GETTLER-RYAN INC.

TRANSMITTAL

April 2, 2003
G-R #180041

TO: Mr. David B. De Witt
ConocoPhillips
76 Broadway Avenue
Sacramento, California 95818

CC: Mr. David Vossler
Gettler-Ryan Inc.
Petaluma, California

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

RE: Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 27, 2003	Groundwater Monitoring and Sampling Report Annual - Event of February 22, 2003

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 ***April 16, 2003***, this report will be distributed to the following:

cc: Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502
Mr. Hugh Murphy, City of Hayward Fire Department, 777 "B" Street, Hayward, CA 94541

Enclosure

CA & HI BOX:
009258

Store # 255487 Date 4-2-03
Unit # 5487 Code GWM Color
Description: MTS report
* NOTE: 2 SIDED

trans/5487-dbd

GETTLER-RYAN INC.

March 27, 2003
G-R Job #180041

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

RE: **Annual Event of February 22, 2003**
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, 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 as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1 and 2. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

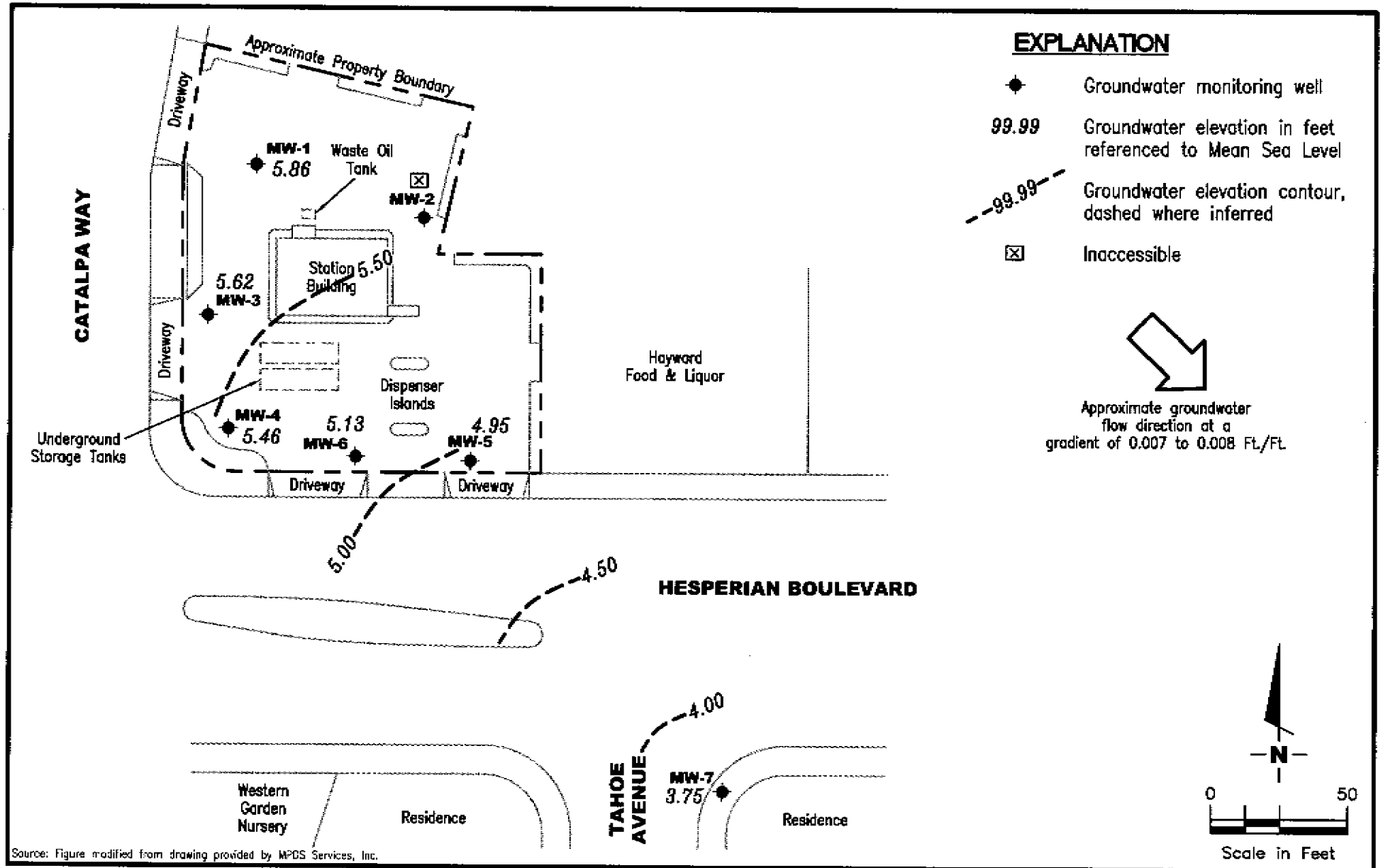
Annamarie Noreau
-FOR-
Deanna L. Harding
Project Coordinator

