

PO-344



# GETTLER - RYAN INC.

**TRANSMITTAL** Alameda County

November 11, 2002

DEC 04 2002

G-R #180109

PO-344  
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### Environmental Health

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: [Handwritten initials]  
12/16/02  
[Handwritten initials]

RE: **Tosco (Unocal) Service Station  
#5760  
376 Lewelling Boulevard  
San Lorenzo, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 25, 2002	Groundwater Monitoring and Sampling Report Second Semi-Annual - Event of September 18, 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 26, 2002**, this report will be distributed to the following:

cc: Mr. Amir K. Gholami, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94501

Enclosure

trans/5760-dbd



# GETTLER-RYAN INC.

October 25, 2002

G-R Job #180109

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

**RE: Second Semi-Annual Event of September 18, 2002**  
Groundwater Monitoring & Sampling Report  
Tosco (Unocal) Service Station #5760  
376 Lewelling Boulevard  
San Lorenzo, 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. Dissolved Oxygen Concentrations are summarized in Table 3. 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,

*Deanna L. Harding*  
FOR -

Deanna L. Harding  
Project Coordinator

*Stephen J. Carter*  
Stephen J. Carter  
Senior Geologist, R.G. No. 5577

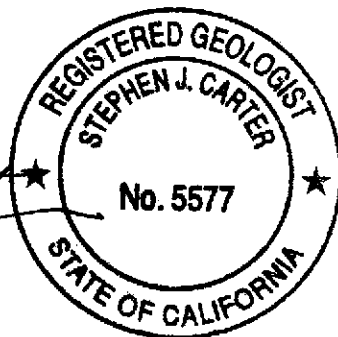
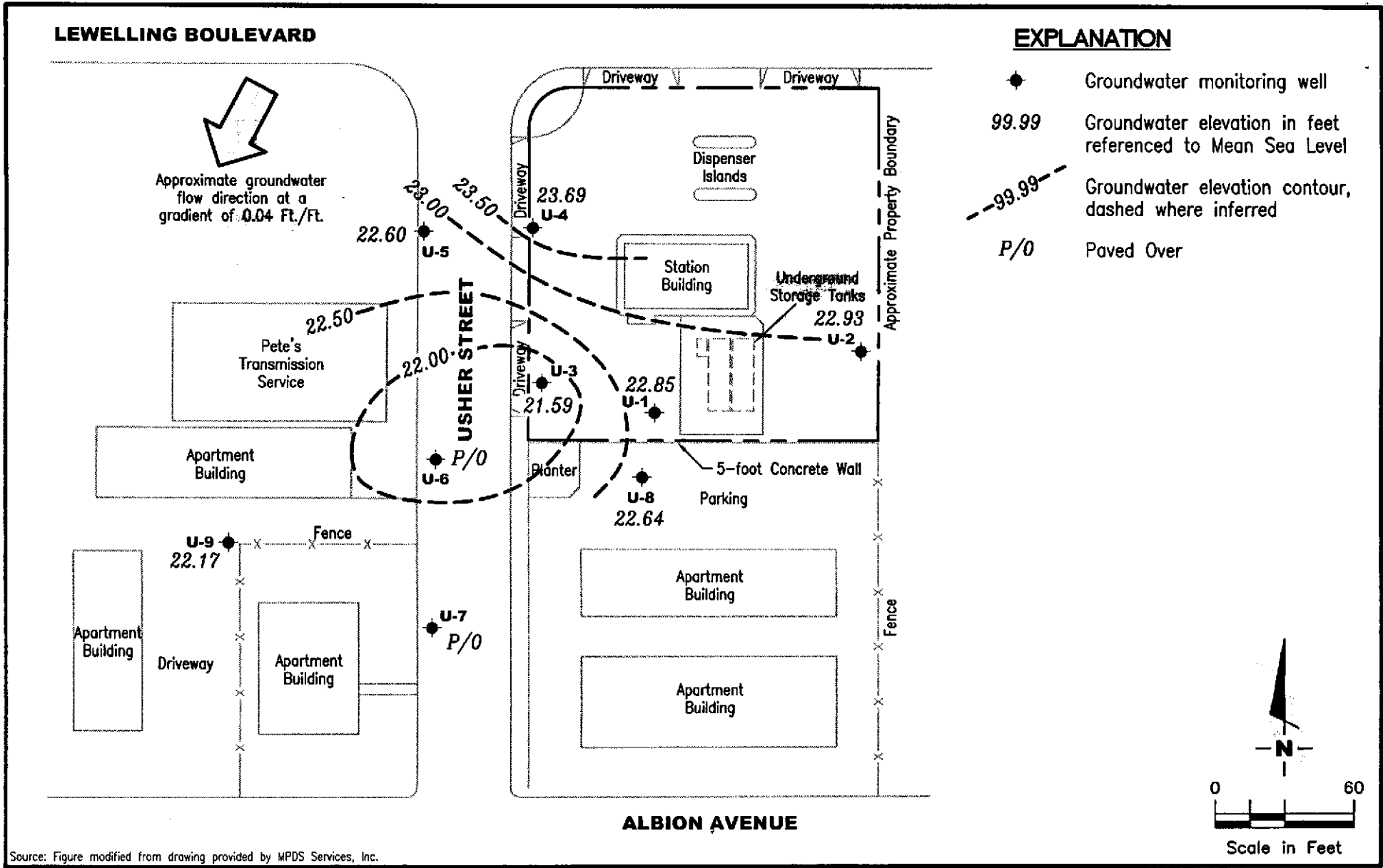


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Table 3: Dissolved Oxygen Concentrations  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field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

