/03/01 13:12	01/03/01 15:00
MW-6	L101018-03	Water	01/03/01 13:55	01/03/01 15:00
MW-9	L101018-04	Water	01/03/01 12:00	01/03/01 15:00
MW-10	L101018-05	Water	01/03/01 12:35	01/03/01 15:00





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

Project: Tosco(1)
Project Number: 1
Project Manager: Deanna Harding

Reported:
01/17/01 13:34

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 (L101018-01) Water Sampled: 01/03/01 00:00 Received: 01/03/01 15:00

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1010025	01/08/01	01/09/01	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	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.6 %		70-130	"	"	"	"	

MW-3 (L101018-02) Water Sampled: 01/03/01 13:12 Received: 01/03/01 15:00

Purgeable Hydrocarbons as Gasoline	364	50.0	ug/l	1	1010025	01/08/01	01/09/01	DHS LUFT	P-02
Benzene	1.59	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	118	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.2 %		70-130	"	"	"	"	

MW-6 (L101018-03) Water Sampled: 01/03/01 13:55 Received: 01/03/01 15:00

Purgeable Hydrocarbons as Gasoline	84700	20000	ug/l	400	1010036	01/10/01	01/10/01	DHS LUFT	P-01
Benzene	3950	200	"	"	"	"	"	"	
Toluene	4130	200	"	"	"	"	"	"	
Ethylbenzene	3650	200	"	"	"	"	"	"	
Xylenes (total)	11800	200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2000	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.7 %		70-130	"	"	"	"	





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

Project: Tosco(1)
Project Number: 1
Project Manager: Deanna Harding

Reported:
01/17/01 13:34

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 (L101018-04) Water Sampled: 01/03/01 12:00 Received: 01/03/01 15:00									
Purgeable Hydrocarbons as Gasoline	166	50.0	ug/l	1	1010025	01/08/01	01/09/01	DHS LUFT	P-02
Benzene	0.763	0.500	"	"	"	"	"	"	
Toluene	0.776	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.28	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	50.2	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.5 %	70-130		"	"	"	"	
MW-10 (L101018-05) Water Sampled: 01/03/01 12:35 Received: 01/03/01 15:00									
Purgeable Hydrocarbons as Gasoline	52.7	50.0	ug/l	1	1010032	01/09/01	01/09/01	DHS LUFT	P-01
Benzene	5.15	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	0.823	0.500	"	"	"	"	"	"	
Xylenes (total)	1.57	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.9 %	70-130		"	"	"	"	





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

Project: Tosco(1)
Project Number: 1
Project Manager: Deanna Harding

Reported:
01/17/01 13:34

**MTBE by EPA Method 8260B
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (L101018-03) Water Sampled: 01/03/01 13:55 Received: 01/03/01 15:00									
Methyl tert-butyl ether	ND	200	ug/l	100	1010020	01/05/01	01/05/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	76-114		"	"	"	"	





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

Project: Tosco(1)
Project Number: 1
Project Manager: Deanna Harding

Reported:
01/17/01 13:34

**Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L101018-02) Water Sampled: 01/03/01 13:12 Received: 01/03/01 15:00									
Diesel Range Hydrocarbons	287	50.0	ug/l	1	1A10001	01/10/01	01/13/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		90.0 %	50-150		"	"	"	"	S-08
MW-6 (L101018-03) Water Sampled: 01/03/01 13:55 Received: 01/03/01 15:00									
Diesel Range Hydrocarbons	929	50.0	ug/l	1	1A10001	01/10/01	01/14/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		1.84 %	50-150		"	"	"	"	S-01
MW-9 (L101018-04) Water Sampled: 01/03/01 12:00 Received: 01/03/01 15:00									
Diesel Range Hydrocarbons	164	50.0	ug/l	1	1A10001	01/10/01	01/13/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		99.8 %	50-150		"	"	"	"	S-08
MW-10 (L101018-05) Water Sampled: 01/03/01 12:35 Received: 01/03/01 15:00									
Diesel Range Hydrocarbons	126	50.0	ug/l	1	1A10001	01/10/01	01/13/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		116 %	50-150		"	"	"	"	S-08





