Alameda County
OCT 11 2002
Environmental Health

GETTLER-RYAN INC.

TRANSMITTAL

September 24, 2002
G-R #180065

RO 219

TO: Mr. David B. De Witt
Phillips 66 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) Service Station #5043
449 Hegenberger Road
Oakland, California 94621

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	September 9, 2002	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 28, 2002

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 ***October 8, 2002***, 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.

September 9, 2002
G-R Job #180065

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

RE: Third Quarter Event of July 28, 2002
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,

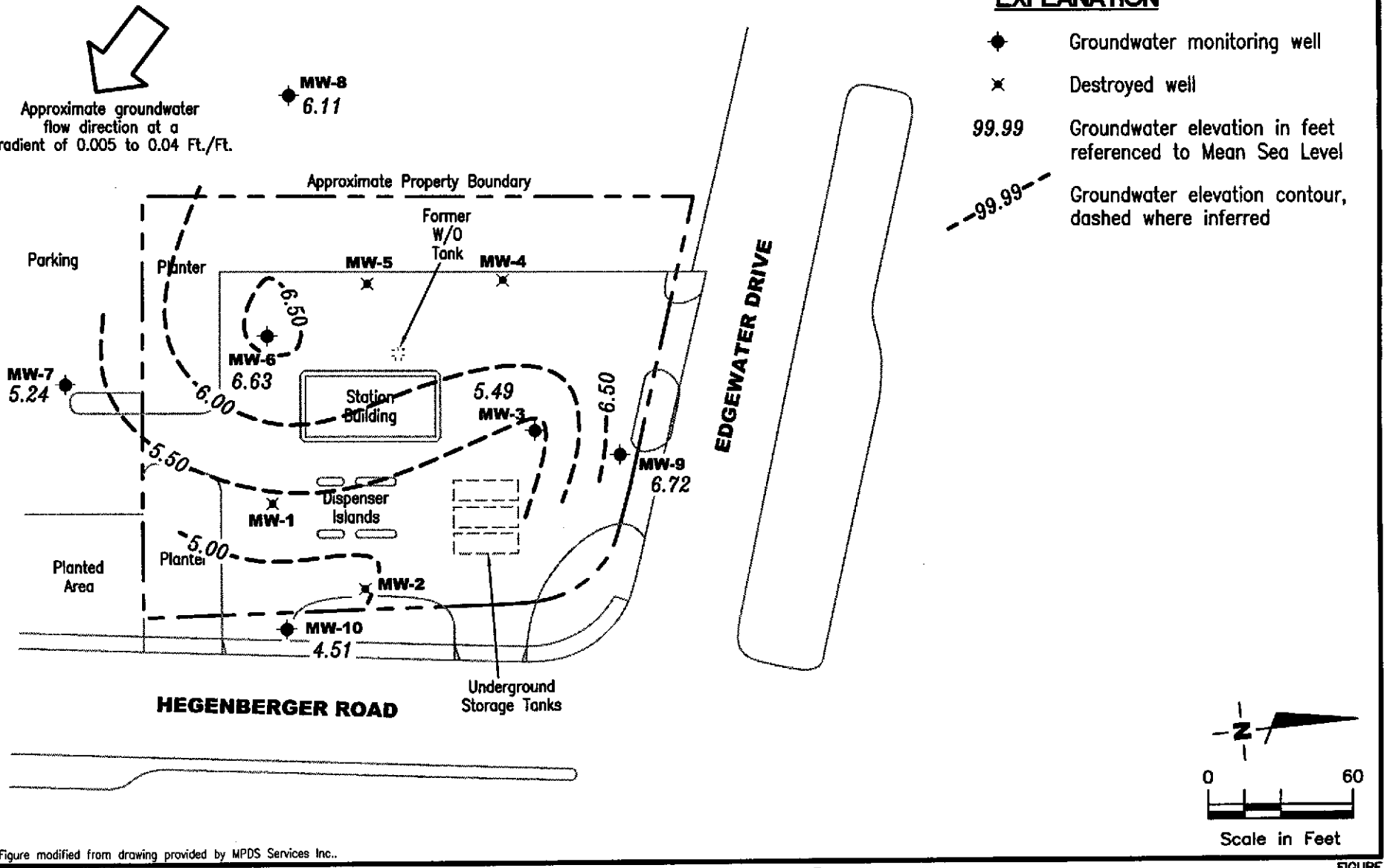
Deanna L. Harding
Project Coordinator

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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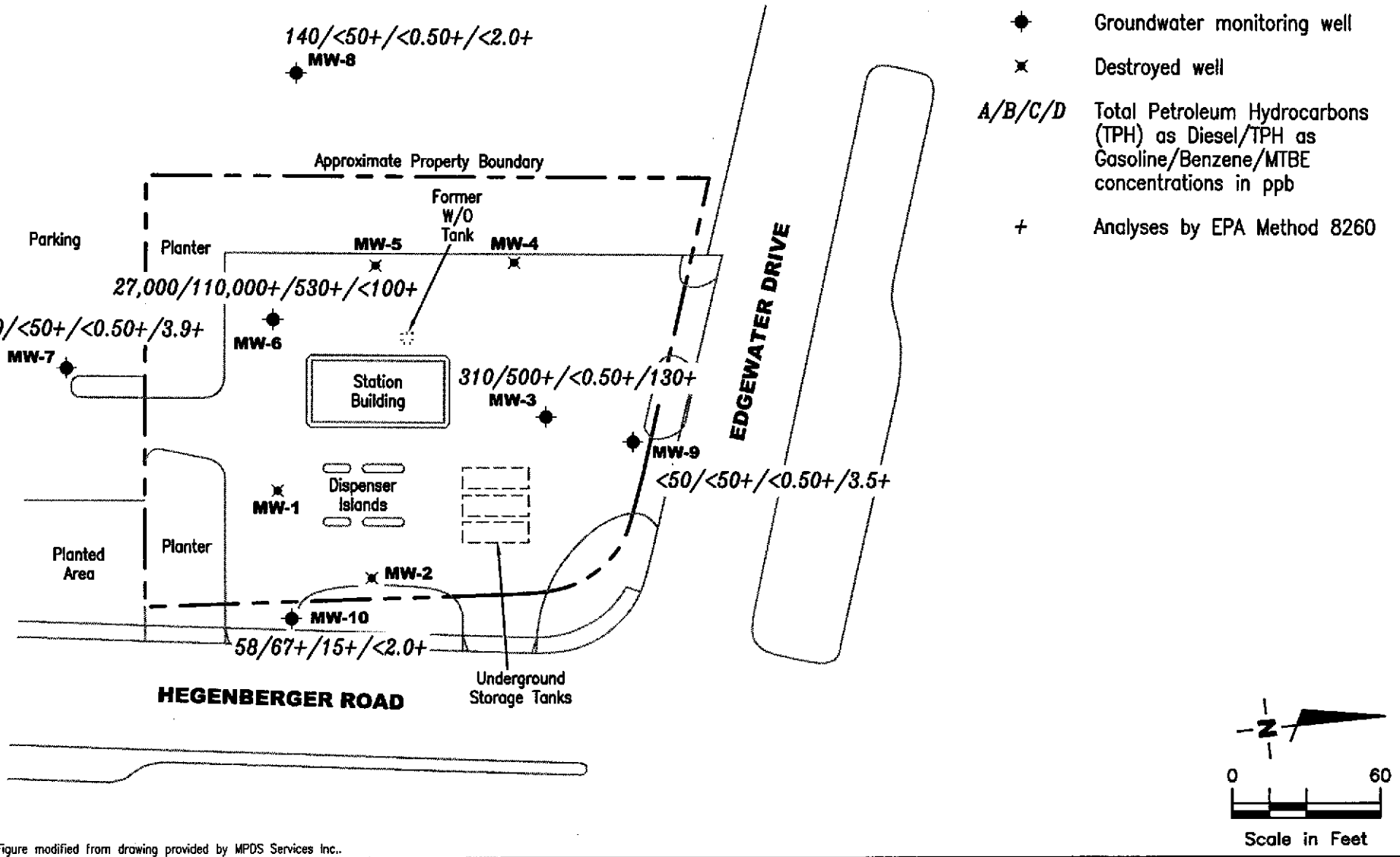
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180065		July 28, 2002	

FILE NAME: P:\ENVIRO\TOSCO\5043\Q02-5043.DWG | Layout Tab: Pot3



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

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Dublin, CA 94568 (925) 551-7555

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

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180065		July 28, 2002	

FILE NAME: P:\ENVIRO\TOSCO\5043\Q02-5043.DWG | Layout Tab: Con3

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.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-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

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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 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	360[7]	417[27]	1.24	ND	ND	0.802	237
	07/17/01	3.12		4.92	0.00	270[28]	480[27]	ND	ND	ND	ND	150
	10/01/01	3.25		4.79	0.00	270[7]	310[27]	1.0	<0.50	<0.50	<0.50	53
	01/31/02	2.27		5.77	0.00	250[34]	250[32]	3.5	<1.0	<1.0	<1.0	110
	04/18/02	3.55		4.49	0.00	320[35]	300	<2.0	<2.0	<2.0	<2.0	59
	07/28/02[36]	**2.55**		**5.49**	**0.00**	**310[35]**	**500**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**130**
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	--	--	--	--	--	--	--

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-4	08/15/94	4.27	--	4.14	0.00	72[2]	59[4]	ND	0.6	ND	ND	--
(cont)	11/14/94	4.05		4.36	0.00	ND	130[4]	ND	ND	ND	ND	--
	DESTROYED											
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	--
	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	--

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	05/18/95	--	2.5-13.5	INACCESSIBLE		--	--	--	--	--	--	--
(cont)	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	--	--	--	--	--	--	--
	11/25/96	4.01		5.44**	0.75	--	--	--	--	--	--	--
	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					--	--

