

Environmental

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August 30, 2004

Mr. Jeff Baker

Tesoro Petroleum Companies, Inc.  
3450 S. 344<sup>th</sup> Way, Suite 100  
Auburn, Washington 98001-5931

Subject: *Quarterly Ground Water Monitoring and  
Remediation System Status Report, Second Quarter 2004*  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California  
RDM Project No. 02-67107

Dear Mr. Baker:

On Behalf of Tesoro Refining and Marketing Company, RDM Environmental (RDM) is submitting the following quarterly monitoring report to the Alameda County Environmental Health Department (ACEHD). This report describes quarterly ground water monitoring and remediation system status for the **Second Quarter 2004**.

**Work Performed During the Second Quarter 2004:**

- RDM performed ground water sampling on **April 16, 2004**.
- RDM conducted operation and maintenance on the remediation system.
- RDM is in the process of upgrading the remediation system. These modifications include adding three recovery wells to the existing ground water system and replacing the soil vapor extraction blower and air sparging compressor.
- RDM is working on off site right-of-entry to reinstall a new recovery well in the vicinity of MW-10.

**STATUS OF GROUND WATER MONITORING**

Cumulative ground water sampling information is summarized in Table 1. A site location map, site detail map, ground water elevation map, and benzene, total petroleum hydrocarbons as gasoline, and methyl-t-butyl ether isoconcentration maps are shown on Figures 1 through 6, respectively. 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.

- Local ground water flows towards recovery well RW-1 and historical ground water flow direction is to the southwest.

*Cost Effective Solutions*

### STATUS OF REMEDIATION SYSTEM

Operation and maintenance is performed bi-monthly by RDM on a remediation system consisting of ground water treatment, soil vapor extraction (SVE) and air sparging components. Details of system performance and cumulative totals are tabulated in Tables 2 through 4. A process flow diagram showing details of the system is shown as Figure 7.

#### Operation & Maintenance Site Visits:

- Operation and maintenance site visits were conducted for the **Second Quarter 2004** on:
  - **April 13 and 19, 2004**
  - **May 14 and 26, 2004**
  - **June 22 and 30, 2004**

#### Ground Water Extraction System Performance:

- The ground water treatment system operated intermittently during the **Second Quarter 2004**.
- During the **Second Quarter 2004**, the ground water system processed **338,950** gallons.
- As of **June 30, 2004**, the ground water system has processed approximately **3,692,580** gallons.
- The ground water system performance data is included in Table 2 and the remediation system analytical results are included in Enclosure D.
- Ground water is extracted from recovery well RW-1.

#### Soil Vapor Extraction System Performance:

- The SVE system did not operate during the **Second Quarter 2004**.
- During the **Second Quarter 2004**, the SVE system removed **0.0** pounds of vapor equivalent gasoline.
- As of **November 26, 2003**, the SVE system has removed approximately **210.5** pounds (**34.5** gallons) of vapor equivalent gasoline.
- The SVE analytical results are summarized in Table 3 and the SVE system performance data is included in Table 4.
- Soil vapor extraction was formerly conducted on wells MW-2, MW-3 and RW-1.
- The SVE system will be rehabilitated during the **Forth Quarter, 2004**.

#### Air Sparging System Performance:

- The air sparging system did not operate during the **Second Quarter 2004**.
- Air sparging is currently being conducted on monitoring wells MW-2 and MW-4 and air sparging wells AS-1, AS-2 and AS-3.
- The air compressor is on a 50/50 duty cycle.
- The air sparge system will be rehabilitated during the **Fourth Quarter, 2004**.

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### CONCLUSIONS/RECOMMENDATIONS

RDM recommends continued operation of the remediation system and quarterly ground water monitoring. Due to the persistent elevated concentrations of dissolved petroleum hydrocarbons in ground water in the vicinity of monitoring wells MW-10 and MW-11, RDM began conducting monthly dewatering events on these wells utilizing a vacuum truck. These monthly vacuum events will continue until MW-3, recovery well RW-2, and RW-3 can be brought on line as ground water recovery wells utilizing the existing remediation system.

In addition, RDM recommends adding an ozone generator to the existing air sparging system to evaluate the effectiveness of ozone in eliminating the elevated concentrations of dissolved MTBE in the vicinity of the site. RDM recently submitted a work plan to convert MW-3 and MW-10 to recovery wells, and install a new recovery well (RW-2) on site. RDM anticipates these new ground water recovery wells will be completed in the **Third Quarter 2004**. RDM is working on obtaining right-of-entry access to install a recovery well in the vicinity of monitoring well MW-10.

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.

RDM recommends a copy of this report be forwarded to the following people:


Ms. Eva Chu  
Alameda County  
Environmental Health Department  
470 27<sup>th</sup> Street, Room 322  
Oakland, CA 94612

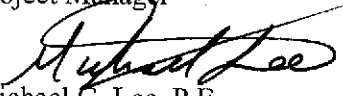
Mr. Steven Ritchie – California Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

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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 (67107 2Q GWM 4-16-04.doc)

**Enclosures:**

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

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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	02/18/92	43.67	16.42	27.25	NS	NS	NS	NS	NS	NS	NA	
	05/14/92		17.28	26.39	NS	NS	NS	NS	NS	NS	NA	
	05/15/92		NM	NC	2,000	47	1,200	400	41,000	NA	NA	
	08/27/92		19.48	24.19	NS	NS	NS	NS	NS	NS	NA	
	08/28/92		NM	NC	3,800	54	850	970	110,000	NA	NA	
	11/19/92		20.57	23.10	200	<5.0	90	140	3,600	NA	NA	
	02/03/93		15.91	27.76	180	22	79	130	3,000	NA	NA	
	06/23/93		16.21	27.46	2,400	74	650	510	12,000	NA	NA	No free product or sheen
	09/22/93		17.85	25.82	3,000	290	1,100	1,200	23,000	NA	NA	No free product or sheen
	01/24/94		17.91	25.76	2,400	280	1,100	1,700	18,000	NA	NA	
	04/07/94		16.94	26.73	4,200	820	1,600	2,100	20,000	NA	NA	No free product or sheen
	06/07/94		17.20	26.47	1,800	510	1,100	1,600	26,000	NA	NA	No free product or sheen
	09/28/94		18.73	24.94	1,700	210	970	870	18,000	NA	NA	No free product or sheen
	12/14/94		17.56	26.11	4,400	2,400	2,300	4,300	31,000	NA	NA	Product sheen
	03/15/95		14.92	28.75	830	310	840	1,200	17,000	NA	NA	Product sheen
	06/13/95		15.38	28.29	1,300	99	1,500	1,100	22,000	NA	NA	No free product or sheen
	09/28/95		16.75	26.92	580	<25	780	410	8,800	NA	NA	No free product or sheen
	12/28/95		17.28	26.39	4.9	<1.3	<1.3	290	4,800	74	NA	No free product or sheen
	01/30/96		NM	NC	17	7.1	20	45	1,500	63	NA	Not measured
	03/12/96		14.13	29.54	<0.5	<0.5	<0.5	<0.5	110	44	NA	No free product or sheen
	06/11/96		14.90	28.77	48	0.9	37	26	600	75	NA	No free product or sheen
	10/02/96		16.31	27.36	16	<0.5	6	0.92	210	11	NA	No free product or sheen
	01/28/97		12.99	30.68	<0.5	<0.5	<0.5	<0.5	150	160	NA	No free product or sheen
	05/20/97		15.28	28.39	<2.5	<2.5	<2.5	<2.5	680	640	NA	No free product or sheen
	08/18/97		16.74	26.93	<2.5	<2.5	<2.5	<2.5	<250	540	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NA	Not measured
11/05/97		17.45	26.22	2.8	<2.5	<2.5	<2.5	<250	400/390 <sup>b</sup>	NA	No free product or sheen	
03/31/98		12.47	31.20	260	13	110	150	3,300	7,900	NA	No free product or sheen	
05/26/98		13.69	29.98	NS	NS	NS	NS	NS	NS	NA	No free product or sheen	

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MW-1	05/28/98	43.67	NM	NC	120	<10	39	55	7,800	9,300	NA	No free product or sheen
(Cont.)	08/19/98		14.58	29.09	12	<2.5	6.0 <sup>c</sup>	3.8 <sup>c</sup>	<250 <sup>c</sup>	2,200	NA	No free product or sheen
	11/17/98		15.39	28.28	8.3	<2.5	9.2	7.6	860	4,200	NA	No free product or sheen
	02/18/99		13.52	30.15	2.7	<2.5	<2.5	3.9	310	4,200	NA	No free product or sheen
	06/24/99		15.02	28.65	10	<2.5	12	6.5	860	3,400	NA	No free product or sheen
	08/30/99		15.87	27.80	2.0	<0.5	3.9	2.0	140	2,800	NA	No free product or sheen
	11/09/99		16.65	27.02	<0.5	<0.5	3.1	2.0	170	1,500	NA	No free product or sheen
	03/22/00		13.96	29.71	2.8	<2.0	3.6	<2.0	<200	1,200	NA	No free product or sheen
	06/12/00		15.23	28.44	1.3	<1.0	<1.0	<1.0	190	640	NA	No free product or sheen
	11/15/00		17.05	26.62	<1.0	<0.1	<1.0	<1.0	240	960	NA	No free product or sheen
	02/26/01		15.46	28.21	1.2	<1.0	<1.0	<1.0	<100	2,800	NA	No free product or sheen
	05/21/01		16.22	27.45	<2.0	<2.0	<2.0	<2.0	<200	540	NA	No free product or sheen
	09/05/01		11.25	32.42	7.0	<2.0	<2.0	<2.0	<200	550	NA	No free product or sheen
	11/07/01		18.01	25.66	<2.0	<2.0	<2.0	<2.0	290	750	NA	No free product or sheen
	02/11/02	45.98	15.77	30.21	<1.0	<1.0	<1.0	<1.0	270	450	NA	No free product or sheen
	06/03/02		16.35	29.63	<2.0	<2.0	<2.0	<2.0	310	610	26 <sup>c</sup>	No free product or sheen
	08/06/02		17.00	28.98	<0.5	<0.5	<0.5	<0.5	170	540	20 <sup>c</sup>	No free product or sheen
	11/14/02		16.93	29.05	<2.0	<2.0	<2.0	<2.0	490	900	ND	No free product or sheen
	02/20/03		15.74	30.24	<1.0	<1.0	<1.0	<1.0	210	320	ND	No free product or sheen
	05/15/03		15.60	30.38	<1.5	<1.5	<1.5	<1.5	400	670	ND	No free product or sheen
	07/31/03		16.60	29.38	<1.5	<1.5	<1.5	<1.5	380	620	ND	No free product or sheen
	10/28/03		17.35	28.63	<1.0	<1.0	<1.0	<1.0	230	470	ND	No free product or sheen
	02/28/04		14.65	31.33	<0.5	<0.5	<0.5	<0.5	300	400	ND	No free product or sheen
	04/16/04		15.44	30.54	<1.5	<1.5	<1.5	<1.5	<200	510	ND	No free product or sheen