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

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

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

5487.qml



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

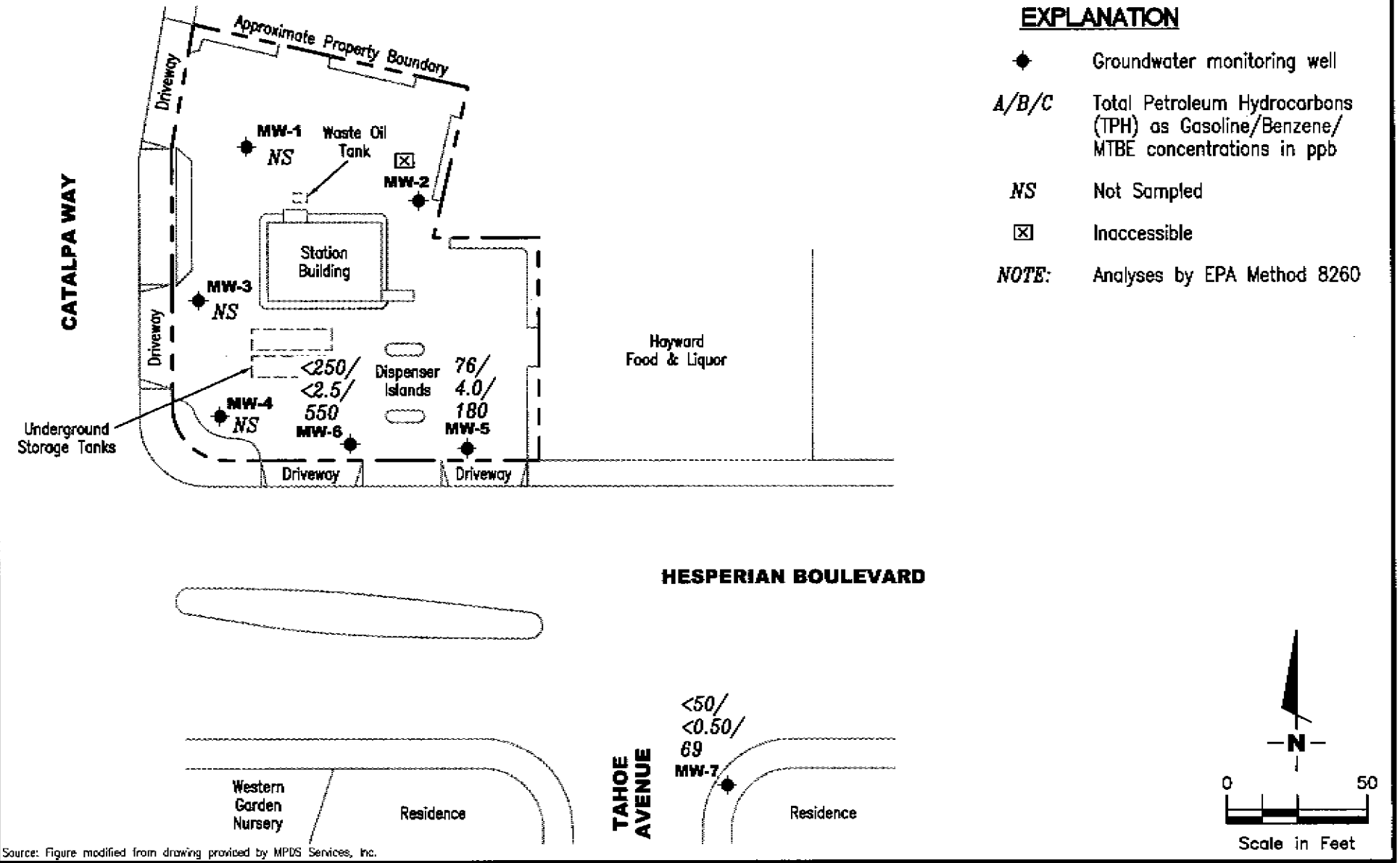
GETTLER-RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180041		February 22, 2003	

FILE NAME: P:\ENVIRO\TOSCO\5487\003-5487.DWG | Layout Tab: Patl



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 #5487
28250 Hesperian Boulevard
Hayward, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180041		February 22, 2003	

FILE NAME: P:\ENVIRO\TOSCO\5487\023-5487.DWG | Layout Tab: Con1

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1										
	04/26/89[1]	--	4.0-28.0	--	ND	2.1	ND	ND	ND	--
	08/16/89[2]	--		--	ND	ND	ND	ND	ND	--
	11/14/89[1]	--		--	ND	ND	ND	ND	ND	--
	02/16/90[1]	--		--	ND	ND	ND	ND	ND	--
	05/16/90[1]	--		--	ND	ND	ND	ND	ND	--
	08/29/90[1]	--		--	ND	ND	ND	ND	0.74	--
	11/15/90[1]	--		--	ND	ND	ND	ND	ND	--
	02/11/91[1]	--		--	ND	ND	ND	ND	ND	--
	05/10/91	--		--	ND	ND	ND	ND	ND	--
	08/02/91	--		--	ND	ND	ND	ND	ND	--
	11/07/91	--		--	ND	ND	ND	ND	ND	--
	08/04/92	--		--	ND	ND	ND	ND	ND	--
12.57	05/03/93	6.87		5.70	--	--	--	--	--	--
	08/05/93	7.49		5.08	ND	ND	ND	ND	ND	--
11.73	11/05/93	6.98		4.75	--	--	--	--	--	--
	02/07/94	6.26		5.47	--	--	--	--	--	--
	05/02/94	6.27		5.46	--	--	--	--	--	--
	08/02/94	6.89		4.84	ND	ND	ND	ND	ND	--
	11/02/94	7.07		4.66	--	--	--	--	--	--
	02/01/95	5.17		6.56	--	--	--	--	--	--
	05/02/95	5.65		6.08	--	--	--	--	--	--
	08/03/95	6.21		5.52	ND	ND	ND	ND	ND	--
	11/06/95	6.80		4.93	--	--	--	--	--	--
	02/02/96	3.88		7.85	SAMPLED ANNUALLY		--	--	--	--
	02/07/97	4.63		7.10	SAMPLING DISCONTINUED		--	--	--	--
	02/09/98	2.70		9.03	--	--	--	--	--	--
	02/02/99	5.42		6.31	--	--	--	--	--	--
	02/04/00	4.08		7.65	--	--	--	--	--	--
	02/02/01	5.26		6.47	--	--	--	--	--	--
	03/02/02	5.65		6.08	--	--	--	--	--	--
	02/22/03	5.87		5.86	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5487

