



Tesoro Petroleum Companies, Inc.
 Corporate Environmental Affairs
 3450 South 344th Way, Suite 100
 Auburn, WA 98001-5931
 253 896 8700
 253 896 8887 Fax

June 8, 2004

Mr. Scott Seery
 Alameda County Health Care Services Agency
 1131 Harbor Bay Parkway, room 250
 Alameda, California 94502

Case Worker
 Regional Water Quality Control Board
 San Francisco Bay Region
 1515 Clay Street, Suite 1400
 Oakland, California 94612

Mr. Paul Zolfarelli
 Environmental Compliance Inspector
 City of San Leandro
 3000 Davis Street
 San Leandro, CA 94577

**RE: 1088 Marina Blvd. San Leandro, California, First Quarter 2004
 Quarterly Groundwater Monitoring and Remediation System Status Report,
 Former Tesoro Station No. 67106**

Dear Mr. Seery, Mr. Zolfarelli, et al:

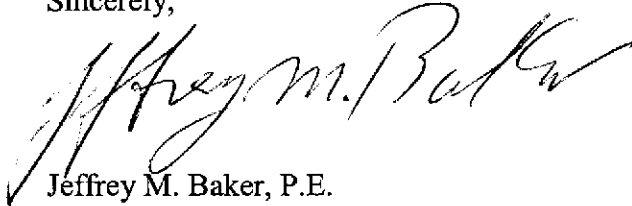
Tesoro Petroleum Companies, Inc., on behalf of Tesoro Environmental Resources Company (retained liability manager for all of Tesoro Petroleum Corporation, formerly liability had been retained by Tesoro Refining and Marketing Company), hereinafter referred to as Tesoro, submits the referenced Quarterly Monitoring Report for your review. Groundwater monitoring data were collected on February 28, 2004. Groundwater flow direction continues to be southwesterly.

The on-site remediation systems consist of soil vapor extraction and treatment (SVE), coupled with air sparging (AS). The SVE/AS systems operated continuously throughout the quarter. The concentration levels for TPHg, BTEX and MTBE in monitoring wells MW-2 through MW-5 and MW-8 remain above acceptable levels. Therefore, Tesoro recommends:

- Implementation of ozone augmented air sparging to mitigate groundwater impacts. Ozone injection appears viable as an enhancement to the existing system. Therefore Tesoro intends to implement an ozone injection-testing program in the second or third quarter 2004, following relocation of ozone injection equipment from another Tesoro site.
- Continue monitoring of groundwater quality and remediation systems performance.

Please review the report and recommendations above and provide project direction. Unless Tesoro is otherwise directed, ozone injection pilot testing will be implemented. Please contact me with any questions or concerns regarding this project at (253) 896-8708. Thank you for your continued cooperation concerning this project.

Sincerely,

A handwritten signature in black ink that reads "Jeffrey M. Baker". The signature is written in a cursive style with a large initial "J" and "B".

Jeffrey M. Baker, P.E.
Supervisor, Environmental
Compliance & Remediation
Tesoro Petroleum Companies, Inc.

Attachment

CC: RDM – Richard Munsch (w/o attachment)
Brian Kelleher – Kelleher & Associates
File – Remediation, San Leandro

Hirbod Enterprises – Owner
Sam Hirbod
111 Deerwood Road, Suite 110
San Ramon, CA 94583



Environmental

1704 Via Riata, Roseville, CA 95747

Tel: (916) 771-7098, FAX : (916) 771-4584

May 13, 2004

Mr. Jeff Baker
Tesoro Petroleum Companies
3450 S. 344th Way Suite 100
Auburn, WA 98001-5931

Subject: *Quarterly Ground Water Monitoring and
Remediation System Status Report, First Quarter 2004*
Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California
RDM Project No. 00-67106

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RDM PROJECT NO. 00-67106

Dear Mr. Baker:

On Behalf of Tesoro Refining and Marketing Company, RDM Environmental (RDM) has prepared the following quarterly ground water monitoring and remediation system status report for the subject site. This report describes quarterly ground water monitoring and remediation system status for the **First Quarter 2004**.

Work Performed During the First Quarter 2004:

- Doulos Environmental Inc. performed ground water sampling on **February 28, 2004**.
- RDM continued operation and maintenance on the remediation system.

STATUS OF GROUND WATER MONITORING

Cumulative ground water sampling information is tabulated in Table 1. A site topographic map, site map, and ground water elevation contour map are shown as Figures 1 through 3, respectively. Analytical isoconcentration maps are presented as Figures 4 through 6. The site history is included in Enclosure A, the quarterly monitoring data sheets are included in Enclosure B and the ground water analytical results are included in Enclosure C. Historical ground water monitoring data is included in Enclosure D.

- Historical ground water flow direction is to the southwest.

STATUS OF REMEDIATION SYSTEM

Operation and maintenance is performed bi-monthly by RDM on a remediation system consisting of soil vapor extraction (SVE) and air sparging components. The ground water extraction system was removed during the system upgrade (November 2003). The process flow diagram for the newly modified remediation system is shown as Figure 7.

Operation & Maintenance Site Visits:

- Operation and maintenance site visits were conducted for the **First Quarter 2004** on:
 - **January 10 and 28, 2004**
 - **February 13 and 29, 2004**
 - **March 15 and 30, 2004**

Ground Water Extraction System Performance:

- The ground water treatment system was removed on October 11, 2003.
- The former ground water treatment system processed approximately **228,500** gallons.

Soil Vapor Extraction System Performance:

- The SVE system operated continuously during the **First Quarter 2004**.
- During the **First Quarter 2004**, the SVE system removed approximately **100** pounds of vapor equivalent gasoline.
- As of **March 15, 2004**, the SVE system has removed approximately **2,902** pounds (**476** gallons) of vapor equivalent gasoline.
- Soil vapor extraction is conducted on MW-1 through MW-5, MW-8, MW-9 and vapor well VW-1.
- The SVE analytical results are included in Table 2 and the SVE performance data is included in Table 3. Remediation system analytical results are included in Enclosure E.

Air Sparging System Performance:

- The air sparge system operated continuously during the **First Quarter 2004**.
- The air sparging system is connected to sparge points SP-1 through SP-6.

CONCLUSIONS/RECOMMENDATIONS

RDM recommends continued operation of the SVE and air sparge systems and quarterly ground water monitoring. With the exception of MW-4 and MW-5, there is a downward trend in petroleum hydrocarbons concentration at this site. RDM recommends adding an ozone generator to the air sparging system and focusing the ozone sparge effort on monitoring wells MW-4 and MW-5. RDM is utilizing an ozone sparge unit on another Tesoro site for closure purposes (polishing activities), and anticipates moving it to this site in the next several quarters.

The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Mr. Jeff Baker
Tesoro Petroleum
May 13, 2004
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RDM recommends a copy of this report be forwarded to the following people.

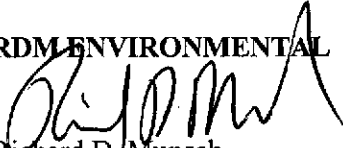
Mr. Scott Seery
Alameda County Health Care Agency
Department of Environmental Health
1131 Harbor Parkway, Room 250
Alameda, CA 94502-6577

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3000 Davis Street
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Case Worker
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

If you have any questions concerning this project, please contact Richard Munsch at (916) 771-7098.

RDM ENVIRONMENTAL


Richard D. Munsch
Project Manager


Michael G. Lee, P.E.
California Registered Civil Engineer No. C055795



RDM (67106 1Q GWM 3-8-04.doc)

Enclosures:

- Enclosure A: Site Background Information
- Enclosure B: Ground Water Sampling Information
- Enclosure C: Ground Water Analytical Results
- Enclosure D: Historical Ground Water Monitoring Data
- Enclosure E: Remediation System Analytical Results

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) ^a	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-1	03/12/98	33.10	11.09	22.01	<0.5	<0.5	5.0	2.8	100	<5.0	NA	No sheen
	05/28/98		11.36	21.74	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		12.61	20.49	<0.5	<0.5	6.4	1.4	130	<5.0	NA	No sheen
	11/19/98		13.84	19.26	0.75	<0.5	<0.5	3.0	120	<5.0	NA	No sheen
	03/15/99		11.95	21.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		13.45	19.65	1.6	1.9	230	110	5,200	<5.0	NA	No sheen
	09/07/99		13.10	20.00	1.0	<0.5	22	15	490	<5.0	NA	No sheen
	12/13/99		14.29	18.81	<2.5	<2.5	170	110	4,100	<25	NA	No sheen
	03/08/00		11.22	21.88	<0.5	<0.5	21	7.7	1,200	150	NA	No sheen
	06/12/00		12.85	20.25	1.5	0.9	160	98	3,000	34	NA	No sheen
	11/15/00	14.19	18.91	<20	<20	470	390	8,500	14,000	NA	No sheen	
	02/27/01	12.35	20.75	5.4	2.6	260	190	6,100	4,300	NA	No sheen	
	05/22/01	14.18	18.92	8.9	13	1,100	1,300	21,000	2,300	NA	No sheen	
	09/05/01	13.70	19.10	<2.0	3.6	600	850	12,000	93	NA	No sheen	
	11/07/01	14.25	18.85	<5.0	<5.0	1,300	1,600	23,000	87	NA	No sheen	
	02/11/02	35.47	13.05	22.42	<0.5	<0.5	140	150	4,500	18	NA	No sheen
	06/03/02		13.31	22.16	<2.5	<2.5	520	460	12,000	12	NA	No sheen
	08/06/02		13.75	21.72	<0.5	<0.5	710	580	22,000	15	NA	No sheen
	11/14/02		14.10	21.37	<5.0	<5.0	300	250	16,000	8.1	ND	No sheen
	02/20/03		12.80	22.67	<1.5	<1.5	130	89	7,300	9.3	ND	No sheen
05/15/03	12.90		22.57	<2.5	<2.5	270	120	14,000	4.7	ND	No sheen	
07/31/03	13.50		21.97	<5.0	<5.0	380	230	18,000	5.2	ND	No sheen	
10/28/03	14.42		21.05	<5.0	<5.0	340	210	17,000	<5.0	ND	No sheen	
02/28/04	12.72		22.75	<2.0	<2.0	140	48	10,000	4.8	ND	No sheen	
MW-2	03/12/98		32.80	10.92	21.88	32	1.0	12	6.5	440	20	NA
	05/28/98	10.41		22.39	<0.5	<0.5	<0.5	<0.5	<50	27	NA	No sheen
	08/31/98	12.29		20.51	9.3	0.95	4.9	8.8	270	20	NA	No sheen
	11/19/98	13.47		19.33	16	0.72	<0.5	4.3	180	7.4	NA	No sheen
	03/15/99	11.95		20.85	12	3.5	59	840	2,400	10	NA	No sheen
	06/07/99	13.11		19.69	21	0.99	6.9	10	690	6.1	NA	No sheen
	09/07/99	12.92		19.88	7.8	1.2	42	100	610	<5.0	NA	No sheen
	12/13/99	13.96		18.84	26	0.93	52	96	3,000	<5.0	NA	No sheen
	03/08/00	10.87		21.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00	12.53		20.27	51	17	170	320	5,500	18	NA	No sheen
	11/15/00	13.96	18.84	75	48	1,200	2,800	16,000	19,000	NA	No sheen	
	02/27/01	12.29	20.51	54	24	320	870	10,000	6,000	NA	No sheen	
	05/22/01	15.51	17.29	12	5.0	79	100	2,400	3,500	NA	No sheen	
	09/05/01	13.75	19.05	120	180	1,500	5,100	34,000	400	NA	No sheen	
	11/07/01	13.99	18.81	87	170	1,400	3,700	32,000	870	NA	No sheen	
	02/11/02	35.11	12.98	22.13	170	250	1,600	4,700	34,000	390	NA	No sheen
	06/03/02		13.24	21.87	130	260	1,700	5,100	29,000	110	NA	No sheen
	08/06/02		13.73	21.38	110	240	1,700	4,700	34,000	84	NA	No sheen
	11/14/02		13.55	21.56	51	150	1,300	3,600	35,000	39	ND	No sheen
	02/20/03		11.80	23.31	67	130	1,100	2,800	23,000	71	ND	No sheen
05/15/03	12.27		22.84	57	110	840	2,300	19,000	43	ND	No sheen	
07/31/03	13.46		21.65	78	210	2,000	5,000	31,000	36	ND	No sheen	
10/28/03	14.09		21.02	59	120	2,000	3,600	32,000	19	ND	No sheen	
02/28/04	12.27		22.84	21	26	520	980	10,000	35	ND	No sheen	

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) ^a	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-3	03/12/98	32.30	10.81	21.49	0.67	<0.5	7.1	3.4	1,200	7.3	NA	No sheen
	05/28/98		11.45	20.85	<0.5	0.5	<0.5	<0.5	350	<5.0	NA	No sheen
	08/31/98		12.21	20.09	<0.5	0.89	0.69	<0.5	240	<5.0	NA	No sheen
	11/19/98		13.26	19.04	5.3	0.72	0.86	4.2	440	<5.0	NA	No sheen
	03/15/99		11.89	20.41	3.3	1.3	0.77	<0.5	410	<5.0	NA	No sheen
	06/07/99		12.91	19.39	<0.5	2.0	<0.5	0.66	680	<5.0	NA	No sheen
	09/07/99		12.81	19.49	<0.5	0.62	<0.5	8.7	150	12	NA	No sheen
	12/13/99		13.75	18.55	<0.5	0.52	<0.5	1.0	830	<5.0	NA	No sheen
	03/08/00		11.39	20.91	0.58	<0.5	0.77	<0.5	960	<5.0	NA	No sheen
	06/12/00		12.58	19.72	1.7	<0.5	46	6.3	1,700	<5.0	NA	No sheen
	11/15/00		13.85	18.45	<200	<200	<200	<200	<20,000	84,000	NA	No sheen
	02/27/01		12.22	20.08	98	<20	130	30	3,500	16,000	NA	No sheen
	05/22/01		13.66	18.64	41	<20	20	<20	<2,000	5,800	NA	No sheen
	09/05/01		13.41	18.89	9.9	1.5	49	8.2	5,300	430	NA	No sheen
	11/07/01		13.85	18.45	9.4	1.8	47	8.8	6,500	1,600	NA	No sheen
	02/11/02	34.84	12.86	21.98	8.9	<2.0	14	<2.0	2,400	530	NA	No sheen
	06/03/02		13.10	21.74	13	0.77	19	0.94	2,100	110	NA	No sheen
	08/06/02		13.52	21.32	25	2.5	12	1.1	2,800	120	NA	No sheen
	11/14/02		13.49	21.35	29	0.89	3.7	<0.5	2,200	420	1.1 ^b , 19 ^c	No sheen
	02/20/03		12.92	21.92	2.5	<0.5	<0.5	<0.5	2,400	340	13 ^c	No sheen
	05/15/03		12.83	22.01	2.0	<0.5	1.2	<0.5	2,100	200	0.85 ^b , 15 ^c	No sheen
	07/31/03		13.44	21.40	1.2	<0.5	<0.5	<0.5	1,600	330	0.81 ^b , 15 ^c	No sheen
	10/28/03		13.92	20.92	1.0	<0.5	<0.5	<0.5	1,600	160	7.1 ^c	No sheen
02/28/04		12.50	22.34	1.2	<0.5	0.74	<0.5	1,400	58	74 ^c	No sheen	
MW-4	03/12/98	32.90	11.31	21.59	2,200	1,500	630	3,000	14,000	440	NA	No sheen
	05/28/98		10.40	22.50	<0.5	0.75	0.68	6.9	67	26	NA	No sheen
	08/31/98		12.54	20.36	1.8	2.5	0.65	3.4	<50	<5.0	NA	No sheen
	11/19/98		13.99	18.91	<0.5	<0.5	<0.5	0.61	<50	17	NA	No sheen
	03/15/99		12.06	20.84	1.2	1.6	0.76	4.5	160	9.3	NA	No sheen
	06/07/99		13.57	19.33	210	370	350	2,000	5,800	<20	NA	No sheen
	09/07/99		10.30	22.60	2.2	2.8	4.8	25	130	12	NA	No sheen
	12/13/99		14.18	18.72	1.3	1.0	1.2	4.8	<50	12	NA	No sheen
	03/08/00		11.77	21.13	78	200	160	750	3,700	11	NA	No sheen
	06/12/00		13.47	19.43	<0.5	<0.5	<0.5	<0.5	<50	24	NA	No sheen
	11/15/00		14.33	18.57	12	38	28	130	710	1,300	NA	No sheen
	02/27/01		14.25	18.65	67	300	310	1,400	6,500	1,000	NA	No sheen
	05/22/01		13.99	18.91	2.1	5.6	4.8	20	130	350	NA	No sheen
	09/05/01		15.75	17.15	110	670	250	1,300	6,200	600	NA	No sheen
	11/07/01		16.10	16.80	40	270	180	940	4,100	110	NA	No sheen
	02/11/02	35.33	15.04	20.29	91	590	620	3,000	14,000	350	NA	No sheen
	06/03/02		13.61	21.72	69	390	190	1,100	4,300	240	NA	No sheen
	08/06/02		15.01	20.32	100	690	570	2,900	13,000	170	NA	No sheen
	11/14/02		13.98	21.35	65	380	550	3,400	20,000	130	ND	No sheen
	02/20/03		13.33	22.00	57	240	650	3,700	18,000	98	ND	No sheen
	05/15/03		13.29	22.04	44	100	200	1,200	8,500	120	21 ^c	No sheen
	07/31/03		13.76	21.57	42	59	250	1,400	11,000	87	ND	No sheen
	10/28/03		14.48	20.85	80	40	130	650	8,100	130	20 ^c	No sheen
02/28/04		12.96	22.37	85	430	570	3,700	17,000	67	ND	No sheen	