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	02/12/98	3.35	2.5-13.5	6.01**	0.64	--	--	--	--	--	--	--
(cont)	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	--	--	--	--	--	--	--
	07/15/98	4.56		4.35**	0.05	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	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]

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	08/24/00	3.71	2.5-13.5	5.16	0.00	--	--	--	--	--	--	--
(cont)	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]
	07/17/01	4.37		4.50	0.00	20,000[31]	100,000[23]	3,200	3,300	3,400	12,000	ND[9]
	10/01/01	4.45		4.42	0.00	24,000[7]	110,000[23]	3,200	2,400	4,500	13,000	<1,000
	01/31/02	4.03		4.84	0.00	11,000[34]	230,000[32]	2,400	1,800	5,400	16,000	<2,500
	04/18/02	3.45		5.42	0.00	3,500[35]	94,000	6,800	13,000	3,000	19,000	<500
	07/28/02[36]	**2.24**		**6.63**	**0.00**	**27,000[35]**	**110,000**	**530**	**170**	**3,200**	**7,300**	**<100**
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
	07/17/01	5.06		3.77	0.00	ND	ND	ND	ND	ND	ND	ND
	10/01/01	4.98		3.85	0.00	<51	<50	<0.50	<0.50	<0.50	<0.50	<5.0

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	01/31/02	3.88	3.0-13.0	4.95	0.00	90[34]	<50	<0.50	<0.50	<0.50	<0.50	<2.5
(cont)	04/18/02	4.03		4.80	0.00	78[35]	<50	<0.50	<0.50	<0.50	<0.50	5.7
	07/28/02[36]	**3.59**		**5.24**	**0.00**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.9**
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
	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
	07/17/01	3.46		5.06	0.00	ND	ND	ND	ND	ND	ND	ND
	10/01/01	3.51		5.01	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	01/31/02	2.75		5.77	0.00	260[34]	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/18/02	2.98		5.54	0.00	160[35]	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/28/02[36]	**2.41**		**6.11**	**0.00**	**140[35]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**
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

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-9	10/28/96	1.15	3.0-13.0	7.14	0.00	99[1]	ND	ND	ND	ND	ND	7.6
(cont)	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
	07/17/01	1.38		6.91	0.00	ND	ND	ND	ND	ND	ND	13
	10/01/01	1.93		6.36	0.00	<52	51[18]	<0.50	<0.50	<0.50	<0.50	5.0
	01/31/02	2.08		6.21	0.00	200[34]	<50	<0.50	<0.50	<0.50	<0.50	5.8
	04/18/02	1.76		6.53	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	5.1
	07/28/02[36]	**1.57**		**6.72**	**0.00**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.5**
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

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	10/28/96	4.09	3.0-13.0	4.53	0.00	ND	ND	1.1	ND	ND	ND	ND
(cont)	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
	07/17/01	4.08		4.54	0.00	ND	ND	4.1	ND	1.0	1.8	ND
	10/01/01	4.22		4.40	0.00	100[7]	140[23]	30	0.51	4.0	12	<5.0
	01/31/02	3.68		4.94	0.00	170[34]	110[33]	16	<0.50	2.3	5.6	<2.5
	04/18/02	4.01		4.61	0.00	130[35]	<50	11	<0.50	1.4	4.5	<2.5
	07/28/02[36]	**4.11**		**4.51**	**0.00**	**58**	**67**	**15**	**<0.50**	**0.94**	**7.3**	**<2.0**
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

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	10/16/98	--	--	--	--	--	ND	ND	ND	ND	ND	ND
(cont)	01/25/99	--		--	--	--	ND	ND	ND	ND	ND	ND
	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
	07/17/01	--		--	--	--	ND	ND	ND	ND	ND	ND
	10/01/01	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	01/31/02	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/18/02	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	**07/28/02[36]**	**--**		**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**

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
QA = Quality Assurance

* 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.

19 Laboratory report indicates unidentified hydrocarbons >C9.

20 Laboratory report indicates discrete peaks and unidentified hydrocarbons >C20.

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5043

449 Hegenberger Road

Oakland, California

EXPLANATIONS: (cont)

[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.

[31] Laboratory report indicates diesel C9-C24.

[32] Laboratory report indicates unidentified hydrocarbons C6-C10.

[33] Laboratory report indicates gasoline C6-C10.

[34] Laboratory report indicates unidentified hydrocarbons C10-C28.

[35] Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

[36] TPH-G, BTEX and MTBE by EPA Method 8260.