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

Project: Tosco(1)
Project Number: 1
Project Manager: Deanna Harding

Reported:
01/17/01 13:34

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 1010025 - EPA 5030B (P/T)										
Blank (1010025-BLK1)										
Prepared & Analyzed: 01/08/01										
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	7.95		"	10.0		79.5	70-130			
LCS (1010025-BS1)										
Prepared & Analyzed: 01/08/01										
Benzene	8.26	0.500	ug/l	10.0		82.6	70-130			
Toluene	7.75	0.500	"	10.0		77.5	70-130			
Ethylbenzene	7.87	0.500	"	10.0		78.7	70-130			
Xylenes (total)	23.5	0.500	"	30.0		78.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.95		"	10.0		89.5	70-130			
LCS (1010025-BS2)										
Prepared & Analyzed: 01/08/01										
Purgeable Hydrocarbons as Gasoline	235	50.0	ug/l	250		94.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.19		"	10.0		81.9	70-130			
Matrix Spike (1010025-MS1)										
Source: L101010-07 Prepared & Analyzed: 01/08/01										
Benzene	8.87	0.500	ug/l	10.0	ND	88.7	60-140			
Toluene	8.00	0.500	"	10.0	ND	80.0	60-140			
Ethylbenzene	8.41	0.500	"	10.0	ND	84.1	60-140			
Xylenes (total)	24.6	0.500	"	30.0	ND	82.0	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.11		"	10.0		91.1	70-130			
Matrix Spike Dup (1010025-MSD1)										
Source: L101010-07 Prepared & Analyzed: 01/08/01										
Benzene	9.81	0.500	ug/l	10.0	ND	98.1	60-140	10.1	25	
Toluene	9.09	0.500	"	10.0	ND	90.9	60-140	12.8	25	
Ethylbenzene	9.35	0.500	"	10.0	ND	93.5	60-140	10.6	25	
Xylenes (total)	27.8	0.500	"	30.0	ND	92.7	60-140	12.2	25	
Surrogate: a,a,a-Trifluorotoluene	9.42		"	10.0		94.2	70-130			





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

Project: Tosco(1)
Project Number: 1
Project Manager: Deanna Harding

Reported:
01/17/01 13:34

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 1010032 - EPA 5030B (P/T)

Blank (1010032-BLK1)

Prepared & Analyzed: 01/09/01

Benzene	ND	0.500	ug/l							
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	9.51		"	10.0		95.1	70-130			

LCS (1010032-BS1)

Prepared & Analyzed: 01/09/01

Benzene	9.58	0.500	ug/l	10.0		95.8	70-130			
Toluene	9.59	0.500	"	10.0		95.9	70-130			
Ethylbenzene	9.77	0.500	"	10.0		97.7	70-130			
Xylenes (total)	29.3	0.500	"	30.0		97.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.4		"	10.0		104	70-130			

LCS (1010032-BS2)

Prepared & Analyzed: 01/09/01

Purgeable Hydrocarbons as Gasoline	262	50.0	ug/l	250		105	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.93		"	10.0		99.3	70-130			

Matrix Spike (1010032-MS1)

Source: L101016-03

Prepared & Analyzed: 01/09/01

Purgeable Hydrocarbons as Gasoline	287	50.0	ug/l	250	ND	115	60-140			
Surrogate: a,a,a-Trifluorotoluene	10.4		"	10.0		104	70-130			

Matrix Spike Dup (1010032-MSD1)

Source: L101016-03

Prepared & Analyzed: 01/09/01

Purgeable Hydrocarbons as Gasoline	291	50.0	ug/l	250	ND	116	60-140	1.38	25	
Surrogate: a,a,a-Trifluorotoluene	10.9		"	10.0		109	70-130			

Batch 1010036 - EPA 5030B (P/T)

Blank (1010036-BLK1)

Prepared & Analyzed: 01/10/01

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	8.29		"	10.0		82.9	70-130			





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Project: Tosco(1)
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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 1010036 - EPA 5030B (P/T)

LCS (1010036-BS1) Prepared & Analyzed: 01/10/01										
Benzene	8.64	0.500	ug/l	10.0		86.4	70-130			
Toluene	7.98	0.500	"	10.0		79.8	70-130			
Ethylbenzene	8.29	0.500	"	10.0		82.9	70-130			
Xylenes (total)	24.9	0.500	"	30.0		83.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.50		"	10.0		85.0	70-130			

