

B-443



GETTLER-RYAN INC.

TRANSMITTAL

October 25, 2002
G-R #180107

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

CC: Mr. Tim Ripp
Shaw Environmental, Inc.
1921 Ringwood Avenue
San Jose, California 95131

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

RE: **Tosco (Unocal) Service Station
#5430
1935 Washington Avenue
San Leandro, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 7, 2002	Groundwater Monitoring and Sampling Report Second Semi-Annual - Event of August 30, 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 **November 7, 2002**, this report will be distributed to the following:

cc: Mr. Scott Seery, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94501
Mr. Michael Bakaldin, City of San Leandro Fire Dept., 835 East 14th Street, San Leandro, CA 94577

Enclosure

**Alameda County
NOV 14 2002
Environmental Health**

trans/5430-dbd



GETTLER - RYAN INC.

October 7, 2002
G-R Job #180107

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

RE: Second Semi-Annual Event of August 30, 2002
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5430
1935 Washington Avenue
San Leandro, California


Dear Mr. De Witt:

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


Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,


- For -

Deanna L. Harding
Project Coordinator


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

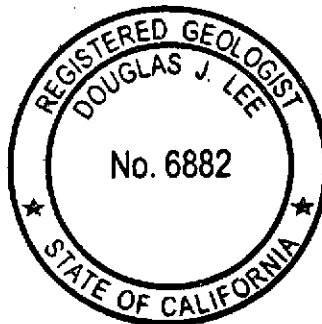
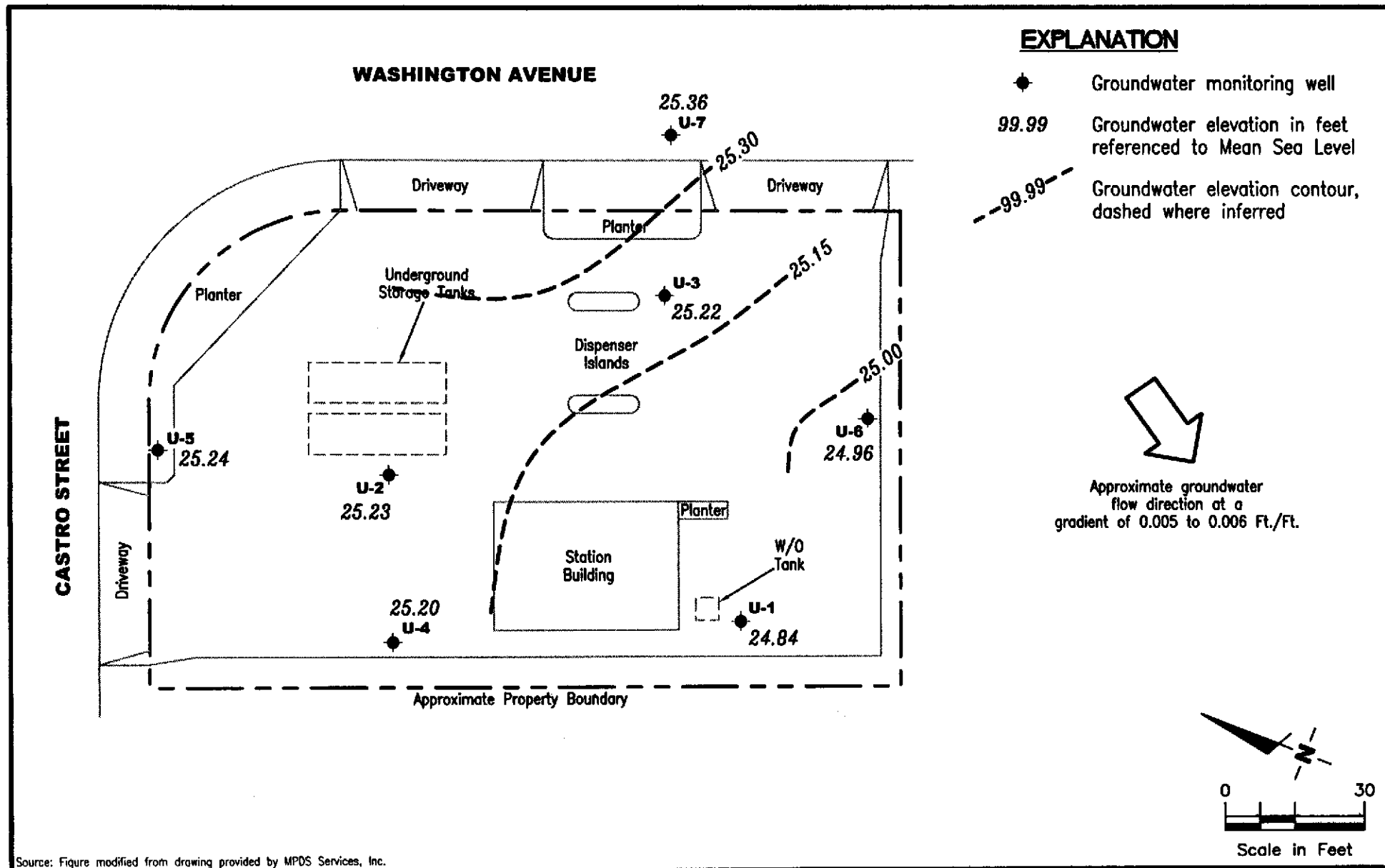


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory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