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
	07/28/02	--	--	**130**	--	--	--	--	--
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]
	07/28/02	--	--	**<100**	--	--	--	--	--
MW-7	**07/28/02**	--	--	**3.9**	--	--	--	--	--
MW-8	**07/28/02**	--	--	**<2.0**	--	--	--	--	--
MW-9	**07/28/02**	--	--	**3.5**	--	--	--	--	--
MW-10	**07/28/02**	--	--	**<2.0**	--	--	--	--	--

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #5043

449 Hegenberger Road

Oakland, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

1,2-DCA = 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
	07/17/01	4.37	0.00	0.00
	10/01/01	4.45	0.00	0.00
	01/31/02	4.03	0.00	0.00
	04/18/02	3.45	0.00	0.00
	07/28/02	**2.24**	**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 Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5043 | Job Number: 180065
Site Address: 449 Hegenberger Road | Event Date: 7-28-02
City: Oakland, CA | Sampler: D.O.

Well ID: MW-3 | Well Condition: OK
Well Diameter: 2 in. | Hydrocarbon Thickness: 0 ft. | Amount Bailed (product/water): 0 gal.
Total Depth: 13.95 ft.
Depth to Water: 2.55 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

11.40 xVF .17 = 1.93 x3 (case volume) = Estimated Purge Volume: 6 gal.

Purge Equipment: Disposable Bailer X; Stainless Steel Bailer; Stack Pump; Suction Pump; Grundfos; Other:

Sampling Equipment: Disposable Bailer X; Pressure Bailer; Discrete Bailer; Other:

Start Time (purge): 1239 | Weather Conditions: clear
Sample Time/Date: 1257 / 7-28-02 | Water Color: light brown | Odor: Slight
Purging Flow Rate: — gpm. | Sediment Description:
Did well de-water? no | If yes, Time: — | Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1243	2	6.84	821	27.9		
1245	4	6.81	827	27.9		
1248	6	6.77	829	27.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE by 8260
	2 x Ambers	YES	NP	STL Pleasanton	TPH-D (8015)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Tosco #5043 | Job Number: 180065
Site Address: 449 Hegenberger Road | Event Date: 7-28-02
City: Oakland, CA | Sampler: P.O.

Well ID: MW- 6 | Well Condition: OK
Well Diameter: 2 in. | Hydrocarbon Thickness: 0 ft. | Amount Bailed (product/water): 0 gal.
Total Depth: 12.70 ft.
Depth to Water: 2.24 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

10.46 xVF .17 = 1.77 x3 (case volume) = Estimated Purge Volume: 5 gal.

Purge Equipment: Disposable Bailer: X; Stainless Steel Bailer; Stack Pump; Suction Pump; Grundfos; Other:

Sampling Equipment: Disposable Bailer: X; Pressure Bailer; Discrete Bailer; Other:

Start Time (purge): 1309 | Weather Conditions: clear
Sample Time/Date: 1326 / 7.28.02 | Water Color: clear/cloudy | Odor: yes
Purging Flow Rate: — gpm. | Sediment Description: —
Did well de-water? NO | If yes, Time: — | Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C)F)	D.O. (mg/L)	ORP (mV)
1311	1.5	7.17	421	26.8		
1314	3	7.12	430	26.7		
1317	5	7.08	436	26.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 6	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE by 8260
	2 x Ambers	YES	NP	STL Pleasanton	TPH-D (8015)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Tosco #5043 Job Number: 180065
Site Address: 449 Hegenberger Road Event Date: 7-28-02
City: Oakland, CA Sampler: P.O.

Well ID: MW-7 Well Condition: Ok
Well Diameter: 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth: 13.18 ft.
Depth to Water: 3.59 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

9.59 xVF .17 = 1.63 x3 (case volume) = Estimated Purge Volume: 5 gal.

Purge Equipment:
- Disposable Bailer: X
- Stainless Steel Bailer:
- Stack Pump:
- Suction Pump:
- Grundfos:
- Other:

Sampling Equipment:
- Disposable Bailer: X
- Pressure Bailer:
- Discrete Bailer:
- Other:

Start Time (purge): 1211 Weather Conditions: Clear
Sample Time/Date: 1226 / 7.28.02 Water Color: Clear Odor: no
Purging Flow Rate: — gpm. Sediment Description: —
Did well de-water? no If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1213	1.5	7.12	418	24.6		
1216	3	7.07	421	24.5		
1218	5	7.04	425	24.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE by 8260
	2 x Ambers	YES	NP	STL Pleasanton	TPH-D (8015)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Tosco #5043 Job Number: 180065
Site Address: 449 Hegenberger Road Event Date: 7.29.02
City: Oakland, CA Sampler: D.O.

Well ID MW- 8 Well Condition: Ok
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 14.82 ft.
Depth to Water 2.41 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

12.41 xVF .17 = 2.10 x3 (case volume) = Estimated Purge Volume: 6 gal.