5760.qml



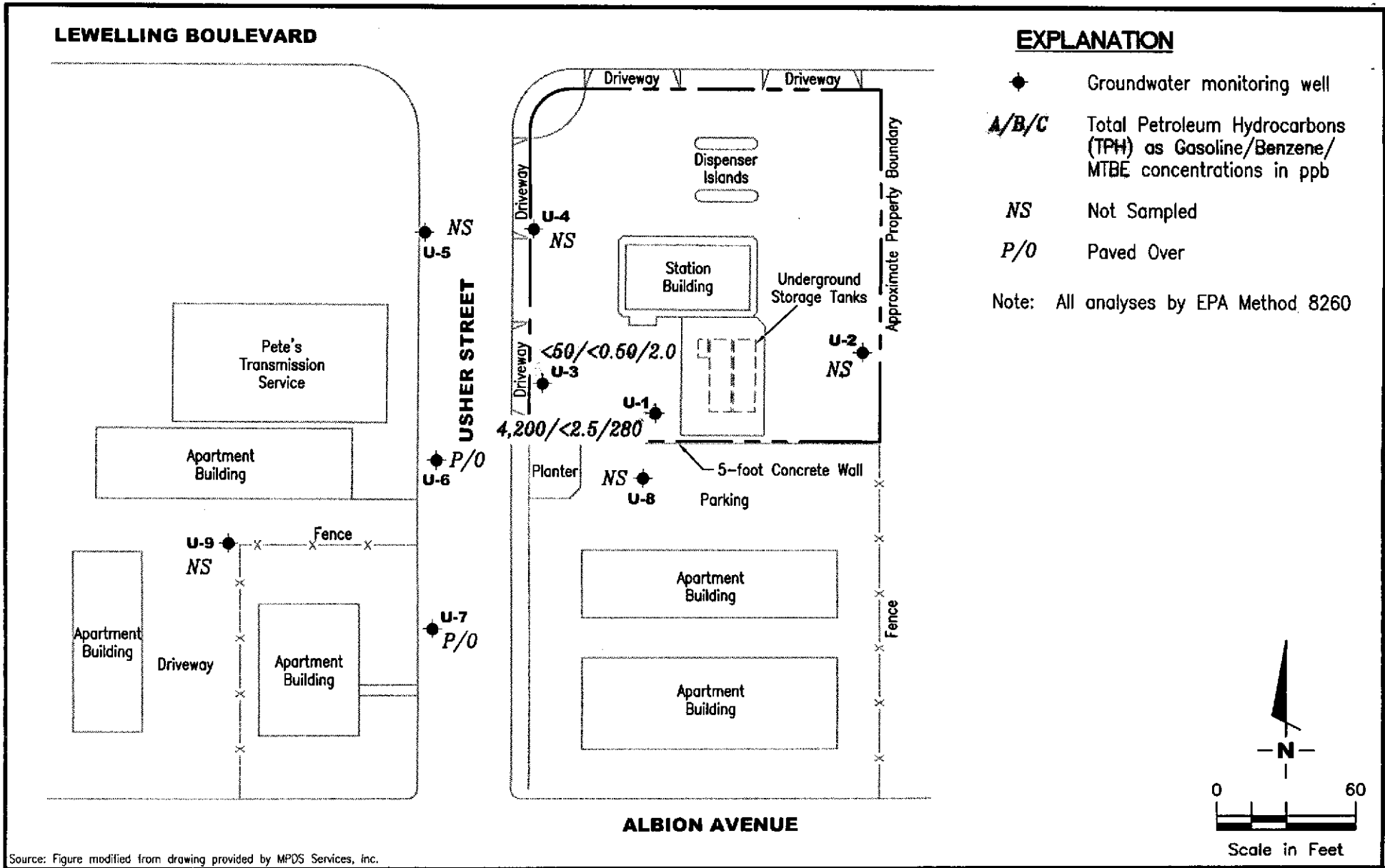
Source: Figure modified from drawing provided by MPDS Services, Inc.

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

**POTENTIOMETRIC MAP**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

FIGURE  
**1**

PROJECT NUMBER 180109	REVIEWED BY	DATE September 17, 2002	REVISED DATE
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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 #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

FIGURE  
**2**

PROJECT NUMBER  
 180109

REVIEWED BY

DATE  
 September 17, 2002

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5760  
376 Lewelling Boulevard  
San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1	02/09/88	--	10.5-30.5	--	--	93,000	3,600	11,000	-- <sup>1</sup>	20,000	--
	03/20/90	--		--	--	36,000	2,100	5,500	1,900	9,300	--
	06/05/90	--		--	--	46,000	2,300	5,500	2,500	11,000	--
	08/24/90	--		--	--	27,000	1,200	1,800	1,400	5,500	--
	12/05/90	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/04/91	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	06/03/91	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/19/91	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	12/04/91	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/05/92	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	04/07/92	--		--	--	NOT SAMPLED - PRODUCT SKIMMER INSTALLED IN WELL					--
	08/06/92	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/20/92	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/12/93	--		--	--	70,000	2,200	8,400	3,100	18,000	--
40.51	06/04/93	16.72		23.79	0.00	35,000	1,300	5,700	900	9,200	--
	09/09/93	17.77		22.74	0.00	67,000	2,900	18,000	6,200	32,000	--
40.20	12/02/93	18.36		21.84	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/09/94	17.20		23.00	0.00	45,000	930	4,100	2,000	11,000	--
	06/09/94	17.42		22.78	0.00	59,000	5,200	1,300	5,200	15,000	--
	09/07/94	18.17		22.03	0.00	41,000	1,600	6,200	3,100	16,000	--
	12/05/94	16.67		23.53	0.00	1,300	55	20	16	330	--
	03/09/95	15.82		24.38	0.00	49,000	860	3,200	1,900	10,000	1,500
	06/13/95	14.70		25.50	0.00	53,000	1,400	5,000	2,500	14,000	2,800
	09/12/95	16.77		23.24	0.00	43,000	910	2,700	1,700	9,600	1,400
40.01** 40.20	12/14/95					INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING					--
	03/20/96					INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING					--
	03/22/96	--		--	--	13,000	200	590	640	4,000	790
	09/24/96					INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING					--
	03/27/97	15.29		24.91	0.00	1,300	8.0	ND	ND	400	ND
	09/23/97	17.20		23.00	0.00	2,000	15	ND	ND	530	ND
	03/10/98	12.68		27.52	0.00	2,200 <sup>6</sup>	19	4.8	ND <sup>7</sup>	980	38