5430.qml



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

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

FIGURE

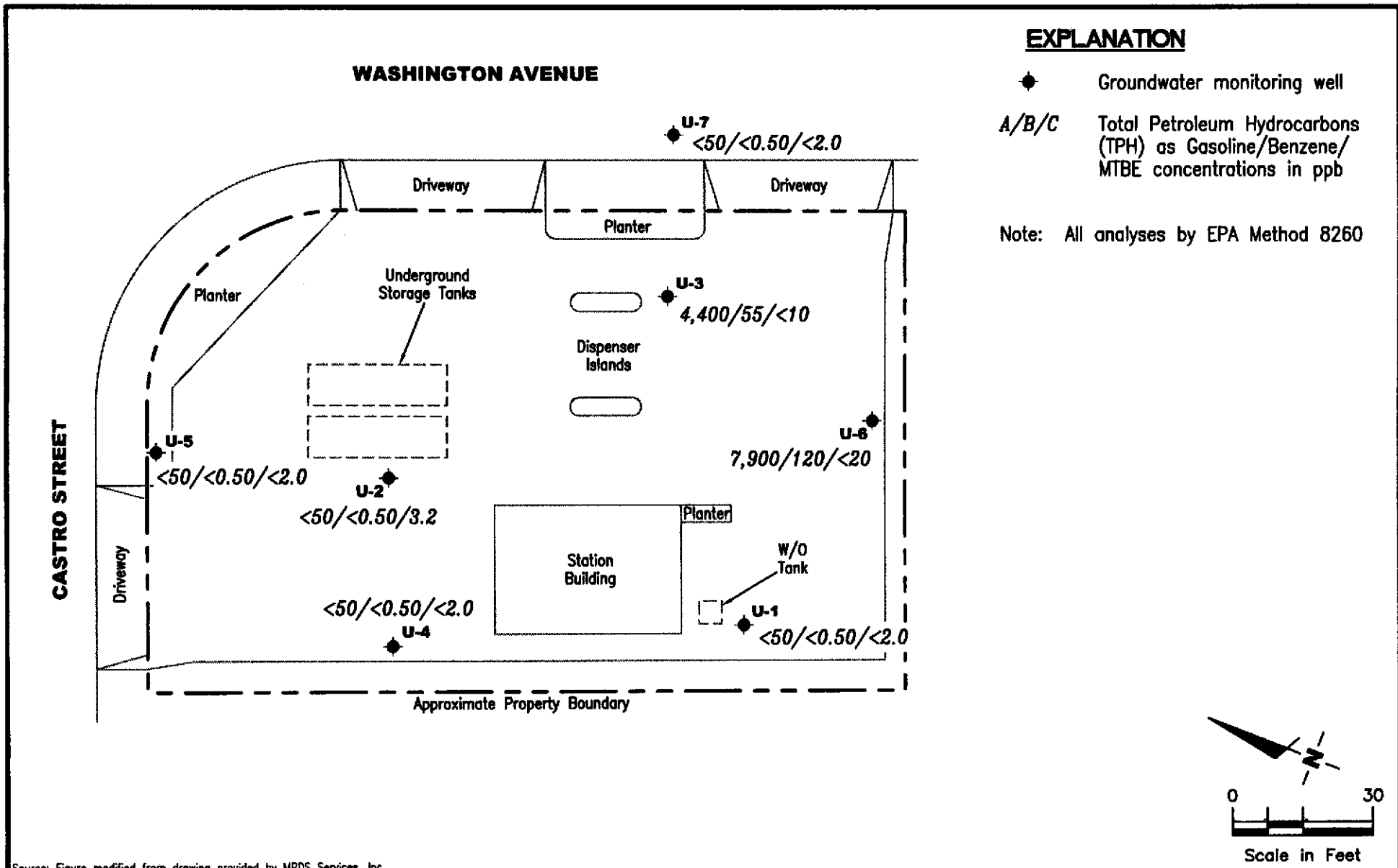
1

PROJECT NUMBER
 180107

REVIEWED BY

DATE
 August 30, 2002

REVISED DATE



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

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

CONCENTRATION MAP
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

FIGURE
2

PROJECT NUMBER
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REVIEWED BY

DATE
 August 30, 2002

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-1													
56.58	08/13/93 ¹	31.60	20.0-40.0	24.98	50 ²	310	0.84	ND	2.6	1.0	--	--	--
	09/07/93	31.60		24.98	--	--	--	--	--	--	--	--	--
56.10	12/16/93 ¹	33.19		22.91	130 ³	ND	ND	ND	ND	ND	--	--	--
	01/13/94	33.06		23.04	--	--	--	--	--	--	--	--	--
	02/09/94	32.70		23.40	--	--	--	--	--	--	--	--	--
	03/25/94 ¹	31.07		25.03	57 ³	58	0.63	0.79	ND	0.65	--	--	--
	05/18/94	31.76		24.34	--	--	--	--	--	--	--	--	--
	06/19/94 ¹	32.26		23.84	61 ³	51	ND	1.4	ND	2.7	--	ND	7.4
	07/27/94	33.07		23.03	--	--	--	--	--	--	--	--	--
	08/18/94	33.50		22.60	--	--	--	--	--	--	--	--	--
	09/15/94 ¹	33.93		22.17	83 ³	ND	0.50	0.85	ND	0.77	--	ND	9.5
	10/11/94	33.25		22.85	--	--	--	--	--	--	--	--	--
	11/08/94	34.05		22.05	--	--	--	--	--	--	--	--	--
	12/06/94 ¹	32.37		23.73	ND	ND	ND	ND	ND	ND	--	ND	5.8
	01/10/95	31.29		24.81	--	--	--	--	--	--	--	--	--
56.09	03/14/95	27.86		28.23	71 ³	380	20	ND	ND	10	--	--	--
	06/20/95	28.20		27.89	170 ³	500	50	ND	ND	4.4	--	--	--
	09/18/95	30.65		25.44	72.00	57	1.2	0.75	0.57	2.2	-- ⁶	--	--
	12/14/95	32.20		23.89	ND	ND	0.72	1.4	1.2	3.6	--	ND	3.8
	03/06/96	26.53		29.56	ND	96	4.5	ND	ND	3.7	ND	--	--
	06/04/96	27.43		28.66	170 ³	410	48	ND	3.4	7.9	ND	--	--
	09/06/96	30.25		25.84	ND	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	26.03		30.06	--	ND	ND	ND	ND	ND	ND	ND	4.3
	09/04/97	31.56		24.53	--	ND	ND	ND	ND	ND	ND	ND	4.5
	03/09/98	20.63		35.46	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/01/98	27.82		28.27	--	ND	0.59	ND	ND	ND	3.1	ND	8.9
	03/02/99	26.83		29.26	--	ND	ND	ND	ND	ND	ND	ND	4.5
	09/07/99	28.03		28.06	--	ND	ND	ND	ND	ND	ND	ND	ND
	03/09/00	25.50		30.59	--	ND	ND	ND	ND	ND	ND	ND	1.32
	09/11/00 ¹⁶	28.16		27.93	--	ND	ND	0.592	ND	ND	ND	ND ⁹	ND ⁹

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-1	03/26/01 ¹⁷	27.02	20.0-40.0	29.07	--	ND	ND	ND	ND	ND	ND	ND	2.50
(cont)	09/04/01 ¹⁹	31.67		24.42	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	2.4
	03/18/02 ²¹	28.81		27.28	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50 ¹⁸	4.4 ¹⁸
	08/30/02 ^{19,23}	31.25		24.84	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	1.2
U-2													
55.77	08/13/93	30.87	20.0-40.0	24.90	--	1,400	ND	ND	ND	ND	--	--	--
	09/07/93	30.87		24.90	--	--	--	--	--	--	--	--	--
55.27	12/16/93	32.19		23.08	--	330	1.7	ND	11	8.5	--	--	--
	01/13/94	32.13		23.14	--	--	--	--	--	--	--	--	--
	02/09/94	33.50		21.77	--	--	--	--	--	--	--	--	--
	03/25/94	30.09		25.18	--	130	0.70	0.78	0.65	0.64	--	ND	11
(D)	03/25/94	--		--	--	--	--	--	--	--	--	ND	ND
	05/18/94	30.73		24.54	--	--	--	--	--	--	--	--	--
	06/19/94	31.31		23.96	--	180 ⁴	ND	ND	ND	0.86	--	ND	0.54
	07/27/94	32.12		23.15	--	--	--	--	--	--	--	--	--
	08/18/94	32.50		22.77	--	--	--	--	--	--	--	--	--
	09/15/94	33.00		22.27	--	1,000 ⁵	44	ND	ND	ND	--	ND	0.66
	10/11/94	32.35		22.92	--	--	--	--	--	--	--	--	--
	11/08/94	33.09		22.18	--	--	--	--	--	--	--	--	--
	12/06/94	31.44		23.83	--	250	19	ND	ND	ND	--	ND	ND
	01/10/95	30.25		25.02	--	--	--	--	--	--	--	--	--
55.29	03/14/95	26.36		28.93	--	89	ND	ND	ND	1.2	--	--	--
	06/20/95	26.74		28.55	--	ND	ND	0.58	ND	1.7	--	--	--
	09/18/95	29.65		25.64	--	ND	ND	ND	ND	0.85	-- ⁶	--	--
	12/14/95	31.10		24.19	--	ND	ND	0.89	ND	2.0	-- ⁷	ND	ND
	03/06/96	25.17		30.12	--	ND	ND	ND	ND	ND	80	--	--
	06/04/96	26.03		29.26	--	ND	ND	ND	ND	ND	110	--	--
	09/06/96	29.18		26.11	--	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	24.64		30.65	--	ND	ND	ND	ND	ND	42	--	--
	09/04/97	30.59		24.70	--	ND	ND	ND	ND	ND	46	--	--