Purge Equipment:
- Disposable Bailer: X
- Stainless Steel Bailer:
- Stack Pump:
- Suction Pump:
- Grundfos:
- Other:

Sampling Equipment:
- Disposable Bailer: X
- Pressure Bailer:
- Discrete Bailer:
- Other:

Start Time (purge): 1053 Weather Conditions: clear
Sample Time/Date: 1109 / 7-29-02 Water Color: Clear Odor: no
Purging Flow Rate: — gpm. Sediment Description: —
Did well de-water? no If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1055	2	6.51	1192	26.5		
1058	4	6.52	1199	26.7		
1101	6	6.52	1208	26.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 8	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE by 8260
	2 x Ambers	YES	NP	STL Pleasanton	TPH-D (8015)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Tosco #5043 | Job Number: 180065
Site Address: 449 Hegenberger Road | Event Date: 7.28.02
City: Oakland, CA | Sampler: D.O.

Well ID: MW-9 | Well Condition: OK
Well Diameter: 2 in. | Hydrocarbon Thickness: 0 ft. | Amount Bailed (product/water): 0 gal.
Total Depth: 12.48 ft.
Depth to Water: 1.57 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

10.91 xVF .17 = 1.85 x3 (case volume) = Estimated Purge Volume: 5.5 gal.

Purge Equipment: Disposable Bailer ✓; Stainless Steel Bailer; Stack Pump; Suction Pump; Grundfos; Other:

Sampling Equipment: Disposable Bailer ✓; Pressure Bailer; Discrete Bailer; Other:

Start Time (purge): 1119 | Weather Conditions: clear
Sample Time/Date: 1135 / 7-28-02 | Water Color: Clear | Odor: no
Purging Flow Rate: — gpm. | Sediment Description: —
Did well de-water? no | If yes, Time: — | Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1122	2	7.32	476	26.9		
1124	4	7.28	480	26.7		
1126	5.5	7.25	485	26.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE by 8260
	2 x Ambers	YES	NP	STL Pleasanton	TPH-D (8015)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Tosco #5043 Job Number: 180065
Site Address: 449 Hegenberger Road Event Date: 7-28-02
City: Oakland, CA Sampler: D.O.

Well ID MW- 10 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 10 gal.
Total Depth 12.77 ft.
Depth to Water 4.11 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

8.66 xVF .17 = 1.47 x3 (case volume) = Estimated Purge Volume: 4.5 gal.

Purge Equipment: Disposable Bailer X; Stainless Steel Bailer; Stack Pump; Suction Pump; Grundfos; Other:

Sampling Equipment: Disposable Bailer X; Pressure Bailer; Discrete Bailer; Other:

Start Time (purge): 1147 Weather Conditions: Clear
Sample Time/Date: 1200 / 7-28-02 Water Color: Clear Odor: no
Purging Flow Rate: — gpm. Sediment Description: —
Did well de-water? no If yes, Time: — Volume: — gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1149	1.5	7.06	1124	23.6		
1151	3	7.05	1128	22.4		
1153	4.5	7.03	1131	21.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 10	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE by 8260
	2 x Ambers	YES	NP	STL Pleasanton	TPH-D (8015)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

2002-07-0587 67796

Gettler-Ryan Inc., Chain-of-Custody

Tosco Corp./
Phillips 66 Co.
000 Crow Canyon Place
Suite 400
San Ramon, CA 94583

Facility Number #5043
Facility Address 449 HEGENBERGER ROAD, OAKLAND, CA
Global ID T0600101476 Project 180065.80
Client Contact MR. DAVID B. DEWITT
Phone (925) 277-2384

Laboratory Name STL - PLEASANTON, CA
Consultant GETTLER-RYAN, INC. DEANNA L. HARDING
Address 6747 SIERRA CT., SUITE J, DUBLIN CA 94568
Phone (925) 551-7555 Fax (925) 551-7899
Samples Collected by David Okahata

SAMPLE ID	Number of Containers	Matrix (S = Soil A = Air W = Water C = Charcoal)	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	1	W	HCL	7-28-02/—					X									
MW-3	5			/1257		X			X									
MW-6	5			/1326		X			X									
MW-7	5			/1226		X			X									
MW-8	5			/1109		X			X									
MW-9	5			/1135		X			X									
MW-10	5			/1200		X			X									

OXYGENATES 8260
1 – MTBE
2 – TBA
3 – TAME
4 – DIPE
5 – ETBE
6 – 1,2-DCA
7 – EDB
8 – ETHANOL

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
David Okahata	7-28-02 G.R.	7-28-02/1730				
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Relinquished By (Signature)	Organization	Date/Time	Recieved For Laboratory By (Signature)		Date/Time	Iced (Y)/N
					7-29-02	1355

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

Aug 13 02 11:23a stlOnsite 9256003002 P.5

Submission#: 2002-07-0587

August 13, 2002

SEVERN TRENT LABORATORY

STL San Francisco
1220 Quarry Ln
Pleasanton CA 94566

Tel.: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#:2496

Gettler Ryan
6747 Sierra Court Suite J
Dublin, CA 94568
Attn.: Deanna Harding
Project#: 180065.80
Project: Tosco #5043
Site: 449 Hegenberger Road
Oakland, CA