28250 Hesperian Boulevard

Hayward, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2										
	04/26/89[1]	--	4.0-24.0	--	ND	ND	ND	ND	ND	--
	08/16/89[2]	--		--	ND	ND	ND	ND	ND	--
	11/14/89[1]	--		--	ND	ND	ND	ND	ND	--
	02/16/90	--		--	ND	ND	ND	ND	ND	--
	05/16/90[1]	--		--	ND	ND	ND	ND	ND	--
	08/29/90	--		--	ND	ND	ND	ND	ND	--
	11/15/90	--		--	ND	ND	ND	ND	ND	--
	02/11/91	--		--	ND	ND	ND	ND	ND	--
	05/10/91	--		--	ND	ND	ND	ND	ND	--
	08/02/91	--		--	ND	ND	ND	ND	ND	--
	11/07/91	--		--	ND	ND	ND	ND	ND	--
	08/04/92	--		--	ND	ND	ND	ND	ND	--
12.89	05/03/93	7.30		5.59	--	--	--	--	--	--
	08/05/93	7.97		4.92	ND	ND	ND	ND	ND	--
12.58	11/05/93	7.97		4.61	--	--	--	--	--	--
	02/07/94	7.09		5.49	--	--	--	--	--	--
	05/02/94	7.23		5.35	--	--	--	--	--	--
	08/02/94	7.87		4.71	ND	ND	ND	ND	ND	--
	11/02/94	7.98		4.60	--	--	--	--	--	--
	02/01/95	6.13		6.45	--	--	--	--	--	--
	05/02/95	7.04		5.54	--	--	--	--	--	--
	08/03/95	7.19		5.39	ND	ND	ND	ND	ND	--
	11/06/95	7.80		4.78	--	--	--	--	--	--
	02/02/96	5.91		6.67	SAMPLED ANNUALLY		--	--	--	--
	02/07/97	5.65		6.93	SAMPLING DISCONTINUED		--	--	--	--
	02/09/98	3.63		8.95	--	--	--	--	--	--
	02/02/99	6.36		6.22	--	--	--	--	--	--
	02/04/00	6.04		6.54	--	--	--	--	--	--
	02/02/01	6.44		6.14	--	--	--	--	--	--
	03/02/02	6.61		5.97	--	--	--	--	--	--
	02/22/03	**INACCESSIBLE**		--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5487

28250 Hesperian Boulevard

Hayward, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3										
	04/26/89[1]	--	5.0-25.0	--	ND	ND	ND	ND	ND	--
	08/16/89	--		--	ND	ND	ND	ND	ND	--
	11/14/89	--		--	ND	ND	ND	ND	ND	--
	02/16/90	--		--	ND	ND	ND	ND	ND	--
	05/16/90	--		--	ND	ND	ND	ND	ND	--
	08/29/90	--		--	ND	ND	0.52	ND	ND	--
	11/15/90	--		--	ND	ND	ND	ND	ND	--
	02/11/91	--		--	ND	ND	ND	ND	ND	--
	05/10/91	--		--	ND	ND	ND	ND	ND	--
	08/02/91	--		--	ND	ND	ND	ND	ND	--
	11/07/91	--		--	ND	ND	ND	ND	ND	--
	08/04/92	--		--	ND	ND	ND	ND	ND	--
12.46	05/03/93	6.82		5.64	--	--	--	--	--	--
	08/05/93	7.50		4.96	--	--	--	--	--	--
11.99	11/05/93	7.35		4.64	--	--	--	--	--	--
	02/07/94	6.58		5.41	--	--	--	--	--	--
	05/02/94	6.62		5.37	--	--	--	--	--	--
	08/02/94	7.24		4.75	ND	ND	ND	ND	ND	--
	11/02/94	7.42		4.57	--	--	--	--	--	--
	02/01/95	5.55		6.44	--	--	--	--	--	--
	05/02/95	5.70		6.29	--	--	--	--	--	--
	08/03/95	6.59		5.40	ND	ND	ND	ND	ND	--
	11/06/95	7.20		4.79	--	--	--	--	--	--
	02/02/96	4.08		7.91	SAMPLED ANNUALLY		--	--	--	--
	02/07/97	5.04		6.95	SAMPLING DISCONTINUED		--	--	--	--
	02/09/98	3.11		8.88	--	--	--	--	--	--
	02/02/99	5.69		6.30	--	--	--	--	--	--
	02/04/00	4.26		7.73	--	--	--	--	--	--
	02/02/01	4.91		7.08	--	--	--	--	--	--
	03/02/02	6.07		5.92	--	--	--	--	--	--
	02/22/03	**6.37**		**5.62**	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5487