Table 1
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 1935 Washington Avenue
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WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCB (ppb)	1,2-DCA (ppb)
U-2	03/09/98	19.22	20.0-40.0	36.07	--	ND	ND	ND	ND	ND	4.4	--	--
(cont)	09/01/98	26.40		28.89	--	ND	ND	ND	ND	ND	25	--	--
	03/02/99	25.48		29.81	--	ND	ND	ND	ND	ND	16	--	--
	09/07/99	26.51		28.78	--	ND	ND	ND	ND	ND	20	--	--
	03/09/00	23.95		31.34	--	ND	ND	ND	ND	ND	ND	--	--
	09/11/00	26.75		28.54	--	ND	ND	0.635	ND	ND	ND	--	--
	03/26/01	25.64		29.65	--	ND	ND	ND	ND	ND	ND	--	--
	09/04/01	30.47		24.82	--	<50	<0.50	0.69	<0.50	<0.50	<5.0	--	--
	03/18/02	27.29		28.00	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	08/30/02 ²³	30.06		25.23	--	<50	<0.50	<0.50	<0.50	<1.0	3.2	--	--
U-3													
55.66	08/13/93	30.70	20.0-40.0	24.96	--	23,000	1,000	ND	1,700	1,600	--	--	--
	09/07/93	30.70		24.96	--	--	--	--	--	--	--	--	--
55.24	12/16/93	32.08		23.16	--	15,000	570	ND	940	670	--	--	--
	01/13/94	31.98		23.26	--	--	--	--	--	--	--	--	--
	02/09/94	33.82		21.42	--	--	--	--	--	--	--	--	--
	03/25/94	30.03		25.21	--	18,000	560	40	1,000	770	--	ND	480
	05/18/94	30.66		24.58	--	--	--	--	--	--	--	--	--
	06/19/94	31.19		24.05	--	17,000	580	ND	1,300	90	--	ND	410
	07/27/94	31.98		23.26	--	--	--	--	--	--	--	--	--
	08/18/94	32.39		22.85	--	--	--	--	--	--	--	--	--
	09/15/94	32.84		22.40	--	12,000	370	ND	970	610	--	ND	420
	10/11/94	32.20		23.04	--	--	--	--	--	--	--	--	--
	11/08/94	33.01		22.23	--	--	--	--	--	--	--	--	--
	12/06/94	31.34		23.90	--	17,000	390	ND	990	560	--	ND	430
	01/10/95	30.23		25.01	--	--	--	--	--	--	--	--	--
55.23	03/14/95	25.44		29.79	--	13,000	860	120	1,300	1,700	--	--	--
	06/20/95	26.70		28.53	--	9,800	590	ND	800	1,000	--	--	--
	09/18/95	29.55		25.68	--	9,800	600	ND	1,000	760	-- ⁶	--	--
	12/14/95	31.02		24.21	--	10,000	520	ND	920	630	-- ⁷	ND	240

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 Tosco (Unocal) Service Station #5430
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WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (ft.)	TPH-D (pph)	TPH-G (pph)	B (pph)	T (pph)	E (pph)	X (pph)	MTBE (pph)	1,2-DCB (pph)	1,2-DCA (pph)
U-3	03/06/96	25.25	20.0-40.0	29.98	--	19,000	1,400	ND	1,800	3,000	73	--	--
(cont)	06/04/96	26.00		29.23	--	8,800	510	ND	600	830	ND	--	--
	09/06/96	29.06		26.17	--	15,000	360	20	540	450	ND	--	--
	03/08/97	24.65		30.58	--	3,500	310	ND	230	630	ND	ND	100
	09/04/97	30.44		24.79	--	700	27	ND	48	34	ND	ND	160
	03/09/98	19.20		36.03	--	410	22	1.2	ND ⁹	6.1	24	ND	4.4
	09/01/98	26.33		28.90	--	ND	ND	ND	ND	ND	6.1	ND	ND
	03/02/99	25.50		29.73	--	2,100	110	2.6	ND ⁹	240	39	ND	6.7
	09/07/99 ¹³	27.63		27.60	--	2,400 ¹²	67	ND ⁹	150	150	ND ⁹	ND	1.1
	03/09/00	24.05		31.18	--	3,250 ¹²	143	ND ⁹	59.0	326	ND ⁹	ND ⁹	ND ⁹
	09/11/00 ¹⁷	27.83		27.40	--	ND	ND	ND	ND	ND	ND	ND	1.17
	03/26/01 ¹⁷	25.75		29.48	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/04/01 ¹⁹	30.41		24.82	--	5,400 ¹⁵	110	<10	800	220	<100	<5.0	<5.0
	03/18/02 ²¹	27.35		27.88	--	<50	<0.50	<0.50	0.55	1.2	<5.0	<0.50 ¹⁸	<0.50 ¹⁸
	08/30/02 ^{19,23}	30.01		25.22	--	4,400	55	<2.5	610	140	<10	<0.50	<0.50
U-4													
55.39	03/14/95	26.52	25.0-40.0	28.87	--	490	3.2	2.1	0.79	1.2	--	ND	ND
	06/20/95	26.90		28.49	--	ND	ND	ND	ND	1.5	--	--	--
	09/18/95	29.79		25.60	--	ND	ND	ND	ND	ND	-- ⁶	--	--
	12/14/95	31.23		24.16	--	ND	ND	0.59	ND	0.79	-- ⁷	ND	ND
	03/06/96	25.30		30.09	--	ND	ND	ND	ND	0.62	50	--	--
	06/04/96	26.19		29.20	--	ND	ND	ND	ND	ND	290	--	--
	09/06/96	29.32		26.07	--	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	24.79		30.60	--	ND	ND	ND	ND	ND	ND	--	--
	09/04/97	30.71		24.68	--	ND	ND	ND	ND	ND	18	--	--
	03/09/98	19.37		36.02	--	ND	ND	ND	ND	ND	ND	--	--
	09/01/98	26.56		28.83	--	ND	ND	ND	ND	ND	ND	--	--
	03/02/99	25.62		29.77	--	110	0.89	0.53	ND	0.79	4.9	--	--
	09/07/99	26.82		28.57	--	ND	ND	ND	ND	ND	3.0	--	--
	03/09/00	24.07		31.32	--	ND	ND	0.615	ND	1.05	ND	--	--

Table 1
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WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (ft.)	TPH-D (pph)	TPH-G (pph)	B (pph)	T (pph)	E (pph)	X (pph)	MTRE (pph)	1,2-DCB (pph)	1,2-DCA (pph)
U-4	09/11/00	26.48	25.0-40.0	28.91	--	ND	ND	0.686	ND	ND	ND	--	--
(cont)	03/26/01	25.69		29.70	--	ND	ND	ND	ND	ND	ND	--	--
	09/04/01	30.60		24.79	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	03/18/02	27.45		27.94	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	08/30/02 ²³	30.19		25.20	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	--	--
U-5													
54.18	03/14/95	25.20	25.0-40.0	28.98	--	ND	ND	ND	ND	1.2	--	ND	ND
	06/20/95	25.60		28.58	--	ND	ND	ND	ND	1.6	--	--	--
	09/18/95	28.55		25.63	--	ND	ND	ND	ND	0.66	--	--	--
	12/14/95	29.94		24.24	--	ND	ND	ND	ND	ND	--	ND	ND
	03/06/96	24.03		30.15	--	ND	ND	ND	ND	ND	ND	--	--
	06/04/96	24.91		29.27	--	ND	ND	ND	ND	ND	ND	--	--
	09/06/96	28.06		26.12	--	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	23.49		30.69	--	ND	ND	ND	ND	ND	ND	--	--
	09/04/97	29.46		24.72	--	ND	ND	ND	ND	ND	ND	--	--
	03/09/98	18.10		36.08	--	ND	ND	ND	ND	ND	ND	--	--
	09/01/98	25.27		28.91	--	ND	ND	ND	ND	ND	ND	--	--
	03/02/99	24.35		29.83	--	ND	ND	ND	ND	ND	ND	--	--
	09/07/99	26.39		27.79	--	ND	ND	ND	ND	ND	ND	--	--
	03/09/00	22.81		31.37	--	ND	ND	ND	ND	ND	ND	--	--
	09/11/00	25.36		28.82	--	ND	ND	0.640	ND	ND	ND	--	--
	03/26/01	24.55		29.63	--	ND	ND	ND	ND	ND	ND	--	--
	09/04/01	29.34		24.84	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	03/18/02	26.16		28.02	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	08/30/02 ²³	28.94		25.24	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	--	--