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1	09/04/98	16.84	10.5-30.5	23.36	0.00	5,300 <sup>8</sup>	53	ND <sup>7</sup>	410	620	ND <sup>7</sup>
(cont)	03/04/99	13.04		27.16	0.00	1,500	19	ND <sup>7</sup>	56	110	310
	09/13/99	17.14		23.06	0.00	5,850 <sup>8</sup>	32.7	ND <sup>7</sup>	520	925	ND <sup>7</sup>
	03/21/00	14.36		25.84	0.00	4,820 <sup>8</sup>	17.4	7.74	297	1,370	ND <sup>7</sup>
	09/18/00	16.72		23.48	0.00	647 <sup>9</sup>	6.44	ND <sup>7</sup>	22.3	6.86	22.2
	10/13/00	16.85		23.35	0.00	--	--	--	--	--	--/29 <sup>10</sup>
	03/16/01	15.84		24.36	0.00	4,950 <sup>11</sup>	1.73	1.77	429	536	613
	09/04/01	17.16		23.04	0.00	11,000 <sup>9</sup>	25	<10	1,100	1,800	370
	03/18/02	15.60		24.60	0.00	8,100 <sup>9</sup>	<20	<20	740	1,300	<200
	<b>09/17/02<sup>13</sup></b>	<b>17.35</b>		<b>22.85</b>	<b>0.00</b>	<b>4,200</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>120</b>	<b>43</b>	<b>280</b>
U-2	08/23/90	--	15.0-30.0	--	--	ND	ND	ND	ND	ND	--
	12/05/90	--		--	--	ND	ND	ND	ND	ND	--
	03/04/91	--		--	--	ND	ND	0.9	ND	2.6	--
	06/03/91	--		--	--	ND	ND	ND	ND	ND	--
	09/19/91	--		--	--	ND	ND	ND	ND	ND	--
	12/04/91	--		--	--	ND	ND	ND	ND	ND	--
	03/05/92	--		--	--	ND	ND	0.36	ND	ND	--
	04/07/92	--		--	--	ND	ND	ND	ND	ND	--
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--
	11/20/92	--		--	--	ND	ND	ND	ND	ND	--
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--
41.62	06/04/93	17.59		24.03	0.00	ND	ND	ND	ND	ND	--
	09/09/93	18.68		22.94	0.00	ND	ND	ND	ND	ND	--
41.26	12/02/93	19.23		22.03	0.00	ND	ND	ND	ND	ND	--
	03/09/94	18.05		23.21	0.00	62	1.1	5.4	1.1	9.7	--
	04/13/94	18.18		23.08	0.00	ND	ND	ND	ND	ND	--
	06/09/94	18.26		23.00	0.00	ND	ND	ND	ND	ND	--
	09/07/94	19.28		21.98	0.00	ND	ND	0.63	ND	0.61	--
	12/05/94	18.82		22.44	0.00	ND	ND	ND	ND	ND	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-2 (cont)	03/09/95	16.96	15.0-30.0	24.30	0.00	ND	ND	ND	ND	ND	ND
	06/13/95	16.71		24.55	0.00	ND	ND	ND	ND	ND	ND
	09/12/95	17.80		23.46	0.00	ND	ND	ND	ND	ND	ND
	12/14/95	18.18		23.08	0.00	ND	ND	ND	ND	ND	ND
	03/20/96	15.02		26.24	0.00	--	--	--	--	--	--
	09/24/96	17.90		23.36	0.00	--	--	--	--	--	--
	03/27/97	16.45		24.81	0.00	ND	ND	ND	ND	ND	ND
	09/23/97	18.40		22.86	0.00	--	--	--	--	--	--
	03/10/98	13.79		27.47	0.00	ND	ND	ND	ND	ND	ND
	09/04/98	17.98		23.28	0.00	--	--	--	--	--	--
	03/04/99	14.96		26.30	0.00	ND	ND	ND	ND	ND	ND
	09/13/99	18.25		23.01	0.00	--	--	--	--	--	--
	03/21/00	15.54		25.72	0.00	ND	ND	ND	ND	ND	ND
	09/18/00	17.55		23.71	0.00	--	--	--	--	--	--
	03/16/01	17.06		24.20	0.00	--	--	--	--	--	--
	09/04/01	18.39		22.87	0.00	--	--	--	--	--	--
	03/18/02	16.87		24.39	0.00	--	--	--	--	--	--
09/17/02	18.33		22.93	0.00	--	--	--	--	--	--	
U-3	08/23/90	--	15.0-25.0	--	--	110,000	4,400	13,000	2,800	17,000	--
	12/05/90	--		--	--	69,000	1,900	3,500	1,600	9,800	--
	01/18/91	--		--	--	51,000	1,700	3,100	1,500	7,500	--
	03/04/91	--		--	--	84,000	1,400	10,000	2,900	17,000	--
	06/03/91	--		--	--	130,000	5,800	19,000	4,600	24,000	--
	09/19/91	--		--	--	61,000	3,300	9,700	2,800	15,000	--
	12/04/91	--		--	--	75,000	2,500	6,100	1,900	11,000	--
	03/05/92	--		--	--	160,000	5,300	15,000	5,400	26,000	--
	04/07/92	--		--	--	97,000	6,100	16,000	5,400	28,000	--
	08/06/92	--		--	--	140,000	5,100	13,000	5,000	23,000	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5760  
376 Lewelling Boulevard  
San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-3	11/20/92	--	15.0-25.0	--	--	50,000	3,200	4,700	1,900	10,000	--
(cont)	02/12/93	--		--	--	80,000	3,700	9,400	3,700	18,000	--
39.64	06/04/93	15.48		24.16	0.00	92,000	2,900	8,700	4,300	20,000	--
	09/09/93	17.04		22.60	0.00	110,000	2,800	10,000	6,500	31,000	--
39.26	12/02/93	17.55		21.71	0.00	110,000	3,200	7,700	5,600	26,000	--
	03/09/94	16.35		22.91	0.00	120,000	4,500	8,300	5,600	28,000	--
	06/09/94	16.60		22.66	0.00	120,000 <sup>4</sup>	3,300	6,100	5,200	26,000	--
	09/07/94	17.61		21.65	0.00	100,000	2,400	4,900	4,200	21,000	--
	12/05/94	17.08		22.18	0.00	140,000	3,100	5,100	4,900	21,000	--
	03/09/95	15.20		24.06	0.00	100,000	2,300	3,300	4,800	21,000	54,000
	06/13/95	15.11		24.15	0.00	64,000	1,700	1,500	3,800	18,000	900
39.26**	09/12/95	16.11		23.15	0.00	69,000	1,700	820	4,000	19,000	29,000
	12/14/95	INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING							--	--	--
	03/20/96	INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING							--	--	--
	03/22/96	--		--	--	15,000	150	490	480	3,100	400
	09/24/96	INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING							--	--	--
	03/27/97	14.77		24.49	0.00	110	ND	ND	ND	0.62	9.6
	09/23/97	16.74		22.52	0.00	ND	ND	ND	ND	ND	ND
	03/10/98	12.18		27.08	0.00	ND	ND	ND	ND	3.1	ND
	09/04/98	16.46		22.80	0.00	ND	ND	ND	1.2	2.3	ND
	03/04/99	13.48		25.78	0.00	ND	ND	ND	ND	ND	ND
	09/13/99	16.71		22.55	0.00	ND	ND	1.77	ND	1.06	9.08
	03/21/00	13.87		25.39	0.00	18,700 <sup>8</sup>	ND <sup>7</sup>	ND <sup>7</sup>	1,290	4,770	ND <sup>7</sup>
	09/18/00	16.12		23.14	0.00	ND	ND	ND	ND	ND	ND
	03/16/01	15.35		23.91	0.00	2,310 <sup>12</sup>	ND	ND	184	618	ND
	09/04/01	16.71		22.55	0.00	340 <sup>9</sup>	0.95	<0.50	8.1	18	<5.0
	03/18/02	15.11		24.15	0.00	6,500 <sup>9</sup>	<10	<10	390	1,400	<100
	09/17/02 <sup>13</sup>	17.67		21.59	0.00	<50	<0.50	<0.50	<0.50	<1.0	2.0