28250 Hesperian Boulevard

Hayward, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4										
	04/26/89[1]	--	5.0-25.0	--	ND	0.33	ND	ND	ND	--
	08/16/89	--		--	ND	ND	ND	ND	ND	--
	11/14/89	--		--	ND	ND	ND	ND	ND	--
	02/16/90	--		--	ND	ND	ND	ND	ND	--
	05/16/90	--		--	ND	ND	ND	ND	ND	--
	08/29/90	--		--	ND	ND	ND	ND	ND	--
	11/15/90	--		--	ND	ND	ND	ND	ND	--
	02/11/91	--		--	ND	ND	ND	ND	ND	--
	05/10/91	--		--	ND	ND	ND	ND	ND	--
	08/02/91	--		--	ND	ND	ND	ND	ND	--
	11/07/91	--		--	ND	ND	ND	ND	ND	--
	08/04/92	--		--	ND	ND	ND	ND	ND	--
12.09	05/03/93	6.60		5.49	--	--	--	--	--	--
	08/05/93	7.28		4.81	ND	ND	ND	ND	ND	--
11.58	11/05/93	7.07		4.51	--	--	--	--	--	--
	02/07/94	6.21		5.37	--	--	--	--	--	--
	05/02/94	6.32		5.26	--	--	--	--	--	--
	08/02/94	6.95		4.63	ND	ND	ND	ND	ND	--
	11/02/94	7.13		4.45	SAMPLED ANNUALLY					
	02/01/95	5.23		6.35	--	--	--	--	--	--
	05/02/95	5.43		6.15	--	--	--	--	--	--
	08/03/95	6.33		5.25	ND	ND	ND	ND	ND	--
	11/06/95	6.90		4.68	--	--	--	--	--	--
	02/02/96	3.71		7.87	--	--	--	--	--	--
	02/07/97	4.46		7.12	SAMPLING DISCONTINUED					
	02/09/98	2.55		9.03	--	--	--	--	--	--
	02/02/99	5.37		6.21	--	--	--	--	--	--
	02/04/00	4.09		7.49	--	--	--	--	--	--
	02/02/01	5.12		6.46	--	--	--	--	--	--
	03/02/02	5.51		6.07	--	--	--	--	--	--
	02/22/03	**6.12**		**5.46**	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5										
	04/26/89[1]	--	4.0-24.0	--	ND	ND	ND	ND	ND	--
	08/16/89	--		--	4,400	1,400	84	200	950	--
	08/31/89	--		--	910	120	7.1	50	53	--
	11/14/89	--		--	73	4.7	0.97	2.9	16	--
	02/16/90	--		--	ND	ND	ND	ND	ND	--
	05/16/90	--		--	1,100	310	2.8	70	110	--
	08/29/90	--		--	ND	0.70	ND	0.57	1.1	--
	11/15/90	--		--	ND	ND	ND	ND	0.47	--
	02/11/91	--		--	58	23	ND	2.9	1.3	--
	05/10/91	--		--	ND	ND	ND	ND	ND	--
	08/02/91	--		--	100	43	0.33	12	5.2	--
	11/07/91	--		--	700	43	1.7	29	24	--
	02/05/92	--		--	120	20	ND	4.4	4.7	--
	05/05/92	--		--	170	45	0.48	9.0	6.8	--
	08/04/92	--		--	80	13	ND	4.5	6.9	--
	11/05/92	--		--	120	16	ND	3.5	3.0	--
	02/02/93	--		--	77[3]	5.0	ND	1.2	1.3	--
11.18	05/03/93	6.16		5.02	260	35	ND	2.3	3.1	--
	08/05/93	6.97		4.21	530	210	0.62	54	44	--
10.79	11/05/93	6.81		3.98	110	12	ND	2.3	2.3	--
	02/07/94	5.70		5.09	180	22	ND	6.4	5.9	--
	05/02/94	5.96		4.83	170[3]	38	0.73	8.5	8.4	--
	08/02/94	6.68		4.11	59	16	ND	2.4	3.1	--
	11/02/94	6.86		3.93	450	73	1.6	6.2	11	--
	02/01/95	4.85		5.94	170	11	ND	2.4	3.9	--
	05/02/95	4.95		5.84	ND	7.5	0.51	1.2	1.6	--
	08/03/95	6.03		4.76	ND	12	ND	0.70	ND	--
	11/06/95	6.70		4.09	160	80	ND	7.4	10	120
	02/02/96	3.50		7.29	64	20	ND	3.9	6.1	150
	02/07/97	4.26		6.53	85	16	0.56	1.7	3.8	250
	02/09/98	2.29		8.50	220	54	ND	3.2	5.9	230
	02/02/99	5.07		5.72	61[6]	19	ND	1.3	2.1	110