Table 1
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U-6													
55.36	03/14/95	26.94	25.0-40.0	28.42	--	14,000	170	36	790	1,500	--	ND	210
	06/20/95	27.15		28.21	--	8,500	170	11	950	1,300	--	--	--
	09/18/95	29.95		25.41	--	9,500	260	ND	1,400	1,800	-- ⁶	--	--
	12/14/95	31.32		24.04	--	15,000	240	ND	1,400	1,700	-- ⁷	ND	370
	03/06/96	25.71		29.65	--	2,400	54	ND	170	250	ND	--	--
	06/04/96	26.52		28.84	--	4,600	83	ND	400	520	46	--	--
	09/06/96	29.41		25.95	--	12,000	180	6.4	690	600	95	--	--
	03/08/97	25.25		30.11	--	2,000	180	ND	96	290	ND	--	--
	09/04/97	30.75		24.61	--	680	17	ND	52	39	ND	--	--
	03/09/98	19.84		35.52	--	690	41	8.5	3.2	140	16	--	--
	09/01/98	INACCESSIBLE (PAVED OVER)			--	--	--	--	--	--	--	--	--
	03/02/99	25.95		29.41	--	3,900	240	ND ⁹	650	430	45	--	--
	09/07/99	28.19		27.17	--	320 ¹²	14	ND ⁹	5.2	ND ⁹	10	--	--
	03/09/00	24.64		30.72	--	4,980 ¹²	193	ND ⁹	520	365	ND ⁹	--	--
	09/11/00	28.35		27.01	--	538 ¹⁵	22.8	ND	13.8	3.11	ND	--	--
	10/13/00	29.67		25.69	--	--	--	--	--	--	--/ND ¹⁸	--	--
	03/26/01	26.88		28.48	--	16,400 ¹²	412	ND ⁹	2,010	1,010	ND ⁹	--	--
	09/04/01	30.81		24.55	--	8,000 ¹⁵	200	<25	1,100	250	<250	--	--
	03/18/02	27.87		27.49	--	3,900 ¹⁵	96	<10	590	210	<100	--	--
	08/30/02 ²³	30.40		24.96	--	7,900	120	<5.0	1,000	91	<20	--	--
U-7													
55.05	03/14/95	26.13	25.0-40.0	28.92	--	ND	ND	ND	ND	ND	--	ND	ND
	06/20/95	26.38		28.67	--	ND	ND	ND	ND	ND	--	--	--
	09/18/95	29.21		25.84	--	ND	ND	ND	ND	ND	--	--	--
	12/14/95	30.75		24.30	--	ND	ND	ND	ND	0.88	--	ND	ND
	03/06/96	25.10		29.95	--	ND	ND	ND	ND	ND	ND	--	--
	06/04/96	25.67		29.38	--	ND	ND	ND	ND	ND	ND	--	--
	09/06/96	28.75		26.30	--	ND	ND	ND	ND	ND	ND	--	--
	03/08/97	24.33		30.72	--	ND	ND	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (ft.)	TPH-D (pph)	TPH-G (pph)	B (pph)	T (pph)	E (pph)	X (pph)	MTBE (pph)	1,2-DCB (pph)	1,2-DCA (pph)
U-7	09/04/97 ⁸	30.16	25.0-40.0	24.89	--	ND	ND	ND	ND	ND	ND	ND	ND
(cont)	03/09/98	18.91		36.14	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/01/98 ¹⁰	26.04		29.01	--	88	ND	ND	ND	ND	2.9	ND	ND
	03/02/99 ¹¹	25.30		29.75	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/99	27.27		27.78	--	ND	ND	ND	ND	ND	ND	ND	ND
	03/09/00 ¹⁴	23.76		31.29	--	ND	ND	ND	ND	1.09	ND	ND	ND
	09/11/00 ¹⁷	27.19		27.86	--	ND	ND	ND	ND	ND	ND	ND	ND
	03/26/01 ¹⁷	25.61		29.44	--	ND	ND	ND	ND	ND	ND	ND	ND
	09/04/01 ²⁰	30.10		24.95	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50
	03/18/02 ²²	27.03		28.02	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50 ¹⁸	<0.50 ¹⁸
	08/30/02 ^{19,23}	29.69		25.36	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50
Trip Blank													
TB-LB	03/09/98	--	--	--	--	ND	ND	0.53	ND	ND	ND	--	--
	09/01/98	--		--	--	ND	ND	ND	ND	ND	5.0	--	--
	03/02/99	--		--	--	ND	ND	ND	ND	ND	ND	--	--
	09/07/99	--		--	--	ND	ND	ND	ND	ND	ND	--	--
	03/09/00	--		--	--	ND	ND	ND	ND	ND	ND	--	--
	09/11/00	--		--	--	ND	ND	ND	ND	ND	ND	--	--
	10/13/00	--		--	--	ND	ND	ND	ND	ND	ND	--	--
	03/26/01	--		--	--	ND	ND	ND	ND	ND	ND	--	--
	09/04/01	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	03/18/02	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
QA	08/30/02 ²³	--		--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 9, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	TPH-G = Total Petroleum Hydrocarbons as Gasoline	1,2-DCA = 1,2-Dichloroethane
DTW = Depth to Water	B = Benzene	(ppb) = Parts per billion
(ft.) = Feet	T = Toluene	ND = Not Detected
S.I. = Screen Interval	E = Ethylbenzene	-- = Not Measured/Not Analyzed
(ft.bgs) = Feet Below Ground Surface	X = Xylenes	(D) = Duplicate
GWE = Groundwater Elevation	MTBE = Methyl tertiary butyl ether	QA = Quality Assurance
TPH-D = Total Petroleum Hydrocarbons as Diesel	1,2-DCB = 1,2-Dichlorobenzene	

* TOC elevations were surveyed March 1995, based on Benchmark provided by City of San Leandro, City Engineers Office, Datum 1929, USGS adjusted. Prior to December 16, 1993, the DTW measurements were taken from the top of well covers.

- 1 Total Oil and Grease (TOG) was ND.
- 2 Not a typical diesel pattern; lower boiling hydrocarbons in the boiling range of stoddard calculated as diesel.
- 3 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 4 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 5 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 6 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- 7 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 8 Carbon tetrachloride was detected at a concentration of 1.3 ppb.
- 9 Detection limit raised. Refer to analytical reports.
- 10 Carbon tetrachloride was detected at a concentration of 2.0 ppb, and Chloroform was detected at a concentration of 0.60 ppb.
- 11 Carbon tetrachloride was detected at a concentration of 1.2 ppb.
- 12 Laboratory report indicates gasoline C6-C12.
- 13 Bromodichloromethane was detected at 1.4 ppb and Chloroform was detected at 31 ppb. All EPA Method 8010 reanalyzed by an alternate column or method to confirm the identification and/or concentration of these results.
- 14 Laboratory report indicates Carbon tetrachloride was detected at 0.801 ppb.
- 15 Laboratory report indicates weathered gasoline C6-C12.
- 16 All other Volatile Organic Compounds (VOCs) by EPA Method 8010 were ND with a raised detection limit, except for Bromadichloromethane was detected at 3.58 ppb and Chloroform was detected at 75.2 ppb.
- 17 All other VOCs by EPA Method 8010 were ND.
- 18 Analysis by EPA Method 8260.
- 19 All other VOCs by EPA Method 8021 were less than the reporting limit.
- 20 All other VOCs by EPA Method 8021 were less than the reporting limit, except for Carbon tetrachloride was detected at 0.60 ppb.
- 21 All other VOCs by EPA Method 8260 were less than the reporting limit.

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5430
1935 Washington Avenue
San Leandro, California

EXPLANATIONS: (cont)

- ²² All other VOCs by EPA Method 8260 were less than the reporting limit, except for Carbon Tetrachloride was detected at 0.65 ppb and Chloroform at 1.5 ppb.
- ²³ TPH-G, BTEX and MTBE by EPA Method 8260.

Note: All EPA Method 8010/8021/8260 constituents were ND, except as indicated above.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #5430
 1935 Washington Avenue
 San Leandro, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
U-1	08/30/02	--	--	<2.0	--	--	--	--	--
U-2	08/30/02	<500	<100	3.2	<2.0	<2.0	<2.0	<2.0	<2.0
U-3	08/30/02	--	--	<10	--	--	--	--	--
U-4	08/30/02	--	--	<2.0	--	--	--	--	--
U-5	08/30/02	--	--	<2.0	--	--	--	--	--
U-6	10/13/00	--	ND	ND	ND	ND	ND	ND	ND
	08/30/02	--	--	<20	--	--	--	--	--
U-7	08/30/02	--	--	<2.0	--	--	--	--	--

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Tosco (Unocal) Service Station #5430
1935 Washington Avenue
San Leandro, 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

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 #5430 Job Number: 180107
 Site Address: 1935 Washington Avenue Event Date: 8/30/02
 City: San Leandro, CA Sampler: VF

Well ID: U-1 Well Condition: ON
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 39.65 ft. Thickness: 0.00 ft. (product/water): 0 gal.
 Depth to Water: 31.25 ft.