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) ^a	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-5	03/12/98	32.70	11.11	21.59	2,600	160	470	2,200	12,000	<250	NA	No sheen
	05/28/98		10.92	21.78	480	99	160	730	4,700	<250	NA	No sheen
	08/31/98		12.79	19.91	200	14	55	220	1,400	180	NA	No sheen
	11/19/98		13.39	19.31	1.4	<0.5	<0.5	<0.5	<50	39	NA	No sheen
	03/15/99		11.71	20.99	320	17	290	780	3,400	33	NA	No sheen
	06/07/99		13.26	19.44	220	8.9	240	290	3,200	<25	NA	No sheen
	09/07/99		9.70	23.00	8.5	<0.5	8.5	12	140	38	NA	No sheen
	12/13/99		14.06	18.64	<0.5	<0.5	<0.5	13	140	<5.0	NA	No sheen
	03/08/00		11.80	20.90	0.66	<0.5	2.5	30	280	<5.0	NA	No sheen
	06/12/00		12.99	19.71	22	1.2	79	170	2,700	6.4	NA	No sheen
	11/15/00		14.23	18.47	36	1.6	180	180	4,500	10	NA	No sheen
	02/27/01		12.66	20.04	33	1.6	160	220	2,800	110	NA	No sheen
	05/22/01		13.58	19.12	49	2.2	180	230	3,200	240	NA	No sheen
	09/05/01		14.05	18.65	28	1.0	100	100	2,400	560	NA	No sheen
	11/07/01		14.32	18.38	<2.0	<2.0	2.1	20	390	590	NA	No sheen
	02/11/02	35.09	13.31	21.78	19	<5.0	59	52	1,200	1,800	NA	No sheen
	06/03/02		13.55	21.54	44	<2.0	150	210	3,200	610	NA	No sheen
	08/06/02		14.10	20.99	42	<2.0	140	150	3,200	820	NA	No sheen
	11/14/02		14.03	21.06	29	1.3	94	100	2,900	560	100 ^c	No sheen
	02/20/03		13.35	21.74	22	<1.0	81	77	2,900	270	170 ^c	No sheen
05/15/03		13.11	21.98	55	1.8	94	85	3,700	220	0.64 ^b , 170 ^b	No sheen	
07/31/03		13.88	21.21	45	1.1	26	19	2,400	200	180 ^c	No sheen	
10/28/03		14.41	20.68	6.8	<0.5	4.4	1.1	570	77	8.0 ^c	No sheen	
02/28/04		12.89	22.20	37	1.4	130	120	3,400	72	32 ^c	No sheen	
MW-6	03/12/98	30.40	10.49	19.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	05/28/98		10.58	19.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		10.85	19.55	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		10.88	19.52	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/15/99		10.83	19.57	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		11.01	19.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	09/07/99		11.89	18.51	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	12/13/99		12.09	18.31	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/08/00		10.02	20.38	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		11.07	19.33	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/15/00		12.34	18.06	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/27/01		10.75	19.65	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	05/22/01		11.55	18.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	09/05/01		12.10	18.30	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/07/01		12.31	18.09	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/11/02	32.74	11.05	21.69	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	06/03/02		11.70	21.40	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	08/06/02		12.28	20.46	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/14/02		12.46	20.28	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/20/03		11.26	21.48	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
05/15/03		11.85	20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen	
07/31/03		11.73	21.01	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen	
10/28/03		12.38	20.36	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen	
02/28/04		11.88	20.86	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen	

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) ^a	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments	
MW-7	03/12/98	31.20	10.14	21.06	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	05/28/98		10.93	20.27	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	08/31/98		12.01	19.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	11/19/98		12.54	18.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	03/15/99		10.94	20.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	06/07/99		12.05	19.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	09/07/99		12.67	18.53	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	12/13/99		12.73	18.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	03/08/00		10.90	20.30	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	06/12/00		12.61	18.59	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	11/15/00		13.06	18.14	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen	
	02/27/01		11.85	19.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen	
	05/22/01		12.31	18.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen	
	09/05/01		12.85	18.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen	
	11/07/01		12.75	18.45	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen	
	02/11/02		33.64	NM	NC	NS	NS	NS	NS	NS	NS	NS	
	06/03/02			12.58	21.06	<0.5	<0.5	<0.5	<0.5	<50	0.95	NA	No sheen
	08/06/02			12.93	20.71	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/14/02			13.04	20.60	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/20/03	12.75		20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen	
	05/15/03	12.45		21.19	<0.5	<0.5	<0.5	<0.5	<50	0.69	ND	No sheen	
07/31/03	12.80	20.84		<0.5	<0.5	<0.5	<0.5	<50	0.65	ND	No sheen		
10/28/03	NM	NC		NS	NS	NS	NS	NS	NS	NS	NS	No sheen	
02/28/04	12.21	21.43		<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen		
MW-8	03/12/98	33.80		11.81	21.99	1.4	<0.5	<0.5	<0.5	72	<5.0	NA	No sheen
	05/28/98		12.14	21.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	08/31/98		13.16	20.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	11/19/98		14.56	19.24	510	24	1,200	2,800	14,000	<5.0	NA	No sheen	
	03/15/99		12.40	21.40	160	16	910	2,100	14,000	<50	NA	No sheen	
	06/07/99		14.06	19.74	330	14	470	880	7,800	<50	NA	No sheen	
	09/07/99		14.01	19.79	150	2.6	260	370	3,200	<5.0	NA	No sheen	
	12/13/99		14.91	18.89	35	<5.0	280	730	6,700	<50	NA	No sheen	
	03/08/00		11.85	21.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen	
	06/12/00		13.59	20.21	4.0	<0.5	4.9	2.1	140	<5.0	NA	No sheen	
	11/15/00		14.94	18.86	2.0	<0.5	3.1	2.6	100	110	NA	No sheen	
	02/27/01		NM	NC	NS	NS	NS	NS	NS	NS	NS	NA	Tank Over Well
	05/22/01		NM	NC	NS	NS	NS	NS	NS	NS	NS	NA	Tank Over Well
	09/05/01		14.68	19.12	160	<2.0	200	330	4,800	850	NA	No sheen	
	11/07/01		15.10	18.70	1.1	<1.0	2.0	6.1	<100	590	NA	No sheen	
	02/11/02		36.08	14.06	22.02	7.9	<5.0	16	22	<500	1,700	NA	No sheen
	06/03/02			14.25	21.83	20.0	<2.0	19	35	550	650	NA	No sheen
	08/06/02			14.55	21.53	220	<2.0	170	280	4,800	1,000	NA	No sheen
	11/14/02			14.73	21.35	250	<2.5	160	220	4,800	1,200	47°	No sheen
	02/20/03	13.81		22.27	17	<1.0	19	42	760	520	16°	No sheen	
	05/15/03	13.68		22.40	14	<0.5	16	23	690	370	0.79 ^b , 10°	No sheen	
07/31/03	14.54	21.54		29	<1.0	15	18	700	380	36°	No sheen		
10/28/03	15.09	20.99		87	<1.0	34	40	2,000	490	130°	No sheen		
02/28/04	13.45	22.63		21	<0.5	15	49	1,100	200	110°	No sheen		

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) ^a	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-9	03/12/98	32.56	10.93	21.63	320	23	180	720	3,700	190	NA	No sheen
	05/28/98		11.31	21.25	110	6.4	87	300	2,200	220	NA	No sheen
	08/31/98		12.16	20.40	240	23	690	1,900	11,000	<50	NA	No sheen
	11/19/98		11.04	21.52	7.7	<0.5	10	22	280	67	NA	No sheen
	03/15/99		11.81	20.75	<0.5	<0.5	<0.5	1.2	<50	<5.0	NA	No sheen
	06/07/99		12.21	20.35	9.3	0.86	9.7	12	340	<5.0	NA	No sheen
	09/07/99		10.10	22.46	0.76	<0.5	1.9	0.8	72	9.9	NA	No sheen
	12/13/99		13.64	18.92	<0.5	<0.5	<0.5	<0.5	60	<5.0	NA	No sheen
	03/08/00		10.88	21.68	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.50	20.06	0.9	<0.5	2.7	1.3	640	10	NA	No sheen
	11/15/00		13.60	18.96	<0.5	<0.5	0.69	<0.5	200	12	NA	No sheen
	02/27/01		12.15	20.41	0.61	<0.5	2.2	1.2	360	42	NA	No sheen
	05/22/01		13.20	19.36	0.57	<0.5	2.1	0.61	330	290	NA	No sheen
	09/05/01		13.10	19.46	<2.0	<2.0	<2.0	<2.0	<200	1,100	NA	No sheen
	11/07/01		13.85	18.71	1.0	<1.0	<1.0	<1.0	230	510	NA	No sheen
	02/11/02	34.63	12.98	21.65	<0.5	<0.5	<0.5	<0.5	<50	41	NA	No sheen
	06/03/02		12.48	22.15	<0.5	<0.5	<0.5	<0.5	<50	55	NA	No sheen
	08/06/02	34.63	13.16	21.47	<0.5	<0.5	<0.5	<0.5	<50	65	NA	No sheen
	11/14/02		13.15	21.48	<0.5	<0.5	<0.5	<0.5	<50	47	ND	No sheen
	02/20/03		12.46	22.17	<0.5	<0.5	<0.5	<0.5	<50	28	ND	No sheen
05/15/03		12.26	22.37	<0.5	<0.5	<0.5	<0.5	<50	8.9	ND	No sheen	
07/31/03		12.94	21.69	<0.5	<0.5	<0.5	<0.5	<50	0.85	ND	No sheen	
10/28/03		13.83	20.80	<0.5	<0.5	<0.5	<0.5	<50	0.76	ND	No sheen	
02/28/04		12.59	22.04	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen	

a =Referenced to mean sea level.

b =tert-amyl methyl ether

c = tert-butanol

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.

Oxygenates = methyl-t-butyl ether, diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol, 1,2-dichloroethane, 1,2-dibromoethane

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl- benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	06/05/97	3.2	0.72	1.2	2.5	220	NA
Effluent	06/05/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/03/97	0.30	0.67	0.23	1.8	86	NA
Effluent	07/03/97	<0.05	0.054	<0.05	0.13	<5.0	NA
Influent	07/22/97	0.76	1.6	0.92	5.3	270	NA
Effluent	07/22/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/07/97	2.0	1.3	0.53	2.7	130	NA
Effluent	08/07/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/04/97	1.8	0.73	1.3	5.9	190	NA
Effluent	09/04/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/24/97	0.49	0.52	0.35	2.3	54	NA
Effluent	10/24/97	<0.05	<0.05	<0.05	0.057	<5.0	NA
Effluent	11/26/97	0.094	0.089	<0.05	0.062	5.3	NA
Influent	12/10/97	<0.05	0.44	0.076	0.37	5.8	NA
Effluent	12/10/97	<0.05	0.062	<0.05	<0.05	<5.0	NA
Influent	12/12/97	0.59	0.17	0.49	2.0	26	NA
Effluent	12/12/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/12/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/12/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/23/98	0.18	0.32	0.072	0.47	18	NA
Mid-Carbon	04/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	04/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/07/98	0.067	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/07/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/07/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/21/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/11/98	<0.05	0.06	<0.05	0.071	<5.0	NA
Mid-Carbon	08/11/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	08/11/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
 Former Beacon Station No. 3720
 1088 Marina Boulevard
 San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/10/98	0.16	0.46	0.062	0.20	16	NA
Mid-Carbon	09/10/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/10/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/23/98	0.16	0.32	<0.05	0.20	9.4	NA
Mid-Carbon	09/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/20/98	0.63	0.19	0.062	0.17	28	NA
Mid-Carbon	10/20/98	0.79	0.37	<0.05	0.088	48	NA
Effluent	10/20/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/26/97	0.13	0.43	0.072	0.35	9.2	NA
Influent	12/08/99	0.73	2.2	0.15	0.71	43	NA
Mid-Carbon	12/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/13/99	0.068	0.057	<0.05	0.095	6.5	NA
Mid-Carbon	01/13/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/13/99	<0.05	<0.05	<0.05	<0.05	5.4	NA
Effluent	01/28/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/10/99	1.1	1.2	0.071	0.28	56	NA
Mid-Carbon	02/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/10/99	0.070	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/10/99	0.069	<0.05	<0.05	<0.05	28	NA
Effluent	03/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/07/99	0.22	0.078	<0.05	0.060	17	NA
Influent	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/12/99	0.16	0.77	<0.05	0.18	11	NA
Mid-Carbon	07/12/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/12/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/09/99	0.092	1.0	0.20	0.94	12	NA
Mid-Carbon	08/09/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	08/09/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl- benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/07/99	0.069	0.41	0.07	0.38	16	NA
Mid-Carbon	09/07/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/07/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/12/99	0.96	8.6	1.1	4.7	150	NA
Mid-Carbon	10/12/99	<0.05	<0.05	<0.05	0.064	<5.0	NA
Effluent	10/12/99	<0.05	<0.05	<0.05	0.063	<5.0	NA
Influent	11/17/99	0.22	1.9	0.32	1.7	21	NA
Mid-Carbon	11/17/99	0.067	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/17/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/28/99	1.2	22	2.4	12	570	NA
Mid-Carbon	12/28/99	0.052	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/28/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/12/00	0.45	1.7	0.18	1.0	110	NA
Mid-Carbon	01/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/26/00	0.059	0.77	0.19	1.1	14	NA
Mid-Carbon	01/26/00	0.20	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/26/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/06/00	0.095	1.4	0.18	0.87	22	NA
Mid-Carbon	02/06/00	0.20	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/06/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/09/00	0.45	3.1	0.52	2.8	59	NA
Mid-Carbon	02/09/00	0.18	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/09/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/16/00	0.10	3.5	0.54	4.1	46	NA
Mid-Carbon	03/16/00	0.83	0.31	<0.05	<0.05	22	NA
Effluent	03/16/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/04/00	0.17	1.9	0.29	2.0	23	NA
Mid	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl- benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	05/12/00	<0.05	0.059	<0.05	0.091	<5.0	NA
Mid	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/19/00	<0.05	0.12	<0.05	<0.05	<5.0	NA
Mid	06/19/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/19/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/25/00	2.4	8.1	0.80	3.5	140	NA
Mid	07/25/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	07/25/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	07/25/00	2.4	8.1	0.80	3.5	140	NA
Mid	07/25/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	07/25/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	08/09/00	2.4	8.1	0.80	3.5	140	NA
Mid	08/09/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	08/09/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	09/06/00	2.4	8.1	0.80	3.5	140	NA
Mid	09/06/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	09/06/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	10/17/00	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid	10/17/00	<0.050	0.07	<0.050	<0.050	<5.0	NA
Effluent	10/17/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/00	<0.05	0.24	0.08	0.29	<5.0	NA
Mid	11/29/00	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
 Former Beacon Station No. 3720
 1088 Marina Boulevard
 San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid	03/01/01	<0.05	0.053	<0.05	<0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.053	<0.05	0.13	<5.0	NA
Influent	10/17/2000	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid-Carbon	10/17/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	10/17/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/2000	<0.05	0.24	0.08	0.29	<5.0	NA
Mid-Carbon	11/29/2000	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid-Carbon	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid-Carbon	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid-Carbon	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid-Carbon	03/01/01	<0.05	0.053	<0.05	0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.11	<0.05	0.13	<5.0	NA
Influent	04/18/01	0.1	0.63	0.12	0.56	18	NA
Mid-Carbon	04/18/01	<0.05	<0.05	<0.05	0.078	<5.0	NA
Effluent	04/18/01	<0.05	<0.05	<0.05	0.11	<5.0	NA
Influent	05/21/01	0.088	1.0	0.31	1.5	20	NA
Mid-Carbon	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/05/01	0.15	1.5	0.36	1.6	24	NA
Mid-Carbon	06/05/01	<0.05	0.053	<0.05	0.098	9.1	NA
Effluent	06/05/01	<0.05	<0.05	<0.05	<0.05	5.6	NA
Influent	07/16/01	<0.05	0.11	<0.05	0.14	<5.0	NA
Mid-Carbon	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
 Former Beacon Station No. 3720
 1088 Marina Boulevard
 San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	08/24/01	0.15	1.1	0.16	0.71	19	NA
Mid-Carbon	08/24/01	<0.05	0.055	<0.05	<0.05	<5.0	NA
Effluent	08/24/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/06/01	0.28	1.8	0.38	1.6	37	NA
Mid-Carbon	09/06/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/06/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/23/01	0.11	0.17	<0.05	0.10	<5.0	NA
Mid-Carbon	11/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/13/01	0.076	0.16	<0.05	0.063	<5.0	NA
Mid-Carbon	12/13/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/13/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/29/02	<0.05	0.12	<0.05	0.067	<5.0	NA
Mid-Carbon	01/29/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/29/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/20/02	0.054	0.12	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/18/02	<0.05	0.076	<0.05	0.092	<5.0	0.16
Mid-Carbon	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.1
Effluent	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.32
Influent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/13/02	<0.05	0.07	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.2
Mid-Carbon	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.94
Effluent	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	1.5