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-4	08/23/90	--	15.0-28.0	--	--	ND	ND	1.0	ND	1.8	--
	12/05/90	--		--	--	ND	ND	ND	ND	ND	--
	01/18/91	--		--	--	ND	ND	ND	ND	ND	--
	03/04/91	--		--	--	ND	ND	ND	ND	ND	--
	06/03/91	--		--	--	ND	ND	ND	ND	ND	--
	09/19/91	--		--	--	ND	ND	ND	ND	ND	--
	12/04/91	--		--	--	ND	ND	ND	ND	ND	--
	03/05/92	--		--	--	ND	ND	ND	ND	ND	--
	04/07/92	--		--	--	ND	ND	ND	ND	ND	--
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--
	11/20/92	--		--	--	ND	ND	2.5	ND	ND	--
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--
40.53	06/04/93	16.73		23.80	0.00	ND	ND	ND	ND	ND	--
	09/09/93	16.89		23.64	0.00	ND	ND	ND	ND	ND	--
40.25	12/02/93	18.46		21.79	0.00	ND	ND	ND	ND	2.6	--
	03/09/94	17.30		22.95	0.00	ND	1.4	4.7	1.1	8.1	--
	04/13/94	17.44		22.81	0.00	ND	ND	ND	ND	ND	--
	06/09/94	17.53		22.72	0.00	ND	ND	ND	ND	ND	--
40.28	09/07/94	18.52		21.76	0.00	ND	ND	1.1	ND	1.0	--
	12/05/94	18.08		22.20	0.00	ND	ND	ND	ND	ND	--
	03/09/95	16.16		24.12	0.00	ND	ND	ND	ND	ND	ND
40.25	06/13/95	15.95		24.30	0.00	ND	ND	ND	ND	ND	2.7
	09/12/95	17.10		23.15	0.00	ND	ND	ND	ND	ND	ND
	12/14/95	17.43		22.82	0.00	ND	ND	ND	ND	ND	1.3
	03/20/96	14.93		25.32	0.00	--	--	--	--	--	--
	09/24/96	17.19		23.06	0.00	--	--	--	--	--	--
	03/27/97	15.66		24.59	0.00	ND	ND	ND	ND	ND	ND
	09/23/97	17.69		22.56	0.00	--	--	--	--	--	--
	03/10/98	12.99		27.26	0.00	ND	ND	ND	ND	ND	ND
	09/04/98	17.28		22.97	0.00	--	--	--	--	--	--
	03/04/99	14.17		26.08	0.00	ND	ND	ND	ND	ND	ND

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-4	09/13/99	17.55	15.0-28.0	22.70	0.00	--	--	--	--	--	--
(cont)	03/21/00	14.74		25.51	0.00	ND	ND	ND	ND	ND	ND
	09/18/00	16.88		23.37	0.00	--	--	--	--	--	--
	03/16/01	16.32		23.93	0.00	--	--	--	--	--	--
	09/04/01	17.70		22.55	0.00	--	--	--	--	--	--
	03/18/02	16.08		24.17	0.00	--	--	--	--	--	--
	<b>09/17/02</b>	<b>16.56</b>		<b>23.69</b>	<b>0.00</b>	--	--	--	--	--	--
<b>U-5</b>	04/07/92	--	15.0-30.0	--	--	ND	ND	ND	ND	ND	--
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--
	11/20/92	--		--	--	ND	ND	ND	ND	ND	--
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--
39.61	06/04/93	16.05		23.56	0.00	ND	ND	ND	ND	ND	--
	09/09/93	16.90		22.71	0.00	ND	ND	ND	ND	ND	--
39.31	12/02/93	17.66		21.65	0.00	ND	ND	ND	ND	ND	--
	03/09/94	16.45		22.86	0.00	71	1.7	6.3	1.5	10	--
	04/13/94	16.64		22.67	0.00	ND	ND	ND	ND	ND	--
	06/09/94	16.70		22.61	0.00	ND	ND	ND	ND	ND	--
	09/07/94	17.73		21.58	0.00	ND	ND	0.73	ND	0.84	--
	12/05/94	17.23		22.08	0.00	ND	ND	ND	ND	ND	--
	03/09/95	15.35		23.96	0.00	ND	ND	ND	ND	ND	ND
	06/13/95	15.16		24.15	0.00	ND	ND	ND	ND	ND	0.87
	09/12/95	16.30		23.01	0.00	ND	ND	ND	ND	ND	ND
	12/14/95	16.56		22.75	0.00	ND	ND	ND	ND	ND	ND
	03/20/96	14.07		25.24	0.00	--	--	--	--	--	--
	09/24/96	16.55		22.76	0.00	--	--	--	--	--	--
	03/27/97	14.85		24.46	0.00	ND	ND	ND	ND	ND	ND
	09/23/97	16.90		22.41	0.00	SAMPLED ANNUALLY		--	--	--	--
	03/10/98	12.21		27.10	0.00	ND	ND	ND	ND	ND	ND
	09/04/98	16.57		22.74	0.00	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5760  
376 Lewelling Boulevard  
San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-5	03/04/99	13.42	15.0-30.0	25.89	0.00	ND	ND	0.67	ND	ND	ND
(cont)	09/13/99	17.02		22.29	0.00	--	--	--	--	--	--
	03/21/00	13.93		25.38	0.00	ND	ND	ND	ND	ND	ND
	09/18/00	16.17		23.14	0.00	--	--	--	--	--	--
	03/16/01	15.51		23.80	0.00	ND	ND	ND	ND	ND	ND
	09/04/01	16.88		22.43	0.00	--	--	--	--	--	--
	03/18/02	15.25		24.06	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	<b>09/17/02</b>	<b>16.71</b>		<b>22.60</b>	<b>0.00</b>	<b>SAMPLED ANNUALLY</b>		--	--	--	--
U-6	04/07/92	--	13.0-28.0	--	--	6,600	90	ND	820	1,200	--
	08/06/92	--		--	--	9,200	160	ND	360	150	--
	11/20/92	INACCESSIBLE		--	--	--	--	--	--	--	--
	02/12/93	--		--	--	2,600	27	ND	120	51	--
37.94	06/04/93	14.45		23.49	0.00	13,000	100	38	450	320	--
	09/09/93	15.56		22.38	0.00	6,300 <sup>3</sup>	29	ND	120	34	--
37.68	12/02/93	16.08		21.60	0.00	2,100	12	1.6	21	1.1	--
	03/09/94	14.90		22.78	0.00	2,200	11	8.2	24	16	--
	06/09/94	15.18		22.50	0.00	2,600 <sup>4</sup>	16	ND	29	ND	--
	09/07/94	16.20		21.48	0.00	16,004	ND	ND	ND	ND	--
	12/05/94	15.60		22.08	0.00	450 <sup>5</sup>	ND	ND	ND	ND	--
	03/09/95	13.74		23.94	0.00	2,500	29	ND	70	120	320
	06/13/95	13.73		23.95	0.00	1,300	ND	ND	20	46	5,400
	09/12/95	14.85		22.83	0.00	ND	ND	ND	ND	ND	6,600
	12/14/95	14.89		22.79	0.00	760	ND	ND	7.0	8.4	1,100
	03/20/96	12.41		25.27	0.00	52	1.1	0.98	ND	0.75	1,200
	09/24/96	15.06		22.62	0.00	ND	ND	ND	ND	ND	750
	03/27/97	13.48		24.20	0.00	ND	ND	ND	ND	ND	150
	09/23/97	15.36		22.32	0.00	66	0.81	ND	ND	ND	150
	03/10/98	10.90		26.78	0.00	ND	ND	ND	ND	ND	18
	09/04/98	14.85		22.83	0.00	ND	ND	ND	ND	ND	ND