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

8.40 xVF 0.17 = 1.42 x3 (case volume) = Estimated Purge Volume: 4.5 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): 1110 Weather Conditions: clear
 Sample Time/Date: 1125 8/30/02 Water Color: brn. Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: SILT
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/D)	D.O. (mg/L)	ORP (mV)
<u>1112</u>	<u>1.5</u>	<u>7.61</u>	<u>853</u>	<u>70.4</u>		
<u>1114</u>	<u>3</u>	<u>7.48</u>	<u>861</u>	<u>70.1</u>		
<u>1115</u>	<u>4.5</u>	<u>7.49</u>	<u>870</u>	<u>69.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G, BTEX, MTBE(8260)</u>
	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>HOVC's (8010 list by 8021B)</u>

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5430 Job Number: 180107
 Site Address: 1935 Washington Avenue Event Date: 8/30/02
 City: San Leandro, CA Sampler: VT

Well ID: U-2 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 39.35 ft. Thickness: 0.00 ft. (product/water): 0 gal.
 Depth to Water: 30.06 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.60

9.29 x VF 0.17 = 1.57 x3 (case volume) = Estimated Purge Volume: 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): 0957 Weather Conditions: overcast
 Sample Time/Date: 1015 8/30/02 Water Color: b.c. Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: slit (little)
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/E)	D.O. (mg/L)	ORP (mV)
<u>0959</u>	<u>1.5</u>	<u>7.73</u>	<u>608</u>	<u>69.3</u>	_____	_____
<u>1001</u>	<u>3</u>	<u>7.57</u>	<u>612</u>	<u>68.7</u>	_____	_____
<u>1003</u>	<u>5</u>	<u>7.54</u>	<u>619</u>	<u>68.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G, BTEX, MTBE(8260)</u>
	x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>HOVC's (8010 list by 8021B)</u>

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5430 Job Number: 180107
 Site Address: 1935 Washington Avenue Event Date: 8/30/02
 City: San Leandro, CA Sampler: VS

Well ID: U-3 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 38.55 ft. Thickness: 0.00 ft. (product/water): 0 gal.
 Depth to Water: 30.01 ft.

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

8.54 x VF 0.17 = 1.45 x3 (case volume) = Estimated Purge Volume: 4.3 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): 1140 Weather Conditions: clear
 Sample Time/Date: 1155 8/30/02 Water Color: brn. Odor: faint
 Purging Flow Rate: 1 gpm. Sediment Description: slit
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C)	D.O. (mg/L)	ORP (mV)
<u>1142</u>	<u>1.5</u>	<u>7.57</u>	<u>887</u>	<u>71.0</u>	_____	_____
<u>1144</u>	<u>3</u>	<u>7.41</u>	<u>898</u>	<u>70.3</u>	_____	_____
<u>1146</u>	<u>4.5</u>	<u>7.39</u>	<u>907</u>	<u>70.0</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-3</u>	<u>3</u> x voe vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G, BTEX, MTBE(8260)</u>
	<u>3</u> x voe vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>HOVC's (8010 list by 8021B)</u>

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5430 Job Number: 180107
 Site Address: 1935 Washington Avenue Event Date: 8/30/02
 City: San Leandro, CA Sampler: VT

Well ID: U-4 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 38.90 ft. Thickness: 0.00 ft. (product/water): 0 gal.
 Depth to Water: 30.19 ft.

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

8.71 xVF 0.17 = 1.48 x3 (case volume) = Estimated Purge Volume: 4.5 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): 0915 Weather Conditions: overcast
 Sample Time/Date: 0940 8/30/02 Water Color: brn. Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: silt
 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)
<u>0917</u>	<u>1.5</u>	<u>7.60</u>	<u>667</u>	<u>68.9</u>	_____	_____
<u>0919</u>	<u>3</u>	<u>7.47</u>	<u>674</u>	<u>68.6</u>	_____	_____
<u>0921</u>	<u>4.5</u>	<u>7.44</u>	<u>681</u>	<u>68.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-4</u>	<u>3</u> x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE(8260)
	x voa vial	YES	HCL	STL Pleasanton	HOVC's (8010 list by 8021B)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5430 Job Number: 180107
 Site Address: 1935 Washington Avenue Event Date: 8/30/02
 City: San Leandro, CA Sampler: VT

Well ID: U-5 Well Condition: ON
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 38.35 ft. Thickness: 0.00 ft. (product/water): 0 gal.
 Depth to Water: 28.94 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

9.41 x VF 0.17 = 1.59 x3 (case volume) = Estimated Purge Volume: 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): 0840 Weather Conditions: overcast
 Sample Time/Date: 0855 8/30/02 Water Color: some brn. Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: silt
 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)
<u>0842</u>	<u>1.5</u>	<u>7.64</u>	<u>647</u>	<u>66.8</u>		
<u>0844</u>	<u>3</u>	<u>7.50</u>	<u>640</u>	<u>67.3</u>		
<u>0846</u>	<u>5</u>	<u>7.47</u>	<u>636</u>	<u>67.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-5</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G, BTEX, MTBE(8260)</u>
	x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>HOVC's (8010 list by 8021B)</u>

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5430 Job Number: 180107
 Site Address: 1935 Washington Avenue Event Date: 8/30/02
 City: San Leandro, CA Sampler: UT

Well ID: U-6 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 40.00 ft. Thickness: 0.00 ft. (product/water): 0 gal.
 Depth to Water: 30.40 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.36
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

9.60 xVF 0.17 = 1.63 x3 (case volume) = Estimated Purge Volume: 5 gal.

Purge Equipment: Disposable Bailer _____ Sampling Equipment: Disposable Bailer
 Stainless Steel Bailer _____ Pressure Bailer _____
 Stack Pump Discrete Bailer _____
 Suction Pump _____ Other: _____
 Grundfos _____
 Other: _____

Start Time (purge): 1213 Weather Conditions: clear
 Sample Time/Date: 1230/8/30/02 Water Color: grayish Odor: metal
 Purging Flow Rate: 1 gpm. Sediment Description: silt
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (CE)	D.O. (mg/L)	ORP (mV)
<u>1215</u>	<u>1.5</u>	<u>7.45</u>	<u>1068</u>	<u>71.3</u>		
<u>1217</u>	<u>3</u>	<u>7.33</u>	<u>1076</u>	<u>70.7</u>		
<u>1219</u>	<u>5</u>	<u>7.30</u>	<u>1082</u>	<u>70.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-6</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G, BTEX, MTBE(8260)</u>
	<u>x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>HOVC's (8010 list by 8021B)</u>

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5430 Job Number: 180107
 Site Address: 1935 Washington Avenue Event Date: 8/30/02
 City: San Leandro, CA Sampler: UT

Well ID: U-7 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Amount Bailed
 Total Depth: 37.75 ft. Thickness: 0.00 ft. (product/water): 0 gal.
 Depth to Water: 29.69 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

8.06 x VF 0.17 = 1.37 x3 (case volume) = Estimated Purge Volume: 4.5 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): 1035 Weather Conditions: pkly cloudy
 Sample Time/Date: 1050 18/30/02 Water Color: brn. Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: slt
 Did well de-water? If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1037</u>	<u>1.5</u>	<u>7.66</u>	<u>617</u>	<u>70.2</u>		
<u>1039</u>	<u>3</u>	<u>7.57</u>	<u>629</u>	<u>69.7</u>		
<u>1040</u>	<u>4.5</u>	<u>7.78</u>	<u>641</u>	<u>69.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-7</u>	<u>3</u> x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE(8260)
	<u>3</u> x voa vial	YES	HCL	STL Pleasanton	HOVC's (8010 list by 8021B)

COMMENTS: _____

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

2002-09-0012

Gettler-Ryan Inc., Chain-of-Custody

68509

Sep 17 02 10:13P

st1Onsite

9256003002

P-2

Tosco Corp./
Phillips 66 Co.
2000 Crow Canyon Place
Suite 400
San Ramon, CA 94583

Facility Number #5430
 Facility Address 1935 WASHINGTON AVE., SAN LEANDRO, CA
 Global ID T0600101765 Project 180107.80
 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 Vartkes Tashjian