LCS (1010036-BS2) Prepared & Analyzed: 01/10/01										
Purgeable Hydrocarbons as Gasoline	250	50.0	ug/l	250		100	70-130			
Surrogate: a,a,a-Trifluorotoluene	7.34		"	10.0		73.4	70-130			

Matrix Spike (1010036-MS1) Source: L101035-04 Prepared & Analyzed: 01/10/01										
Benzene	8.84	0.500	ug/l	10.0	ND	88.4	60-140			
Toluene	8.10	0.500	"	10.0	ND	81.0	60-140			
Ethylbenzene	8.45	0.500	"	10.0	ND	84.5	60-140			
Xylenes (total)	25.1	0.500	"	30.0	ND	83.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.64		"	10.0		96.4	70-130			

Matrix Spike Dup (1010036-MSD1) Source: L101035-04 Prepared & Analyzed: 01/10/01										
Benzene	9.45	0.500	ug/l	10.0	ND	94.5	60-140	6.67	25	
Toluene	8.73	0.500	"	10.0	ND	87.3	60-140	7.49	25	
Ethylbenzene	8.89	0.500	"	10.0	ND	88.9	60-140	5.07	25	
Xylenes (total)	26.5	0.500	"	30.0	ND	88.3	60-140	5.43	25	
Surrogate: a,a,a-Trifluorotoluene	10.2		"	10.0		102	70-130			



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MTBE 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 1010020 - EPA 5030B [P/T]										
Blank (1010020-BLK1)										
Prepared & Analyzed: 01/05/01										
Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	45.3		"	50.0		90.6	76-114			
Blank (1010020-BLK2)										
Prepared & Analyzed: 01/09/01										
Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	50.9		"	50.0		102	76-114			
LCS (1010020-BS1)										
Prepared & Analyzed: 01/05/01										
Methyl tert-butyl ether	45.1	2.00	ug/l	50.0		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	45.2		"	50.0		90.4	76-114			
LCS (1010020-BS2)										
Prepared & Analyzed: 01/09/01										
Methyl tert-butyl ether	53.4	2.00	ug/l	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	52.4		"	50.0		105	76-114			
Matrix Spike (1010020-MS1)										
Source: L012210-14 Prepared & Analyzed: 01/05/01										
Methyl tert-butyl ether	45.6	2.00	ug/l	50.0	ND	91.2	60-140			
Surrogate: 1,2-Dichloroethane-d4	45.3		"	50.0		90.6	76-114			
Matrix Spike Dup (1010020-MSD1)										
Source: L012210-14 Prepared & Analyzed: 01/05/01										
Methyl tert-butyl ether	46.6	2.00	ug/l	50.0	ND	93.2	60-140	2.17	25	
Surrogate: 1,2-Dichloroethane-d4	46.2		"	50.0		92.4	76-114			





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**Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A10001 - EPA 3510B										
Blank (1A10001-BLK1)										
					Prepared: 01/10/01 Analyzed: 01/12/01					
Diesel Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: n-Pentacosane	93.4		"	100		93.4	50-150			
LCS (1A10001-BS1)										
					Prepared: 01/10/01 Analyzed: 01/12/01					
Diesel Range Hydrocarbons	853	50.0	ug/l	1000		85.3	60-140			
Surrogate: n-Pentacosane	90.3		"	100		90.3	50-150			
Matrix Spike (1A10001-MS1)										
					Source: MKA0093-04		Prepared: 01/10/01 Analyzed: 01/12/01			
Diesel Range Hydrocarbons	834	50.0	ug/l	1000	ND	83.4	50-150			
Surrogate: n-Pentacosane	87.1		"	100		87.1	50-150			
Matrix Spike Dup (1A10001-MSD1)										
					Source: MKA0093-04		Prepared: 01/10/01 Analyzed: 01/12/01			
Diesel Range Hydrocarbons	841	50.0	ug/l	1000	ND	84.1	50-150	0.836	50	
Surrogate: n-Pentacosane	91.8		"	100		91.8	50-150			





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Notes and Definitions

- D-15 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-02 Chromatogram Pattern: Weathered Gasoline C6-C12
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-08 The opening calibration surrogate recovery was outside acceptable limit of 15% by 9.5%. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
- 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