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5760  
376 Lewelling Boulevard  
San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-6	03/04/99	12.10	13.0-28.0	25.58	0.00	ND	ND	ND	ND	ND	6.5
(cont)	09/13/99	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	03/21/00	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	09/18/00	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	03/16/01	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	09/04/01	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	03/18/02	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	09/17/02	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
U-7	04/07/92	--	15.0-35.0	--	--	ND	ND	ND	ND	ND	--
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--
	11/20/92	--		--	--	ND	ND	ND	ND	ND	--
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--
37.49	06/04/93	14.17		23.32	0.00	ND	ND	ND	ND	ND	--
	09/09/93	15.23		22.26	0.00	ND	ND	ND	ND	ND	--
37.11	12/02/93	15.61		21.50	0.00	ND	ND	ND	ND	ND	--
	03/09/94	14.45		22.66	0.00	ND	1.4	4.4	0.96	7.5	--
	04/13/94	14.63		22.48	0.00	ND	ND	ND	ND	ND	--
	06/09/94	14.70		22.41	0.00	ND	ND	ND	ND	ND	--
	09/07/94	15.72		21.39	0.00	ND	ND	ND	ND	ND	--
	12/05/94	15.10		22.01	0.00	ND	ND	ND	ND	ND	--
	03/09/95	13.36		23.75	0.00	ND	ND	ND	ND	ND	ND
	06/13/95	13.33		23.78	0.00	ND	ND	ND	ND	ND	3.5
	09/12/95	14.40		22.71	0.00	ND	ND	ND	ND	ND	ND
	12/14/95	14.39		22.72	0.00	ND	ND	ND	ND	ND	1.4
	03/20/96	11.96		25.15	0.00	--	--	--	--	--	--
	09/24/96	14.59		22.52	0.00	--	--	--	--	--	--
	03/27/97	13.08		24.03	0.00	ND	ND	ND	ND	ND	ND
	09/23/97	14.90		22.21	0.00	--	--	--	--	--	--
	03/10/98	10.46		26.65	0.00	ND	ND	ND	ND	ND	ND

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-8	03/04/99	12.81	15.0-30.0	25.76	0.00	ND	ND	ND	ND	ND	ND
(cont)	09/13/99	16.37		22.20	0.00	--	--	--	--	--	--
	03/21/00	13.25		25.32	0.00	ND	ND	ND	ND	ND	ND
	09/18/00	15.31		23.26	0.00	--	--	--	--	--	--
	03/16/01	14.71		23.86	0.00	ND	ND	ND	ND	ND	ND
	09/04/01	16.01		22.56	0.00	--	--	--	--	--	--
	03/18/02	14.46		24.11	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	<b>09/17/02</b>	<b>15.93</b>		<b>22.64</b>	<b>0.00</b>	<b>SAMPLED ANNUALLY</b>		--	--	--	--
<b>U-9</b>											
37.88	06/04/93	14.67	13.0-28.0	23.21	0.00	2,100 <sup>2</sup>	ND	ND	ND	ND	--
	09/09/93	15.79		22.09	0.00	1,200 <sup>2</sup>	ND	ND	ND	ND	--
37.31	12/02/93	15.93		21.38	0.00	ND	ND	ND	ND	ND	--
	03/09/94	14.74		22.57	0.00	5,700 <sup>4</sup>	ND	ND	ND	ND	--
	04/13/94	14.96		22.35	0.00	ND	ND	ND	ND	ND	--
	06/09/94	15.05		22.26	0.00	2,900 <sup>5</sup>	ND	ND	ND	ND	--
	09/07/94	16.06		21.25	0.00	2,700 <sup>5</sup>	ND	ND	ND	ND	--
	12/05/94	15.43		21.88	0.00	3,700 <sup>5</sup>	ND	ND	ND	ND	--
	03/09/95	13.50		23.81	0.00	2,500 <sup>5</sup>	ND	ND	ND	ND	5,800
	06/13/95	13.63		23.68	0.00	ND	ND	ND	ND	ND	1,200
	09/12/95	14.73		22.58	0.00	ND	ND	ND	ND	ND	1,600
	12/14/95	14.67		22.64	0.00	ND	ND	ND	ND	ND	4,400
	03/20/96	12.27		25.04	0.00	ND	ND	ND	ND	ND	480
	09/24/96	14.92		22.39	0.00	ND	ND	ND	ND	ND	ND
	03/27/97	13.36		23.95	0.00	ND	ND	ND	ND	ND	42
	09/23/97	15.28		22.03	0.00	ND	ND	ND	ND	ND	ND
	03/10/98	10.86		26.45	0.00	ND	ND	ND	ND	3.1	ND
	09/04/98	15.03		22.28	0.00	ND	ND	ND	ND	ND	ND
	03/04/99	11.95		25.36	0.00	ND	ND	ND	ND	ND	ND
	09/13/99	15.61		21.70	0.00	ND	ND	1.67	ND	1.01	7.85