SAMPLE ID	Number of Containers Matrix	S = Soil W = Water A = Air 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	HMOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SMOC'S EPA 8270	Remarks
DA	1	W	HU	8/30/02					X									Run 8 Oxy's by 8260 on highest 8260 MTBE hit.
U-1	6	u	u	u 1125					X						X			
U-2	3	u	u	u 1015					X									
U-3	6	u	u	u 1155					X						X			
U-4	3	u	u	u 0940					X									
U-5	3	u	u	u 0855					X									
U-6	3	u	u	u 1230					X									
U-7	6	u	u	u 1050					X						X			

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

Received By (Signature) <i>[Signature]</i>	Organization <i>G-R</i>	Date/Time <i>8/30/02</i>	Received By (Signature)	Organization	Date/Time	iced <input checked="" type="checkbox"/> Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days <u>10 Days</u> As Contracted
Received By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	iced Y/N	
Received By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time <i>8-3-02</i>	iced Y/N <i>1225</i>	

Submission#: 2002-09-0012

September 17, 2002

SEVERN

TRENT

LABORATORY

Gettler Ryan

6747 Sierra Court Suite J

Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180107.80

Project: Tosco # 5430

Site: 1935 Washington Ave.
San Leandro, CA

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

Dear Ms. Harding,

Attached is our report for your samples received on 09/03/2002 12:25

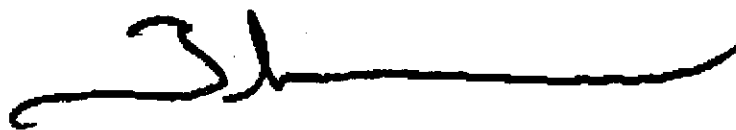
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/18/2002 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 #: 2002-09-0012

Halogenated Volatile Organic Compounds by 8021

Gettler Ryan

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

Project: 180107.80
Tosco # 5430

Received: 09/03/2002 12:25

Site: 1935 Washington Ave.
San Leandro, CA

SEVERN

TRENT

LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
U-1	08/30/2002 11:25	Water	2
U-3	08/30/2002 11:55	Water	4
U-7	08/30/2002 10:50	Water	8

Halogenated Volatile Organic Compounds by 8021

Gettler Ryan

Attn.: Deanna Harding
6747 Sierra Court Suite J
Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180107.80
Tosco # 5430

Received: 09/03/2002 12:25

Site: 1935 Washington Ave.
San Leandro, CASTL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8021B
 Sample ID: U-1 Lab ID: 2002-09-0012 - 2
 Sampled: 08/30/2002 11:25 Extracted: 9/5/2002 16:26
 Matrix: Water QC Batch#: 2002/09/05-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	09/05/2002 16:26	
Vinyl chloride	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Chloroethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Methylene chloride	ND	5.0	ug/L	1.00	09/05/2002 16:26	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Chloroform	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,2-Dichloroethane	1.2	0.50	ug/L	1.00	09/05/2002 16:26	
Trichloroethene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	09/05/2002 16:26	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Tetrachloroethene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Chlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Bromoform	ND	2.0	ug/L	1.00	09/05/2002 16:26	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/05/2002 16:26	
Chloromethane	ND	1.0	ug/L	1.00	09/05/2002 16:26	
Bromomethane	ND	1.0	ug/L	1.00	09/05/2002 16:26	
Surrogates(s)						
1-Chloro-2-fluorobenzene	108.4	70-130	%	1.00	09/05/2002 16:26	

Halogenated Volatile Organic Compounds by 8021

Gettler Ryan

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

Project: 180107.80
Tosco # 5430

Received: 09/03/2002 12:25

Site: 1935 Washington Ave.
San Leandro, CA

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8021B
Sample ID: U-3 Lab ID: 2002-09-0012 - 4
Sampled: 08/30/2002 11:55 Extracted: 9/5/2002 17:21
Matrix: Water QC Batch#: 2002/09/05-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	09/05/2002 17:21	
Vinyl chloride	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Chloroethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Methylene chloride	ND	5.0	ug/L	1.00	09/05/2002 17:21	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Chloroform	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Trichloroethene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	09/05/2002 17:21	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Tetrachloroethene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Chlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Bromoform	ND	2.0	ug/L	1.00	09/05/2002 17:21	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/05/2002 17:21	
Chloromethane	ND	1.0	ug/L	1.00	09/05/2002 17:21	
Bromomethane	ND	1.0	ug/L	1.00	09/05/2002 17:21	
Surrogates(s)						
1-Chloro-2-fluorobenzene	113.2	70-130	%	1.00	09/05/2002 17:21	

Halogenated Volatile Organic Compounds by 8021

Gettler Ryan

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

Project: 180107.80
Tosco # 5430

Received: 09/03/2002 12:25

Site: 1935 Washington Ave.
San Leandro, CA

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8021B
Sample ID: U-7 Lab ID: 2002-09-0012 - 8
Sampled: 08/30/2002 10:50 Extracted: 9/5/2002 18:16
Matrix: Water QC Batch#: 2002/09/05-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	09/05/2002 18:16	
Vinyl chloride	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Chloroethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Methylene chloride	ND	5.0	ug/L	1.00	09/05/2002 18:16	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Chloroform	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Trichloroethene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	09/05/2002 18:16	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Tetrachloroethene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Chlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Bromoform	ND	2.0	ug/L	1.00	09/05/2002 18:16	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/05/2002 18:16	
Chloromethane	ND	1.0	ug/L	1.00	09/05/2002 18:16	
Bromomethane	ND	1.0	ug/L	1.00	09/05/2002 18:16	
Surrogates(s)						
1-Chloro-2-fluorobenzene	108.0	70-130	%	1.00	09/05/2002 18:16	

Halogenated Volatile Organic Compounds by 8021

Gettler Ryan

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

Project: 180107.80
Tosco # 5430

Received: 09/03/2002 12:25

Site: 1935 Washington Ave.
San Leandro, CA

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Pleasanton, CA 94566

Tel: (925) 484-1919
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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Method Blank

Water

QC Batch # 2002/09/05-01.25

MB: 2002/09/05-01.25-004

Date Extracted: 09/05/2002 10:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	09/05/2002 10:09	
Vinyl chloride	ND	0.5	ug/L	09/05/2002 10:09	
Chloroethane	ND	0.5	ug/L	09/05/2002 10:09	
Trichlorofluoromethane	ND	0.5	ug/L	09/05/2002 10:09	
1,1-Dichloroethene	ND	0.5	ug/L	09/05/2002 10:09	
Methylene chloride	ND	5.0	ug/L	09/05/2002 10:09	
trans-1,2-Dichloroethene	ND	0.5	ug/L	09/05/2002 10:09	
cis-1,2-Dichloroethene	ND	0.5	ug/L	09/05/2002 10:09	
1,1-Dichloroethane	ND	0.5	ug/L	09/05/2002 10:09	
Chloroform	ND	0.5	ug/L	09/05/2002 10:09	
1,1,1-Trichloroethane	ND	0.5	ug/L	09/05/2002 10:09	
Carbon tetrachloride	ND	0.5	ug/L	09/05/2002 10:09	
1,2-Dichloroethane	ND	0.5	ug/L	09/05/2002 10:09	
Trichloroethene	ND	0.5	ug/L	09/05/2002 10:09	
1,2-Dichloropropane	ND	0.5	ug/L	09/05/2002 10:09	
Bromodichloromethane	ND	0.5	ug/L	09/05/2002 10:09	
2-Chloroethylvinyl ether	ND	0.5	ug/L	09/05/2002 10:09	
trans-1,3-Dichloropropene	ND	0.5	ug/L	09/05/2002 10:09	
cis-1,3-Dichloropropene	ND	0.5	ug/L	09/05/2002 10:09	
1,1,2-Trichloroethane	ND	0.5	ug/L	09/05/2002 10:09	
Tetrachloroethene	ND	0.5	ug/L	09/05/2002 10:09	
Dibromochloromethane	ND	0.5	ug/L	09/05/2002 10:09	
Chlorobenzene	ND	0.5	ug/L	09/05/2002 10:09	
Bromoform	ND	2.0	ug/L	09/05/2002 10:09	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	09/05/2002 10:09	
1,3-Dichlorobenzene	ND	0.5	ug/L	09/05/2002 10:09	
1,4-Dichlorobenzene	ND	0.5	ug/L	09/05/2002 10:09	
1,2-Dichlorobenzene	ND	0.5	ug/L	09/05/2002 10:09	
Trichlorotrifluoroethane	ND	0.5	ug/L	09/05/2002 10:09	
Chloromethane	ND	1.0	ug/L	09/05/2002 10:09	
Bromomethane	ND	1.0	ug/L	09/05/2002 10:09	
Surrogates(s)					
1-Chloro-2-fluorobenzene	97.8	70-130	%	09/05/2002 10:09	