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/23/02	<0.05	0.19	<0.05	0.12	<5.0	1.2
Mid-Carbon	09/23/02	<0.05	<0.05	<0.05	<0.05	<5.0	1.9
Effluent	09/23/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.0
Influent	10/21/02	<0.05	0.46	0.068	0.33	7.3	0.93
Mid-Carbon	10/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	10/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	11/24/02	0.064	0.8	0.11	0.56	12	2.3
Mid-Carbon	11/24/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	11/24/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	12/20/02	0.18	2.6	0.34	1.4	27	4.7
Mid-Carbon	12/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.63
Effluent	12/20/02	<0.05	0.13	<0.05	0.052	<5.0	0.24
Influent	01/29/03	<0.05	0.11	<0.05	0.071	<5.0	NA
Mid-Carbon	01/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/20/03	<0.05	0.19	<0.05	0.17	<5.0	0.61
Mid-Carbon	02/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	02/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	03/20/03	<0.05	0.12	<0.05	0.11	<5.0	0.59
Mid-Carbon	03/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	03/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	04/22/03	<0.05	0.15	0.067	0.44	5.6	1.1
Mid-Carbon	04/22/03	<0.05	<0.05	<0.05	<0.05	<5.0	1.6
Effluent	04/22/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.91
Influent	05/29/03	<0.05	0.094	<0.05	0.084	<5.0	0.96
Mid-Carbon	05/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	3.3
Effluent	05/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.85
Influent	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	2.2
Mid-Carbon	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.55
Effluent	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.50
Influent	07/21/03	<0.05	0.077	<0.05	<0.05	<5.0	3.2
Mid-Carbon	07/21/03	0.064	<0.05	<0.05	<0.05	<5.0	1.2
Effluent	07/21/03	<0.05	<0.05	<0.05	<0.05	<5.0	2.0
Influent	08/20/03	0.18	1.0	0.095	0.58	23	2.3
Mid-Carbon	08/20/03	0.058	<0.05	<0.05	<0.05	<5.0	1.9
Effluent	08/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	11/26/03	0.86	9.5	1.2	5.4	210	4.9
Mid-Carbon	11/26/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	11/26/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
 Former Beacon Station No. 3720
 1088 Marina Boulevard
 San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl- benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	12/29/03	0.21	4.1	0.68	4.1	69	<0.05
Mid-Carbon	12/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	12/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	01/28/04	0.13	1.7	0.31	1.4	29	<0.10
Mid-Carbon	01/28/04	<0.05	0.078	<0.05	0.36	<5.0	<0.10
Effluent	01/28/04	<0.05	0.092	0.061	0.49	<5.0	<0.10
Influent	02/29/04	0.12	0.91	0.29	2.0	24	<0.10
Mid-Carbon	02/29/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	02/29/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	03/15/04	0.13	0.72	0.15	0.88	15	<0.05
Mid-Carbon	03/15/04	<0.05	<0.05	<0.05	0.056	<5.0	<0.05
Effluent	03/15/04	<0.05	<0.05	<0.05	0.38	<5.0	<0.05

TPH = Total petroleum hydrocarbons.

MTBE = methyl -t-butyl ether

mg/L = Micrograms per liter.

ppmv = parts per million by volume.

**TABLE 3
SVE SYSTEM THROUGHPUT CALCULATIONS**

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent	Effluent	TPH		Benzene		TPH		TPH	TPH	Benzene	Benzene	FID or LAB	Cumulative	Cumulative	Total Hours	Change in hours of operation
	Flow Rate (ft ³ /min)	Flow Rate (ft ³ /min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	Extraction Rate (lbs/day)	Mass Emission (lbs/day)	Extraction Rate (lbs/day)	Emission Rate (lbs/day)		TPH Extraction (lbs)	TPH Extraction (gallons)		
08/18/98	---	---	---	---	---	---	---	---	---	---	---	---	---	1,715	---	---	---
09/10/98	98	98	16	<5.0	0.16	<0.05	NC	NC	0.50	< 0.16	0.005	< 0.002	LAB	1,721	282	2,587	552
09/23/98	98	98	9.4	<5.0	0.16	<0.05	NC	NC	0.29	< 0.16	0.005	< 0.002	LAB	1,726	283	2,907	320
10/20/98	59	59	28	<5.0	0.63	<0.05	NC	NC	0.53	< 0.09	0.012	< 0.001	LAB	1,727	283	2,962	55
12/08/98	49	49	43	<5.0	0.73	<0.05	NC	NC	0.67	< 0.08	0.011	< 0.001	LAB	1,727	283	3,803	0*
01/13/99	49	49	6.5	5.4	0.068	<0.05	16.9	NC	0.10	0.08	0.001	< 0.001	LAB	1,738	285	4,495	692
02/10/99	44	44	56	<5.0	1.1	<0.05	NC	NC	0.79	< 0.07	0.016	< 0.001	LAB	1,738	285	4,496	1
03/10/99	15	15	<5.0	<5.0	0.07	<0.05	NC	NC	< 0.02	< 0.02	0.001	< 0.001	LAB	1,750	287	5,172	676
06/08/99	35	35	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	1,750	287	5,173	1
07/12/99	39	39	11	<5.0	0.16	<0.05	NC	NC	0.14	< 0.06	0.002	< 0.001	LAB	1,753	287	5,982	809
08/04/99	39	39	12	<5.0	0.092	<0.05	NC	NC	0.15	< 0.06	0.001	< 0.001	LAB	1,756	288	6,534	552
09/07/99	39	39	16	<5.0	0.069	<0.05	NC	NC	0.20	< 0.06	0.001	< 0.001	LAB	1,762	289	7,351	817
10/12/99	54	54	150	<5.0	0.96	<0.05	NC	NC	2.59	< 0.09	0.015	< 0.001	LAB	1,772	290	7,998	167**
11/17/99	49	49	21	<5.0	0.22	<0.05	NC	NC	0.33	< 0.08	0.003	< 0.001	LAB	1,825	299	8,866	868
12/28/00	49	49	570	<5.0	1.2	<0.05	NC	NC	8.96	< 0.08	0.017	< 0.001	LAB	1,825	299	8,867	1
01/12/00	79	79	110	<5.0	0.45	<0.05	NC	NC	2.77	< 0.13	0.010	< 0.001	LAB	1,907	313	9,202	335
01/26/00	79	79	14	<5.0	0.059	<0.05	NC	NC	0.35	< 0.13	0.001	< 0.001	LAB	1,929	316	9,540	338
02/09/00	79	79	59	<5.0	0.45	<0.05	NC	NC	1.48	< 0.13	0.010	< 0.001	LAB	1,933	317	9,662	122
03/16/00	79	79	46	<5.0	0.1	<0.05	NC	NC	1.16	< 0.13	0.002	< 0.001	LAB	1,981	325	10,525	863
04/04/00	41	41	23	<5.0	0.17	<0.05	NC	NC	0.30	< 0.07	0.002	< 0.001	LAB	1,981	325	10,526	2
05/12/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	1,986	326	11,164	638
06/19/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	1,988	326	12,071	907
07/11/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	1,990	326	12,601	530
07/25/00	41	41	140	< 5.4	2.4	<0.05	96.1	NC	1.85	0.07	0.029	< 0.001	LAB	2,003	328	12,937	336
08/09/00	41	41	2200	<5.0	25	<0.05	NC	NC	29.05	< 0.07	0.299	< 0.001	LAB	2,004	329	12,938	1
09/06/00	41	41	6.8	<5.0	<0.05	<0.05	NC	NC	0.09	< 0.07	< 0.001	< 0.001	LAB	2,409	395	13,606	668

TABLE 3
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow	Effluent Flow	TPH	TPH	Benzene	Benzene	TPH	Benzene	TPH	TPH	Benzene	Benzene	FID or LAB	Cumulative	Cumulative	Total Hours	Change in hours of operation
	Rate (ft ³ /min)	Rate (ft ³ /min)	Influent (ppmv)	Effluent (ppmv)	Influent (ppmv)	Effluent (ppmv)	Removal (%)	Removal (%)	Extraction Rate (lbs/day)	Mass Emission (lbs/day)	Extraction Rate (lbs/day)	Emission Rate (lbs/day)		TPH Extraction (lbs)	TPH Extraction (gallons)		
10/17/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.06	<0.06	<0.001	<0.001	LAB	2,411	395	14,054	448
11/29/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.06	<0.06	<0.001	<0.001	LAB	2,414	396	15,062	1,008
12/07/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.06	<0.06	<0.001	<0.001	LAB	2,414	396	15,328	266
01/19/01	87	87	17.0	<5.0	0.12	<0.05	NC	NC	0.47	<0.14	0.003	<0.001	LAB	2,425	397	16,259	931
02/23/01	67	67	32.0	<5.0	0.19	<0.05	NC	NC	0.69	<0.11	0.004	<0.001	LAB	2,445	401	17,096	837
03/01/01	60	60	18.0	<5.0	0.097	<0.05	NC	NC	0.35	<0.10	0.002	<0.001	LAB	2,448	401	17,247	151
04/18/01	62	62	18.0	<5.0	0.1	<0.05	NC	NC	0.36	<0.10	0.002	<0.001	LAB	2,465	404	18,396	1,149
05/21/01	65	65	20.0	<5.0	0.088	<0.05	NC	NC	0.42	<0.10	0.002	<0.001	LAB	2,477	406	19,160	764
06/05/01	78	78	24.0	<5.0	0.15	<0.05	NC	NC	0.60	<0.12	0.003	<0.001	LAB	2,485	407	19,514	354
07/16/01	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.06	<0.06	<0.001	<0.001	LAB	2,494	409	20,157	643
08/24/01	45	45	19.0	<5.0	0.15	<0.05	NC	NC	0.27	<0.07	0.002	<0.001	LAB	2,500	410	21,098	941
09/06/01	50	50	37.0	<5.0	0.28	<0.05	NC	NC	0.59	<0.08	0.004	<0.001	LAB	2,506	411	21,406	308
11/23/01	60	60	<5.0	<5.0	0.11	<0.05	NC	NC	<0.10	<0.10	0.002	<0.001	LAB	2,518	413	22,246	840
12/13/01	65	65	<5.0	<5.0	0.076	<0.05	NC	NC	<0.10	<0.10	0.001	<0.001	LAB	2,520	413	22,728	482
01/29/02	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.10	<0.10	<0.001	<0.001	LAB	2,525	414	23,850	1,122
03/20/02	65	65	<5.0	<5.0	0.054	<0.05	NC	NC	<0.10	<0.10	0.001	<0.001	LAB	2,530	415	25,054	1,204
04/18/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.10	<0.10	<0.001	<0.001	LAB	2,533	415	25,743	689
05/13/02	64	65	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.10	<0.10	<0.001	<0.001	LAB	2,535	416	26,358	615
06/13/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.10	<0.10	<0.001	<0.001	LAB	2,538	416	27,071	713
07/22/02	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.11	<0.11	<0.001	<0.001	LAB	2,543	417	28,027	956
08/21/02	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.11	<0.11	<0.001	<0.001	LAB	2,546	417	28,750	722
09/23/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.10	<0.10	<0.001	<0.001	LAB	2,549	418	29,536	787
10/21/02	69	69	7.3	<5.0	<0.05	<0.05	NC	NC	0.16	<0.11	<0.001	<0.001	LAB	2,553	419	30,212	676
11/24/02	70	70	12.0	<5.0	0.064	<0.05	NC	NC	0.27	<0.11	0.001	<0.001	LAB	2,560	420	31,024	812
12/20/02	62	62	27.0	<5.0	0.18	<0.05	NC	NC	0.54	<0.10	0.003	<0.001	LAB	2,571	421	31,654	630
01/29/03	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.10	<0.10	<0.001	<0.001	LAB	2,584	424	32,613	959
02/20/03	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.11	<0.11	<0.001	<0.001	LAB	2,586	424	33,138	525
03/20/03	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	<0.10	<0.10	<0.001	<0.001	LAB	2,587	424	33,426	288
04/22/03	65	65	5.6	<5.0	<0.05	<0.05	NC	NC	0.12	<0.10	<0.001	<0.001	LAB	2,593	425	34,600	1,175

**TABLE 3
SVE SYSTEM THROUGHPUT CALCULATIONS**

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow	Effluent Flow	TPH	TPH	Benzene	Benzene	TPH	Benzene	TPH	TPH	Benzene	Benzene	FID or LAB	Cumulative	Cumulative	Total Hours	Change in hours of operation
	Rate (ft ³ /min)	Rate (ft ³ /min)	Influent (ppmv)	Effluent (ppmv)	Influent (ppmv)	Effluent (ppmv)	Removal (%)	Removal (%)	Extraction Rate (lbs/day)	Mass Emission (lbs/day)	Extraction Rate (lbs/day)	Emission Rate (lbs/day)		TPH Extraction (lbs)	TPH Extraction (gallons)		
05/29/03	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	2,597	426	35,480	880
06/10/03	64	64	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	2,598	426	35,776	296
07/21/03	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	2,602	427	36,760	984
08/20/03	61	61	23.0	<5.0	0.18	<0.05	NC	NC	0.45	< 0.10	0.003	< 0.001	LAB	2,610	428	37,485	726
11/26/03	82	82	210.0	<5.0	0.86	<0.05	NC	NC	5.51	< 0.13	0.020	< 0.001	LAB	2,664	437	37,916	431
12/29/03	118	118	69.0	<5.0	0.21	<0.05	NC	NC	2.61	< 0.19	0.007	< 0.002	LAB	2,802	459	38,732	816
01/28/04	120	120	29.0	<5.0	0.13	<0.05	NC	NC	1.11	< 0.19	0.005	< 0.002	LAB	2,858	469	39,452	720
02/29/04	119	119	24.0	<5.0	0.12	<0.05	NC	NC	0.91	< 0.19	0.004	< 0.002	LAB	2,890	474	40,220	768
03/15/04	121	121	15.0	<5.0	0.13	<0.05	NC	NC	0.58	< 0.19	0.005	< 0.002	LAB	2,902	476	40,580	360

* The system was running on ambient air, thus change in hours are zero.

** The system was running on ambient air from 9/22/99 to 10/12/99, the change in hours only represents time the system was extracting soil vapor.

NC = Not Calculated



T.3.S.

R.3.W.