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MW-2	02/18/92	43.09	60.00	26.44	<0.5	<0.5	1.9	<0.5	1,600	NA	NA	
	05/14/92		16.64	26.45	1.2	1	1.3	<0.5	740	NA	NA	
	08/27/92		16.61	26.28	6.5	1.1	0.6	<0.5	1,400	NA	NA	
	11/19/92		19.91	23.18	<0.5	<0.5	2.7	<0.5	360	NA	NA	
	02/03/93		15.23	27.86	1.2	1.6	4.5	6.4	590	NA	NA	
	06/23/93		15.55	27.54	<0.5	<0.5	0.52	0.5	160	NA	NA	No free product or sheen
	09/22/93		17.22	25.87	<0.5	0.59	1.2	0.59	290	NA	NA	No free product or sheen
	01/24/94		17.20	25.89	<0.5	<0.5	0.68	<0.5	330	NA	NA	
	04/07/94		16.26	26.83	<0.5	<0.5	<0.5	4.4	490	NA	NA	No free product or sheen
	06/07/94		16.46	26.63	<0.5	<0.5	1.5	<0.5	550	NA	NA	No free product or sheen
	09/28/94		18.06	25.03	<0.5	<0.5	<0.5	<0.5	190	NA	NA	No free product or sheen
	12/14/94		16.86	26.23	7.2	0.84	<0.5	<0.5	1,400	NA	NA	No free product or sheen
	03/15/95		14.08	29.01	39	<0.5	0.53	<0.5	730	NA	NA	No free product or sheen
	06/13/95		14.67	28.42	8.3	<0.5	<0.5	<0.5	750 <sup>a</sup>	NA	NA	No free product or sheen
	09/28/95		16.07	27.02	<0.5	<0.5	<0.5	<0.5	670 <sup>a</sup>	NA	NA	No free product or sheen
	12/28/95		16.46	26.63	9.5	<5.0	<5.0	5.2	3,100	4,600	NA	No free product or sheen
	03/12/96		13.11	29.98	<1.3	<1.3	<1.3	<1.3	710	3,200	NA	No free product or sheen
	06/11/96		14.14	28.95	1.6	<1.3	<1.3	<1.3	1,900 <sup>a</sup>	5,100	NA	No free product or sheen
	10/02/96		15.71	27.38	<2.5	<2.5	<2.5	<2.5	2,800	7,900	NA	No free product or sheen
	01/28/97		12.05	31.04	<0.5	<0.5	<0.5	<0.5	130	210	NA	No free product or sheen
	05/20/97		14.65	28.44	120	16	<2.5	4.0	1,400	390	NA	No free product or sheen
	08/18/97		16.00	27.09	<2.5	<2.5	<2.5	<2.5	<250	2,000	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.75	26.34	<2.5	<2.5	<2.5	<2.5	<250	2,900/2,900 <sup>b</sup>	NA	No free product or sheen
	03/31/98		11.54	31.55	<0.5	<0.5	<0.5	<0.5	<10,000	85,000	NA	No free product or sheen
	05/26/98		12.78	30.31	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<500	<500	<500	<500	<50,000	97,000	NA	No free product or sheen
	08/19/98		14.40	28.69	<0.5	<0.5	<0.5	<0.5	210	22,000	NA	No free product or sheen
	11/17/98		15.18	27.91	<0.5	<0.5	<0.5	<0.5	<50	17,000	NA	No free product or sheen

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Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-2	02/18/99	43.09	14.07	29.02	<0.5	<0.5	<0.5	<0.5	<50	13,000	NA	No free product or sheen
(Cont.)	06/24/99		14.70	28.39	<15	<0.5	<0.5	<0.5	180	39,000	NA	No free product or sheen
	08/30/99		15.46	27.63	<25	<25	<25	<25	<2,500	18,000	NA	No free product or sheen
	11/09/99		16.03	27.06	<5.0	<5.0	<5.0	<5.0	<500	14,000	NA	No free product or sheen
	03/22/00		13.05	30.04	<5.0	<5.0	<5.0	<5.0	<500	54,000	NA	No free product or sheen
	06/12/00		14.50	28.59	<20	<20	<20	<20	<2,000	53,000	NA	No free product or sheen
	11/15/00		16.28	26.81	<50	<50	<50	<50	<5,000	35,000	NA	No free product or sheen
	02/26/01		14.98	28.11	<20	<20	<20	<20	<2,000	2,800	NA	No free product or sheen
	05/21/01		15.45	27.64	<25	<25	<25	<25	<5,000	20,000	NA	No free product or sheen
	09/05/01		15.17	27.92	<20	<20	<20	<20	<2,000	12,000	NA	No free product or sheen
	11/07/01		17.05	26.04	<20	<20	<20	<20	<2,000	7,600	NA	No free product or sheen
	02/11/02	45.23	13.29	31.94	<5.0	<5.0	<5.0	<5.0	<500	1,500	NA	No free product or sheen
	06/03/02		14.84	30.39	<5.0	<5.0	<5.0	<5.0	<500	2,200	190 <sup>e</sup>	No free product or sheen
	08/06/02		14.85	30.38	<5.0	<5.0	<5.0	<5.0	<500	3,300	110 <sup>e</sup>	No free product or sheen
	11/14/02		15.35	29.88	<10	<10	<10	<10	<1,000	3,200	120 <sup>e</sup>	No free product or sheen
	02/20/03		14.08	31.15	<0.5	<0.5	<0.5	<0.5	<50	160	ND	No free product or sheen
	05/15/03		14.55	30.68	<0.5	<0.5	<0.5	<0.5	<50	270	ND	No free product or sheen
	07/31/03		15.30	29.93	<0.5	<0.5	<0.5	<0.5	<50	300	ND	No free product or sheen
	10/28/03		14.93	30.30	<0.5	<0.5	<0.5	<0.5	<50	1,600	20 <sup>e</sup> , 1.8 <sup>f</sup>	No free product or sheen
	02/28/04		13.56	31.67	<0.5	<0.5	<0.5	<0.5	<50	340	ND	No free product or sheen
	04/16/04		14.40	30.83	<0.5	<0.5	<0.5	<0.5	<50	130	35 <sup>e</sup>	No free product or sheen