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5487

28250 Hesperian Boulevard

Hayward, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	02/04/00	3.68	4.0-24.0	7.11	ND	8.4	ND	ND	ND	86
(cont)	02/02/01	4.38		6.41	ND	6.42	ND	ND	ND	223
	03/02/02	5.68		5.11	93[6]	11	<0.50	<0.50	<0.50	350
	02/22/03[9]	**5.84**		**4.95**	**76[10]**	**4.0**	**<0.50**	**<0.50**	**<1.0**	**180**
MW-6	08/04/92	--	5.0-18.0	--	540	12	7.9	35	110	--
	11/05/92	--		--	300	16	2.3	14	14	--
	02/02/93	--		--	400[3]	66	5.5	32	13	--
11.47	05/03/93	6.28		5.19	520	47	2.6	33	48	--
	08/05/93	7.05		4.42	230	25	1.6	12	29	--
11.18	11/05/93	7.02		4.16	100	1.8	ND	0.79	2.2	--
	02/07/94	6.00		5.18	1,100	130	14	13	130	--
	05/02/94	6.18		5.00	440[3]	20	4.2	11	26	--
	08/02/94	6.88		4.30	220	13	1.0	12	28	--
	11/02/94	7.05		4.13	840	30	2.5	26	57	--
	02/01/95	5.04		6.14	340	26	0.77	2.6	7.0	--
	05/02/95	5.00		6.18	ND	5.7	ND	0.81	1.1	--
	08/03/95	6.26		4.92	ND	0.76	ND	ND	ND	--
	11/06/95	6.87		4.31	210	17	0.66	14	37	130
	02/02/96	3.64		7.54	300	51	0.65	30	18	280
	02/07/97	4.41		6.77	66	5.8	1.2	2.1	6.6	450
	02/09/98	2.51		8.67	ND[5]	1.0	ND[5]	ND[5]	ND[5]	450
	02/02/99	5.14		6.04	ND	2.6	ND	1.0	2.9	490
	02/04/00	4.11		7.07	110[7]	3.9	ND[5]	ND[5]	ND[5]	830
	02/02/01	5.06		6.12	ND[5]	4.79	ND[5]	ND[5]	ND[5]	1,800/1,790[8]
	03/02/02	6.09		5.09	69[6]	3.8	<0.50	<0.50	<0.50	780/900[8]
	02/22/03[9]	**6.05**		**5.13**	**<250**	**<2.5**	**<2.5**	**<2.5**	**<5.0**	**550**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5487

28250 Hesperian Boulevard

Hayward, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7										
	07/30/96	--	3.5-19.0	--	ND	ND	ND	ND	ND	ND
9.39	02/07/97	3.75		5.64	ND	ND	ND	ND	ND	ND
	02/09/98	1.69		7.70	ND	ND	ND	ND	ND	ND
	02/02/99	4.14		5.25	ND	ND	ND	ND	ND	ND
	02/04/00	3.97		5.42	ND	ND	ND	ND	ND	ND
	02/02/01	4.05		5.34	ND	ND	ND	ND	ND	ND
	03/02/02	4.32		5.07	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/22/03[9]	**5.64**		**3.75**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**69**
MWD[4]	05/10/91	--	--	--	ND	ND	ND	ND	ND	--
Trip Blank										
TB-LB	02/09/98	--	--	--	ND	ND	ND	ND	ND	ND
	02/02/99	--		--	ND	ND	ND	ND	ND	ND
	02/04/00	--		--	ND	ND	ND	ND	ND	ND
	02/02/01	--		--	ND	ND	ND	ND	ND	ND
	03/02/02	--		--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/22/03[9]	**--**		**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

EXPLANATIONS:

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

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
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/Trip Blank

* Prior to November 5, 1993, the elevations of the *Top of Well Covers* have been surveyed relative to Mean Sea Level (msl), per the City of Hayward Benchmark (Elevation = 10.97 feet, msl). TOC elevations are relative to Mean Sea Level (msl), per the City of Hayward Benchmark (Elevation = 10.97 feet msl).

1 TPH-D, TOG and all EPA Method 8010 constituents were ND.
2 TOG for the samples collected from MW-1 and MW-2 were 23 ppm and 7.4 ppm, respectively. TPH-D and all EPA Method 8010 constituents were ND for both samples.
3 Laboratory report indicates that the hydrocarbons detected appear to be a gasoline and non-gasoline mixture.
4 MWD was a quality assurance duplicate water sample collected from well MW-5.
5 Detection limit raised. Refer to analytical reports.
6 Laboratory report indicates unidentified hydrocarbons C6-C12.
7 Laboratory report indicates gasoline C6-C12.
8 MTBE by EPA Method 8260.
9 TPH-G, BTEX and MTBE by EPA Method 8260.
10 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-5	02/22/03	--	--	180	--	--	--	--	--
MW-6	02/02/01	ND[1]	ND[1]	1,790	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	03/02/02	<2,500	<500	900	<10	<10	<10	<10	<10
	02/22/03	<2,500	<500	550	<10	<10	<10	<10	<10
MW-7	02/22/03	--	--	69	--	--	--	--	--

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 = 1,2-Dibromoethane
(ppb) = Parts per billion
ND = Not Detected
-- = Not Analyzed

[1] Detection limit raised. Refer to analytical reports.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #5487
28250 Hesperian Boulevard
Hayward, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-5	02/22/03	--	--	180	--	--	--	--	--
MW-6	02/02/01	ND[1]	ND[1]	1,790	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	03/02/02	<2,500	<500	900	<10	<10	<10	<10	<10
	02/22/03	<2,500	<500	550	<10	<10	<10	<10	<10
MW-7	02/22/03	--	--	69	--	--	--	--	--

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 = 1,2-Dibromoethane
(ppb) = Parts per billion
ND = Not Detected
-- = Not Analyzed

[1] Detection limit raised. Refer to analytical reports.