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 SAN LEANDRO, CA
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION

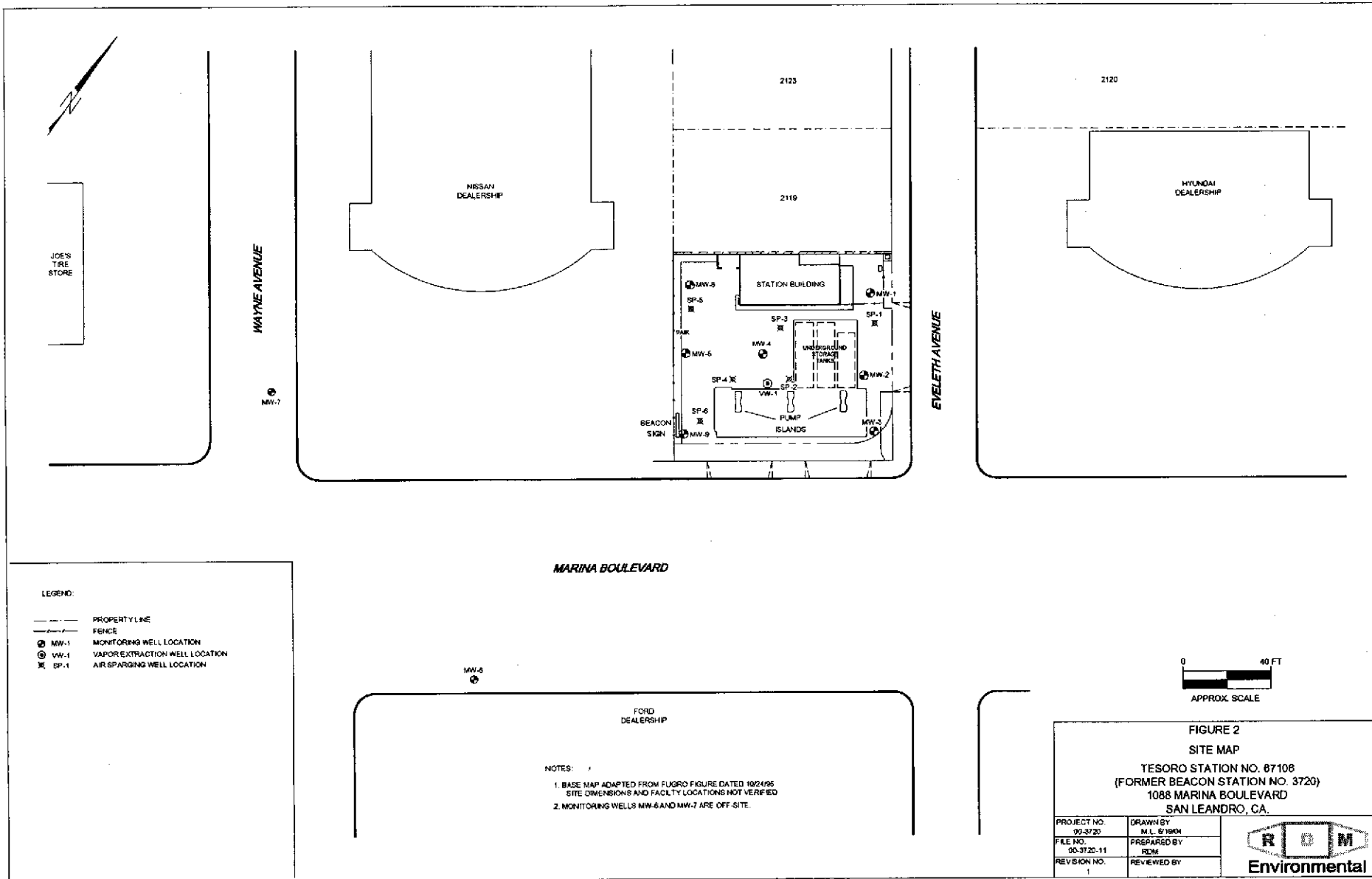


SCALE 1:24,000

FIGURE 1
 SITE LOCATION MAP
 TESORO STATION NO. 67106
 (FORMER BEACON STATION NO. 3720)
 1088 MARINA BOULEVARD
 SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 12/18/01
FILE NO. 00-3720-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

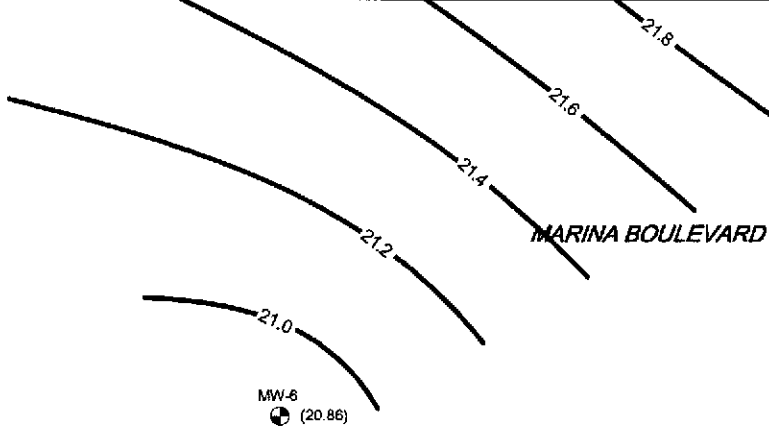
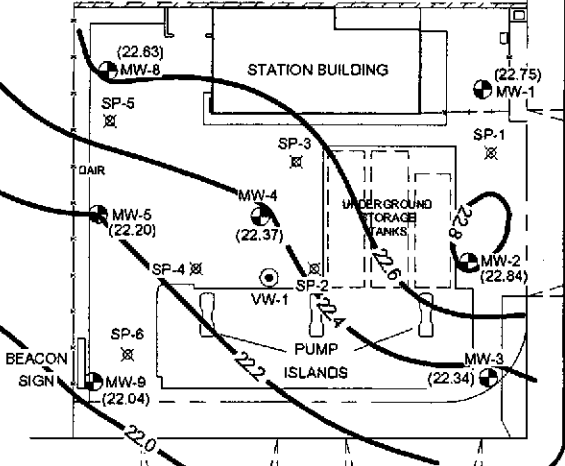




WAYNE AVENUE

MW-7
(21.43)

NISSAN
DEALERSHIP



INFERRED DIRECTION OF
GROUND WATER FLOW

MW-6
(20.86)

MARINA BOULEVARD

LEGEND:

- PROPERTY LINE
- x-x- FENCE
- ⊕ MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
- ⊗ SP-1 AIR SPARGING WELL LOCATION
- (22.75) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
- 21.6— WATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL



FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
2/28/04
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

NOTES:

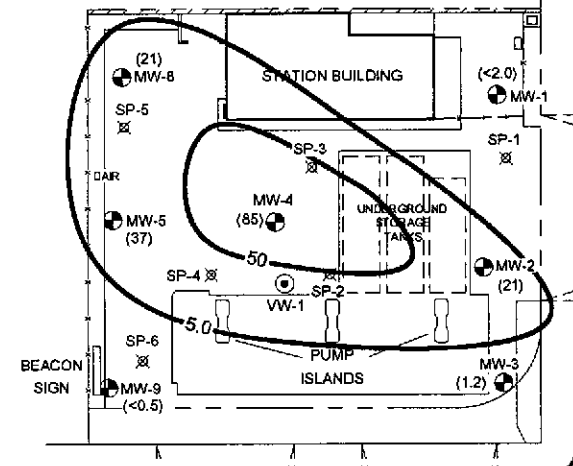
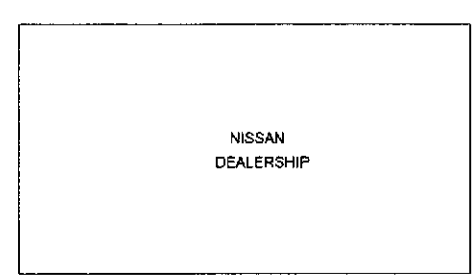
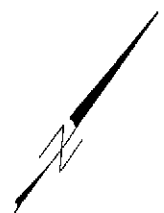
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/96. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

PROJECT NO. 00-3720	DRAWN BY M.L. 5/6/04
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



WAYNE AVENUE

MW-7
(<0.5)

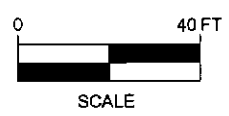


MARINA BOULEVARD

MW-6
(<0.5)



- LEGEND:
- PROPERTY LINE
 - FENCE
 - MW-1 MONITORING WELL LOCATION
 - ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
 - ⊗ SP-1 AIR SPARGING WELL LOCATION
 - (85) BENZENE CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
 - 5.0— BENZENE ISOCONCENTRATION CONTOUR



- NOTES:
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
 2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

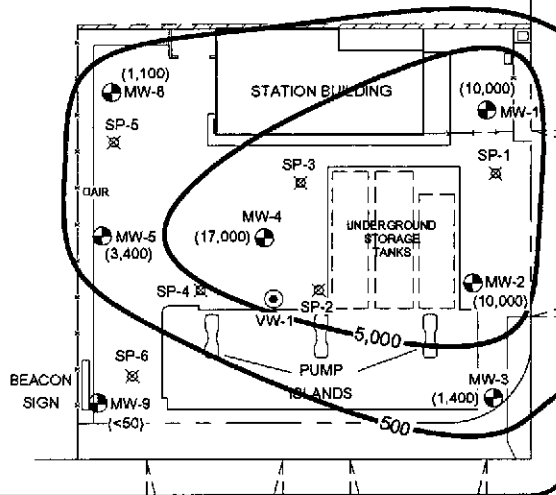
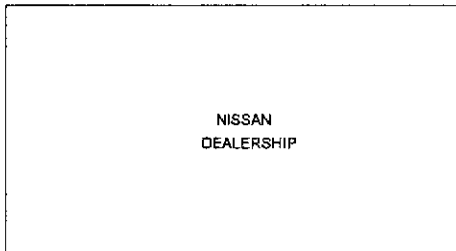
FIGURE 4
 BENZENE ISOCONCENTRATION MAP
 2/28/04
 TESORO STATION NO. 67106
 (FORMER BEACON STATION NO. 3720)
 1088 MARINA BOULEVARD
 SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 5/6/04
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



WAYNE AVENUE

(<50)
MW-7

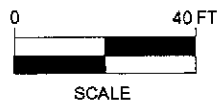


MARINA BOULEVARD

MW-6
(<50)

LEGEND:

- PROPERTY LINE
- FENCE
- ⊕ MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
- ⊗ SP-1 AIR SPARGING WELL LOCATION
- (17,000) TPHg CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- 500— TPHg ISOCONCENTRATION CONTOUR



NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/96. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

FIGURE 5
TPHg ISOCONCENTRATION MAP
2/28/04

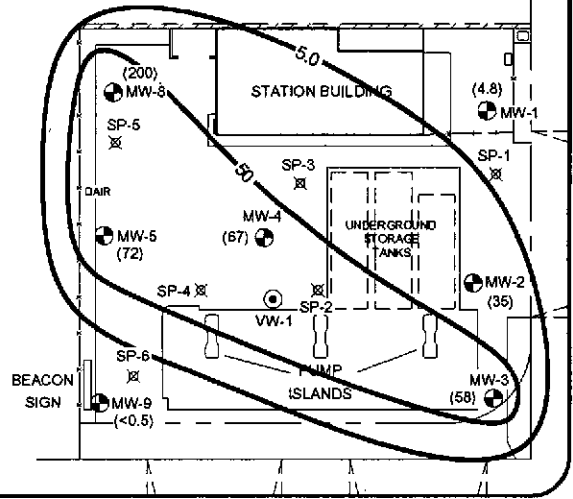
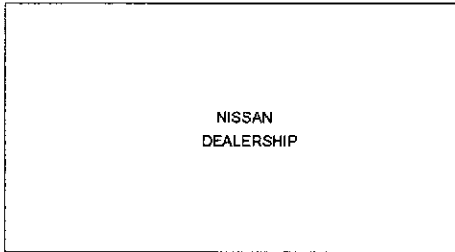
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 5/6/04
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



WAYNE AVENUE

(<0.5)
MW-7

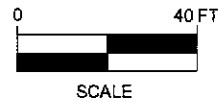


MARINA BOULEVARD

MW-6
(<0.5)

LEGEND:

- PROPERTY LINE
- x-x- FENCE
- MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
- ⊗ SP-1 AIR SPARGING WELL LOCATION
- (200) MTBE CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- 5.0— MTBE ISOCONCENTRATION CONTOUR



NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

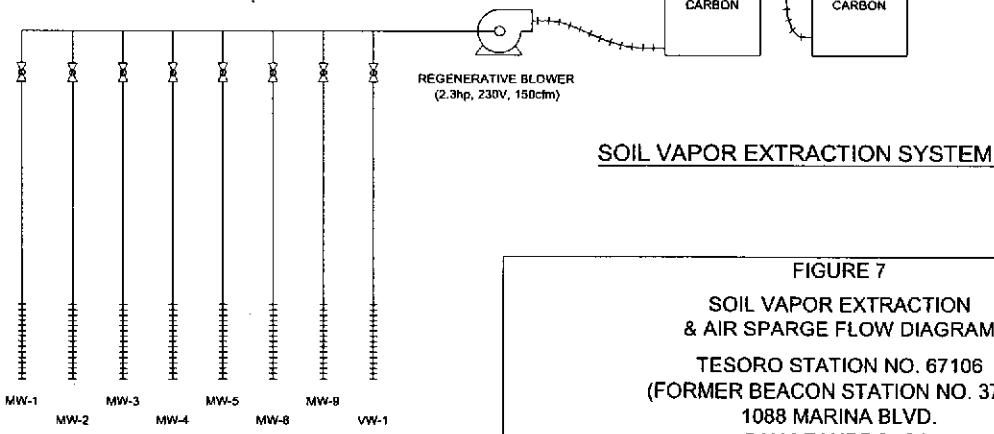
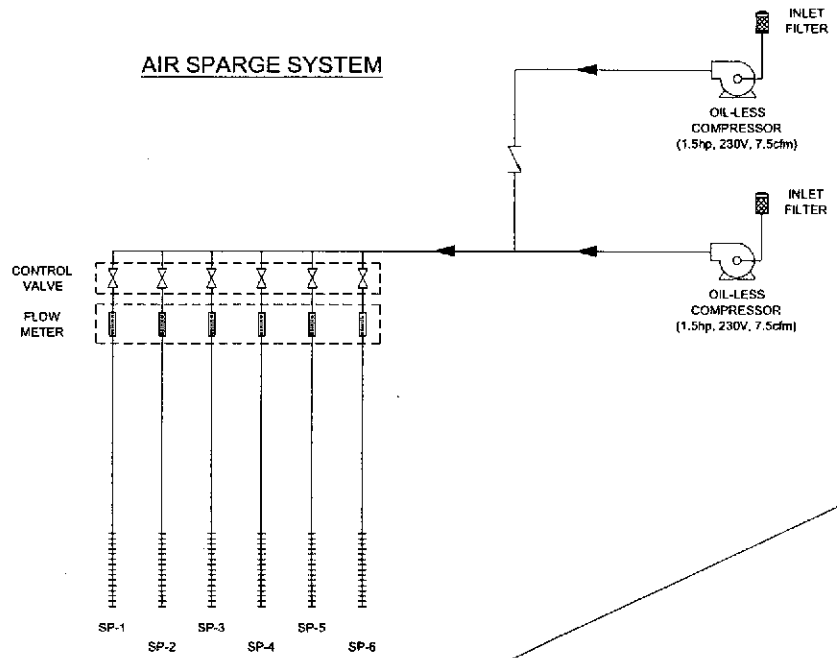
FIGURE 6
MTBE ISOCONCENTRATION MAP
2/28/04

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 6/6/04
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY




AIR SPARGE SYSTEM



SOIL VAPOR EXTRACTION SYSTEM

FIGURE 7
SOIL VAPOR EXTRACTION
& AIR SPARGE FLOW DIAGRAM
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BLVD.
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 2/18/04	 Environmental
FILE NO. 00-3720-10	PREPARED BY RDM	
REVISION NO. 1	REVIEWED BY	

HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

PREVIOUS OWNER

- January 1987 - Three underground gasoline storage tanks and one waste oil tank were excavated and removed from two tank cavities. Samples collected from beneath the former tanks indicated that hydrocarbons were present in the soil.
- March 1987 - Five monitoring wells (MW-1 through MW-5) were installed by Conoco. Hydrocarbons were detected in soil and ground-water samples collected from the wells with the highest concentrations being detected in the area of MW-4.
- July 1987 - Four soil borings were drilled in the vicinity of MW-4 to further characterize the soil contamination in that area. TPH concentrations above 100 ppm were detected in each boring. The site has been on a monitoring program since June 1987.

ULTRAMAR INC.

- July 1990 - The site was purchased by Ultramar Inc. from Conoco. The monitoring program has continued.
- August 1991 - A shallow ground water study was performed as a screening tool to locate wells.
- October 1991 - Three additional wells were installed to further define the extent of the dissolved hydrocarbon plume.
- October 1993 - Performed a ground-water pump test, a vapor extraction test, and an air-sparging test.
- May 1994 - A Problem Assessment Report/Remedial Action Plan was submitted.
- December 1994 - One additional monitoring well, six air sparging points and one vapor extraction well were installed.
- June 1997 - Began operation of vapor extraction system.
- July 1997 - The ground water recovery system and the air sparging system began operation.
- September 7, 1999 - Performed quarterly monitoring. Continued to operate the vapor extraction and air sparging systems. The ground-water system did not operate during the quarter.
- As of March 1998, the ground water extraction system has processed approximately 228,850 gallons of water.
- On October 4, 2000, 1,500 gallons of ground water were over purged from Monitoring wells MW-2 and MW-3 using a vacuum truck. Analytical results are included in Table 2.
- On October 17, 2000, 1,200 gallons of ground water were over purged from Monitoring wells MW-2 and MW-3 using a vacuum truck. Analytical results are included in Table 2.

HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

- On November 29, 2000, approximately 1,800 gallons of ground water were extracted during the dual phased extraction (DPE) test from MW-1 and MW-2.
- On December 4, 2000, approximately 1,600 gallons of ground water were extracted during the DPE test.
- On January 4, 2001, approximately 1,000 gallons of ground water were extracted during the DPE test.
- The evaluation of these interim remediation events is included in the Doulos report entitled *Evaluation of Interim Remediation with Vacuum Truck/Dual Phase Extraction Events*.
- On May 17, 2002, Tesoro Petroleum purchased the facility from Ultramar.

ENCLOSURE B

Ground Water Sampling Information

Client:	Tesoro	Sample Data:	2/28/2005
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	Well Designation:	MW-1
Signature: _____			

Well Box Condition/Traffic

Traffic Control	<input checked="" type="radio"/> Yes <input type="radio"/> No	Time:	9.28 hours
Standing water	<input type="radio"/> Yes <input checked="" type="radio"/> No	above or below casing	
Top of well level	<input checked="" type="radio"/> Yes <input type="radio"/> No	Remark:	
Well cap & locked	<input checked="" type="radio"/> Yes <input type="radio"/> No	Remark:	
Height of Riser	_____		
Well Box	8" <input checked="" type="radio"/> 12" <input type="radio"/> 24"	Type of well box	CNT

Purging/Sampling Equipment

Purging -			
2" Disposable Bailer	_____	Submersible Pump	<input checked="" type="checkbox"/>
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailers	_____	Centrifugal Pump	_____

Sampling -

Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	_____	Disposable Tubing	_____
-------------------	-------------------------------------	---------------	-------	-------------------	-------

Well Purging

Well Diameter:	2" <input checked="" type="checkbox"/>	4" _____	6" _____	8" _____
Purge Vol. Multiplier	0.16	0.65	1.47	2.61
Initial Measurement	Recharge Measurement		Calculated Purge	
Time:	9.28	Time:	_____	Actual Purge
Depth of Well	17.74	Depth to Water	_____	9.0
Depth to Water	12.76			10.0

Sample

Start Purge	110	Sample Time	120			
Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
113	66.4	363	6.62			1
115	66.3	357	6.64			2
117	66.3	361	6.64			3

Sample Appearance	clear	Lock	_____
-------------------	-------	------	-------

Equipment Replacement

Lock	<input checked="" type="checkbox"/>	Well Cap	<input checked="" type="checkbox"/>	Bolts	Need 2	Box	<input checked="" type="checkbox"/>
------	-------------------------------------	----------	-------------------------------------	-------	--------	-----	-------------------------------------

Remarks: _____

Client: Tesoro Sample Data: 2/28/2008
 Site: Tesoro Station 67106 Project Number: 02-67106
1088 Marina Blvd., San Leandro, CA Well Designation: MW-?
 Signature: _____

Well Box Condition/Traffic

Traffic Control Yes No Time: 934 hours
 Standing water Yes No above or below casing
 Top of well level Yes No Remark: _____
 Well cap & locked Yes No Remark: _____
 Height of Riser 4"
 Well Box 8" 12" 24" Type of well box Pomew

Purging/Sampling Equipment

Purging -

2" Disposable Bailer _____ Submersible Pump
 2" PVC Bailer _____ Dedicated Bailer _____
 4" PVC Bailer _____ Centrifugal Pump _____

Sampling -

Disposable Bailer Teflon Bailer _____ Disposable Tubing _____

Well Purging

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier 0.16 0.65 1.47 2.61

Initial Measurement _____ Recharge Measurement _____ Calculated Purge 4.8
 Time: 934 Time: _____ Actual Purge 5.0
 Depth of Well 22.31 Depth to Water _____
 Depth to Water 12.29

Sample

Start Purge 140 Sample Time 146

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
141	65.7	260	7.07			
142	66.4	241	6.76			
143	66.4	240	6.71			

Sample Appearance Cloudy Lock _____

Equipment Replacement

Lock Well Cap Bolts need 1 Box

Remarks: _____

Client: Tesoro Sample Data: 2/28/2003
 Site: Tesoro Station 67106 Project Number: 02-67106
1088 Marina Blvd., San Leandro, CA Well Designation: Mw-3
 Signature: _____

Well Box Condition/Traffic

Traffic Control Yes No Time: 903 hours
 Standing water Yes No above or below casing
 Top of well level Yes No Remark: _____
 Well cap & locked Yes No Remark: _____
 Height of Riser 3"
 Well Box 8" 12" 24" Type of well box CHI

Purging/Sampling Equipment

Purging -

2" Disposable Bailer _____ Submersible Pump
 2" PVC Bailer _____ Dedicated Bailer _____
 4" PVC Bailer _____ Centrifugal Pump _____

Sampling -

Disposable Bailer Teflon Bailer _____ Disposable Tubing _____

Well Purging

Well Diameter: 2" _____ 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier 0.16 0.65 1.47 2.61
 Initial Measurement _____ Recharge Measurement _____ Calculated Purge 7.6
 Time: 903 Time: _____ Actual Purge 7.6
 Depth of Well 28.4 Depth to Water _____
 Depth to Water 15.51

Sample

Start Purge 1124 Sample Time 1133

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1126	67.8	305	6.61			1
1127	67.6	306	6.63			2
1129	67.4	209	6.61			2

Sample Appearance clear Lock _____

Equipment Replacement

Lock Well Cap Bolts Box _____

Remarks:

Client: <u>Tesoro</u>	Sample Data: <u>2/28/2005</u>					
Site: <u>Tesoro Station 67106</u>	Project Number: <u>02-67106</u>					
<u>1088 Marina Blvd., San Leandro, CA</u>	Well Designation: <u>Mw-4</u>					
Signature: _____						
Well Box Condition/Traffic						
Traffic Control <input checked="" type="radio"/> Yes <input type="radio"/> No	Time: <u>925</u> hours					
Standing water <input type="radio"/> Yes <input checked="" type="radio"/> No	above or below casing _____					
Top of well level <input checked="" type="radio"/> Yes <input type="radio"/> No	Remark: _____					
Well cap & locked <input checked="" type="radio"/> Yes <input type="radio"/> No	Remark: _____					
Height of Riser _____						
Well Box <u>8" 12" 24"</u> Type of well box <u>NA</u>						
Purging/Sampling Equipment						
Purging -						
2" Disposable Bailer _____	Submersible Pump <input checked="" type="checkbox"/>					
2" PVC Bailer _____	Dedicated Bailer _____					
4" PVC Bailers _____	Centrifugal Pump _____					
Sampling -						
Disposable Bailer _____	Teflon Bailer _____					
	Disposable Tubing _____					
Well Purging						
Well Diameter: <u>2"</u> <input checked="" type="checkbox"/> <u>4"</u> <input type="checkbox"/> <u>6"</u> <input type="checkbox"/> <u>8"</u> <input type="checkbox"/>						
Purge Vol. Multiplier <u>0.16</u> <u>0.65</u> <u>1.47</u> <u>2.61</u>						
Initial Measurement _____	Recharge Measurement _____					
Time: <u>925</u>	Time: _____					
Depth of Well <u>27.95</u>	Depth to Water _____					
Depth to Water <u>12.96</u>						
	Calculated Purge <u>6.9</u>					
	Actual Purge <u>7.0</u>					
Sample						
Start Purge <u>1225</u>	Sample Time <u>12:38</u>					
Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>12:26</u>	<u>67.0</u>	<u>462</u>	<u>7.80</u>			<u>1</u>
<u>12:27</u>	<u>67.6</u>	<u>399</u>	<u>6.99</u>			<u>2</u>
<u>12:35</u>	<u>67.5</u>	<u>411</u>	<u>7.12</u>			<u>3</u>
<u>12:37</u>	<u>67.7</u>	<u>378</u>	<u>6.83</u>			<u>4</u>
Sample Appearance <u>cloud</u>	Lock _____					
Equipment Replacement						
Lock _____	Well Cap _____	Bolts _____	Box _____			
Remarks: _____						

Client: <u>Tesoro</u>	Sample Data: <u>2/28/2003</u>
Site: <u>Tesoro Station 67106</u>	Project Number: <u>02-67106</u>
<u>1088 Marina Blvd., San Leandro, CA</u>	Well Designation: <u>MW-5</u>
Signature: _____	

Well Box Condition/Traffic

Traffic Control	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Time: <u>9:15</u> hours
Standing water	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	above or below casing
Top of well level	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remark: _____
Well cap & locked	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remark: _____
Height of Riser	<u>2'</u>	
Well Box	8" 12" <input checked="" type="checkbox"/> 24"	Type of well box <u>Not Marked</u>

Purging/Sampling Equipment

Purging -

2" Disposable Bailer	_____	Submersible Pump	<input checked="" type="checkbox"/>
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailers	_____	Centrifugal Pump	_____

Sampling -

Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	_____	Disposable Tubing	_____
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Well Purging

Well Diameter: 2"	<input checked="" type="checkbox"/>	4"	_____	6"	_____	8"	_____
Purge Vol. Multiplier	0.16	0.65	1.47	2.61			
Initial Measurement	_____	Recharge Measurement	_____	Calculated Purge	<u>7.6</u>		
Time:	<u>9:15</u>	Time:	_____	Actual Purge	<u>7.6</u>		
Depth of Well	<u>28.8</u>	Depth to Water	_____				
Depth to Water	<u>12.89</u>						

Sample

Start Purge 11:42 Sample Time 11:53

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>11:45</u>	<u>66.6</u>	<u>702</u>	<u>6.62</u>			<u>1</u>
<u>11:47</u>	<u>66.6</u>	<u>691</u>	<u>6.58</u>			<u>2</u>
<u>11:49</u>	<u>66.7</u>	<u>680</u>	<u>6.57</u>			<u>3</u>

Sample Appearance Clear Lock _____

Equipment Replacement

Lock Well Cap Bolts Need 4 Box

Remarks: _____

Client: Tesoro Sample Data: 2/28/2003
 Site: Tesoro Station 67106 Project Number: 02-67106
1088 Marina Blvd., San Leandro, CA Well Designation: MW-6
 Signature: _____

Well Box Condition/Traffic

Traffic Control Yes No Time: 8:45 hours
 Standing water Yes No above or below casing
 Top of well level Yes No Remark: _____
 Well cap & locked Yes No Remark: _____
 Height of Riser _____
 Well Box 8" 12" 24" Type of well box Pomew

Purging/Sampling Equipment

Purging -

2" Disposable Bailer Submersible Pump _____
 2" PVC Bailer _____ Dedicated Bailer _____
 4" PVC Bailer _____ Centrifugal Pump _____

Sampling -

Disposable Bailer Teflon Bailer _____ Disposable Tubing _____

Well Purging

Well Diameter: 2" _____ 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier _____ 0.16 _____ 0.65 _____ 1.47 _____ 2.61 _____
 Initial Measurement _____ Recharge Measurement _____ Calculated Purge 1.4
 Time: 8:45 Time: _____ Actual Purge 1.5
 Depth of Well 14.86 Depth to Water _____
 Depth to Water 11.86

Sample

Start Purge 1001 Sample Time 1008

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1002	64.0	988	6.95			1
1003	64.0	867	6.84			2
1000	65.0	863	6.82			3

Sample Appearance clear Lock _____

Equipment Replacement

Lock Well Cap Bolts Need 3 Box

Remarks: _____

Client: Tesoro Sample Data: 2/28/2005
 Site: Tesoro Station 67106 Project Number: 02-67106
1088 Marina Blvd., San Leandro, CA Well Designation: MW-7
 Signature: _____

Well Box Condition/Traffic

Traffic Control Yes No Time: 849 hours
 Standing water Yes No above or below casing
 Top of well level Yes No Remark: _____
 Well cap & locked Yes No Remark: _____
 Height of Riser _____
 Well Box 8" 12" 24" Type of well box Pomew

Purging/Sampling Equipment

Purging -

2" Disposable Bailer _____ Submersible Pump
 2" PVC Bailer _____ Dedicated Bailer _____
 4" PVC Bailer _____ Centrifugal Pump _____

Sampling -

Disposable Bailer Teflon Bailer _____ Disposable Tubing _____

Well Purging

Well Diameter: 2" _____ 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier 0.16 0.65 1.47 2.61
 Initial Measurement _____ Recharge Measurement _____ Calculated Purge 6.3
 Time: 8:49 Time: _____ Actual Purge 6.0
 Depth of Well 25.45 Depth to Water _____
 Depth to Water 12.21

Sample

Start Purge 1036 Sample Time 1045

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1037	64.0	506	6.57			1
1038	65.9	508	6.56			2
1039	65.8	511	6.59			3

Sample Appearance Cloudy Lock _____

Equipment Replacement

Lock Well Cap Bolts Need 3 Box

Remarks: _____

Client: Tesoro Sample Data: 2/28/2003
 Site: Tesoro Station 67106 Project Number: 02-67106
1088 Marina Blvd., San Leandro, CA Well Designation: MW-8

Signature: _____

Well Box Condition/Traffic

Traffic Control Yes No Time: 920 hours
 Standing water Yes No above or below casing
 Top of well level Yes No Remark: _____
 Well cap & locked Yes No Remark: _____
 Height of Rise 3
 Well Box 8" 12" 24" Type of well box CHI

Purging/Sampling Equipment

Purging -

2" Disposable Bailer _____ Submersible Pump
 2" PVC Bailer _____ Dedicated Bailer _____
 4" PVC Bailer _____ Centrifugal Pump _____

Sampling -

Disposable Bailer Teflon Bailer _____ Disposable Tubing _____

Well Purging

Well Diameter: 2" 4" 6" 8"
 Purge Vol. Multiplier 0.16 0.65 1.47 2.61
 Initial Measurement _____ Recharge Measurement _____ Calculated Purge 7.0
 Time: 920 Time: _____ Actual Purge 7.0
 Depth of Well 28.05 Depth to Water _____
 Depth to Water 13.45

Sample

Start Purge 1209 Sample Time 1216

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1210	65.3	796	6.72			1
1212	65.3	807	6.53			2
1214	65.3	777	6.51			3

Sample Appearance Clear Lock _____

Equipment Replacement

Lock Well Cap Bolts need 2 Box

Remarks: _____

Client: Tesoro Sample Data: 2/28/2003
 Site: Tesoro Station 67106 Project Number: 02-67106
1088 Marina Blvd., San Leandro, CA Well Designation: MW-9
 Signature: _____

Well Box Condition/Traffic

Traffic Control Yes No Time: 851 hours
 Standing water Yes No above or below casing
 Top of well level Yes No Remark: _____
 Well cap & locked Yes No Remark: _____
 Height of Riser 6"
 Well Box 8" 12" 24" Type of well box NA

Purging/Sampling Equipment

Purging -

2" Disposable Bailer Submersible Pump
 2" PVC Bailer _____ Dedicated Bailer _____
 4" PVC Bailers _____ Centrifugal Pump _____

Sampling -

Disposable Bailer _____ Teflon Bailer _____ Disposable Tubing _____

Well Purging

Well Diameter: 2" _____ 4" 6" _____ 8" _____
 Purge Vol. Multiplier 0.16 0.65 1.47 2.61
 Initial Measurement _____ Recharge Measurement _____ Calculated Purge 23.4
 Time: 851 Time: _____ Actual Purge 24.0
 Depth of Well 24.0 Depth to Water _____
 Depth to Water 12.59

Sample

Start Purge _____ Sample Time _____

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume

Sample Appearance _____ Lock _____

Equipment Replacement

Lock Well Cap Bolts Need 3 Box

Remarks:



Report Number : 37239

Date : 3/8/2004

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 9 Water Samples
Project Name : Tesoro St. 67106
Project Number : 02-67106

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "R. Paul Furry". The signature is written in a cursive, slightly slanted style.

R P Furry



Report Number : 37239

Date : 3/8/2004

Subject : 9 Water Samples
Project Name : Tesoro St. 67106
Project Number : 02-67106

Case Narrative

Samples MW-4 AND MW-5 were analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4 inch in diameter.

Surrogate recovery for Toluene-D8 for sample MW-3 is above the control limit. This may indicate a bias in the analysis due to the sample's matrix or an interference with the surrogate from compounds present in the sample. Results have been confirmed by a second analysis.