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product							
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
U-7	09/04/98	14.42	15.0-35.0	22.69	0.00	--	--	--	--	--	--	--
(cont)	03/04/99	11.64		25.47	0.00	ND	ND	ND	ND	ND	ND	6.6
	09/13/99	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--	--
	03/21/00	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--	--
	09/18/00	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--	--
	03/16/01	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--	--
	09/04/01	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--	--
	09/17/02	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--	--
U-8	04/07/92	--	15.0-30.0	--	--	ND	ND	ND	ND	ND	ND	--
	08/06/92	--		--	--	ND	ND	ND	ND	ND	ND	--
	02/12/93	--		--	--	ND	ND	ND	ND	ND	ND	--
38.94	06/04/93	15.26		23.68	0.00	ND	ND	ND	ND	ND	ND	--
	09/09/93	16.38		22.56	0.00	ND	ND	ND	ND	ND	ND	--
38.57	12/02/93	16.80		21.77	0.00	ND	ND	ND	ND	ND	ND	--
	03/09/94	15.62		22.95	0.00	ND	1.2	3.7	0.79	6.1	6.1	--
	04/13/94	15.80		22.77	0.00	ND	ND	0.78	ND	0.98	0.98	--
	06/09/94	15.86		22.71	0.00	ND	ND	ND	ND	ND	ND	--
	09/07/94	16.87		21.70	0.00	ND	ND	ND	ND	ND	ND	--
	12/05/94	16.32		22.25	0.00	ND	ND	ND	ND	ND	ND	--
	03/09/95	14.56		24.01	0.00	ND	ND	ND	ND	ND	ND	ND
	06/13/95	14.40		24.17	0.00	ND	ND	ND	ND	ND	ND	ND
	09/12/95	15.50		23.07	0.00	ND	ND	ND	ND	ND	ND	ND
	12/14/95	15.67		22.90	0.00	ND	ND	ND	ND	ND	ND	ND
	03/20/96	13.25		25.32	0.00	--	--	--	--	--	--	--
	09/24/96	15.75		22.82	0.00	--	--	--	--	--	--	--
	03/27/97	14.18		24.39	0.00	ND	ND	ND	ND	ND	ND	ND
	09/23/97	16.05		22.52	0.00	SAMPLED ANNUALLY		--	--	--	--	--
	03/10/98	11.63		26.94	0.00	ND	ND	ND	ND	ND	ND	ND
	09/04/98	15.81		22.76	0.00	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (Unocal) Service Station #5760  
376 Lewelling Boulevard  
San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product						
					Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-9	03/21/00	12.38	13.0-28.0	24.93	0.00	ND	ND	ND	ND	ND	ND
(cont)	09/18/00	14.87		22.44	0.00	ND	ND	1.42	ND	1.06	ND
	03/16/01	13.85		23.46	0.00	ND	ND	ND	ND	ND	ND
	09/04/01	15.22		22.09	0.00	SAMPLED ANNUALLY		--	--	--	--
	03/18/02	13.56		23.75	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	09/17/02	15.14		22.17	0.00	SAMPLED ANNUALLY		--	--	--	--
<b>Trip Blank</b>											
TB-LB	03/10/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/04/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/04/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/13/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/21/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/18/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/13/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/16/01	--	--	--	--	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	09/17/02	--	--	--	--	<50	<0.50	0.66	<0.50	<1.0	<2.0

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to March 10, 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-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 have been surveyed relative to msl. Prior to December 2, 1993, the DTW measurements were taken from the top of well covers.

\*\* The PVC well casing was shortened in September 1995.

<sup>1</sup> Ethylbenzene and Xylenes were combined prior to March 1990.

<sup>2</sup> The concentration reported as gasoline is primarily due to the presence of a discrete hydrocarbon peak not indicative of standard gasoline.

<sup>3</sup> The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.

<sup>4</sup> Laboratory report indicates the hydrocarbons detected appeared to be gasoline and non-gasoline mixture.

<sup>5</sup> Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.

<sup>6</sup> Laboratory report indicates gasoline and unidentified hydrocarbons >C8.

<sup>7</sup> Detection limit raised. Refer to analytical reports.

<sup>8</sup> Laboratory report indicates gasoline C6-C12.

<sup>9</sup> Laboratory report indicates weathered gasoline C6-C12.

<sup>10</sup> MTBE by EPA Method 8260.

<sup>11</sup> Laboratory report indicates gas range and late peaks.

<sup>12</sup> Laboratory report indicates gas pattern.

<sup>13</sup> TPH-G, BTEX and MTBE by EPA Method 8260.



**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
U-1	10/13/00	ND	ND	29	ND	ND	ND	ND	ND
	09/17/02	<2,500	<500	280	<10	<10	<10	<10	<10
U-3	09/17/02	--	--	2.0	--	--	--	--	--

**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  
 (ppb) = Parts per billion  
 ND = Not Detected  
 -- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

**Table 3**  
**Dissolved Oxygen Concentrations**  
 Tosco (Unocal) Service Station #5760  
 376 Lewelling Boulevard  
 San Lorenzo, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
U-1	03/27/97	2.41	2.35
U-2	03/27/97	4.36	4.49
U-3	03/27/97	3.18	3.32
U-4	03/27/97	3.32	3.26
U-5	03/27/97	3.74	3.77
U-6	03/20/96	3.85	3.89
	09/20/96	3.73	3.81
	03/27/97	4.43	4.36
	09/23/97	--	4.14
	03/10/98	--	3.95
U-7	03/27/97	3.29	3.38
U-8	03/27/97	3.04	3.11
U-9	03/20/96	4.02	4.00
	09/20/96	3.85	3.98
	03/27/97	3.65	3.57
	09/23/97	--	3.80
	03/10/98	--	3.62

**EXPLANATIONS:**

Dissolved oxygen concentrations prior to March 10, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = Milligrams per liter

-- = Not Measured

## 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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

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 disposable 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 and is labeled as QA. 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 #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: Joe

Well ID: U-1 Well Condition: o/c  
 Well Diameter: 2 1/3 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.  
 Total Depth: 29.10 ft.  
 Depth to Water: 17.35 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

11.75 xVF 0.38 = 4.47 x3 (case volume) = Estimated Purge Volume: 13.5 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): 1207 Weather Conditions: clear  
 Sample Time/Date: 1230 19-17-02 Water Color: clear Odor: some  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>10</sup>	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1216</u>	<u>4</u>	<u>7.59</u>	<u>6.88</u>	<u>72.2</u>		
<u>1219</u>	<u>8.5</u>	<u>7.22</u>	<u>7.10</u>	<u>71.9</u>		
<u>1222</u>	<u>13.5</u>	<u>7.26</u>	<u>7.12</u>	<u>72.1</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-1</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G (8015)/ BTEX + MTBE (8021)</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: Joc

Well ID: U-2  
 Well Diameter: 2 1/3 in.  
 Total Depth: 29.90 ft.  
 Depth to Water: 18.33 ft.

Well Condition: 0.1c  
 Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.