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, 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 #: ConocoPhillips#5487 Job Number: 180041
Site Address: 28250 Hesperian Blvd. Event Date: 2-22-07 (inclusive)
City: Hayward, CA Sampler: Jim Heran

Well ID MW-1 Date Monitored: 2-22-07 Well Condition: O/C
Well Diameter 2 in.
Total Depth 27.93 ft.
Depth to Water 5.87 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

____ 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:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (2400 hrs)
Depth to Product: ____ ft
Depth to Water: ____ ft
Hydrocarbon Thickness: ____ ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Product Transferred to:

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
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)/ 8 Oxy's(8260)

COMMENTS: monitor only

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5487 Job Number: 180041
Site Address: 28250 Hesperian Blvd. Event Date: 2-22-03 (inclusive)
City: Hayward, CA Sampler: Jim Herrera

Well ID MW-2 Date Monitored: _____ Well Condition: Damaged
Well Diameter 2 in.
Total Depth _____ ft.
Depth to Water _____ 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

_____ 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: _____

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Product Transferred to: _____

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
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)/ 8 Oxy's(8260)

COMMENTS: Unable to access - well L.d screws Damaged

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5487 Job Number: 180041
Site Address: 28250 Hesperian Blvd. Event Date: 2-22-03 (inclusive)
City: Hayward, CA Sampler: Jim Kenner

Well ID MW-3 Date Monitored: 2-22-03 Well Condition: o/c
Well Diameter 2 in.
Total Depth 20.29 ft.
Depth to Water 6.37 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

____ 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:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (2400 hrs)
Depth to Product: ____ ft
Depth to Water: ____ ft
Hydrocarbon Thickness: ____ ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Product Transferred to:

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
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)/ 8 Oxy's(8260)

COMMENTS: monitor only

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5487 Job Number: 180041
Site Address: 28250 Hesperian Blvd. Event Date: 2-22-03 (inclusive)
City: Hayward, CA Sampler: Jim Herron

Well ID MW- 4 Date Monitored: 2-22-03 Well Condition: OK
Well Diameter 2 in.
Total Depth 24.59 ft.
Depth to Water 6.12 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

_____ 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:

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Product Transferred to:

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
MW-	x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)/ 8 Oxy's(8260)

COMMENTS: monitor only

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5487 Job Number: 180041
Site Address: 28250 Hesperian Blvd. Event Date: 2-22-07 (inclusive)
City: Hayward, CA Sampler: Sam Herron

Well ID MW-5 Date Monitored: 2-22-07 Well Condition: OK
Well Diameter 2 in.
Total Depth 24.13 ft.
Depth to Water 5.84 ft.
18.29 xVF .17 = 3.10 x3 (case volume) = Estimated Purge Volume: 9.32 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

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

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

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1300 Weather Conditions: Clear
Sample Time/Date: 1320/2-22-07 Water Color: Clear Odor: Yes
Purging Flow Rate: 2 gpm. Sediment Description: None
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)
1302	3	7.44	1394	20.4		
1304	6	7.17	1373	20.1		
1306	9	7.11	1387	20.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)/ ~~8 Oxys(8260)~~

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5487 Job Number: 180041
Site Address: 28250 Hesperian Blvd. Event Date: 2-22-03 (inclusive)
City: Hayward, CA Sampler: Jim Herrow

Well ID MW- 6 Date Monitored: 2-22-03 Well Condition: O/C
Well Diameter 2 in.
Total Depth 17.97 ft.
Depth to Water 6.05 ft.
11.92 xVF .17 = 2.02 x3 (case volume) = Estimated Purge Volume: 6.07 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

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

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

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1135 Weather Conditions: clear
Sample Time/Date: 1155 / 2-22-03 Water Color: clear Odor: no
Purging Flow Rate: — gpm. Sediment Description: none
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)
1138	2	7.24	1135	21.0		
1142	4	7.06	1169	20.5		
1145	6	7.06	1161	20.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 6	3 x voa vial	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)/ 8 Oxy's(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips#5487 Job Number: 180041
Site Address: 28250 Hesperian Blvd. Event Date: 2.22.07 (inclusive)
City: Hayward, CA Sampler: Sam Herron

Well ID MW-7 Date Monitored: 2.22.07 Well Condition: O/C
Well Diameter 2 in.
Total Depth 19.95 ft.
Depth to Water 5.64 ft.
14.31 xVF .17 = 2.43 x3 (case volume) = Estimated Purge Volume: 7.29 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

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

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

Time Started: (2400 hrs)
Time Bailed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Product Transferred to:

Start Time (purge): 1330 Weather Conditions: Clear
Sample Time/Date: 1350 / 12-22-07 Water Color: Clear Odor: No
Purging Flow Rate: 2 gpm. Sediment Description: None
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)
1332	2.5	7.60	1212	18.3		
1334	5.0	7.25	1208	18.2		
1336	7.5	7.26	1183	18.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x voa viel	YES	HCL	STL Pleasanton	TPH-G/BTEX/MTBE(8260)/ 8 ~~Oxy's(8260)~~

COMMENTS:

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

2003-02-0473 Gettler-Ryan Inc., Chain-of-Custody

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FILE NAME: P:\DWGS\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: #5487
Facility Address: 28250 HESPERIAN BLVD., HAYWARD, CA
Global ID: T0600101462 Project: 180041.80
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) 551-7888
Samples Collected by: Jim Herron

SAMPLE ID	Number of Containers	Matrix (S = Soil A = Air W = Water C = Charcoal)	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	2	W	HCL	2-22-03					X									
MW-5	3	W	HCL	2-22-03 1320					X									
MW-6	3	W	HCL	2-22-03 1155					X	X								
MW-7	3	W	HCL	2-22-03 1350					X									

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

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
	GR	2-22-03 1500				
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 2-24-03	Iced Y/N 1415

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

SEVERN TRENT STL

Submission#: 2003-02-0473

Gettler Ryan

6747 Sierra Court Suite J
Dublin, CA 94568

March 12, 2003

Attn.: Deanna Harding

Project#: 180041.80
Project: Tosco #5487
Site: 28250 Hesperian Blvd.
Hayward, CA

Dear Ms. Harding,

Attached is our report for your samples received on 02/24/2003 14:15
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 04/10/2003 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@stl-inc.com

Sincerely,

Tod Granicher
Project Manager

SEVERN TRENT STL

Submission #: 2003-02-0473

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: 180041.80
Tosco #5487

Received: 02/24/2003 14:15

Site: 28250 Hesperian Blvd.
Hayward, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	02/22/2003	Water	1
MW-5	02/22/2003 13:20	Water	2
MW-6	02/22/2003 11:55	Water	3
MW-7	02/22/2003 13:50	Water	4

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: 180041.80
Tosco #5487

Received: 02/24/2003 14:15

Site: 28250 Hesperian Blvd.
Hayward, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2003-02-0473 - 1
Sampled:	02/22/2003	Extracted:	2/28/2003 18:34
Matrix:	Water	QC Batch#:	2003/02/28-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/28/2003 18:34	
Benzene	ND	0.50	ug/L	1.00	02/28/2003 18:34	
Toluene	ND	0.50	ug/L	1.00	02/28/2003 18:34	
Ethylbenzene	ND	0.50	ug/L	1.00	02/28/2003 18:34	
Total xylenes	ND	1.0	ug/L	1.00	02/28/2003 18:34	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/28/2003 18:34	
Surrogates(s)						
1,2-Dichloroethane-d4	106.9	76-114	%	1.00	02/28/2003 18:34	
Toluene-d8	101.3	88-110	%	1.00	02/28/2003 18:34	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan
Attn.: Deanna Harding

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Dublin, CA 94568
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Site: 28250 Hesperian Blvd.
Hayward, CA

Prep(s): 5030B
Sample ID: **MW-5**
Sampled: 02/22/2003 13:20
Matrix: Water

Test(s): 8260FAB
Lab ID: 2003-02-0473 - 2
Extracted: 2/28/2003 18:56
QC Batch#: 2003/02/28-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	76	50	ug/L	1.00	02/28/2003 18:56	g
Benzene	4.0	0.50	ug/L	1.00	02/28/2003 18:56	
Toluene	ND	0.50	ug/L	1.00	02/28/2003 18:56	
Ethylbenzene	ND	0.50	ug/L	1.00	02/28/2003 18:56	
Total xylenes	ND	1.0	ug/L	1.00	02/28/2003 18:56	
Methyl tert-butyl ether (MTBE)	180	2.0	ug/L	1.00	02/28/2003 18:56	
Surrogates(s)						
1,2-Dichloroethane-d4	108.1	76-114	%	1.00	02/28/2003 18:56	
Toluene-d8	99.8	88-110	%	1.00	02/28/2003 18:56	

Gas/BTEX Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-6**	Lab ID:	2003-02-0473 - 3
Sampled:	02/22/2003 11:55	Extracted:	3/3/2003 17:52
Matrix:	Water	QC Batch#:	2003/03/03-01.27

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	03/03/2003 17:52	
Benzene	ND	2.5	ug/L	5.00	03/03/2003 17:52	
Toluene	ND	2.5	ug/L	5.00	03/03/2003 17:52	
Ethylbenzene	ND	2.5	ug/L	5.00	03/03/2003 17:52	
Total xylenes	ND	5.0	ug/L	5.00	03/03/2003 17:52	
tert-Butyl alcohol (TBA)	ND	500	ug/L	5.00	03/03/2003 17:52	
Methyl tert-butyl ether (MTBE)	550	10	ug/L	5.00	03/03/2003 17:52	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	03/03/2003 17:52	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	03/03/2003 17:52	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	03/03/2003 17:52	
1,2-DCA	ND	10	ug/L	5.00	03/03/2003 17:52	
EDB	ND	10	ug/L	5.00	03/03/2003 17:52	
Ethanol	ND	2500	ug/L	5.00	03/03/2003 17:52	
Surrogates(s)						
1,2-Dichloroethane-d4	105.2	76-114	%	5.00	03/03/2003 17:52	
Toluene-d8	99.0	88-110	%	5.00	03/03/2003 17:52	