Approved By: R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

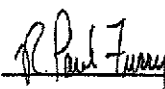
Sample : **MW-1**

Matrix : **Water**

Lab Number : **37239-01**

Sample Date : **2/28/2004**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 2.0	2.0	ug/L	EPA 8260B	3/4/2004
Toluene	< 2.0	2.0	ug/L	EPA 8260B	3/4/2004
Ethylbenzene	140	2.0	ug/L	EPA 8260B	3/4/2004
Total Xylenes	48	2.0	ug/L	EPA 8260B	3/4/2004
Methyl-t-butyl ether (MTBE)	4.8	2.0	ug/L	EPA 8260B	3/4/2004
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	3/4/2004
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	3/4/2004
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	3/4/2004
Tert-Butanol	< 20	20	ug/L	EPA 8260B	3/4/2004
TPH as Gasoline	10000	200	ug/L	EPA 8260B	3/4/2004
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	3/4/2004
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	3/4/2004


Approved By: R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

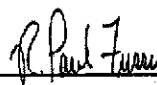
Sample : MW-2

Matrix : Water

Lab Number : 37239-02

Sample Date : 2/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	21	2.5	ug/L	EPA 8260B	3/5/2004
Toluene	26	2.5	ug/L	EPA 8260B	3/5/2004
Ethylbenzene	520	2.5	ug/L	EPA 8260B	3/5/2004
Total Xylenes	980	2.5	ug/L	EPA 8260B	3/5/2004
Methyl-t-butyl ether (MTBE)	35	2.5	ug/L	EPA 8260B	3/5/2004
Diisopropyl ether (DIPE)	< 2.5	2.5	ug/L	EPA 8260B	3/5/2004
Ethyl-t-butyl ether (ETBE)	< 2.5	2.5	ug/L	EPA 8260B	3/5/2004
Tert-amyl methyl ether (TAME)	< 2.5	2.5	ug/L	EPA 8260B	3/5/2004
Tert-Butanol	< 25	25	ug/L	EPA 8260B	3/5/2004
TPH as Gasoline	10000	250	ug/L	EPA 8260B	3/5/2004
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	3/5/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	3/5/2004


Approved By: R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

Sample : MW-3

Matrix : Water

Lab Number : 37239-03

Sample Date : 2/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.2	0.50	ug/L	EPA 8260B	3/6/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2004
Ethylbenzene	0.74	0.50	ug/L	EPA 8260B	3/6/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/6/2004
Methyl-t-butyl ether (MTBE)	58	0.50	ug/L	EPA 8260B	3/6/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2004
Tert-Butanol	74	5.0	ug/L	EPA 8260B	3/6/2004
TPH as Gasoline	1400	50	ug/L	EPA 8260B	3/6/2004
Toluene - d8 (Surr)	123		% Recovery	EPA 8260B	3/6/2004
4-Bromofluorobenzene (Surr)	87.0		% Recovery	EPA 8260B	3/6/2004


Approved By: R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

Sample : MW-4

Matrix : Water

Lab Number : 37239-04

Sample Date :2/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	85	5.0	ug/L	EPA 8260B	3/5/2004
Toluene	430	5.0	ug/L	EPA 8260B	3/5/2004
Ethylbenzene	570	5.0	ug/L	EPA 8260B	3/5/2004
Total Xylenes	3700	5.0	ug/L	EPA 8260B	3/5/2004
Methyl-t-butyl ether (MTBE)	67	5.0	ug/L	EPA 8260B	3/5/2004
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	3/5/2004
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	3/5/2004
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	3/5/2004
Tert-Butanol	< 50	50	ug/L	EPA 8260B	3/5/2004
TPH as Gasoline	17000	500	ug/L	EPA 8260B	3/5/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	3/5/2004
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	3/5/2004


Approved By: R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

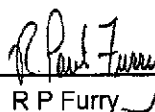
Sample : MW-5

Matrix : Water

Lab Number : 37239-05

Sample Date : 2/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	37	0.50	ug/L	EPA 8260B	3/4/2004
Toluene	1.4	0.50	ug/L	EPA 8260B	3/4/2004
Ethylbenzene	130	0.50	ug/L	EPA 8260B	3/4/2004
Total Xylenes	120	0.50	ug/L	EPA 8260B	3/4/2004
Methyl-t-butyl ether (MTBE)	72	0.50	ug/L	EPA 8260B	3/4/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-Butanol	32	5.0	ug/L	EPA 8260B	3/4/2004
TPH as Gasoline	3400	50	ug/L	EPA 8260B	3/4/2004
Toluene - d8 (Surr)	113		% Recovery	EPA 8260B	3/4/2004
4-Bromofluorobenzene (Surr)	89.1		% Recovery	EPA 8260B	3/4/2004

Approved By:  R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

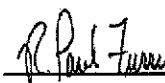
Sample : MW-6

Matrix : Water

Lab Number : 37239-06

Sample Date : 2/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/4/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/4/2004
Toluene - d8 (Surr)	109		% Recovery	EPA 8260B	3/4/2004
4-Bromofluorobenzene (Surr)	85.4		% Recovery	EPA 8260B	3/4/2004

Approved By: 
R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

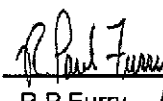
Sample : MW-7

Matrix : Water

Lab Number : 37239-07

Sample Date : 2/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/4/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/4/2004
Toluene - d8 (Surr)	110		% Recovery	EPA 8260B	3/4/2004
4-Bromofluorobenzene (Surr)	83.7		% Recovery	EPA 8260B	3/4/2004

Approved By: 
R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

Sample : MW-8

Matrix : Water

Lab Number : 37239-08

Sample Date : 2/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	21	0.50	ug/L	EPA 8260B	3/4/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethylbenzene	15	0.50	ug/L	EPA 8260B	3/4/2004
Total Xylenes	49	0.50	ug/L	EPA 8260B	3/4/2004
Methyl-t-butyl ether (MTBE)	200	0.50	ug/L	EPA 8260B	3/4/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-Butanol	110	5.0	ug/L	EPA 8260B	3/4/2004
TPH as Gasoline	1100	50	ug/L	EPA 8260B	3/4/2004
Toluene - d8 (Surr)	94.9		% Recovery	EPA 8260B	3/4/2004
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	3/4/2004

Approved By: 
R P Furry



Report Number : 37239

Date : 3/8/2004

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

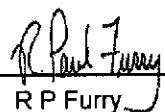
Sample : MW-9

Matrix : Water

Lab Number : 37239-09

Sample Date : 2/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/5/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/5/2004
Toluene - d8 (Surr)	112		% Recovery	EPA 8260B	3/5/2004
4-Bromofluorobenzene (Surr)	83.2		% Recovery	EPA 8260B	3/5/2004

Approved By:  R P Furry

Report Number : 37239

Date : 3/8/2004

QC Report : Method Blank Data

Project Name : Tesoro St. 67106

Project Number : 02-67106

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/3/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/3/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/3/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/3/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/3/2004
Toluene - d8 (Surr)	92.1		%	EPA 8260B	3/3/2004
4-Bromofluorobenzene (Surr)	97.8		%	EPA 8260B	3/3/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/4/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/4/2004
Toluene - d8 (Surr)	99.9		%	EPA 8260B	3/4/2004
4-Bromofluorobenzene (Surr)	95.9		%	EPA 8260B	3/4/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/4/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/4/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/4/2004
Toluene - d8 (Surr)	91.2		%	EPA 8260B	3/4/2004
4-Bromofluorobenzene (Surr)	85.9		%	EPA 8260B	3/4/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/5/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/5/2004
Toluene - d8 (Surr)	104		%	EPA 8260B	3/5/2004
4-Bromofluorobenzene (Surr)	80.3		%	EPA 8260B	3/5/2004



Approved By: R P Furry

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 37239

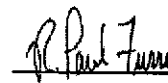
Date : 3/8/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro St. 67106**

Project Number : **02-67106**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	37243-07	8.4	39.4	38.3	45.5	46.8	ug/L	EPA 8260B	3/3/04	94.4	100	6.16	70-130	25
Toluene	37243-07	8.5	39.4	38.3	47.2	46.5	ug/L	EPA 8260B	3/3/04	98.3	99.1	0.848	70-130	25
Tert-Butanol	37243-07	<5.0	197	192	202	206	ug/L	EPA 8260B	3/3/04	103	108	4.70	70-130	25
Methyl-t-Butyl Ether	37243-07	1.0	39.4	38.3	41.7	41.2	ug/L	EPA 8260B	3/3/04	103	105	1.54	70-130	25
Benzene	37237-01	<0.50	40.0	40.0	39.4	38.8	ug/L	EPA 8260B	3/4/04	98.6	96.9	1.74	70-130	25
Toluene	37237-01	<0.50	40.0	40.0	40.2	39.3	ug/L	EPA 8260B	3/4/04	100	98.3	2.12	70-130	25
Tert-Butanol	37237-01	<5.0	200	200	199	199	ug/L	EPA 8260B	3/4/04	99.5	99.4	0.0585	70-130	25
Methyl-t-Butyl Ether	37237-01	<0.50	40.0	40.0	39.2	38.2	ug/L	EPA 8260B	3/4/04	98.1	95.4	2.78	70-130	25
Benzene	37279-02	<0.50	40.0	40.0	45.0	43.6	ug/L	EPA 8260B	3/4/04	113	109	3.15	70-130	25
Toluene	37279-02	<0.50	40.0	40.0	40.0	40.2	ug/L	EPA 8260B	3/4/04	100	100	0.419	70-130	25
Tert-Butanol	37279-02	<5.0	200	200	202	212	ug/L	EPA 8260B	3/4/04	101	106	4.55	70-130	25
Methyl-t-Butyl Ether	37279-02	<0.50	40.0	40.0	35.6	35.6	ug/L	EPA 8260B	3/4/04	89.0	88.9	0.176	70-130	25
Benzene	37287-03	<0.50	40.0	40.0	43.8	41.9	ug/L	EPA 8260B	3/5/04	110	105	4.35	70-130	25
Toluene	37287-03	<0.50	40.0	40.0	48.3	46.7	ug/L	EPA 8260B	3/5/04	121	117	3.30	70-130	25
Tert-Butanol	37287-03	<5.0	200	200	200	201	ug/L	EPA 8260B	3/5/04	100	101	0.486	70-130	25
Methyl-t-Butyl Ether	37287-03	<0.50	40.0	40.0	34.3	34.2	ug/L	EPA 8260B	3/5/04	85.7	85.6	0.0852	70-130	25



Approved By: R P Furry

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 37239

Date : 3/8/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : **Tesoro St. 67106**Project Number : **02-67106**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/3/04	100	70-130
Toluene	40.0	ug/L	EPA 8260B	3/3/04	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/3/04	108	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/3/04	107	70-130
Benzene	40.0	ug/L	EPA 8260B	3/4/04	93.4	70-130
Toluene	40.0	ug/L	EPA 8260B	3/4/04	96.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/4/04	94.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/4/04	87.0	70-130
Benzene	40.0	ug/L	EPA 8260B	3/4/04	106	70-130
Toluene	40.0	ug/L	EPA 8260B	3/4/04	99.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/4/04	95.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/4/04	84.8	70-130
Benzene	40.0	ug/L	EPA 8260B	3/5/04	112	70-130
Toluene	40.0	ug/L	EPA 8260B	3/5/04	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/5/04	97.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/5/04	82.1	70-130

KIFF ANALYTICAL, LLC

Approved By:  R P Furry

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Analysis Summary

Report Number : 37239

Date : 3/8/2004

Attention : Richard Munsch
 RDM Environmental
 1704 Via Riata
 Roseville, CA 95747

Project Name : Tesoro St. 67106
 Project Number : 02-67106

Sample Name			MW-1		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8	
Sample Date			2/28/2004		2/28/2004		2/28/2004		2/28/2004		2/28/2004		2/28/2004		2/28/2004		2/28/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	2.0	ND	2.5	21	0.50	1.2	5.0	85	0.50	37	0.50	ND	0.50	ND	0.50	21
Toluene	EPA 8260B	ug/L	2.0	ND	2.5	26	0.50	ND	5.0	430	0.50	1.4	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	2.0	140	2.5	520	0.50	0.74	5.0	570	0.50	130	0.50	ND	0.50	ND	0.50	15
Total Xylenes	EPA 8260B	ug/L	2.0	48	2.5	980	0.50	ND	5.0	3700	0.50	120	0.50	ND	0.50	ND	0.50	49
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	2.0	4.8	2.5	35	0.50	58	5.0	67	0.50	72	0.50	ND	0.50	ND	0.50	200
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	2.0	ND	2.5	ND	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	2.0	ND	2.5	ND	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	2.0	ND	2.5	ND	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	20	ND	25	ND	5.0	74	50	ND	5.0	32	5.0	ND	5.0	ND	5.0	110
TPH as Gasoline	EPA 8260B	ug/L	200	10000	250	10000	50	1400	500	17000	50	3400	50	ND	50	ND	50	1100
Toluene - dB (Surr)	EPA 8260B	%		95.8		99.1		123		100		113		109		110		94.9
4-Bromofluorobenzene (Surr)	EPA 8260B	%		99.7		101		87.0		103		89.1		85.4		83.7		99.9

MRL = Method Reporting Limit
 ND = Not Detected

Approved By,

R P Furry

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

ELAP # 2236



Analysis Summary

Report Number : 37239

Date : 3/8/2004

Attention : Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Project Name : Tesoro St. 67106

Project Number : 02-67106

Sample Name		MW-9		
Sample Date		2/28/2004		
Analyte	Method	Units	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND
Toluene - dB (Surr)	EPA 8260B	%		112
4-Bromofluorobenzene (Surr)	EPA 8260B	%		83.2

MRL = Method Reporting Limit

ND = Not Detected

Approved By,

R P Furry

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

ELAP # 2236



2795 2nd Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 37239 Page 1 of 1

Project Contact (Hardcopy or PDF To): Richard Munsch California EDF Report? Yes No

Company/Address: 1204 Via Rio Rosa, Roseville, CA Recommended but not mandatory to complete this section:
 Sampling Company Log Code: _____

Phone No.: 916 771 7098 FAX No.: 916 771 4584 Global ID: _____

Project Number: 02-67106 P.O. No.: _____ EDF Deliverable To (Email Address): To: 00101409

Project Name: Tesoro St 67106 Sampler Signature: [Signature]

Project Address: 1088 MARINA BLVD SAN LEANARD, CA

Sample Designation	Sampling		Container		Preservative				Matrix	
	Date	Time	40 ml VOA	SLEEVE	HCl	HNO ₃	ICE	NONE	WATER	SOIL
MW-1	2/28/04	1320	2		X	X			X	
MW-2	2/28/04	1346	2		X	X			X	
MW-3	2/28/04	1133	2		X	X			X	
MW-4	2/28/04	1238	2		X	X			X	
MW-5	2/28/04	1153	2		X	X			X	
MW-6	2/28/04	1008	2		X	X			X	
MW-7	2/28/04	1045	2		X	X			X	
MW-8	2/28/04	1216	2		X	X			X	
MW-9	2/28/04	1115	2		X	X			X	

Chain-of-Custody Record and Analysis Request

Analysis Request

BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only
					X								12 hr/24 hr/48 hr/72 hr/1 wk	01
					X									02
					X									03
					X									04
					X									05
					X									06
					X									07
					X									08
					X									09

Relinquished by: <u>[Signature]</u>	Date	Time	Received by: _____	Remarks: <u>STAT</u> <u>[Signature]</u>
Relinquished by: _____	Date	Time	Received by: _____	
Relinquished by: _____	Date	Time	Received by Laboratory: <u>KIFF ANALYTICAL</u>	