RECEIVED
3
GETTLER-RYAN INC.
HEGENBERGER ROAD

Dear Ms. Harding,

Attached is our report for your samples received on 07/29/2002 13:55
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/12/2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: tgranicher@chromalab.com

Sincerely,

Tod Granicher
Project Manager

Submission #: 2002-07-0587

Diesel

Gettler Ryan

Attn.: Deanna Harding
6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180065.80
Tosco #5043

Received: 07/29/2002 13:55

Site: 449 Hegenberger Road
Oakland, CA

SEVERN TRENT LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	07/28/2002 12:57	Water	2
MW-6	07/28/2002 13:26	Water	3
MW-7	07/28/2002 12:26	Water	4
MW-8	07/28/2002 11:09	Water	5
MW-9	07/28/2002 11:35	Water	6
MW-10	07/28/2002 12:00	Water	7

Submission #: 2002-07-0587

Diesel

Gettler Ryan
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6747 Sierra Court Suite J
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Project: 180065.80
Tosco #5043

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Oakland, CA

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CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-3	Lab ID:	2002-07-0587 - 2
Sampled:	07/28/2002 12:57	Extracted:	8/2/2002 19:28
Matrix:	Water	QC Batch#:	2002/08/02-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	310	50	ug/L	1.00	08/05/2002 22:49	ndp
Surrogates(s)						
o-Terphenyl	73.2	60-130	%	1.00	08/05/2002 22:49	

Submission #: 2002-07-0587

Diesel

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CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW-6**	Lab ID:	2002-07-0587 - 3
Sampled:	07/28/2002 13:26	Extracted:	8/2/2002 19:28
Matrix:	Water	QC Batch#:	2002/08/02-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	27000	500	ug/L	10.00	08/06/2002 09:00	ndp
Surrogates(s)						
o-Terphenyl	NA	60-130	%	10.00	08/06/2002 09:00	sd

Submission #: 2002-07-0587

Diesel

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Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW-7**	Lab ID:	2002-07-0587 - 4
Sampled:	07/28/2002 12:26	Extracted:	8/2/2002 19:28
Matrix:	Water	QC Batch#:	2002/08/02-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	08/05/2002 21:56	
Surrogates(s)						
o-Terphenyl	104.8	60-130	%	1.00	08/05/2002 21:56	

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CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-8	Lab ID:	2002-07-0587 - 5
Sampled:	07/28/2002 11:09	Extracted:	8/2/2002 19:28
Matrix:	Water	QC Batch#:	2002/08/02-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	140	50	ug/L	1.00	08/05/2002 23:26	ndp
Surrogates(s)						
o-Terphenyl	95.9	60-130	%	1.00	08/05/2002 23:26	

Submission #: 2002-07-0587

Diesel

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CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW-9**	Lab ID:	2002-07-0587 - 6
Sampled:	07/28/2002 11:35	Extracted:	8/2/2002 19:28
Matrix:	Water	QC Batch#:	2002/08/02-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	08/05/2002 22:49	
Surrogates(s)						
o-Terphenyl	88.5	60-130	%	1.00	08/05/2002 22:49	

Submission #: 2002-07-0587

Diesel

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CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW-10**	Lab ID:	2002-07-0587 - 7
Sampled:	07/28/2002 12:00	Extracted:	8/2/2002 19:28
Matrix:	Water	QC Batch#:	2002/08/02-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	58	50	ug/L	1.00	08/05/2002 23:26	
Surrogates(s)						
o-Terphenyl	78.6	60-130	%	1.00	08/05/2002 23:26	

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Diesel

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M — Test(s): 8015M
Method Blank — **Water** — **QC Batch # 2002/08/02-05.10**
MB: 2002/08/02-05.10-001 — Date Extracted: 08/02/2002 19:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	08/05/2002 12:38	
Surrogates(s)					
o-Terphenyl	92.8	60-130	%	08/05/2002 12:38	

Submission #: 2002-07-0587

Diesel

Gettler Ryan

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2002/08/02-05.10**

LCS 2002/08/02-05.10-002 Extracted: 08/02/2002 Analyzed: 08/05/2002 11:19
LCSD 2002/08/02-05.10-003 Extracted: 08/02/2002 Analyzed: 08/05/2002 11:59

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	1110	1090	1250	88.8	87.2	1.8	60-130	25		
Surrogates(s)										
o-Terphenyl	24.1	22.8	20.0	120.3	114.2		60-130	0		

Submission #: 2002-07-0587

Diesel

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CA DHS ELAP# 2496

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

Submission #: 2002-07-0587

Gas/BTEXFuel Oxygenates by 8260B

Gettler Ryan

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Project: 180065.80
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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	07/28/2002	Water	1
MW-3	07/28/2002 12:57	Water	2
MW-6	07/28/2002 13:26	Water	3
MW-7	07/28/2002 12:26	Water	4
MW-8	07/28/2002 11:09	Water	5
MW-9	07/28/2002 11:35	Water	6
MW-10	07/28/2002 12:00	Water	7