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

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 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)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-	x voa vial	YES	HCL	STL Pleasanton	TPH-G (8015)/ BTEX + MTBE (8021)

COMMENTS: M-only

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: Joe

Well ID: U-3 Well Condition: o.k.  
 Well Diameter: 2 1/3 in. Hydrocarbon Amount Bailed  
 Total Depth: 24.85 ft. Thickness: ✓ ft. (product/water): ✓ gal.  
 Depth to Water: 17.67 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

7.18 xVF 0.38 = 2.73 x3(case volume) = Estimated Purge Volume: 8.5 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): 1130 Weather Conditions: clear  
 Sample Time/Date: 1153 19-17-02 Water Color: clear Odor: none  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm) <sup>102</sup>	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1141</u>	<u>3</u>	<u>7.10</u>	<u>4.97</u>	<u>72.2</u>		
<u>1144</u>	<u>5.5</u>	<u>7.15</u>	<u>5.10</u>	<u>73.0</u>		
<u>1146</u>	<u>8.5</u>	<u>7.18</u>	<u>5.12</u>	<u>73.1</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>U-3</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G (8015)/ BTEX + MTBE (8021)</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: Joe

Well ID: U-4 Well Condition: 0.1c  
 Well Diameter: 2 1/3 in. Hydrocarbon Amount Bailed  
 Total Depth: 27.90 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 16.56 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

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 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)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-	x voa vial	YES	HCL	STL Pleasanton	TPH-G (8015)/ BTEX + MTBE (8021)

COMMENTS: no oily

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: Joe

Well ID: U-5 Well Condition: 0,1c  
 Well Diameter: 213 in. Hydrocarbon Amount Bailed  
 Total Depth: 28.55 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 16.71 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

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 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)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-	x voa vial	YES	HCL	STL Pleasanton	TPH-G (8015)/ BTEX + MTBE (8021)

COMMENTS: M. O. N. Y

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: Joc

Well ID: U-6 Well Condition: Paved over  
 Well Diameter: 2 / 3 in. Hydrocarbon Amount Bailed  
 Total Depth: \_\_\_\_\_ ft. Thickness: \_\_\_\_\_ ft. (product/water): \_\_\_\_\_ gal.  
 Depth to Water: \_\_\_\_\_ 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

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 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)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-	x voa vial	YES	HCL	STL Pleasanton	TPH-G (8015)/ BTEX + MTBE (8021)

COMMENTS: paved over

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: Joc

Well ID: U-7 Well Condition: Paved over  
 Well Diameter: 2 / 3 in. Hydrocarbon Amount Bailed  
 Total Depth: \_\_\_\_\_ ft. Thickness: \_\_\_\_\_ ft. (product/water): \_\_\_\_\_ gal.  
 Depth to Water: \_\_\_\_\_ 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

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ( $\mu$ mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-	x voa vial	YES	HCL	STL Pleasanton	TPH-G (8015)/ BTEX + MTBE (8021)

COMMENTS: Paved over

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: Joe

Well ID: U-8 Well Condition: o.k.  
 Well Diameter: (2) 3 in. Hydrocarbon Amount Bailed  
 Total Depth: 29.85 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 15.93 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

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: gpm. Sediment Description: \_\_\_\_\_  
 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)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-	x voa vial	YES	HCL	STL Pleasanton	TPH-G (8015)/ BTEX + MTBE (8021)

COMMENTS: no only

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #5760 Job Number: 180109  
 Site Address: 376 Lewelling Blvd. Event Date: 9-17-02  
 City: San Lorenzo, CA Sampler: See

Well ID: U-9 Well Condition: o.k  
 Well Diameter: (2) 3 in. Hydrocarbon Amount Bailed: 0 gal.  
 Total Depth: 28.25 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 15.14 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

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ 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): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ( $\mu$ mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-	x voa vial	YES	HCL	STL Pleasanton	TPH-G (8015)/ BTEX + MTBE (8021)

COMMENTS: M. only

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

2002-09-0372 Gattler-Ryan Inc., Chain-of-Custody

FILE NAME: P:\ENVIRO\X-CHAINCUSTODY\STD-COC.DWG | Layout Tab: Model

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number <u>#5760</u>	Laboratory Name <u>STL - PLEASANTON, CA</u>
	Facility Address <u>376 LEWELLING AVE., SAN LORENZO, CA</u>	Consultant <u>GATTLER-RYAN, INC. DEANNA L. HARDING</u>
	Global ID <u>T0600101469</u> Project <u>180109.80</u>	Address <u>6747 SIERRA CT., SUITE J, DUBLIN CA 94568</u>
	Client Contact <u>MR. DAVID B. DEWITT</u>	Phone <u>(925) 551-7555</u> Fax <u>(925) 551-7899</u>
	Phone <u>(925) 277-2384</u>	Samples Collected by <u>JOE A SEMIAN</u>

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	HMOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
QA	1	W	HCC	9-17-02	<input checked="" type="checkbox"/>													Run 8 Oxy's by 8260 on highs 8021 MTBE hi	
U-1	3	1	1	1230	<input checked="" type="checkbox"/>														
U-3	3	1	1	1153	<input checked="" type="checkbox"/>														
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice)												
<i>[Signature]</i>		9-17-02	<i>[Signature]</i>				24 Hrs.	48 Hrs.	72 Hrs.	5 Days	10 Days	As Contracted							
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N													
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Date/Time	Iced Y/N														
			<i>[Signature]</i>	9-17-02	1430														

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

5.0%

Submission#: 2002-09-0372

October 04, 2002

SEVERN

TRENT

LABORATORY

**Gettler Ryan**

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding  
Project#: 180109.80  
Project: Tosco #5760  
Site: 376 Lewelling Ave.  
San Lorenzo, CA

RECEIVED

10 4 2002

GETTLER-RYAN, INC.  
GENERAL CONTRACTORS

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 09/17/2002 14:30

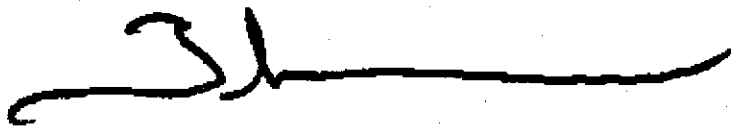
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/01/2002 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](mailto:tgranicher@chromalab.com)

Sincerely,



Tod Granicher  
Project Manager

Submission #: 2002-09-0372

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: 180109.80  
Tosco #5760

Received: 09/17/2002 14:30

Site: 376 Lewelling Ave.  
San Lorenzo, 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 #
QA	09/17/2002	Water	1
U-1	09/17/2002 12:30	Water	2
U-3	09/17/2002 11:53	Water	3