Gas/BTEX Fuel Oxygenates by 8260B

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Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-7	Lab ID:	2003-02-0473 - 4
Sampled:	02/22/2003 13:50	Extracted:	2/28/2003 19:39
Matrix:	Water	QC Batch#:	2003/02/28-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/28/2003 19:39	
Benzene	ND	0.50	ug/L	1.00	02/28/2003 19:39	
Toluene	ND	0.50	ug/L	1.00	02/28/2003 19:39	
Ethylbenzene	ND	0.50	ug/L	1.00	02/28/2003 19:39	
Total xylenes	ND	1.0	ug/L	1.00	02/28/2003 19:39	
Methyl tert-butyl ether (MTBE)	69	2.0	ug/L	1.00	02/28/2003 19:39	
Surrogates(s)						
1,2-Dichloroethane-d4	103.4	76-114	%	1.00	02/28/2003 19:39	
Toluene-d8	99.6	88-110	%	1.00	02/28/2003 19:39	

Gas/BTEX Fuel Oxygenates by 8260B

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Tosco #5487

Received: 02/24/2003 14:15

Site: 28250 Hesperian Blvd.
Hayward, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/02/28-01.27**

MB: 2003/02/28-01.27-007 — Date Extracted: 02/28/2003 11:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/28/2003 11:29	
Benzene	ND	0.5	ug/L	02/28/2003 11:29	
Toluene	ND	0.5	ug/L	02/28/2003 11:29	
Ethylbenzene	ND	0.5	ug/L	02/28/2003 11:29	
Total xylenes	ND	1.0	ug/L	02/28/2003 11:29	
tert-Butyl alcohol (TBA)	ND	100	ug/L	02/28/2003 11:29	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/28/2003 11:29	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/28/2003 11:29	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/28/2003 11:29	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/28/2003 11:29	
1,2-DCA	ND	2.0	ug/L	02/28/2003 11:29	
EDB	ND	2.0	ug/L	02/28/2003 11:29	
Ethanol	ND	500	ug/L	02/28/2003 11:29	
Surrogates(s)					
1,2-Dichloroethane-d4	100.0	76-114	%	02/28/2003 11:29	
Toluene-d8	99.0	88-110	%	02/28/2003 11:29	

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Tosco #5487

Received: 02/24/2003 14:15

Site: 28250 Hesperian Blvd.
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Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/03/03-01.27-025

Water

Test(s): 8260FAB
QC Batch # 2003/03/03-01.27
Date Extracted: 03/03/2003 11:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/03/2003 11:47	
Benzene	ND	0.5	ug/L	03/03/2003 11:47	
Toluene	ND	0.5	ug/L	03/03/2003 11:47	
Ethylbenzene	ND	0.5	ug/L	03/03/2003 11:47	
Total xylenes	ND	1.0	ug/L	03/03/2003 11:47	
tert-Butyl alcohol (TBA)	ND	100	ug/L	03/03/2003 11:47	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	03/03/2003 11:47	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	03/03/2003 11:47	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	03/03/2003 11:47	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	03/03/2003 11:47	
1,2-DCA	ND	2.0	ug/L	03/03/2003 11:47	
EDB	ND	2.0	ug/L	03/03/2003 11:47	
Ethanol	ND	500	ug/L	03/03/2003 11:47	
Surrogates(s)					
1,2-Dichloroethane-d4	103.0	76-114	%	03/03/2003 11:47	
Toluene-d8	96.2	88-110	%	03/03/2003 11:47	

Gas/BTEX Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Laboratory Control Spike — **Water** — **QC Batch # 2003/02/28-01.27**

LCS 2003/02/28-01.27-003 — Extracted: 02/28/2003 — Analyzed: 02/28/2003 10:39

LCSD 2003/02/28-01.27-004 — Extracted: 02/28/2003 — Analyzed: 02/28/2003 11:08

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.8	25.4	25.0	99.2	101.6	2.4	65-165	20		
Benzene	22.7	22.0	25.0	90.8	88.0	3.1	69-129	20		
Toluene	22.5	22.0	25.0	90.0	88.0	2.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	503	506	500	100.6	101.2		76-114			
Toluene-d8	496	492	500	99.2	98.4		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Site: 28250 Hesperian Blvd.
Hayward, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/03/03-01.27**

LCS 2003/03/03-01.27-003 — Extracted: 03/03/2003 — Analyzed: 03/03/2003 10:57

LCSD 2003/03/03-01.27-006 — Extracted: 03/03/2003 — Analyzed: 03/03/2003 13:24

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	21.6	22.8	25.0	86.4	91.2	5.4	69-129	20		
Toluene	22.3	22.9	25.0	89.2	91.6	2.7	70-130	20		
Methyl tert-butyl ether (MTBE)	26.3	25.4	25.0	105.2	101.6	3.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	521	501	500	104.2	100.2		76-114			
Toluene-d8	492	484	500	98.4	96.8		88-110			

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Legend and Notes

Analysis Flag

o

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

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.