Submission #: 2002-07-0587

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2002-07-0587-1
Sampled:	07/28/2002	Extracted:	8/4/2002 13:43
Matrix:	Water	QC Batch#:	2002/08/04-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/04/2002 13:43	
Benzene	ND	0.50	ug/L	1.00	08/04/2002 13:43	
Toluene	ND	0.50	ug/L	1.00	08/04/2002 13:43	
Ethylbenzene	ND	0.50	ug/L	1.00	08/04/2002 13:43	
Total xylenes	ND	1.0	ug/L	1.00	08/04/2002 13:43	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	08/04/2002 13:43	
Surrogates(s)						
1,2-Dichloroethane-d4	106.0	76-114	%	1.00	08/04/2002 13:43	
Toluene-d8	96.8	88-110	%	1.00	08/04/2002 13:43	

Submission #: 2002-07-0587

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-3**	Lab ID:	2002-07-0587-2
Sampled:	07/26/2002 12:57	Extracted:	8/6/2002 17:21
Matrix:	Water	QC Batch#:	2002/08/06-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	500	50	ug/L	1.00	08/06/2002 17:21	
Benzene	ND	0.50	ug/L	1.00	08/06/2002 17:21	
Toluene	ND	0.50	ug/L	1.00	08/06/2002 17:21	
Ethylbenzene	ND	0.50	ug/L	1.00	08/06/2002 17:21	
Total xylenes	ND	1.0	ug/L	1.00	08/06/2002 17:21	
Methyl tert-butyl ether (MTBE)	130	2.0	ug/L	1.00	08/06/2002 17:21	
Surrogates(s)						
1,2-Dichloroethane-d4	102.1	76-114	%	1.00	08/06/2002 17:21	
Toluene-d8	98.3	88-110	%	1.00	08/06/2002 17:21	

Submission #: 2002-07-0587

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-6**	Lab ID:	2002-07-0587 - 3
Sampled:	07/28/2002 13:26	Extracted:	8/6/2002 17:44
Matrix:	Water	QC Batch#:	2002/08/06-01.27

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	110000	2500	ug/L	50.00	08/06/2002 17:44	
Benzene	530	25	ug/L	50.00	08/06/2002 17:44	
Toluene	170	25	ug/L	50.00	08/06/2002 17:44	
Ethylbenzene	3200	25	ug/L	50.00	08/06/2002 17:44	
Total xylenes	7300	50	ug/L	50.00	08/06/2002 17:44	
Methyl tert-butyl ether (MTBE)	ND	100	ug/L	50.00	08/06/2002 17:44	
Surrogates(s)						
1,2-Dichloroethane-d4	100.4	76-114	%	50.00	08/06/2002 17:44	
Toluene-d8	99.4	88-110	%	50.00	08/06/2002 17:44	

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-7	Lab ID:	2002-07-0587 - 4
Sampled:	07/28/2002 12:26	Extracted:	8/4/2002 14:53
Matrix:	Water	QC Batch#:	2002/08/04-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/04/2002 14:53	
Benzene	ND	0.50	ug/L	1.00	08/04/2002 14:53	
Toluene	ND	0.50	ug/L	1.00	08/04/2002 14:53	
Ethylbenzene	ND	0.50	ug/L	1.00	08/04/2002 14:53	
Total xylenes	ND	1.0	ug/L	1.00	08/04/2002 14:53	
Methyl tert-butyl ether (MTBE)	3.9	2.0	ug/L	1.00	08/04/2002 14:53	
Surrogates(s)						
1,2-Dichloroethane-d4	112.1	76-114	%	1.00	08/04/2002 14:53	
Toluene-d8	98.4	88-110	%	1.00	08/04/2002 14:53	

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Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-8**	Lab ID:	2002-07-0587 - 5
Sampled:	07/28/2002 11:09	Extracted:	8/6/2002 18:06
Matrix:	Water	QC Batch#:	2002/08/06-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/06/2002 18:06	
Benzene	ND	0.50	ug/L	1.00	08/06/2002 18:06	
Toluene	ND	0.50	ug/L	1.00	08/06/2002 18:06	
Ethylbenzene	ND	0.50	ug/L	1.00	08/06/2002 18:06	
Total xylenes	ND	1.0	ug/L	1.00	08/06/2002 18:06	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	08/06/2002 18:06	
Surrogates(s)						
1,2-Dichloroethane-d4	97.9	76-114	%	1.00	08/06/2002 18:06	
Toluene-d8	100.6	88-110	%	1.00	08/06/2002 18:06	