Submission #: 2002-09-0372

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2002-09-0372 - 1
Sampled:	09/17/2002	Extracted:	9/27/2002 14:46
Matrix:	Water	QC Batch#:	2002/09/27-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/27/2002 14:46	
Benzene	ND	0.50	ug/L	1.00	09/27/2002 14:46	
Toluene	0.66	0.50	ug/L	1.00	09/27/2002 14:46	
Ethylbenzene	ND	0.50	ug/L	1.00	09/27/2002 14:46	
Total xylenes	ND	1.0	ug/L	1.00	09/27/2002 14:46	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	09/27/2002 14:46	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	85.7	76-114	%	1.00	09/27/2002 14:46	
Toluene-d8	98.8	88-110	%	1.00	09/27/2002 14:46	



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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-1	Lab ID:	2002-09-0372 - 2
Sampled:	09/17/2002 12:30	Extracted:	9/30/2002 11:55
Matrix:	Water	QC Batch#:	2002/09/30-01.62
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4200	250	ug/L	5.00	09/30/2002 11:55	
Benzene	ND	2.5	ug/L	5.00	09/30/2002 11:55	
Toluene	ND	2.5	ug/L	5.00	09/30/2002 11:55	
Ethylbenzene	120	2.5	ug/L	5.00	09/30/2002 11:55	
Total xylenes	43	5.0	ug/L	5.00	09/30/2002 11:55	
tert-Butyl alcohol (TBA)	ND	500	ug/L	5.00	09/30/2002 11:55	
Methyl tert-butyl ether (MTBE)	280	10	ug/L	5.00	09/30/2002 11:55	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	09/30/2002 11:55	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	09/30/2002 11:55	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	09/30/2002 11:55	
1,2-DCA	ND	10	ug/L	5.00	09/30/2002 11:55	
EDB	ND	10	ug/L	5.00	09/30/2002 11:55	
Ethanol	ND	2500	ug/L	5.00	09/30/2002 11:55	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.6	76-114	%	5.00	09/30/2002 11:55	
Toluene-d8	97.3	88-110	%	5.00	09/30/2002 11:55	

Submission #: 2002-09-0372

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CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: U-3	Lab ID: 2002-09-0372 - 3
Sampled: 09/17/2002 11:53	Extracted: 9/27/2002 15:52
Matrix: Water	QC Batch#: 2002/09/27-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/27/2002 15:52	
Benzene	ND	0.50	ug/L	1.00	09/27/2002 15:52	
Toluene	ND	0.50	ug/L	1.00	09/27/2002 15:52	
Ethylbenzene	ND	0.50	ug/L	1.00	09/27/2002 15:52	
Total xylenes	ND	1.0	ug/L	1.00	09/27/2002 15:52	
Methyl tert-butyl ether (MTBE)	2.0	2.0	ug/L	1.00	09/27/2002 15:52	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	90.3	76-114	%	1.00	09/27/2002 15:52	
Toluene-d8	99.1	88-110	%	1.00	09/27/2002 15:52	

Submission #: 2002-09-0372

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Tosco #5760

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B  
Method Blank  
MB: 2002/09/27-01.62-006  
Water  
Test(s): 8260FAB  
QC Batch # 2002/09/27-01.62  
Date Extracted: 09/27/2002 11:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/27/2002 11:06	
Benzene	ND	0.5	ug/L	09/27/2002 11:06	
Toluene	ND	0.5	ug/L	09/27/2002 11:06	
Ethylbenzene	ND	0.5	ug/L	09/27/2002 11:06	
Total xylenes	ND	1.0	ug/L	09/27/2002 11:06	
tert-Butyl alcohol (TBA)	ND	100	ug/L	09/27/2002 11:06	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	09/27/2002 11:06	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/27/2002 11:06	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/27/2002 11:06	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/27/2002 11:06	
1,2-DCA	ND	2.0	ug/L	09/27/2002 11:06	
EDB	ND	2.0	ug/L	09/27/2002 11:06	
Ethanol	ND	500	ug/L	09/27/2002 11:06	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	90.6	76-114	%	09/27/2002 11:06	
Toluene-d8	98.3	88-110	%	09/27/2002 11:06	

## Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180109.80

Tosco #5760

Received: 09/17/2002 14:30

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www.chromalab.com

CA DHS ELAP# 2496

## Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/09/30-01.62-011

Water

Test(s): 8260FAB

QC Batch # 2002/09/30-01.62

Date Extracted: 09/30/2002 11:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/30/2002 11:11	
Benzene	ND	0.5	ug/L	09/30/2002 11:11	
Toluene	ND	0.5	ug/L	09/30/2002 11:11	
Ethylbenzene	ND	0.5	ug/L	09/30/2002 11:11	
Total xylenes	ND	1.0	ug/L	09/30/2002 11:11	
tert-Butyl alcohol (TBA)	ND	100	ug/L	09/30/2002 11:11	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	09/30/2002 11:11	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/30/2002 11:11	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/30/2002 11:11	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/30/2002 11:11	
1,2-DCA	ND	2.0	ug/L	09/30/2002 11:11	
EDB	ND	2.0	ug/L	09/30/2002 11:11	
Ethanol	ND	500	ug/L	09/30/2002 11:11	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	82.4	76-114	%	09/30/2002 11:11	
Toluene-d8	97.5	88-110	%	09/30/2002 11:11	

Submission #: 2002-09-0372

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2002/09/27-01.62

LCS 2002/09/27-01.62-022

Extracted: 09/27/2002

Analyzed: 09/27/2002 10:22

LCSD 2002/09/27-01.62-044

Extracted: 09/27/2002

Analyzed: 09/27/2002 10:44

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	21.7	21.7	25.0	86.8	86.8	0.0	69-129	20		
Toluene	24.2	24.9	25.0	96.8	99.6	2.9	70-130	20		
Methyl tert-butyl ether (MTBE)	20.8	21.4	25.0	83.2	85.6	2.8	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	466	476	500	93.2	95.2		76-114			
Toluene-d8	498	502	500	99.6	100.4		88-110			

Submission #: 2002-09-0372

Gas/BTEX Fuel Oxygenates by 8260B

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Tosco #5760

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/09/30-01.62**

LCS 2002/09/30-01.62-028

Extracted: 09/30/2002

Analyzed: 09/30/2002 10:28

LCSD 2002/09/30-01.62-049

Extracted: 09/30/2002

Analyzed: 09/30/2002 10:49

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	20.2	20.0	25.0	80.8	80.0	1.0	69-129	20		
Toluene	23.2	24.0	25.0	92.8	96.0	3.4	70-130	20		
Methyl tert-butyl ether (MTBE)	22.4	21.0	25.0	89.6	84.0	6.5	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	468	454	500	93.6	90.8		76-114			
Toluene-d8	484	502	500	96.8	100.4		88-110			

Submission #: 2002-09-0372

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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.