Bill to: Tesoro Petroleum / Rob Downey

Distribution: White - Lab, Pink - Originator

ENCLOSURE D

Historical Ground Water Monitoring Data

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-1	03/30/92	33.10	13.58	19.52	---	
	07/01/92		14.80	18.30	---	
	09/30/92		16.12	16.98	---	
	11/19/92		16.34	16.76	27.76	
	02/03/93		12.61	20.49	27.72	
	05/25/93		13.12	19.98	27.70	
	09/22/93		14.18	18.92	27.73	
	12/21/93		14.36	18.74	27.70	
	03/18/94		13.64	19.46	27.67	
	06/15/94		14.30	18.80	27.69	
	09/14/94		15.18	17.92	27.66	
	12/19/94		13.79	19.31	27.70	
	12/21/95		13.86	19.24	---	
	03/07/95		12.74	20.36	29.51	
	06/08/95		12.95	20.15	29.54	
	09/22/95		13.94	19.16	29.54	
	12/27/95		13.57	19.53	29.92	
	03/26/96		12.13	20.97	29.90	
	06/13/96		13.10	20.00	17.02	
	09/10/96		14.08	19.02	17.03	
12/05/96	13.41	19.69	17.05			
03/10/97	12.70	20.40	17.04			
06/12/97	13.68	19.42	17.04			
08/19/97	14.31	18.79	17.01			
12/13/97	13.19	19.91	17.01			
MW-2	03/30/92	32.80	13.32	19.48	---	
	07/01/92		14.42	18.38	---	
	09/30/92		15.78	17.02	---	
	11/19/92		15.99	16.81	24.56	
	02/03/93		12.31	20.49	25.37	
	05/25/93		12.97	19.83	25.31	
	09/22/93		14.32	18.48	25.34	
	12/21/93		14.52	18.28	25.31	
	03/18/94		13.45	19.35	25.49	
	06/15/94		14.07	18.73	25.50	
	09/14/94		14.96	17.84	25.50	
	12/19/94		13.64	19.16	25.52	
	12/21/95		13.71	19.09	---	
	03/07/95		12.54	20.26	25.87	
	06/08/95		12.81	19.99	25.86	
	09/22/95		13.66	19.14	25.80	
	12/27/95		13.42	19.38	25.83	
	03/26/96		12.05	20.75	25.83	
	06/13/96		12.79	20.01	26.39	
	09/10/96		13.73	19.07	26.43	
12/05/96	13.29	19.51	26.45			
03/10/97	12.42	20.38	26.48			
06/12/97	13.18	19.62	26.50			
08/19/97	13.94	18.86	26.52			
12/13/97	12.91	19.89	19.02			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
--- = Not measured.
* = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-3	03/30/92	32.30	12.96	19.34	---	
	07/01/92		14.00	18.30	---	
	09/30/92		15.36	16.94	---	
	11/19/92		15.57	16.73	24.45	
	02/03/93		11.96	20.34	24.54	
	05/25/93		14.12	18.18	24.50	
	09/22/93		13.88	18.42	24.50	
	12/21/93		14.12	18.18	24.50	
	03/18/94		13.04	19.26	24.57	
	06/15/94		13.65	18.65	24.78	
	09/14/94		14.54	17.76	24.59	
	12/19/94		13.28	19.02	24.71	
	12/21/95		13.30	19.00	---	
	03/07/95		12.26	20.04	26.03	
	06/08/95		12.42	19.88	26.02	
	09/22/95		13.25	19.05	26.00	
	12/27/95		13.04	19.26	26.00	
	03/26/96		11.62	20.68	26.01	
	06/13/96		12.61	19.69	28.45	
	09/10/96		13.49	18.81	28.42	
12/05/96	13.07	19.23	28.42			
03/10/97	12.23	20.07	28.41			
06/12/97	12.94	19.36	28.44			
08/19/97	12.85	19.45	28.45			
12/13/97	12.45	19.85	28.43			
MW-4	03/30/92	32.90	13.60	19.30	---	
	07/01/92		15.72	17.18	---	
	09/30/92		16.04	16.86	---	
	11/19/92		16.21	16.69	26.92	
	02/03/93		12.70	20.20	27.00	
	05/25/93		12.97	19.93	26.88	
	09/22/93		14.51	18.39	26.90	
	12/21/93		14.75	18.15	26.90	
	03/18/94		13.68	19.22	27.24	
	06/15/94		14.37	18.53	28.54	
	09/14/94		15.23	17.67	27.25	
	12/19/94		13.93	18.97	28.61	
	12/21/95		13.99	18.91	---	
	03/07/95		12.86	20.04	28.64	
	06/08/95		13.10	19.80	28.68	
	09/22/95		13.98	18.92	28.71	
	12/27/95		13.74	19.16	28.71	
	03/26/96		12.30	20.60	28.70	
	06/13/96		13.18	19.72	27.86	
	09/10/96		14.22	18.68	27.40	
12/05/96	13.65	19.25	27.40			
03/10/97	12.79	20.11	27.42			
06/12/97	13.51	19.39	27.40			
08/19/97	14.29	18.61	27.40			
12/13/97	13.43	19.47	27.43			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
 --- = Not measured.
 * = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-5	03/30/92	32.70	13.48	19.22	---	
	07/01/92		14.58	18.12	---	
	09/30/92		15.82	16.88	---	
	11/19/92		16.00	16.70	27.56	
	02/03/93		12.40	20.30	27.61	
	05/25/93		13.01	19.69	27.61	
	09/22/93		14.37	18.33	27.64	
	12/21/93		14.58	18.12	27.01	
	03/18/94		13.53	19.17	28.70	
	06/15/94		14.18	18.52	28.74	
	09/14/94		15.07	17.63	28.70	
	12/19/94		13.74	18.96	28.76	
	12/21/95		13.84	18.86	---	
	03/07/95		12.73	19.97	28.88	
	06/08/95		12.99	19.71	28.87	
	09/22/95		13.83	18.87	28.85	
	12/27/95		13.59	19.11	28.85	
	03/26/96		12.20	20.50	28.84	
	06/13/96		12.98	19.72	28.84	
	09/10/96		13.96	18.74	28.87	
12/05/96	13.36	19.34	28.87			
03/10/97	12.74	19.96	28.86			
06/12/97	13.06	19.64	28.83			
08/19/97	14.21	18.49	28.82			
12/13/97	13.51	19.19	28.85			
MW-6	03/30/92	30.40	12.62	17.78	---	
	07/01/92		12.70	17.70	---	
	09/30/92		13.40	17.00	---	
	11/19/92		13.59	16.81	15.10	
	02/03/93		12.43	17.97	15.01	
	05/25/93		---	---	---	
	10/11/93		12.82	17.58	15.10	*
	12/21/93		13.06	17.34	15.10	
	03/18/94		12.16	18.24	15.16	
	06/15/94		12.59	17.81	15.17	
	09/14/94		12.86	17.54	14.97	
	12/19/94		12.48	17.92	15.19	
	12/21/95		11.61	18.79	---	
	03/07/95		12.37	18.03	14.98	
	06/08/95		11.14	19.26	15.00	
	09/22/95		12.44	17.96	15.00	
	12/27/95		12.21	18.19	14.98	
	03/26/96		12.26	18.14	14.97	
	06/13/96		12.55	17.85	14.98	
	09/10/96		12.31	18.09	15.01	
12/05/96	12.22	18.18	15.00			
03/10/97	12.19	18.21	15.01			
06/12/97	12.28	18.12	14.97			
08/19/97	12.30	18.10	14.98			
12/13/97	11.93	18.47	14.93			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
--- = Not measured.
* = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-7	03/30/92	31.20	12.34	18.86	---	*
	07/01/92		15.54	15.66	---	
	09/30/92		14.64	16.56	---	
	11/19/92		14.80	16.40	25.10	
	02/03/93		11.36	19.84	25.02	
	05/25/93		---	---	---	
	09/22/93		13.18	18.02	25.01	
	12/21/93		13.42	17.78	25.02	
	03/18/94		12.36	18.84	25.13	
	06/15/94		13.01	18.19	25.21	
	09/14/94		13.88	17.32	25.13	
	12/19/94		12.61	18.59	25.23	
	12/21/95		12.38	18.82	---	
	03/07/95		11.56	19.64	25.22	
	06/08/95		11.82	19.38	25.20	
	09/22/95		12.67	18.53	25.23	
	12/27/95		12.34	18.86	25.23	
	03/26/96		11.03	20.17	25.21	
	06/13/96		11.76	19.44	25.20	
	09/10/96		12.71	18.49	24.56	
12/05/96	12.32	18.88	24.56			
03/10/97	11.38	19.82	24.53			
06/12/97	12.28	18.92	24.52			
08/19/97	12.92	18.28	24.52			
12/13/97	11.69	19.51	24.50			
MW-8	03/30/92	33.80	14.66	19.14	---	
	07/01/92		15.74	18.06	---	
	09/30/92		17.00	16.80	---	
	11/19/92		17.01	16.79	29.75	
	02/03/93		13.83	19.97	29.88	
	05/25/93		13.01	20.79	29.86	
	09/22/93		15.81	17.99	24.52	
	12/21/93		16.05	17.75	29.86	
	03/18/94		14.62	19.18	29.87	
	06/15/94		15.29	18.51	30.07	
	09/14/94		16.22	17.58	29.87	
	12/19/94		14.81	18.99	30.05	
	12/21/95		14.89	18.91	---	
	03/07/95		13.75	20.05	29.94	
	06/08/95		13.98	19.82	29.93	
	09/22/95		14.92	18.88	29.95	
	12/27/95		14.61	19.19	29.92	
	03/26/96		13.09	20.71	29.73	
	06/13/96		13.81	19.99	27.92	
	09/10/96		14.80	19.00	27.95	
12/05/96	14.05	19.75	27.96			
03/10/97	13.40	20.40	27.98			
06/12/97	14.31	19.49	27.95			
08/19/97	13.85	19.95	27.94			
12/13/97	13.92	19.88	27.93			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
 --- = Not measured.
 * = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-9	12/21/95	32.56	13.76	18.80	---	
	03/07/95		12.79	19.77	24.71	
	06/08/95		12.96	19.60	24.70	
	09/22/95		13.73	18.83	24.72	
	12/27/95		13.53	19.03	24.71	
	03/26/96		12.27	20.29	24.70	
	06/13/96		12.84	19.72	24.53	
	09/10/96		13.49	19.07	24.58	
	12/05/96		13.18	19.38	24.60	
	03/10/97		12.25	20.31	24.66	
	06/12/97		12.70	19.86	24.66	
	08/19/97		17.89	14.67	24.68	
	12/13/97		15.79	16.77	24.68	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level.
 Well Depth = Measurement from top of casing to bottom of well.
 --- = Not measured.
 * = Well paved over.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE ¹	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-1	03/30/92	27,000		630	550	540	1,900
	07/01/92	55,000		840	1,000	830	3,600
	09/30/92	6,400		150	95	120	470
	11/19/92	1,300		90	11	50	87
	02/03/93	53,000		750	560	950	5,700
	05/25/93	9,400		200	86	470	1,500
	09/22/93	41,000		1,000	510	850	1,100
	12/21/93	41,000		1,000	490	2,700	13,000
	03/18/94	9,500		320	160	830	2,900
	06/15/94	8,000		310	80	990	2,300
	09/14/94	3,600		130	31	390	630
	12/19/94	17,000		350	150	1,500	5,200
	03/07/95	12,000		180	62	1,200	3,200
	06/08/95	6,300		76	8	560	860
	09/22/95	12,000		140	55	1,500	2,500
	12/27/95	3,900		60	13	480	870
	03/26/96	6,400		42	4.9	560	600
	06/13/96	9,600	<50	86	39	1,100	1,700
	09/10/96	16,000	<50	65	35	1,500	2,700
	12/05/96	6,400	<25	25	11	570	930
03/10/97	15,000	<50	42	<5.0	1,400	1,500	
06/12/97	16,000	<100	33	34	1,100	1,700	
08/19/97	17,000	<100	47	14	1,300	2,200	
12/13/97	5,800	<100	20	35	360	470	
MW-2	03/30/92	52,000		2,300	1,700	940	3,300
	07/01/92	130,000		3,500	2,900	1,900	7,900
	09/30/92	24,000		890	350	500	1,700
	11/19/92	32,000		1,900	1,700	870	3,400
	02/03/93	64,000		1,900	2,200	860	4,100
	05/25/93	34,000		3,300	1,500	1,300	5,900
	09/22/93	8,000		640	150	270	2,000
	12/21/93	18,000		1,500	410	1,300	5,000
	03/18/94	14,000		1,600	790	1,100	3,700
	06/15/94	13,000		1,600	580	1,200	4,100
	09/14/94	20,000		1,600	560	1,800	6,400
	12/19/94	19,000		1,700	750	1,600	5,800
	03/07/95	17,000		1,900	980	1,300	5,100
	06/08/95	19,000		2,100	740	1,500	4,900
	09/22/95	12,000		840	170	1,100	3,400
	12/27/95	16,000		1,100	540	1,400	5,100
	03/26/96	11,000		930	520	970	3,000
	06/13/96	11,000	1,200	1,800	1,400	1,500	4,500
	09/10/96	19,000	1,100	1,600	600	1,600	5,000
	12/05/96	12,000	180	650	180	1,000	2,800
03/10/97	6,800	69	430	95	590	1,800	
06/12/97	20,000	100	610	140	1,500	4,300	
08/19/97	3,600	<100	250	10	250	250	
12/13/97	8,300	75	370	150	450	1,600	

NOTES: < = Below indicated detection limit
 ND = Reported as "nondetect" by previous consultant.
 NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics					
		Gasoline	MTBE ¹	Benzene	Toluene	Ethylbenzene	Total Xylenes	
MW-3	03/30/92	21,000		560	50	630	980	
	07/01/92	13,000		150	20	22	300	
	09/30/92	4,500		53	2.6	84	96	
	11/19/92	4,700		73	6.2	140	120	
	02/03/93	23,000		220	40	430	740	
	05/25/93	9,900		120	26	370	520	
	09/22/93	10,000		370	71	320	640	
	12/21/93	7,800		130	8.5	430	380	
	03/18/94	3,100		22	1.3	78	41	
	06/15/94	1,700		8.6	1.4	22	15	
	09/14/94	1,400		3.8	<1.3	13	18	
	12/19/94	3,800		70	1.7	140	110	
	03/07/95	2,200		9.4	<1.3	30	21	
	06/08/95	1,700		5.8	<1.3	2.3	14	
	09/22/95	1,200		<1.3	<1.3	1.3	<1.3	
	12/27/95	1,300		2.4	<1.3	3.3	3.6	
	03/26/96	1,200		4.3	<1.3	4.2	2	
	06/13/96	1,300		28	5.1	<0.50	21	6.5
	09/10/96	810		<5.0	1.4	4.8	1.6	2.1
	12/05/96	590		<5.0	<0.50	3.2	0.79	0.52
03/10/97	650		<5.0	0.73	3.8	2.4	1.6	
06/12/97	710		<5.0	<0.50	3.5	2.9	3.6	
08/19/97	1,400		13	2.2	0.58	11	34	
12/13/97	810		<5.0	0.96	<0.50	0.54	1.8	
MW-4	03/30/92	76,000		8,000	4,400	730	2,500	
	07/01/92	95,000		6,900	2,200	70	880	
	09/30/92	58,000		7,100	1,500	650	2,700	
	11/19/92	33,000		5,500	840	400	1,400	
	02/03/93	130,000		8,200	6,700	940	4,400	
	05/25/93	63,000		16,000	6,600	1,700	8,100	
	09/22/93	23,000		6,900	940	150	3,000	
	12/21/93	28,000		6,900	1,900	1,100	5,500	
	03/18/94	58,000		17,000	6,300	2,500	10,000	
	06/15/94	59,000		20,000	4,900	2,500	9,100	
	09/14/94	73,000		22,000	6,800	2,700	10,000	
	12/19/94	67,000		20,000	8,300	2,300	9,100	
	03/07/95	57,000		19,000	7,900	2,200	8,700	
	06/08/95	61,000		17,000	6,300	2,700	9,000	
	09/22/95	37,000		12,000	2,200	1,400	3,500	
	12/27/95	39,000		12,000	6,000	1,800	5,800	
	03/26/96	31,000		9,600	3,700	2,300	6,200	
	06/13/96	240		89	64	0.93	1.8	2.7
	09/10/96	91,000		2,900	13,000	20,000	3,200	16,000
	12/05/96	16,000		1,200	3,700	3,100	580	2,800
03/10/97	630		530	91	<0.50	<0.50	0.8	
06/12/97	36,000		1,100	4,600	5,300	1,200	5,500	
08/19/97	12,000		390	420	88	61	520	
12/13/97	4,800		360	560	740	130	1,100	

NOTES: < = Below indicated detection limit
 ND = Reported as "nondetect" by previous consultant.
 NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE ¹	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-5	03/30/92	29,000		2,600	980	390	1,100
	07/01/92	52,000		2,400	1,000	5,200	2,000
	09/30/92	32,000		1,800	780	370	1,700
	11/19/92	7,800		1,000	280	120	370
	02/03/93	74,000		3,500	3,000	780	3,200
	05/25/93	57,000		7,900	4,700	1,900	7,800
	09/22/93	52,000		7,600	2,400	1,200	8,800
	12/21/93	23,000		3,600	1,200	970	3,600
	03/18/94	47,000		8,200	5,000	1,400	6,100
	06/15/94	28,000		7,900	4,000	1,200	5,200
	09/14/94	32,000		8,000	5,100	1,400	5,600
	12/19/94	29,000		7,000	3,400	1,200	5,200
	03/07/95	36,000		9,800	5,800	1,800	7,800
	06/08/95	33,000		7,700	3,800	1,500	6,200
	09/22/95	39,000		9,500	3,800	1,900	7,000
	12/27/95	42,000		9,700	5,000	2,200	8,800
	03/26/96	37,000		9,800	4,900	2,300	8,800
	06/13/96	18,000	1,400	5,500	2,200	1,500	5,300
	09/10/96	22,000	860	5,600	1,400	1,100	3,500
	12/05/96	24,000	650	5,100	2,500	1,400	4,700
03/10/97	28,000	760	6,800	2,700	1,300	5,700	
06/12/97	49,000	700	7,500	3,200	2,300	9,200	
08/19/97	24,000	1,600	4,700	990	1,400	4,500	
12/13/97	18,000	360	2,700	760	630	4,200	
MW-6	03/30/92	73		2.1	1.1	ND	0.6
	07/01/92	ND		ND	ND	ND	ND
	09/30/92	ND		0.73	ND	ND	0.58
	11/19/92	96		1.5	<0.5	<0.5	0.9
	02/03/93	73		0.6	<0.5	<0.5	<0.5
	05/25/93	NS		NS	NS	NS	NS
	10/11/93	<50		<0.5	<0.5	<0.5	<0.5
	12/21/93	<50		<0.5	<0.5	<0.5	<0.5
	03/18/94	<50		<0.5	<0.5	<0.5	<0.5
	06/15/94	<50		<0.5	<0.5	<0.5	<0.5
	09/14/94	<50		<0.5	<0.5	<0.5	<0.5
	12/19/94	<50		<0.5	<0.5	<0.5	<0.5
	03/07/95	<50		<0.5	<0.5	<0.5	<0.5
	06/08/95	<50		<0.5	<0.5	<0.5	<0.5
	09/22/95	<50		<0.50	<0.50	<0.50	<0.50
	12/27/95	<50		<0.50	<0.50	<0.50	<0.50
	03/26/96	<50		<0.50	<0.50	<0.50	<0.50
	06/13/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	09/10/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/05/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
03/10/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
06/12/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
08/19/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
12/13/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	