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MW-3	02/18/92	43.10	16.89	26.21	NS	NS	NS	NS	NS	NS	NS	
	05/14/92		16.60	26.50	NS	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	6,300	5,900	1,700	6,100	160,000	NA	NA	
	08/27/92		18.96	24.14	NS	NS	NS	NS	NS	NS	NS	
	08/28/92		NM	NC	2,500	40,000	6,700	44,000	1,300,000	NA	NA	
	11/18/92		20.38	23.01	NS	NS	NS	NS	NS	NS	NS	
	11/19/92		NM	NC	NS	NS	NS	NS	NS	NS	NS	
	02/03/93		15.43	27.67	7,200	11,000	2,900	13,000	82,000	NA	NA	
	06/23/93		15.67	27.43	3,200	5,300	2,500	9,100	61,000	NA	NA	Product sheen
	09/22/93		17.20	25.90	12,000	14,000	3,900	18,000	94,000	NA	NA	No free product or sheen
	01/24/94		17.35	25.75	14,000	17,000	4,200	14,000	110,000	NA	NA	
	04/07/94		14.48	28.62	6,500	1,800	1,700	4,100	28,000	NA	NA	No free product or sheen
	06/07/94		13.37	29.73	6,400	2,300	1,500	3,500	27,000	NA	NA	Product sheen
	09/28/94		18.05	25.05	7,400	4,300	1,500	4,600	40,000	NA	NA	No free product or sheen
	12/14/94		16.92	26.18	17,000	21,000	3,900	22,000	140,000	NA	NA	Product sheen
	03/15/95		14.22	28.88	4,900	1,900	1,800	7,100	58,000	NA	NA	Product sheen
	06/13/95		14.49	28.61	7,200	2,900	1,200	4,600	44,000	NA	NA	Product sheen
	09/28/95		15.17	27.93	5,600	2,100	1,900	6,900	30,000	NA	NA	No free product or sheen
	12/28/95		15.45	27.65	32	5.8	18	4,700	16,000	360	NA	No free product or sheen
	01/30/96		NM	NC	850	800	190	1,700	8,700	430	NA	Not measured
	03/12/96		11.35	31.75	48	64	5.3	630	2,400	97	NA	No free product or sheen
	06/11/96		Dry	Dry	NS	NS	NS	NS	NS	NS	NS	Dry
	10/02/96		Dry	Dry	NS	NS	NS	NS	NS	NS	NS	Dry
	01/28/97		Dry	Dry	NS	NS	NS	NS	NS	NS	NS	Dry
	05/20/97		Dry	Dry	NS	NS	NS	NS	NS	NS	NS	Plugged at 14 feet
	07/10/97		NM	NC	<0.50	<0.50	<0.50	4.8	300	40	NA	Not measured
	08/18/97		16.05	27.05	480	8.4	100	230	3,600	170	NA	No free product or sheen
	09/29/97		NM	NC	740	8.6	160	240	3500	210	NA	Not measured
	11/05/97		16.78	26.32	870	15	180	210	4,100	240/210 <sup>b</sup>	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-3	03/31/98	43.10	11.55	31.55	1,800	600	410	1,400	12,000	510	NA	No free product or sheen
(Cont.)	05/26/98		12.80	30.30	NS	NS	NS	NS	NS	NS	NA	No free product or sheen
	05/28/98		NM	NC	1,500	400	280	870	6,500	480	NA	No free product or sheen
	08/19/98		14.27	28.83	130	11	24	60	1,400	140	NA	No free product or sheen
	11/17/98		15.11	27.99	48	3.5	9.9	14	510	120	NA	No free product or sheen
	02/18/99		13.30	29.80	67	28	24	81	690	88	NA	No free product or sheen
	06/24/99		14.44	28.66	27	21	8.6	32	540	61	NA	No free product or sheen
	08/30/99		15.05	28.05	12	12	3.2	13	250	50	NA	No free product or sheen
	11/09/99		15.72	27.38	9.8	5.3	3.4	10	230	48	NA	No free product or sheen
	03/22/00		13.21	29.89	180	47	46	100	1,500	80	NA	No free product or sheen
	06/12/00		14.31	28.79	100	6.2	20	25	920	76	NA	No free product or sheen
	11/15/00		16.13	26.97	280	5.0	21	20	1,100	140	NA	No free product or sheen
	02/26/01		14.48	28.62	14	4.3	3.1	11	140	230	NA	No free product or sheen
	05/21/01		15.30	27.80	36	0.72	1.0	2.2	510	280	NA	No free product or sheen
	09/05/01		16.10	27.00	59	0.53	0.75	0.57	390	620	NA	No free product or sheen
	11/07/01		17.40	25.70	170	2.3	4.9	4.8	830	900	NA	No free product or sheen
	02/11/02	45.21	13.56	31.65	17	<2.5	4.7	7.9	370	1,200	NA	No free product or sheen
	06/03/02		15.54	29.67	120	<2.5	5.6	8.4	460	1,400	140°	No free product or sheen
	08/06/02		16.20	29.01	110	<5.0	<5.0	<5.0	800	2,200	170°	No free product or sheen
	11/14/02		16.50	28.71	89	<10	<10	<10	1,400	2,800	210°	No free product or sheen
	02/20/03		14.99	30.22	14	<5.0	<5.0	<5.0	<500	2,300	97°	No free product or sheen
	05/15/03		14.96	30.25	43	<5.0	<5.0	<5.0	<500	2,000	87°	No free product or sheen
	07/31/03		15.40	29.81	280	<5.0	6.6	7.4	1,500	1,600	130°	No free product or sheen
	10/28/03		16.20	29.01	140	1.6	6.5	4.0	2,200	1,100	74°, 0.75 <sup>f</sup>	No free product or sheen
	02/28/04		13.86	31.35	99	31	12	52	1,200	1,500	82°	No free product or sheen
	04/16/04		14.89	30.32	95	19	12	48	1,200	1,100	340°	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-4	02/18/92	44.66	18.51	26.15	<0.5	<0.5	12	21	5,100	NA	NA	
	05/14/92		18.22	26.44	<0.5	5.6	1.8	2.2	4,600	NA	NA	
	08/27/92		20.47	24.19	NS	NS	NS	NS	NS	NS	NS	
	08/28/92		NM	NC	6.6	1.3	1.6	3.1	1,700	NA	NA	
	11/19/92		21.58	23.08	<0.5	<0.5	<0.5	<0.5	400	NA	NA	
	02/03/93		16.98	27.68	<0.5	<0.5	<0.5	<0.5	1,100	NA	NA	
	06/23/93		17.23	27.43	<0.5	<0.5	<0.5	<0.5	120	NA	NA	No free product or sheen
	09/22/93		18.83	25.83	<0.5	<0.5	<0.5	<0.5	110	NA	NA	No free product or sheen
	01/24/94		18.86	25.80	<0.5	<0.5	<0.5	<0.5	260	NA	NA	
	04/07/94		17.90	26.76	<0.5	<0.5	<0.5	<0.5	430	NA	NA	No free product or sheen
	06/07/94		18.08	26.58	<0.5	<0.5	<0.5	<0.5	150	NA	NA	No free product or sheen
	09/28/94		19.70	24.96	<0.5	<0.5	<0.5	<0.5	75	NA	NA	No free product or sheen
	12/14/94		18.55	26.11	<0.5	<0.5	<0.5	<0.5	160	NA	NA	No free product or sheen
	03/15/95		16.14	28.52	<0.5	<0.5	<0.5	<0.5	500	NA	NA	No free product or sheen
	06/13/95		16.41	28.25	<0.5	<0.5	<0.5	<0.5	210 <sup>a</sup>	NA	NA	No free product or sheen
	09/28/95		17.88	26.78	<0.5	<0.5	<0.5	<0.5	140 <sup>a</sup>	NA	NA	No free product or sheen
	12/28/95		17.81	26.85	<0.5	<0.5	<0.5	<0.5	510 <sup>a</sup>	<5.0	NA	No free product or sheen
	03/12/96		14.77	29.89	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/11/96		15.88	28.78	<0.5	<0.5	<0.5	<0.5	50 <sup>a</sup>	<5.0	NA	No free product or sheen
	10/02/96		17.40	27.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		14.11	30.55	<0.5	<0.5	<0.5	<0.5	270 <sup>a</sup>	<5.0	NA	No free product or sheen
	05/20/97		16.24	28.42	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		17.59	27.07	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured	
11/05/97		18.24	26.42	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5 <sup>b</sup>	NA	No free product or sheen	
03/31/98		13.61	31.05	<0.5	<0.5	<0.5	<0.5	110	<5.0	NA	No free product or sheen	
05/26/98		14.78	29.88	NS	NS	NS	NS	NS	NS	NS	No free product or sheen	
05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	94	<5.0	NA	No free product or sheen	
08/19/98		16.15	28.51	<0.5 <sup>c</sup>	<0.5 <sup>c</sup>	<0.5 <sup>c</sup>	<0.5 <sup>c</sup>	120 <sup>c</sup>	46 <sup>c</sup>	NA	No free product or sheen	

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-4	11/17/98	44.66	16.93	27.73	1.3	<0.5	<0.5	<0.5	<50	780	NA	No free product or sheen
(Cont.)	02/18/99		15.30	29.36	8.2	<0.5	<0.5	<0.5	130	240	NA	No free product or sheen
	06/24/99		16.35	28.31	<1.0	<0.5	<0.5	<0.5	<50	2,100	NA	No free product or sheen
	08/30/99		17.12	27.54	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		17.60	27.06	<0.5	<0.5	<0.5	<0.5	<50	2,500	NA	No free product or sheen
	03/22/00		14.98	29.68	<0.5	<0.5	<0.5	<0.5	69	12,000	NA	No free product or sheen
	06/12/00		16.26	28.40	<20	<20	<20	<20	<2,000	17,000	NA	No free product or sheen
	11/15/00		17.98	26.68	<1.0	<1.0	<1.0	<1.0	<100	17,000	NA	No free product or sheen
	02/26/01		16.31	28.35	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		17.15	27.51	<25	<25	<25	<25	<5,000	13,000	NA	No free product or sheen
	09/05/01		18.22	26.44	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/07/01		19.01	25.65	<10	<10	<10	<10	<1,000	3,800	NA	No free product or sheen
	02/11/02	46.98	16.68	30.30	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	06/03/02		17.29	29.69	<2.0	<2.0	<2.0	<2.0	<200	1,100	38°, 2.0 <sup>f</sup>	No free product or sheen
	08/06/02		17.92	29.06	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/14/02		17.92	29.06	<2.0	<2.0	<2.0	<2.0	<200	700	ND	No free product or sheen
	02/20/03		16.72	30.26	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	05/15/03		16.51	30.47	<0.5	<0.5	<0.5	<0.5	<50	73	ND	No free product or sheen
	07/31/03		17.41	29.57	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	10/28/03		18.30	28.68	<0.5	<0.5	<0.5	<0.5	<50	65	ND	No free product or sheen
	02/28/04		15.82	31.16	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		16.42	30.56	<0.5	<0.5	<0.5	<0.5	<50	6.2	ND	No free product or sheen