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2002/09/05-01.25

LCS 2002/09/05-01.25-005

Extracted: 09/05/2002

Analyzed: 09/05/2002 11:12

LCSD 2002/09/05-01.25-003

Extracted: 09/05/2002

Analyzed: 09/05/2002 09:16

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
1,1-Dichloroethene	18.0	17.4	20.0	90.0	87.0	3.4	70-130	20		
Trichloroethene	20.5	19.5	20.0	102.5	97.5	5.0	70-130	20		
Chlorobenzene	20.1	19.8	20.0	100.5	99.0	1.5	70-130	20		
Surrogates(s)										
1-Chloro-2-fluorobenzene	21.5	21.4	20	107.5	107.0		70-130			

Submission #: 2002-09-0012

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	08/30/2002	Water	1
U-1	08/30/2002 11:25	Water	2
U-2	08/30/2002 10:15	Water	3
U-3	08/30/2002 11:55	Water	4
U-4	08/30/2002 09:40	Water	5
U-5	08/30/2002 08:55	Water	6
U-6	08/30/2002 12:30	Water	7
U-7	08/30/2002 10:50	Water	8

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CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: QA Lab ID: 2002-09-0012 - 1
 Sampled: 08/30/2002 Extracted: 9/12/2002 21:54
 Matrix: Water QC Batch#: 2002/09/12-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/12/2002 21:54	
Benzene	ND	0.50	ug/L	1.00	09/12/2002 21:54	
Toluene	ND	0.50	ug/L	1.00	09/12/2002 21:54	
Ethylbenzene	ND	0.50	ug/L	1.00	09/12/2002 21:54	
Total xylenes	ND	1.0	ug/L	1.00	09/12/2002 21:54	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	09/12/2002 21:54	
Surrogates(s)						
1,2-Dichloroethane-d4	83.2	76-114	%	1.00	09/12/2002 21:54	
Toluene-d8	97.2	88-110	%	1.00	09/12/2002 21:54	

Submission #: 2002-09-0012

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-1	Lab ID:	2002-09-0012 - 2
Sampled:	08/30/2002 11:25	Extracted:	9/12/2002 21:32
Matrix:	Water	QC Batch#:	2002/09/12-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/12/2002 21:32	
Benzene	ND	0.50	ug/L	1.00	09/12/2002 21:32	
Toluene	ND	0.50	ug/L	1.00	09/12/2002 21:32	
Ethylbenzene	ND	0.50	ug/L	1.00	09/12/2002 21:32	
Total xylenes	ND	1.0	ug/L	1.00	09/12/2002 21:32	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	09/12/2002 21:32	
Surrogates(s)						
1,2-Dichloroethane-d4	86.1	76-114	%	1.00	09/12/2002 21:32	
Toluene-d8	96.4	88-110	%	1.00	09/12/2002 21:32	

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: U-2 Lab ID: 2002-09-0012 - 3
 Sampled: 08/30/2002 10:15 Extracted: 9/13/2002 13:23
 Matrix: Water QC Batch#: 2002/09/13-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/13/2002 13:23	
Benzene	ND	0.50	ug/L	1.00	09/13/2002 13:23	
Toluene	ND	0.50	ug/L	1.00	09/13/2002 13:23	
Ethylbenzene	ND	0.50	ug/L	1.00	09/13/2002 13:23	
Total xylenes	ND	1.0	ug/L	1.00	09/13/2002 13:23	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	09/13/2002 13:23	
Methyl tert-butyl ether (MTBE)	3.2	2.0	ug/L	1.00	09/13/2002 13:23	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	09/13/2002 13:23	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	09/13/2002 13:23	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	09/13/2002 13:23	
1,2-DCA	ND	2.0	ug/L	1.00	09/13/2002 13:23	
EDB	ND	2.0	ug/L	1.00	09/13/2002 13:23	
Ethanol	ND	500	ug/L	1.00	09/13/2002 13:23	
Surrogates(s)						
1,2-Dichloroethane-d4	79.7	76-114	%	1.00	09/13/2002 13:23	
Toluene-d8	98.0	88-110	%	1.00	09/13/2002 13:23	

Submission #: 2002-09-0012

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8260FAB
Sample ID: U-3 Lab ID: 2002-09-0012 - 4
Sampled: 08/30/2002 11:55 Extracted: 9/13/2002 11:56
Matrix: Water QC Batch#: 2002/09/13-03.62
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4400	250	ug/L	5.00	09/13/2002 11:56	
Benzene	55	2.5	ug/L	5.00	09/13/2002 11:56	
Toluene	ND	2.5	ug/L	5.00	09/13/2002 11:56	
Ethylbenzene	610	2.5	ug/L	5.00	09/13/2002 11:56	
Total xylenes	140	5.0	ug/L	5.00	09/13/2002 11:56	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	5.00	09/13/2002 11:56	
Surrogates(s)						
1,2-Dichloroethane-d4	81.0	76-114	%	5.00	09/13/2002 11:56	
Toluene-d8	96.3	88-110	%	5.00	09/13/2002 11:56	

Submission #: 2002-09-0012

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: U-4	Lab ID: 2002-09-0012 - 5
Sampled: 08/30/2002 09:40	Extracted: 9/13/2002 12:18
Matrix: Water	QC Batch#: 2002/09/13-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/13/2002 12:18	
Benzene	ND	0.50	ug/L	1.00	09/13/2002 12:18	
Toluene	ND	0.50	ug/L	1.00	09/13/2002 12:18	
Ethylbenzene	ND	0.50	ug/L	1.00	09/13/2002 12:18	
Total xylenes	ND	1.0	ug/L	1.00	09/13/2002 12:18	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	09/13/2002 12:18	
Surrogates(s)						
1,2-Dichloroethane-d4	81.5	76-114	%	1.00	09/13/2002 12:18	
Toluene-d8	98.9	88-110	%	1.00	09/13/2002 12:18	

Submission #: 2002-09-0012

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-5	Lab ID:	2002-09-0012 - 6
Sampled:	08/30/2002 08:55	Extracted:	9/13/2002 12:40
Matrix:	Water	QC Batch#:	2002/09/13-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/13/2002 12:40	
Benzene	ND	0.50	ug/L	1.00	09/13/2002 12:40	
Toluene	ND	0.50	ug/L	1.00	09/13/2002 12:40	
Ethylbenzene	ND	0.50	ug/L	1.00	09/13/2002 12:40	
Total xylenes	ND	1.0	ug/L	1.00	09/13/2002 12:40	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	09/13/2002 12:40	
Surrogates(s)						
1,2-Dichloroethane-d4	79.1	76-114	%	1.00	09/13/2002 12:40	
Toluene-d8	96.6	88-110	%	1.00	09/13/2002 12:40	

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: U-6 Lab ID: 2002-09-0012 - 7
 Sampled: 08/30/2002 12:30 Extracted: 9/13/2002 13:01
 Matrix: Water QC Batch#: 2002/09/13-03.62
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	7900	500	ug/L	10.00	09/13/2002 13:01	
Benzene	120	5.0	ug/L	10.00	09/13/2002 13:01	
Toluene	ND	5.0	ug/L	10.00	09/13/2002 13:01	
Ethylbenzene	1000	5.0	ug/L	10.00	09/13/2002 13:01	
Total xylenes	91	10	ug/L	10.00	09/13/2002 13:01	
Methyl tert-butyl ether (MTBE)	ND	20	ug/L	10.00	09/13/2002 13:01	
Surrogates(s)						
1,2-Dichloroethane-d4	82.8	76-114	%	10.00	09/13/2002 13:01	
Toluene-d8	95.0	88-110	%	10.00	09/13/2002 13:01	