NOTES: < = Below indicated detection limit
ND = Reported as "nondetect" by previous consultant.
NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE ¹	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-7	03/30/92	ND		ND	ND	ND	ND
	07/01/92	ND		ND	ND	ND	ND
	09/30/92	ND		ND	ND	ND	ND
	11/19/92	<50		<0.5	<0.5	<0.5	<0.5
	02/03/93	<50		<0.5	<0.5	<0.5	<0.5
	05/25/93	NS		NS	NS	NS	NS
	09/22/93	<50		0.51	0.82	<0.5	0.81
	12/21/93	<50		<0.5	<0.5	<0.5	<0.5
	03/18/94	<50		<0.5	<0.5	<0.5	<0.5
	06/15/94	<50		<0.5	<0.5	<0.5	<0.5
	09/14/94	<50		<0.5	<0.5	<0.5	<0.5
	12/19/94	<50		<0.5	<0.5	<0.5	<0.5
	03/07/95	<50		<0.5	<0.5	<0.5	<0.5
	06/08/95	<50		<0.5	<0.5	<0.5	<0.5
	09/22/95	<50		<0.50	<0.50	<0.50	<0.50
	12/27/95	<50		<0.50	<0.50	<0.50	<0.50
	03/26/96	<50		<0.50	<0.50	<0.50	<0.50
	06/13/96	<50		<5.0	<0.50	<0.50	<0.50
	09/10/96	<50		<5.0	<0.50	<0.50	<0.50
	12/05/96	<50		<5.0	<0.50	<0.50	<0.50
03/07/97	<50		<5.0	<0.50	<0.50	<0.50	
06/12/97	<50		<5.0	<0.50	<0.50	<0.50	
08/19/97	<50		<5.0	<0.50	<0.50	<0.50	
12/13/97	<50		<5.0	<0.50	<0.50	<0.50	
MW-8	03/30/92	3,000		1,700	880	970	1,900
	07/01/92	72,000		1,800	550	520	2,200
	09/30/92	12,000		680	140	140	560
	11/19/92	9,600		530	310	130	560
	02/03/93	44,000		1,500	1,300	490	2,300
	05/25/93	7,400		580	160	170	480
	09/22/93	2,400		490	45	37	140
	12/21/93	1,400		240	7.5	<2.5	82
	03/18/94	8,600		1,600	680	470	1,900
	06/15/94	4,800		980	380	260	1,200
	09/14/94	6,600		1,200	280	330	1,100
	12/19/94	8,400		1,800	390	500	2,000
	03/07/95	7,400		1,400	370	440	2,000
	06/08/95	6,000		790	220	290	1,400
	09/22/95	4,100		750	93	230	860
	12/27/95	5,400		860	140	350	1,400
	03/26/96	1,700		180	27	100	370
	06/13/96	2,400		42	500	67	850
	09/10/96	7,000		<50	1,300	100	410
	12/05/96	6,300		<50	1,100	78	410
03/07/97	6,500		<130	840	67	330	
06/12/97	7,500		<50	1,000	79	390	
08/19/97	1,100		<20	170	14	38	
12/13/97	4,100		24	300	29	190	

NOTES: < = Below indicated detection limit
ND = Reported as "nondetect" by previous consultant.
NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE ¹	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-9	12/20/94	16,000		2,500	1,400	690	2,800
	03/07/95	5,200		1,600	250	320	520
	06/08/95	4,900		1,000	98	300	200
	09/22/95	4,000		1,100	82	190	200
	12/27/95	2,800		960	100	200	250
	03/26/96	1,600		380	44	96	110
	06/13/96	1,800	750	540	71	140	180
	09/10/96	2,400	810	860	70	190	210
	12/05/96	5,500	960	2,100	420	380	720
	03/07/97	4,200	720	1,300	170	260	440
	06/12/97	11,000	1,000	2,500	490	560	1,300
	08/19/97	42,000	<1,000	7,700	3,500	2,000	8,300
	12/13/97	13,000	710	1,300	280	960	3,100

NOTES: < = Below indicated detection limit
 ND = Reported as "nondetect" by previous consultant.
 NS = Not sampled.

ENCLOSURE E

Remediation System Analytical Results



Report Number : 36841

Date : 2/2/2004

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Vapor Samples
Project Name : Tesoro Station 67106
Project Number : 67106
P.O. Number : 67106

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Jeff Dahl



Report Number : 36841

Date : 2/2/2004

Subject : 3 Air Samples
Project Name : Tesoro Station 67106
Project Number : 67106
P.O. Number : 67106

Case Narrative

For the air sample SVE-Eff, repeat analysis yielded inconsistent results for Toluene, Ethylbenzene, and Total Xylenes. A third analysis was not possible due to the deflation of the Tedlar bag. The highest recoveries for these analytes have been reported, flagged with a 'J' and should be considered an estimate.

Approved By:  _____
Jeff Dahl

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 36841

Date : 2/2/2004

Project Name : Tesoro Station 67106

Project Number : 67106

Sample : SVE-Inf

Matrix : Air

Lab Number : 36841-01

Sample Date :1/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.13	0.050	Molar ppm	EPA 8260B	1/30/2004
Toluene	1.7	0.050	Molar ppm	EPA 8260B	1/30/2004
Ethylbenzene	0.31	0.050	Molar ppm	EPA 8260B	1/30/2004
Total Xylenes	1.4	0.050	Molar ppm	EPA 8260B	1/30/2004
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	1/30/2004
TPH as Gasoline	29	5.0	Molar ppm	EPA 8260B	1/30/2004
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	1/30/2004
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	1/30/2004

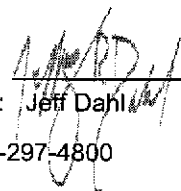
Sample : SVE-MID

Matrix : Air

Lab Number : 36841-02

Sample Date :1/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	1/30/2004
Toluene	0.078	0.050	Molar ppm	EPA 8260B	1/30/2004
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	1/30/2004
Total Xylenes	0.36	0.050	Molar ppm	EPA 8260B	1/30/2004
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	1/30/2004
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	1/30/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/30/2004
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	1/30/2004

Approved By:  Jeff Dahl



Report Number : 36841

Date : 2/2/2004

Project Name : Tesoro Station 67106

Project Number : 67106

Sample : SVE-Eff

Matrix : Air

Lab Number : 36841-03

Sample Date :1/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	1/30/2004
Toluene	0.092 J	0.050	Molar ppm	EPA 8260B	1/30/2004
Ethylbenzene	0.061 J	0.050	Molar ppm	EPA 8260B	1/30/2004
Total Xylenes	0.49 J	0.050	Molar ppm	EPA 8260B	1/30/2004
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	1/30/2004
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	1/30/2004
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	1/30/2004
4-Bromofluorobenzene (Surr)	93.7		% Recovery	EPA 8260B	1/30/2004

Approved By:  Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Analysis Summary

Report Number : 36841

Date : 2/2/2004

Attention : Richard Munsch
 RDM Environmental
 1704 Via Riata
 Roseville, CA 95747

Project Name : Tesoro Station 67106

Project Number : 67106

Sample Name			SVE-Inf		SVE-MID		SVE-Eff	
Sample Date			1/28/2004		1/28/2004		1/28/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results
Methyl-t-butyl ether (MTBE)	EPA 8260B	Molar ppm	0.10	ND	0.10	ND	0.10	ND
Benzene	EPA 8260B	Molar ppm	0.050	0.13	0.050	ND	0.050	ND
Toluene	EPA 8260B	Molar ppm	0.050	1.7	0.050	0.078	0.050	0.092 J
Ethylbenzene	EPA 8260B	Molar ppm	0.050	0.31	0.050	ND	0.050	0.061 J
Total Xylenes	EPA 8260B	Molar ppm	0.050	1.4	0.050	0.36	0.050	0.49 J
TPH as Gasoline	EPA 8260B	Molar ppm	5.0	29	5.0	ND	5.0	ND
Toluene - d8 (Surr)	EPA 8260B	%		98.8		101		99.9
4-Bromofluorobenzene (Surr)	EPA 8260B	%		105		99.0		93.7

MRL = Method Reporting Limit
 ND = Not Detected

Approved By,


 Jeff Dahl



2795 2nd Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 36841 Page 1 of 1

Project Contact (Hardcopy or PDF to): Richard Murch
 Company/Address: RPM Environmental
 Phone No.: (916) 771-2588 FAX No.: (916) 771-4584
 Project Number: 67106 P.O. No.: 67106
 Project Name: Tesoro Station 67106
 Project Address: San Leandro, CA

California EDF Report? Yes No
 Recommended but not mandatory to complete this section:
 Sampling Company Log Code: _____
 Global ID: _____
 EDF Deliverable To (Email Address): _____
 Sampler Signature: [Signature]

Chain-of-Custody Record and Analysis Request

Sample Designation: SVE-Inf, SVE-MID, SVE-Eff
 Date: 1/28/04 Time: 6:30, 6:28, 6:26
 Container: SLEEVE, teche
 Preservative: HCl, HNO₃, ICE, NONE
 Matrix: WATER, SOIL, Air

Analysis Request

BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2)	TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only
														12 hr/24 hr/48 hr/72 hr/1 wk	
															-01
															-02
															-03

Relinquished by: [Signature] Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: 01/29/04 Time: 1715 Received by Laboratory: [Signature]

Remarks: STAT
 Bill to: Tesoro Petroleum
Rob Donovan



Report Number : 37215

Date : 3/2/2004

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Vapor Samples
Project Name : Tesoro Station 67106
Project Number : 67106
P.O. Number : 67106

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Dahl", is written over a printed name.

Jeff Dahl



Report Number : 37215

Date : 3/2/2004

Project Name : **Tesoro Station 67106**Project Number : **67106**Sample : **SVE-Inf**

Matrix : Air

Lab Number : 37215-01

Sample Date :2/29/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.12	0.050	Molar ppm	EPA 8260B	3/2/2004
Toluene	0.91	0.050	Molar ppm	EPA 8260B	3/2/2004
Ethylbenzene	0.29	0.050	Molar ppm	EPA 8260B	3/2/2004
Total Xylenes	2.0	0.050	Molar ppm	EPA 8260B	3/2/2004
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	3/2/2004
TPH as Gasoline	24	5.0	Molar ppm	EPA 8260B	3/2/2004
Toluene - d8 (Surr)	91.7		% Recovery	EPA 8260B	3/2/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	3/2/2004

Sample : **SVE-MID**

Matrix : Air

Lab Number : 37215-02

Sample Date :2/29/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	3/2/2004
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	3/2/2004
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	3/2/2004
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	3/2/2004
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	3/2/2004
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	3/2/2004
Toluene - d8 (Surr)	92.4		% Recovery	EPA 8260B	3/2/2004
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	3/2/2004

Approved By:  Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 37215

Date : 3/2/2004

Project Name : **Tesoro Station 67106**

Project Number : **67106**

Sample : **SVE-Eff**

Matrix : Air

Lab Number : 37215-03

Sample Date :2/29/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	3/1/2004
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	3/1/2004
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	3/1/2004
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	3/1/2004
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	3/1/2004
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	3/1/2004
Toluene - d8 (Surr)	91.2		% Recovery	EPA 8260B	3/1/2004
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	3/1/2004

Approved By:  Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Analysis Summary

Report Number : 37215

Date : 3/2/2004

Attention : Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Project Name : Tesoro Station 67106

Project Number : 67106

Sample Name			SVE-Inf		SVE-MID		SVE-Eff	
Sample Date			2/29/2004		2/29/2004		2/29/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results
Methyl-t-butyl ether (MTBE)	EPA 8260B	Molar ppm	0.10	ND	0.10	ND	0.10	ND
Benzene	EPA 8260B	Molar ppm	0.050	0.12	0.050	ND	0.050	ND
Toluene	EPA 8260B	Molar ppm	0.050	0.91	0.050	ND	0.050	ND
Ethylbenzene	EPA 8260B	Molar ppm	0.050	0.29	0.050	ND	0.050	ND
Total Xylenes	EPA 8260B	Molar ppm	0.050	2.0	0.050	ND	0.050	ND
TPH as Gasoline	EPA 8260B	Molar ppm	5.0	24	5.0	ND	5.0	ND
Toluene - d8 (Surr)	EPA 8260B	%		91.7		92.4		91.2
4-Bromofluorobenzene (Surr)	EPA 8260B	%		102		99.1		97.7

MRL = Method Reporting Limit

ND = Not Detected

Approved By,

Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

ELAP # 2236



Report Number : 37487

Date : 3/19/2004

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Vapor Samples
Project Name : Tesoro Station 67106
Project Number : 67106

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Dahl", is written over a printed name.

Jeff Dahl



Report Number : 37487

Date : 3/19/2004

Project Name : **Tesoro Station 67106**

Project Number : **67106**

Sample : **SVE-Inf**

Matrix : Air

Lab Number : 37487-01

Sample Date : 3/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.13	0.050	ppmv	EPA 8260B	3/17/2004
Toluene	0.72	0.050	ppmv	EPA 8260B	3/17/2004
Ethylbenzene	0.15	0.050	ppmv	EPA 8260B	3/17/2004
Total Xylenes	0.88	0.050	ppmv	EPA 8260B	3/17/2004
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	3/17/2004
TPH as Gasoline	15	5.0	ppmv	EPA 8260B	3/17/2004
4-Bromofluorobenzene (Surr)	94.3		% Recovery	EPA 8260B	3/17/2004
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	3/17/2004

Approved By:  Jeff Dahl



Report Number : 37487

Date : 3/19/2004

Project Name : **Tesoro Station 67106**

Project Number : **67106**

Sample : SVE-MID

Matrix : Air

Lab Number : 37487-02

Sample Date : 3/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Toluene	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Total Xylenes	0.056	0.050	ppmv	EPA 8260B	3/17/2004
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	3/17/2004
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	3/17/2004
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	3/17/2004
Toluene - d8 (Surr)	95.7		% Recovery	EPA 8260B	3/17/2004

Approved By:  Jeff Dahl



Report Number : 37487

Date : 3/19/2004

Project Name : **Tesoro Station 67106**

Project Number : **67106**

Sample : **SVE-Eff**

Matrix : Air

Lab Number : 37487-03

Sample Date :3/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Toluene	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Total Xylenes	0.38	0.050	ppmv	EPA 8260B	3/17/2004
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	3/17/2004
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	3/17/2004
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	3/17/2004
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	3/17/2004
Toluene - d8 (Surr)	95.6		% Recovery	EPA 8260B	3/17/2004

Approved By:  Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Analysis Summary

Report Number : 37487

Date : 3/19/2004

Attention : Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Project Name : Tesoro Station 67106
Project Number : 67106

Sample Name			SVE-Inf		SVE-MID		SVE-Eff	
Sample Date			3/15/2004		3/15/2004		3/15/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ppmv	0.050	0.13	0.050	ND	0.050	ND
Toluene	EPA 8260B	ppmv	0.050	0.72	0.050	ND	0.050	ND
Ethylbenzene	EPA 8260B	ppmv	0.050	0.15	0.050	ND	0.050	ND
Total Xylenes	EPA 8260B	ppmv	0.050	0.88	0.050	0.056	0.050	0.38
Methyl-t-butyl ether (MTBE)	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Diisopropyl ether (DIPE)	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Tert-Butanol	EPA 8260B	ppmv	0.50	ND	0.50	ND	0.50	ND
TPH as Gasoline	EPA 8260B	ppmv	5.0	15	5.0	ND	5.0	ND
Toluene - d8 (Surr)	EPA 8260B	%		97.5		95.7		95.6
4-Bromofluorobenzene (Surr)	EPA 8260B	%		94.3		96.8		96.8

MRL = Method Reporting Limit
ND = Not Detected

Approved By,


Jeff Dahl