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San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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	02/18/92	43.79	17.37	26.42	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	05/14/92		17.29	26.50	<0.5	<0.05	<0.5	<0.5	<50	NA	NA	
	08/27/92		22.18	21.61	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	11/19/92		20.68	23.11	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	02/03/93		15.91	27.88	3.0	2.7	8.0	9.9	55	NA	NA	
	06/23/93		16.24	27.55	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/22/93		17.93	25.86	0.66	1.1	<0.5	0.6	<50	NA	NA	No free product or sheen
	01/24/94		17.82	25.97	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	04/07/94		16.91	26.88	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/07/94		17.10	26.69	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/94		18.73	25.06	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/14/94		17.53	26.26	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	03/15/95		14.96	28.83	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/13/95		15.30	28.49	<0.5	0.52	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/95		16.74	27.05	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/28/95		15.10	28.69	<0.5	<0.5	<0.5	<0.5	120	<5.0	NA	No free product or sheen
	03/12/96		13.67	30.12	<0.5	<0.5	<0.5	<0.5	<50	9	NA	No free product or sheen
	06/11/96		14.88	28.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	10/02/96		16.42	27.37	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		12.83	30.96	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/20/97		15.33	28.46	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		16.69	27.10	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NA	Not measured
	11/05/97		17.37	26.42	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5 <sup>b</sup>	NA	No free product or sheen
	03/31/98		12.40	31.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/26/98		13.62	30.17	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/19/98		15.19	28.60	<0.5	<0.5	<0.5	<0.5	<50	7.1	NA	No free product or sheen
	11/17/98		15.89	27.90	<0.5	<0.5	<0.5	<0.5	<50	6.3	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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	02/18/99	43.79	14.23	29.56	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
(Cont.)	06/24/99		15.29	28.50	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		16.07	27.72	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		16.61	27.18	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/22/00		13.81	29.98	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/12/00		15.08	28.71	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		16.71	27.08	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/26/01		15.05	28.74	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		15.91	27.88	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	09/05/01		16.99	26.80	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		17.51	26.28	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/11/02	46.12	14.31	31.81	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		14.96	31.16	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	08/06/02		15.65	30.47	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		15.69	30.43	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/20/03		14.19	31.93	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		15.44	30.68	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		16.48	29.64	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		16.92	29.20	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/28/04		14.64	31.48	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		15.28	30.84	NS	NS	NS	NS	NS	NS	NA	Not Sampled

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
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 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-6	02/18/92	42.47	15.87	26.60	4.8	<0.5	<0.5	<0.5	370	NA	NA	
	05/14/92		16.04	26.43	<0.5	<0.5	<0.5	<0.5	120	NA	NA	
	08/27/92		18.17	24.30	1.2	<0.5	<0.5	<0.5	<50	NA	NA	
	11/19/92		19.30	23.17	1.3	<0.5	1	1.1	66	NA	NA	
	02/03/93		14.60	27.87	1.9	2.6	23	12	100	NA	NA	
	06/23/93		15.00	27.47	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/22/93		16.66	25.81	2.2	3.8	0.53	2.7	81	NA	NA	No free product or sheen
	01/24/94		16.52	25.95	<0.5	<0.5	<0.5	<0.5	98	NA	NA	
	04/07/94		15.70	26.77	0.71	<0.5	<0.5	<0.5	150	NA	NA	No free product or sheen
	06/07/94		15.88	26.59	<0.5	<0.5	<0.5	<0.5	180	NA	NA	No free product or sheen
	09/28/94		17.51	24.96	<0.5	<0.5	<0.5	<0.5	100	NA	NA	No free product or sheen
	12/14/94		16.27	26.20	<0.5	<0.5	<0.5	<0.5	140	NA	NA	No free product or sheen
	03/15/95		13.52	28.95	<0.5	<0.5	<0.5	<0.5	110	NA	NA	No free product or sheen
	06/13/95		13.96	28.51	<0.5	0.87	<0.5	<0.5	150 <sup>a</sup>	NA	NA	No free product or sheen
	09/28/95		15.61	26.86	0.78	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/28/95		15.54	26.93	<0.5	<0.5	<0.5	6.3	410	70	NA	No free product or sheen
	01/30/96		NM	NC	1.0	<0.5	<0.5	11	81	46	NA	Not measured
	03/12/96		11.88	30.59	<0.5	<0.5	<0.5	<0.5	<50	7	NA	No free product or sheen
	06/11/96		13.52	28.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	10/02/96		15.10	27.37	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		11.18	31.29	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/20/97		14.00	28.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		15.54	26.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.25	26.22	<0.5	<0.5	<0.5	<0.5	<50	<5.0/2.8 <sup>b</sup>	NA	No free product or sheen
	03/31/98		10.60	31.87	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/26/98		12.01	30.46	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/19/98		13.60	28.87	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-6	11/17/98	42.47	14.53	27.94	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
(Cont.)	02/18/99		12.39	30.08	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/24/99		13.89	28.58	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		14.75	27.72	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		15.18	27.29	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/22/00		12.30	30.17	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/12/00		13.69	28.78	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		15.73	26.74	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/26/01		14.42	28.05	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		15.23	27.24	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	09/05/01		16.31	26.16	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		17.01	25.46	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/11/02	44.79	15.72	29.07	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		16.39	28.40	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	08/06/02		18.90	25.89	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		18.93	25.86	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/20/03		15.64	29.15	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		14.07	30.72	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		15.21	29.58	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		15.73	29.06	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/28/04		13.12	31.67	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		13.92	30.87	NS	NS	NS	NS	NS	NS	NA	Not Sampled



TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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	02/18/92	41.54	15.51	26.03	16	<0.5	10	16	670	NA	NA	
	05/14/92		15.41	26.13	44	<0.5	38	88	1,500	NA	NA	
	08/27/92		17.45	24.09	400	5.8	290	1,400	23,000	NA	NA	
	11/19/92		18.54	23.00	29	<0.5	10	53	330	NA	NA	
	02/03/93		14.10	27.44	200	<0.5	110	480	2,000	NA	NA	
	06/23/93		14.33	27.21	20	<0.5	16	16	280	NA	NA	No free product or sheen
	09/22/93		15.92	25.62	71	2.2	33	210	860	NA	NA	No free product or sheen
	01/24/94		16.07	25.47	61	<1.3	10	160	900	NA	NA	
	04/07/94		15.10	26.44	53	<0.5	7.1	49	630	NA	NA	
	06/07/94		15.16	26.38	55	<0.5	14	24	730	NA	NA	No free product or sheen
	09/28/94		16.82	24.72	21	<0.5	2.3	3.1	300	NA	NA	No free product or sheen
	12/14/94		15.75	25.79	19	<0.5	3.3	32	430	NA	NA	No free product or sheen
	03/15/95		14.00	27.54	0.88	<0.5	<0.5	<0.5	70	NA	NA	No free product or sheen
	06/13/95		13.44	28.10	7.3	0.79	7.6	8.9	190	NA	NA	No free product or sheen
	09/28/95		14.84	26.70	1.5	<0.5	1.2	0.84	60	NA	NA	No free product or sheen
	12/28/95		14.55	26.99	<0.5	<0.5	0.91	0.69	60	10	NA	No free product or sheen
	03/12/96		11.88	29.66	<0.5	<0.5	<0.5	<0.5	<50	11	NA	No free product or sheen
	06/11/96		13.52	28.58	<0.5	<0.5	<0.5	<0.5	79	16	NA	No free product or sheen
	10/02/96		14.50	27.04	<0.5	<0.5	<0.5	<0.5	<50	26	NA	No free product or sheen
	01/28/97		11.08	30.46	<0.5	<0.5	<0.5	<0.5	<50	13	NA	No free product or sheen
	05/20/97		13.46	28.08	<0.5	0.85	<0.5	<0.5	78	40	NA	No free product or sheen
	08/18/97		14.95	26.59	<0.5	<0.5	<0.5	<0.5	<50	18	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NA	Not measured
	11/05/97		15.43	26.11	<0.5	<0.5	<0.5	<0.5	<50	8.9/8.0 <sup>b</sup>	NA	No free product or sheen
	03/31/98		10.25	31.29	<0.5	<0.5	<0.5	1.3	<5.0	6	NA	No free product or sheen
	05/26/98		11.45	30.09	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	10	NA	No free product or sheen
	08/19/98		13.08	28.46	<0.5	<0.5	<0.5	<0.5	<50	27	NA	No free product or sheen
	11/17/98		13.93	27.61	<0.5	<0.5	<0.5	<0.5	<50	30	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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	02/18/99	41.54	12.16	29.38	<0.5	<0.5	<0.5	<0.5	51	22	NA	No free product or sheen
(Cont.)	06/24/99		13.35	28.19	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		14.23	27.31	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		14.60	26.94	<0.5	<0.5	<0.5	<0.5	<50	16	NA	No free product or sheen
	03/22/00		11.91	29.63	<0.5	<0.5	<0.5	<0.5	<50	18	NA	No free product or sheen
	06/12/00		13.28	28.26	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		15.12	26.42	<0.5	<0.5	<0.5	<0.5	<50	17	NA	No free product or sheen
	02/26/01		13.46	28.08	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	05/21/01		14.31	27.23	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	09/05/01		15.42	26.12	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/07/01		16.18	25.36	<0.5	<0.5	<0.5	<0.5	<50	5.4	NA	Not Sampled
	02/11/02	43.85	13.76	30.09	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		14.33	29.52	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	08/06/02		15.04	28.81	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		15.05	28.80	<0.5	<0.5	<0.5	<0.5	<0.5	0.64	ND	No free product or sheen
	02/20/03		14.01	29.84	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		13.81	30.04	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		14.99	28.86	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		15.48	28.37	<0.5	<0.5	<0.5	<0.5	<0.5	<50	ND	No free product or sheen
	02/28/04		12.87	30.98	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		13.54	30.31	NS	NS	NS	NS	NS	NS	NA	Not Sampled