Submission #: 2002-07-0587

Gas/BTEXFuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-9**	Lab ID:	2002-07-0587 - 6
Sampled:	07/28/2002 11:35	Extracted:	8/4/2002 15:38
Matrix:	Water	QC Batch#:	2002/08/04-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/04/2002 15:38	
Benzene	ND	0.50	ug/L	1.00	08/04/2002 15:38	
Toluene	ND	0.50	ug/L	1.00	08/04/2002 15:38	
Ethylbenzene	ND	0.50	ug/L	1.00	08/04/2002 15:38	
Total xylenes	ND	1.0	ug/L	1.00	08/04/2002 15:38	
Methyl tert-butyl ether (MTBE)	3.5	2.0	ug/L	1.00	08/04/2002 15:38	
Surrogates(s)						
1,2-Dichloroethane-d4	109.3	76-114	%	1.00	08/04/2002 15:38	
Toluene-d8	96.1	88-110	%	1.00	08/04/2002 15:38	

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-10**	Lab ID:	2002-07-0587 - 7
Sampled:	07/28/2002 12:00	Extracted:	8/6/2002 18:28
Matrix:	Water	QC Batch#:	2002/08/06-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	67	50	ug/L	1.00	08/06/2002 18:28	
Benzene	15	0.50	ug/L	1.00	08/06/2002 18:28	
Toluene	ND	0.50	ug/L	1.00	08/06/2002 18:28	
Ethylbenzene	0.94	0.50	ug/L	1.00	08/06/2002 18:28	
Total xylenes	7.3	1.0	ug/L	1.00	08/06/2002 18:28	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	08/06/2002 18:28	
Surrogates(s)						
1,2-Dichloroethane-d4	100.4	76-114	%	1.00	08/06/2002 18:28	
Toluene-d8	100.5	88-110	%	1.00	08/06/2002 18:28	

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB
Method Blank — **Water** — **QC Batch # 2002/08/04-01.27**
MB: 2002/08/04-01.27-027 — Date Extracted: 08/04/2002 13:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/04/2002 13:21	
Benzene	ND	0.5	ug/L	08/04/2002 13:21	
Toluene	ND	0.5	ug/L	08/04/2002 13:21	
Ethylbenzene	ND	0.5	ug/L	08/04/2002 13:21	
Total xylenes	ND	1.0	ug/L	08/04/2002 13:21	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	08/04/2002 13:21	
Surrogates(s)					
1,2-Dichloroethane-d4	111.0	76-114	%	08/04/2002 13:21	
Toluene-d8	99.2	88-110	%	08/04/2002 13:21	

Gas/BTEXFuel Oxygenates by 8260B

Gettler Ryan

Attn.: Deanna Harding
6747 Sierra Court Suite J
Dublin, CA 94568
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180065.80
Tosco #5043

Received: 07/29/2002 13:55

Site: 449 Hegenberger Road
Oakland, CA

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STL San Francisco
1220 Quarry Lane
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www.stl-inc.com
www.chromalab.com

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Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — Water — **QC Batch # 2002/08/06-01.27**

MB: 2002/08/06-01.27-017 — Date Extracted: 08/06/2002 12:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/06/2002 12:14	
Benzene	ND	0.5	ug/L	08/06/2002 12:14	
Toluene	ND	0.5	ug/L	08/06/2002 12:14	
Ethylbenzene	ND	0.5	ug/L	08/06/2002 12:14	
Total xylenes	ND	1.0	ug/L	08/06/2002 12:14	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	08/06/2002 12:14	
Surrogates(s)					
1,2-Dichloroethane-d4	109.8	76-114	%	08/06/2002 12:14	
Toluene-d8	100.4	88-110	%	08/06/2002 12:14	

Submission #: 2002-07-0587

Gas/BTEXFuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2002/08/04-01.27**

LCS 2002/08/04-01.27-003 Extracted: 08/04/2002 Analyzed: 08/04/2002 12:30
LCSD 2002/08/04-01.27-004 Extracted: 08/04/2002 Analyzed: 08/04/2002 12:58

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	25.9	26.0	25.0	103.6	104.0	0.4	69-129	20		
Toluene	26.9	27.6	25.0	107.6	110.4	2.6	70-130	20		
Methyl tert-butyl ether (MTBE)	28.7	28.9	25.0	114.8	115.6	0.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	564	566	500	112.8	113.2		76-114			
Toluene-d8	494	505	500	98.8	101.0		88-110			

Submission #: 2002-07-0587

Gas/BTEXFuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2002/08/06-01.27**

LCS 2002/08/06-01.27-004 Extracted: 08/06/2002 Analyzed: 08/06/2002 11:28
LCSD 2002/08/06-01.27-005 Extracted: 08/06/2002 Analyzed: 08/06/2002 11:52

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	25.2	24.2	25.0	100.8	96.8	4.0	69-129	20		
Toluene	27.4	25.6	25.0	109.6	102.4	6.8	70-130	20		
Methyl tert-butyl ether (MTBE)	28.3	25.9	25.0	113.2	103.6	8.9	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	549	542	500	109.8	108.4		76-114			
Toluene-d8	494	493	500	98.8	98.6		88-110			

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Legend and Notes

Analysis Flag

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Reporting limits were raised due to high level of analyte present in the sample.