Submission #: 2002-09-0012

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-7	Lab ID:	2002-09-0012 - 8
Sampled:	08/30/2002 10:50	Extracted:	9/12/2002 19:21
Matrix:	Water	QC Batch#:	2002/09/12-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/12/2002 19:21	
Benzene	ND	0.50	ug/L	1.00	09/12/2002 19:21	
Toluene	ND	0.50	ug/L	1.00	09/12/2002 19:21	
Ethylbenzene	ND	0.50	ug/L	1.00	09/12/2002 19:21	
Total xylenes	ND	1.0	ug/L	1.00	09/12/2002 19:21	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	09/12/2002 19:21	
Surrogates(s)						
1,2-Dichloroethane-d4	85.4	76-114	%	1.00	09/12/2002 19:21	
Toluene-d8	99.0	88-110	%	1.00	09/12/2002 19:21	

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2002/09/12-02.62

MB: 2002/09/12-02.62-010

Date Extracted: 09/12/2002 13:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/12/2002 13:10	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/12/2002 13:10	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/12/2002 13:10	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/12/2002 13:10	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/12/2002 13:10	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/12/2002 13:10	
1,2-DCA	ND	0.5	ug/L	09/12/2002 13:10	
EDB	ND	0.5	ug/L	09/12/2002 13:10	
Benzene	ND	0.5	ug/L	09/12/2002 13:10	
Toluene	ND	0.5	ug/L	09/12/2002 13:10	
Ethylbenzene	ND	0.5	ug/L	09/12/2002 13:10	
Total xylenes	ND	1.0	ug/L	09/12/2002 13:10	
Ethanol	ND	25	ug/L	09/12/2002 13:10	
Surrogates(s)					
1,2-Dichloroethane-d4	79.9	76-114	%	09/12/2002 13:10	
Toluene-d8	96.7	88-110	%	09/12/2002 13:10	

Submission #: 2002-09-0012

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/09/12-02.62-049

Water

Test(s): 8260FAB

QC Batch # 2002/09/12-02.62

Date Extracted: 09/12/2002 13:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/12/2002 13:10	
Benzene	ND	0.5	ug/L	09/12/2002 13:10	
Toluene	ND	0.5	ug/L	09/12/2002 13:10	
Ethylbenzene	ND	0.5	ug/L	09/12/2002 13:10	
Total xylenes	ND	1.0	ug/L	09/12/2002 13:10	
tert-Butyl alcohol (TBA)	ND	100	ug/L	09/12/2002 13:10	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	09/12/2002 13:10	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/12/2002 13:10	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/12/2002 13:10	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/12/2002 13:10	
1,2-DCA	ND	2.0	ug/L	09/12/2002 13:10	
EDB	ND	2.0	ug/L	09/12/2002 13:10	
Ethanol	ND	500	ug/L	09/12/2002 13:10	
Surrogates(s)					
1,2-Dichloroethane-d4	79.8	76-114	%	09/12/2002 13:10	
Toluene-d8	96.8	88-110	%	09/12/2002 13:10	

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/09/13-03.62-047

Water

Test(s): 8260B

QC Batch # 2002/09/13-03.62

Date Extracted: 09/13/2002 10:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/13/2002 10:47	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/13/2002 10:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/13/2002 10:47	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/13/2002 10:47	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/13/2002 10:47	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/13/2002 10:47	
1,2-DCA	ND	0.5	ug/L	09/13/2002 10:47	
EDB	ND	0.5	ug/L	09/13/2002 10:47	
Benzene	ND	0.5	ug/L	09/13/2002 10:47	
Toluene	ND	0.5	ug/L	09/13/2002 10:47	
Ethylbenzene	ND	0.5	ug/L	09/13/2002 10:47	
Total xylenes	ND	1.0	ug/L	09/13/2002 10:47	
Ethanol	ND	25	ug/L	09/13/2002 10:47	
Surrogates(s)					
1,2-Dichloroethane-d4	77.6	76-114	%	09/13/2002 10:47	
Toluene-d8	99.0	88-110	%	09/13/2002 10:47	

Gas/BTEX Fuel Oxygenates by 8260B

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Received: 09/03/2002 12:25

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San Leandro, CA

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/09/13-03.62-048

Water

Test(s): 8260FAB

QC Batch # 2002/09/13-03.62

Date Extracted: 09/13/2002 10:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/13/2002 10:47	
Benzene	ND	0.5	ug/L	09/13/2002 10:47	
Toluene	ND	0.5	ug/L	09/13/2002 10:47	
Ethylbenzene	ND	0.5	ug/L	09/13/2002 10:47	
Total xylenes	ND	1.0	ug/L	09/13/2002 10:47	
tert-Butyl alcohol (TBA)	ND	100	ug/L	09/13/2002 10:47	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	09/13/2002 10:47	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/13/2002 10:47	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/13/2002 10:47	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/13/2002 10:47	
1,2-DCA	ND	2.0	ug/L	09/13/2002 10:47	
EDB	ND	2.0	ug/L	09/13/2002 10:47	
Ethanol	ND	500	ug/L	09/13/2002 10:47	
Surrogates(s)					
1,2-Dichloroethane-d4	77.6	76-114	%	09/13/2002 10:47	
Toluene-d8	99.0	88-110	%	09/13/2002 10:47	

Gas/BTEX Fuel 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: 180107.80
 Tosco # 5430

Received: 09/03/2002 12:25

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/09/13-03.62-049

Water

Test(s): 8260B

QC Batch # 2002/09/13-03.62

Date Extracted: 09/13/2002 10:47

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/13/2002 10:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/13/2002 10:47	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/13/2002 10:47	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/13/2002 10:47	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/13/2002 10:47	
Surrogates(s)					
1,2-Dichloroethane-d4	77.6	76-114	%	09/13/2002 10:47	

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2002/09/12-02.62

LCS 2002/09/12-02.62-026

Extracted: 09/12/2002

Analyzed: 09/12/2002 12:26

LCSD 2002/09/12-02.62-048

Extracted: 09/12/2002

Analyzed: 09/12/2002 12:48

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.6	22.4	25.0	90.4	89.6	0.9	65-165	20		
Benzene	23.2	23.3	25.0	92.8	93.2	0.4	69-129	20		
Toluene	25.6	25.3	25.0	102.4	101.2	1.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	436	459	500	87.2	91.8		76-114			
Toluene-d8	494	498	500	98.8	99.6		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180107.80
 Tosco # 5430

Received: 09/03/2002 12:25

Site: 1935 Washington Ave.
 San Leandro, CA

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LABORATORY

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2002/09/13-03.62

LCS 2002/09/13-03.62-004
 LCSD 2002/09/13-03.62-025

Extracted: 09/13/2002
 Extracted: 09/13/2002

Analyzed: 09/13/2002 10:04
 Analyzed: 09/13/2002 10:25

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.3	22.6	25.0	89.2	90.4	1.3	65-165	20		
Benzene	22.8	22.7	25.0	91.2	90.8	0.4	69-129	20		
Toluene	26.5	25.2	25.0	106.0	100.8	5.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	431	446	500	86.2	89.2		76-114			
Toluene-d8	490	484	500	98.0	96.8		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Matrix Spike (MS / MSD)

Water

QC Batch # 2002/09/12-02.62

U-7 >> MS

Lab ID: 2002-09-0012 - 008

MS: 2002/09/12-02.62-038

Extracted: 09/12/2002

Analyzed: 09/12/2002 18:38

Dilution: 1.00

MSD: 2002/09/12-02.62-034

Extracted: 09/12/2002

Analyzed: 09/12/2002 19:00

Dilution: 1.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	23.7	24.3	ND	25.0	94.8	97.2	2.5	69-129	20		
Toluene	26.2	25.6	ND	25.0	104.8	102.4	2.3	70-130	20		
Methyl tert-butyl ether	22.5	22.2	ND	25.0	90.0	88.8	1.3	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	436	454		500	87.2	90.8		76-114			
Toluene-d8	491	494		500	98.2	98.8		88-110			

Submission #: 2002-09-0012

Gas/BTEX Fuel Oxygenates by 8260B

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Dublin, CA 94568

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Project: 180107.80
Tosco # 5430

Received: 09/03/2002 12:25

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San Leandro, CA

SEVERN

TRENT

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CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

o

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