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-8	02/18/92	42.26	16.57	25.69	<0.5	<0.5	9.5	<0.5	1,200	NA	NA	
	05/14/92		16.24	26.02	<0.5	<0.5	<0.5	<0.5	130	NA	NA	
	08/27/92		18.28	23.98	<0.5	<0.5	<0.5	<0.5	140	NA	NA	
	11/19/92		19.32	22.94	<0.5	<0.5	2.0	<0.5	320	NA	NA	
	02/03/93		14.87	27.39	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	06/23/93		15.18	27.08	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/22/93		18.79	23.47	<0.5	0.67	<0.5	<0.5	<50	NA	NA	No free product or sheen
	01/24/94		17.06	25.20	<0.5	<0.5	<0.5	<0.5	290	NA	NA	
	04/07/94		15.95	26.31	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/07/94		15.10	27.16	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/94		17.63	24.63	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/14/94		16.66	25.60	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	03/15/95		14.30	27.96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/13/95		14.37	27.89	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/95		15.62	26.64	NS	NS	NS	NS	NS	NA	NA	No free product or sheen
	12/28/95		15.62	26.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	03/12/96		12.75	29.51	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/11/96		13.94	28.32	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	10/02/96		15.41	26.85	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		12.30	29.96	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/20/97		14.42	27.84	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		16.16	26.10	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.25	26.01	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5 <sup>b</sup>	NA	No free product or sheen
	03/31/98		11.49	30.77	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/26/98		12.60	29.66	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/19/98		14.15	28.11	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free Product or sheen
	11/17/98		14.98	27.28	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-8	02/18/99	42.26	13.41	28.85	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
(Cont.)	06/24/99		14.35	27.91	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		15.16	27.10	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		15.61	26.65	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/22/00		13.17	29.09	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/12/00		14.19	28.07	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		16.04	26.22	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/26/01		12.99	29.27	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		13.86	28.40	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	09/05/01		14.91	27.35	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		15.62	26.64	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/11/02	44.85	13.55	31.30	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		13.96	30.89	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	08/06/02		15.82	29.03	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		15.86	28.99	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/20/03		14.70	30.15	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		14.50	30.35	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		15.73	29.12	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		16.14	28.71	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/28/04		14.02	30.83	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		14.52	30.33	NS	NS	NS	NS	NS	NS	NA	Not Sampled

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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	02/18/92	44.94	18.87	26.07	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	05/14/92		18.55	26.39	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	08/27/92		20.80	24.14	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	11/19/92		21.90	23.04	<0.5	<0.5	<0.5	1.3	<50	NA	NA	
	02/03/93		17.25	27.69	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	06/23/93		17.61	27.33	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/22/93		19.18	25.76	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	01/24/94		19.17	25.77	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	04/07/94		18.23	26.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/07/94		18.40	26.54	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/94		20.01	24.93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/14/94		18.88	26.06	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	03/15/95		16.24	28.70	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/13/95		16.75	28.19	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/95		18.04	26.90	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/28/95		17.87	27.07	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	03/12/96		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	06/11/96		16.26	28.68	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	10/02/96		17.74	27.20	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		14.51	30.43	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/20/97		16.73	28.21	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		18.61	26.33	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5 <sup>b</sup>	NA	No free product or sheen
	03/31/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	05/26/98		15.28	29.66	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	08/19/98		16.55	28.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	11/17/98		17.32	27.62	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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	02/18/99	44.94	15.74	29.20	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
(Cont.)	06/24/99		16.73	28.21	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		17.48	27.46	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		17.98	26.96	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/22/00		15.46	29.48	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/12/00		16.70	28.24	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		18.65	26.29	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/26/01		14.80	30.14	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		15.68	29.26	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	09/05/01		16.70	28.24	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		17.23	27.71	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/11/02	47.26	17.16	30.10	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		17.66	29.60	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No free product or sheen
	08/06/02		18.26	29.00	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen
	11/14/02		18.33	28.93	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/20/03		16.85	30.41	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		16.63	30.63	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		17.58	29.68	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		17.93	29.33	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/28/04		16.22	31.04	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		16.82	30.44	NS	NS	NS	NS	NS	NS	NA	Not Sampled

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-10	02/18/92	42.34	16.63	25.71	110	57	440	53	18,000	NA	NA	
	05/14/92		15.25	27.09	NS	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	24	9.8	97	<0.5	8,500	NA	NA	
	08/27/92		18.35	23.99	NS	NS	NS	NS	NS	NS	NS	
	08/29/92		NM	NC	20	2.8	40	3.5	9,600	NA	NA	
	11/19/92		19.43	22.91	36	21	330	31	5,700	NA	NA	
	02/03/93		15.01	27.33	15	4.6	36	9.6	2,200	NA	NA	
	06/23/93		15.30	27.04	21	24	540	45	8,100	NA	NA	No free product or sheen
	09/22/93		16.90	25.44	22	17	350	16	6,200	NA	NA	No free product or sheen
	01/24/94		NM	NC	NS	NS	NS	NS	NS	NA	NA	Not measured
	04/07/94		15.97	26.37	6.4	2.9	150	4.7	4,000	NA	NA	No free product or sheen
	06/07/94		16.04	26.30	5.6	<2.5	150	5.7	6,700	NA	NA	No free product or sheen
	09/28/94		17.69	24.65	2.2	2.6	110	44	5,700	NA	NA	No free product or sheen
	12/14/94		16.65	25.69	<1.3	<1.3	77	27	3,500	NA	NA	No free product or sheen
	03/15/95		14.08	28.26	<5.0	6.7	150	23	7,200	NA	NA	No free product or sheen
	06/13/95		14.49	27.85	9	48	610	130	8,400	NA	NA	No free product or sheen
	09/28/95		15.81	26.53	22	17	360	24	6,300	NA	NA	No free product or sheen
	12/28/95		15.46	26.88	4.4	5.6	340	11	5,000	37	NA	No free product or sheen
	03/12/96		12.62	29.72	1.4	5.9	41	73	4,500	120	NA	No free product or sheen
	06/11/96		14.40	27.94	<5.0	25	350	81	7,500	<25	NA	No free product or sheen
	10/02/96		15.47	26.87	18	<2.5	<2.5	<2.5	2,600	<25	NA	No free product or sheen
	01/28/97		15.69	26.65	5.9	<2.5	29	19	2,800	<25	NA	No free product or sheen
	05/20/97		14.48	27.86	<20	34	290	74	6,000	<100	NA	No free product or sheen
	08/18/97		15.91	26.43	<20	7.7	94	15	5,900	<50	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.32	26.02	1.1	0.86	47	1.6	5,400	<50/2.3 <sup>b</sup>	NA	No free product or sheen
	03/31/98		12.25	30.09	56	180	1,400	3,700	20,000	250	NA	No free product or sheen
	05/26/98		12.97	29.37	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	76	200	1,600	3,900	16,000	190	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-10	08/19/98	42.34	14.27	28.07	95	160	1,300	1,700	14,000	<100	NA	No free product or sheen
(Cont.)	11/17/98		15.08	27.26	82	64	590	150	7,500	290	NA	No free product or sheen
	02/18/99		13.61	28.73	41	16	270	79	4,700	<100	NA	No free product or sheen
	06/24/99		14.50	27.84	27	74	280	160	9,400	300	NA	No free product or sheen
	08/30/99		15.26	27.08	15	33	160	33	8,500	290	NA	No free product or sheen
	11/09/99		15.72	26.62	3.9	11	60	14	7,600	120	NA	No free product or sheen
	03/22/00		13.40	28.94	3.5	33	360	320	5,800	160	NA	No free product or sheen
	06/12/00		14.42	27.92	4.3	47	370	210	7,200	270	NA	No free product or sheen
	11/15/00		16.75	25.59	0.54	2.2	3.8	7.3	4,400	420	NA	No free product or sheen
	02/26/01		14.73	27.61	<1.0	2.5	24	13	5,000	860	NA	No free product or sheen
	05/21/01		15.25	27.09	<0.5	3.2	4.1	12	3,500	530	NA	No free product or sheen
	09/05/01		16.35	25.99	<2.0	<2.0	<2.0	4.1	3,400	770	NA	No free product or sheen
	11/07/01		17.05	25.29	<0.5	0.64	0.75	2.7	3,600	790	NA	No free product or sheen
	02/11/02	44.65	14.94	29.71	<2.0	2.2	61	26	4,100	750	NA	No free product or sheen
	06/03/02		15.41	29.24	<1.0	7.0	67	37	4,100	320	26 <sup>o</sup>	No free product or sheen
	08/06/02		15.98	28.67	<1.0	5.4	18	18	4,500	310	18 <sup>o</sup>	No free product or sheen
	11/14/02		16.10	28.55	<1.0	<1.0	2.2	6.4	5,200	280	13 <sup>o</sup>	No free product or sheen
	02/20/03		14.90	29.75	<1.5	9.5	280	69	6,300	220	ND	No free product or sheen
	05/15/03		14.69	29.96	1.2	14	280	78	5,700	130	11 <sup>o</sup>	No free product or sheen
	07/31/03		15.63	29.02	<0.5	4.5	20	17	4,700	110	7.5 <sup>o</sup>	No free product or sheen
	10/28/03		16.39	28.26	<0.5	0.54	0.80	2.9	1,900	88	5.9 <sup>o</sup>	No free product or sheen
	02/28/04		14.01	30.64	<1.0	<1.0	17	7.9	3,500	44	ND	No free product or sheen
	04/16/04		14.69	29.96	<1.5	3.0	150	34	6,000	53	ND	No free product or sheen



TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-11	02/18/92	45.00	17.00	28.00	<0.5	<0.5	<0.5	<0.5	2,400	NA	NA	
	05/14/92		19.02	25.98	<0.5	1.9	1.3	0.7	1,600	NA	NA	
	08/27/92		21.13	23.87	15	2	0.6	1.2	2,100	NA	NA	
	11/19/92		17.91	27.09	<0.5	<0.5	<0.5	<0.5	490	NA	NA	
	02/03/92		17.91	27.09	<0.5	<0.5	0.55	<0.5	500	NA	NA	
	06/23/93		18.14	26.86	<0.5	<0.5	<0.5	<0.5	350	NA	NA	No free product or sheen
	09/22/93		19.63	25.37	<0.5	0.65	<0.5	0.71	200	NA	NA	No free product or sheen
	01/24/94		19.79	25.21	<0.5	<0.5	<0.5	<0.5	450	NA	NA	
	04/07/94		18.78	26.22	<0.5	<0.5	<0.5	<0.5	500	NA	NA	No free product or sheen
	06/07/94		18.88	26.12	<0.5	<0.5	<0.5	0.64	560	NA	NA	No free product or sheen
	09/28/94		20.45	24.55	<0.5	<0.5	<0.5	<0.5	600	NA	NA	No free product or sheen
	12/14/94		19.45	25.55	<0.5	<0.5	<0.5	<0.5	340	NA	NA	No free product or sheen
	03/15/95		17.32	27.68	<0.5	<0.5	<0.5	<0.5	340	NA	NA	No free product or sheen
	06/13/95		17.43	27.57	<0.5	<0.5	<0.5	<0.5	210 <sup>a</sup>	NA	NA	No free product or sheen
	09/28/95		18.67	26.33	4.1	0.5	<0.5	<0.5	93	NA	NA	No free product or sheen
	12/28/95		18.31	26.69	<0.5	<0.5	<0.5	<0.5	380 <sup>a</sup>	<5.0	NA	No free product or sheen
	03/12/96		15.89	29.11	<0.5	<0.5	<0.5	<0.5	110	<5.0	NA	No free product or sheen
	06/11/96		16.98	28.02	<0.5	<0.5	<0.5	<0.5	400 <sup>a</sup>	<5.0	NA	No free product or sheen
	10/02/96		18.20	26.80	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		12.53	32.47	<0.5	<0.5	<0.5	<0.5	110 <sup>a</sup>	<5.0	NA	No free product or sheen
	05/20/97		17.36	27.64	<0.5	<0.5	<0.5	<0.5	330	<5.0	NA	No free product or sheen
	08/18/97		18.84	26.16	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS
11/05/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	Not measured
03/31/98		15.39	29.61	<0.5	2.8	12	16	460	<5.0	NA	No free product or sheen	
05/26/98		16.25	28.75	NS	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
05/28/98		NM	NC	14	24	88	75	1,100	24	NA	NA	No free product or sheen
08/19/98		17.30	27.70	16	9.6	69	17	1,200	6	NA	NA	No free product or sheen
11/17/98		18.05	26.95	15	4.4	14	<0.5	580	21	NA	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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-11	02/18/99	45.00	16.87	28.13	8.0	<0.5	1.4	<0.5	390	44	NA	No free product or sheen
(Cont.)	06/24/99		17.50	27.50	4.6	<0.5	0.66	<0.5	610	59	NA	No free product or sheen
	08/30/99		18.19	26.81	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		18.64	26.36	0.87	<0.5	<0.5	<0.5	250	66	NA	No free product or sheen
	03/22/00		16.52	28.48	<0.5	<0.5	<0.5	<0.5	330	100	NA	No free product or sheen
	06/12/00		17.44	27.56	<0.5	<0.5	<0.5	<0.5	52	49	NA	No free product or sheen
	11/15/00		19.07	25.93	<0.5	<0.5	<0.5	<0.5	<50	1.8	NA	
	02/26/01		17.80	27.20	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		18.23	26.77	<0.5	<0.5	<0.5	<0.5	<50	30	NA	No free product or sheen
	09/05/01		19.21	25.79	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		19.80	25.20	<0.5	<0.5	<0.5	<0.5	360	330	NA	No free product or sheen
	02/11/02	47.36	17.40	29.96	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		18.30	29.06	<0.5	<0.5	<0.5	<0.5	120	220	13 <sup>e</sup>	No free product or sheen
	08/06/02		18.80	28.56	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		18.94	28.42	<1.0	<1.0	<1.0	<1.0	240	380	ND	No free product or sheen
	02/20/03		17.46	29.90	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		17.64	29.72	<0.5	<0.5	<0.5	<0.5	160	170	ND	No free product or sheen
	07/31/03		18.81	28.55	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		19.20	28.16	<0.5	<0.5	<0.5	<0.5	<50	35	ND	No free product or sheen
	02/28/04		17.33	30.03	<0.5	<0.5	<0.5	<0.5	360	140	ND	No free product or sheen
	04/16/04		17.67	29.69	<0.5	<0.5	<0.5	<0.5	440	110	ND	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

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San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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
RW-1	05/14/92	43.17	16.88	26.29	NS	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	270	62	29	140	790	NA	NA	
	08/27/92		19.05	24.12	1,300	200	68	810	24,000	NA	NA	
	11/19/92		21.11	22.07	NS	NS	NS	NS	NS	NS	NS	
	02/03/92		15.48	27.69	71	35	22	110	620	NA	NA	
	06/23/93		28.25	14.92	30	33	9.8	35	220	NA	NA	No free product or sheen
	09/22/93		17.83	25.34	800	400	170	910	4,100	NA	NA	No free product or sheen
	01/24/94		24.00	19.17	33	6	6.9	23	190	NA	NA	
	04/07/94		16.05	27.12	110	57	32	260	1,500	NA	NA	No free product or sheen
	06/07/94		16.00	27.17	130	51	45	180	1,700	NA	NA	No free product or sheen
	09/28/94		18.35	24.82	54	9.2	12	29	350	NA	NA	No free product or sheen
	12/14/94		19.50	23.67	6.8	2.1	1.2	3.4	79	NA	NA	No free product or sheen
	03/15/95		17.00	26.17	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	04/10/95		NM	NC	54	11	11	69	410	NA	NA	Not measured
	06/13/95		14.95	28.22	1,600	780	340	1,400	8,200	NA	NA	No free product or sheen
	09/28/95		27.63	15.54	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/28/95		14.54	28.63	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	03/12/96		11.02	32.15	<0.5	<0.5	<0.5	<0.5	86	110	NA	No free product or sheen
	06/11/96		14.52	28.65	38	11	4.7	50	230	68	NA	No free product or sheen
	10/02/96		15.53	27.64	68	29	14	75	360	47	NA	No free product or sheen
	01/28/97		12.59	30.58	0.77	<0.5	<0.5	<0.5	<50	9	NA	No free product or sheen
	05/20/97		14.85	28.32	<0.5	<0.5	<0.5	<0.5	<50	32	NA	No free product or sheen
	08/18/97		16.19	26.98	25	<0.5	<0.5	3.6	220	170	NA	No free product or sheen
09/29/97		NM	NC	240	2.8	51	55	900	230	NA	Not measured	
11/05/97		16.95	26.22	340	3.2	59	78	1,300	240/220 <sup>b</sup>	NA	No free product or sheen	
03/31/98		11.85	31.32	450	130	200	940	4,100	4,100	NA	No free product or sheen	
05/26/98		13.13	30.04	NS	NS	NS	NS	NS	NS	NS	No free product or sheen	
05/28/98		NM	NC	830	210	170	720	17,000	14,000	NA	No free product or sheen	
08/19/98		14.70	28.47	20	<2.5	7.1	15	540	2,100	NA	No free product or sheen	

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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
RW-1 (cont)	11/17/98	43.17	15.54	27.63	7.8	<2.5	5.6	<2.5	630	730	NA	No free product or sheen
	02/18/99		13.75	29.42	6.7	1.6	3.2	15	180	100	NA	No free product or sheen
	06/24/99		14.96	28.21	<0.5	<0.5	<0.5	<0.5	<50	42	NA	No free product or sheen
	08/30/99		15.75	27.42	<0.5	<0.5	<0.5	<0.5	<50	79	NA	No free product or sheen
	11/09/99		17.45	25.72	<0.5	<0.5	<0.5	<0.5	<50	78	NA	No free product or sheen
	03/22/00		13.51	29.66	1.2	<0.5	<0.5	<0.5	<50	17	NA	No free product or sheen
	06/12/00		13.65	29.52	<0.5	<0.5	<0.5	1.0	<50	40	NA	No free product or sheen
	11/15/00		29.45	13.72	<0.5	<0.5	<0.5	<0.5	<50	290	NA	No free product or sheen
	02/26/01		28.40	14.77	<0.5	<0.5	<0.5	<0.5	<50	360	NA	No free product or sheen
	05/21/01		43.17	27.81	4.1	1.6	1.8	23	100	170	NA	No free product or sheen
	09/05/01		26.90	16.27	33	<0.5	<0.5	<0.5	73	310	NA	No free product or sheen
	11/07/01		28.41	14.76	<0.5	<0.5	<0.5	<0.5	<50	240	NA	No free product or sheen
	02/11/02		45.47	27.61	17.86	<0.5	<0.5	<0.5	<0.5	<50	21	NA
	06/03/02	26.90	18.57	<0.5	<0.5	<0.5	<0.5	<50	160	7.7 <sup>e</sup>	No free product or sheen	

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to 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
RW-1	08/06/02		25.56	19.91	<0.5	<0.5	<0.5	<0.5	<50	190	6.0 <sup>e</sup>	No free product or sheen
(cont)	11/14/02		24.83	20.64	<0.5	<0.5	<0.5	<0.5	<50	170	ND	No free product or sheen
	02/20/03		23.56	21.91	<0.5	<0.5	<0.5	<0.5	<50	120	ND	No free product or sheen
	05/15/03		22.80	22.67	<0.5	<0.5	<0.5	<0.5	<50	110	ND	No free product or sheen
	07/31/03		21.71	23.76	<0.5	<0.5	<0.5	<0.5	<50	99	ND	No free product or sheen
	10/28/03		22.07	23.40	<0.5	<0.5	<0.5	<0.5	<50	88	ND	No free product or sheen
	02/28/04		19.32	26.15	1.3	<0.5	<0.5	<0.5	<50	52	ND	No free product or sheen
	04/16/04		23.95	21.52	<0.5	<0.5	<0.5	<0.5	<50	57	ND	No free product or sheen
DW-15800*	01/14/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	0.81	ND	No free product or sheen
	03/20/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen
DW-15808*	01/14/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen
	03/20/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen

<sup>a</sup> Product is not typical gasoline.

<sup>b</sup> MTBE by EPA Method 8020/EPA Method 8260.

<sup>c</sup> Constituents by EPA Method 8260.

<sup>d</sup> Oxygenates = diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol, methanol, and ethanol.

<sup>e</sup> Tert-Butanol

<sup>f</sup> Tert-amyl methyl ether

\* = Domestic Water Wells (used as irrigation wells) Located at 15800 & 15808 Via Cordoba, San Lorenzo, CA.

Top of Riser Elevations = Elevations surveyed relative to mean sea level.

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.

NS = Not sampled.

NM = Not measured.

NC = Not calculated.

NA = Not analyzed.

Note: Aegis Environmental, Inc. collected data prior to June 23, 1993.

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPH <sup>g</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
10/4/2000	190,140	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/17/2000	190,140	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/10/2000	190,440	300	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/29/2000	200,600	10,460	Influent	14	<0.5	<0.5	1.1	96	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
12/7/2000	201,010	410	Influent	14	<0.5	<0.5	<0.5	56	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
12/20/2000	218,900	17,890	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/04/01	218,970	70	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/19/01	110	100	Influent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
02/15/01	12,730	12,620	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/23/01	21,900	9,170	Influent	<0.5	<0.5	<0.5	<0.5	<50	240	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	1.8	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	7.3	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.4	<10	5.0	7.63
03/01/01	22,260	360	Influent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<10	<5.0	7.49
03/23/01	50,000	27,740	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
04/05/01	118,900	68,900	Influent	<0.5	<0.5	<0.5	<0.5	<50	320	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	65	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	9.2	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.79
04/18/01	140,190	21,290	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/01	159,810	19,620	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/21/01	172,540	12,730	Influent	3.8	1.4	1.3	16	67	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<10	<5.0	7.90
06/05/01	185,810	13,270	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/21/01	185,830	20	Influent	2.9	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<10	<5.0	7.44
07/05/01	186,000	170	Influent	3.6	<0.5	<0.5	<0.5	<50	290	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	100	8.3	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	47	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	12	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	6.99
07/16/01	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/17/01	186,040	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/24/01	207,160	21,120	Influent	8.5	<0.5	<0.5	1.4	<50	370	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	100	62	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	90	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	25	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.79
09/06/01	233,430	26,270	Influent	66	0.93	<0.5	6.3	150	650	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	6.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	67	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	24	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.62
09/29/01	239,410	5,980	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/08/01	273,690	34,280	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
10/19/01	273,800	110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/02/01	352,260	78,460	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/23/01	394,260	42,000	Influent	22	<2.0	<2.0	<2.0	<200	630	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	31	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	9.07/7.82**
12/13/01	400,690	6,430	Influent	5.7	<1.0	<1.0	<1.0	<100	370	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	31	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	NA	7.66**
12/27/2001	437,150	36,460	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/17/02	437,340	190	Influent	<0.5	<0.5	<0.5	<0.5	<50	240	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	25	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.54**
01/29/02	461,150	23,810	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/13/02	477,300	16,150	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/18/02	507,110	29,810	Influent	0.6	<0.5	<0.5	2.1	<50	180	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	7.8	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.68**
03/08/02	509,940	2,830	NS	NS	NS	NS	NS	NS	NS	NS	NS	
03/20/02	561,510	51,570	Influent	1.2	<0.5	<0.5	2.1	<50	210	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	9.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	18	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	11	52	7.45**
04/12/02	568,950	7,440	NS	NS	NS	NS	NS	NS	NS	NS	NS	



Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
04/18/02	570,490	1,540	Influent	<0.5	<0.5	<0.5	<0.5	<50	140	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	26	7.8**
05/13/02	703,960	133,470	Influent	<0.5	<0.5	<0.5	<0.5	<50	220	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	98	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	13	<1.0	7.45**
05/24/02	762,880	58,920	NS	NS	NS	NS	NS	NS	NS	NS	NS	
06/12/02	861,220	98,340	Influent	<0.5	<0.5	<0.5	<0.5	<50	220	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	89	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	23	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<5.0	5	7.24**
06/20/02	902,920	41,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/05/02	976,890	73,970	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/23/02	988,120	11,230	Influent	85	<0.5	<0.5	7.3	220	520	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	10	3.6	7.46**
08/01/02	1,040,520	52,400	NS	NS	NS	NS	NS	NS	NS	NS	NS	
08/21/02	1,132,920	92,400	Influent	<0.5	<0.5	<0.5	<0.5	<50	190	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	29	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	4.8	5.1	<1.0	7.32**
09/14/02	1,245,710	112,790	NS	NS	NS	NS	NS	NS	NS	NS	NS	
09/23/02	1,268,520	22,810	Influent	6.5	0.53	1.2	2.5	<50	230	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	7.7	<1.0	7.47**
10/07/02	1,332,060	63,540	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
10/22/02	1,392,920	60,860	Influent	<0.5	<0.5	<0.5	<0.5	<50	150	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	69	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	13.0	<1.0	7.48**
11/11/02	1,411,070	18,150	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/24/02	1,474,210	63,140	Influent	<0.5	<0.5	<0.5	<0.5	<50	170	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	130	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	3.2	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.95	10.0	<1.0	7.52**
12/11/02	1,548,430	74,220	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/20/02	1,597,130	48,700	Influent	<0.5	<0.5	<0.5	<0.5	<50	150	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	120	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	1.5	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	0.57	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.71	<5.0	<1.0	7.58**
01/03/03	1,671,090	73,960	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/29/03	1,807,900	136,810	Influent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	10.0	<1.0	7.47**
02/17/03	1,904,010	96,110	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/20/03	1,919,460	15,450	Influent	<0.5	<0.5	<0.5	<0.5	<50	130	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	100	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	7.2	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.7	<1.0	7.71
03/04/03	1,978,940	59,480	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
03/20/03	2,012,550	33,610	Influent	5.7	0.72	1.5	5.1	65	260	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	2.3	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.52	<5.0	<1.0	7.42
04/01/03	2,072,600	60,050	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/22/03	2,176,680	104,080	Influent	<0.5	<0.5	<0.5	<0.5	<50	120	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	69	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	70	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	2.1	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.72	16.0	<1.0	7.49
05/14/03	2,286,720	110,040	NS	NS	NS	NS	NS	NS	NS	NS	NS	
05/29/03	2,344,540	57,820	Influent	8.0	1.1	2.6	6.7	79	140	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	4.3	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	5.7	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	0.77	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.66	5.1	<1.0	7.62
06/10/03	2,345,770	1,230	NS	NS	NS	NS	NS	NS	NS	NS	NS	
06/24/03	2,346,180	410	Influent	3.4	<0.5	0.78	1.2	<50	250	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	2.2	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.7	<1.0	7.42
07/02/03	2,384,820	38,640	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/21/03	2,467,900	83,080	Influent	<0.5	<0.5	<0.5	<0.5	<50	110	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	83	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NS	NS	NS
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	18	<1.0	7.84
08/06/03	2,537,130	69,230	NS	NS	NS	NS	NS	NS	NS	NS	NS	
08/20/03	2,596,230	59,100	Influent	<0.5	<0.5	<0.5	<0.5	<50	82	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	63	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	11	NS	NS	NS
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NR	NR	7.24
09/07/03	2,603,720	7,490	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
09/21/03	2,604,320	600	Influent	1.0	<0.5	<0.5	<0.5	<50	240	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	3.0	NS	NS	NS
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<1.0	7.61
10/10/03	2,677,470	73,150	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/30/03	2,756,950	79,480	Influent	<0.5	<0.5	<0.5	<0.5	<50	89	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	65	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	12	NA	NA	NA
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.6	<5.0	<1.0	6.88
11/16/03	2,821,800	64,850	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/26/03	2,853,250	31,450	Influent	<0.5	<0.5	<0.5	<0.5	<50	87	NA	NA	NA
			Dat-Eff	0.96	<0.5	<0.5	<0.5	<50	60	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<1.0	7.12
12/18/03	2,900,120	46,870	Influent	<0.5	<0.5	<0.5	<0.5	<50	3.2	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	12	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<1.0	7.28
12/29/03	2,956,060	55,940	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/10/04	2,959,680	3,620	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/28/04	2,959,680	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/13/04	2,959,680	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/28/04	2,960,330	650	Influent	1.4	<0.5	<0.5	<0.5	<50	110	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	2.6	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	<1.0	7.48
03/15/04	3,051,940	91,610	Influent	<0.5	<0.5	<0.5	<0.5	<50	73	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	61	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	0.64	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.7	<1.0	7.64

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
03/30/04	3,134,660	82,720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/13/04	3,207,100	72,440	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/19/04	3,224,586	17,486	Influent	1.4	<0.5	<0.5	0.89	<50	89	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	5.6	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	1.9	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	5.1	<1.0	7.82
05/14/04	3,340,018	115,432	NS	NS	NS	NS	NS	NS	NS	NS	NS	
05/26/04	3,392,984	52,966	Influent	<0.5	<0.5	<0.5	<0.5	<50	65	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	52	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	10	4.2	7.66
06/22/04	3,456,780	63,796	Influent	4.7	<0.5	0.81	1.8	<50	99	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	NR	NR	NR	NR	NR	NR	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	20.0	<1.0	7.56
06/30/04	3,473,610	16,830	NS	NS	NS	NS	NS	NS	NS	NS	NS	

\* = changed out totalizer

\*\* = Field Measurements

ppm = parts per million

Notes:

a) Total Petroleum Hydrocarbon as gasoline

b) Methyl-t-butyl ether

c) C.O.D. = Chemical oxygen demand.

d) T.S.S. = Total suspended solids.

NS = Not Sampled

NA = Not Analyzed

NR = Not Reported - results not released by laboratory at the time of this submittal

**TABLE 3**  
**SVE SYSTEM ANALYTICAL RESULTS**

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California

Sample I.D.	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	4/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	4/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	4/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	5/10/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	5/10/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	5/10/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	6/8/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	6/8/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	6/8/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	12/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	12/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	1/19/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	1/19/2001	<0.05	<0.05	<0.05	0.053	<5.0	<0.10
Effluent	1/19/2001	<0.05	<0.05	<0.05	0.071	<5.0	<0.10
Influent	2/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	2/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	2/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	3/1/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	3/1/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	3/1/2001	<0.05	<0.05	<0.05	0.055	<5.0	<0.10
Influent	4/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	4/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	4/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	5/21/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	5/21/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	5/21/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

**TABLE 3**  
**SVE SYSTEM ANALYTICAL RESULTS**

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California

Sample I.D.	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	6/21/2001	<0.05	<0.05	<0.05	<0.05	5.3	<0.10
Mid Air	6/21/2001	<0.05	<0.05	<0.05	<0.05	8.4	<0.10
Effluent	6/21/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	7/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	7/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	7/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	8/24/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	8/24/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	8/24/2001	<0.05	<0.05	<0.05	0.066	<5.0	<0.10
Influent	9/6/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	9/6/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	9/6/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	11/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	11/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/13/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	12/13/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/13/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	1/17/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Mid Air	1/17/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	1/17/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	3/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	3/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	3/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	4/18/2002	<0.05	<0.05	<0.05	<0.05	<5.0	0.17
Mid Air	4/18/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	4/18/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	5/13/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	5/13/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	5/13/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA

**TABLE 3**  
**SVE SYSTEM ANALYTICAL RESULTS**

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California

Sample I.D.	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	6/12/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	6/12/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	6/12/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	8/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	8/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	8/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	9/23/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	9/23/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	9/23/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	10/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	10/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	10/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	11/24/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	11/24/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	11/24/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	12/20/2002	<0.05	<0.05	<0.05	0.05	<5.0	<0.10
Mid Air	12/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	12/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	1/29/2003	<0.05	<0.05	<0.05	0.05	<5.0	NA
Mid Air	1/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	1/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	2/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	2/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	2/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	3/20/2003	<0.05	<0.05	<0.05	0.05	<5.0	<0.10
Mid Air	3/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	3/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	4/22/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	4/22/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	4/22/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10



**TABLE 3**  
**SVE SYSTEM ANALYTICAL RESULTS**

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California

Sample I.D.	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	5/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	5/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	5/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	6/24/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	6/24/2003	<0.05	<0.05	<0.05	<0.05	<5.0	0.12
Effluent	6/24/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	7/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	7/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	0.13
Effluent	7/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	8/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid Air	8/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	8/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	9/21/2003	<0.05	<0.05	<0.05	<0.05	5.6	0.067
Mid Air	9/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	0.12
Effluent	9/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	10/30/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	10/30/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	10/30/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	11/26/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	11/26/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	11/26/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

MTBE = methyl-t-butyl ether  
TPH = Total Petroleum Hydrocarbons  
ppmv = parts per million by volume  
NA = not analyzed

TABLE 4

## SVE SYSTEM MONITORING

Tesoro Station No. 67107  
 (Former Beacon Station No. 3721)  
 44 Lewelling Boulevard  
 San Lorenzo, California

Date	Inlet Flow Rate (ft <sup>3</sup> /min)	Stack Flow Rate (ft <sup>3</sup> /min)	SVE TPH Influent (ppmv)	SVE TPH Effluent (ppmv)	SVE Benzene Influent (ppmv)	SVE Benzene Effluent (ppmv)	SVE TPH Extraction Rate (lbs/day)	SVE TPH Mass Emission (lbs/day)	SVE Benzene Extraction Rate (lbs/day)	SVE Benzene Emission Rate (lbs/day)	Cumulative Volume of Processed Air (cubic feet)	Cumulative		Total Hours Operated	Change in Hours of Operation
												TPH Extraction (lbs)	TPH Extraction (lbs)		
04/07/00	105	105	<5.0	<5.0	<0.05	<0.05	<0.18	<0.18	<0.002	<0.002	5.53 E+05	0.7	NA	15,346	88
05/10/00	124	124	<5.0	<5.0	<0.05	<0.05	<0.21	<0.21	<0.002	<0.002	5.88 E+06	6.5	7.2	16,138	792
06/08/00	124	124	<5.0	<5.0	<0.05	<0.05	<0.21	<0.21	<0.002	<0.002	5.17 E+06	3.1	10.3	16,834	696
11/29/00	140	140	<5.0	<5.0	<0.05	<0.05	<0.24	<0.24	<0.002	<0.002	2.34 E+07	14.0	24.3	19,619	2,785
12/07/00	140	140	<5.0	<5.0	<0.05	<0.05	<0.24	<0.24	<0.002	<0.002	1.61 E+06	1.0	25.2	19,811	192
01/19/01	170	170	<5.0	<5.0	<0.05	<0.05	<0.29	<0.29	<0.002	<0.002	1.05 E+07	6.3	31.5	20,841	1,030
02/23/01	130	130	<5.0	<5.0	<0.05	<0.05	<0.22	<0.22	<0.002	<0.002	6.52 E+06	3.9	35.4	21,677	836
03/01/01	209	209	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	1.83 E+06	1.1	36.5	21,823	146
04/05/01	205	205	<5.0	<5.0	<0.05	<0.05	<0.35	<0.35	<0.003	<0.003	1.03 E+07	6.2	42.7	22,661	838
05/21/01	220	220	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	6.17 E+06	3.7	46.4	23,128	468
06/21/01	240	240	5.3	<5.0	<0.05	<0.05	<0.44	<0.41	<0.003	<0.003	1.06 E+07	6.7	53.1	23,864	735
07/05/01	220	220	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	4.38 E+06	2.6	55.7	24,196	332
08/24/01	220	220	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	2.16 E+06	1.3	57.0	24,359	163
09/29/01	240	240	<5.0	<5.0	<0.05	<0.05	<0.41	<0.41	<0.003	<0.003	4.42 E+06	2.6	59.7	24,666	307
11/23/01	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	2.58 E+07	15.5	75.1	26,537	1,871
12/13/01	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	6.05 E+06	3.6	78.8	27,017	480
01/17/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	1.17 E+07	7.0	85.7	27,861	844
03/20/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	2.05 E+07	12.3	98.0	29,347	1,486
04/18/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	9.49 E+06	5.7	103.7	30,035	688
05/13/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	8.29 E+06	5.0	108.7	30,636	601
06/12/02	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	9.39 E+06	5.6	114.3	31,381	745
08/21/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	2.30 E+07	13.7	128.0	33,044	1,664
09/23/02	228	228	<5.0	<5.0	<0.05	<0.05	<0.39	<0.39	<0.003	<0.003	1.08 E+07	6.5	134.5	33,832	787
10/21/02	220	220	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	8.92 E+06	5.3	139.8	34,508	676
11/24/02	218	218	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	1.06 E+07	6.4	146.2	35,320	812
12/20/02	218	218	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	8.24 E+06	4.9	151.1	35,950	630
01/29/03	200	200	<5.0	<5.0	<0.05	<0.05	<0.34	<0.34	<0.003	<0.003	1.15 E+07	6.9	158.0	36,906	956
02/20/03	215	215	<5.0	<5.0	<0.05	<0.05	<0.37	<0.37	<0.003	<0.003	6.85 E+06	4.1	162.1	37,437	531
03/20/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	8.40 E+06	5.0	167.1	38,104	667
04/22/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	9.98 E+06	6.0	173.1	38,896	792
05/29/03	208	208	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	6.52 E+06	3.9	177.0	39,419	523
06/24/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	7.85 E+06	4.7	181.7	40,042	623
07/21/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	8.18 E+06	4.9	186.6	40,691	649
08/20/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	9.16 E+06	5.5	192.1	41,418	727
09/21/03	210	210	5.6	<5.0	<0.05	<0.05	<0.41	<0.36	<0.003	<0.003	9.64 E+06	6.5	198.6	42,183	765
10/30/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	1.26 E+07	7.5	206.1	43,179	996
11/26/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	7.32 E+06	4.4	210.5	43,760	581

TPH = Total petroleum hydrocarbons.

ppmv = Parts per million by volume.

## HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California

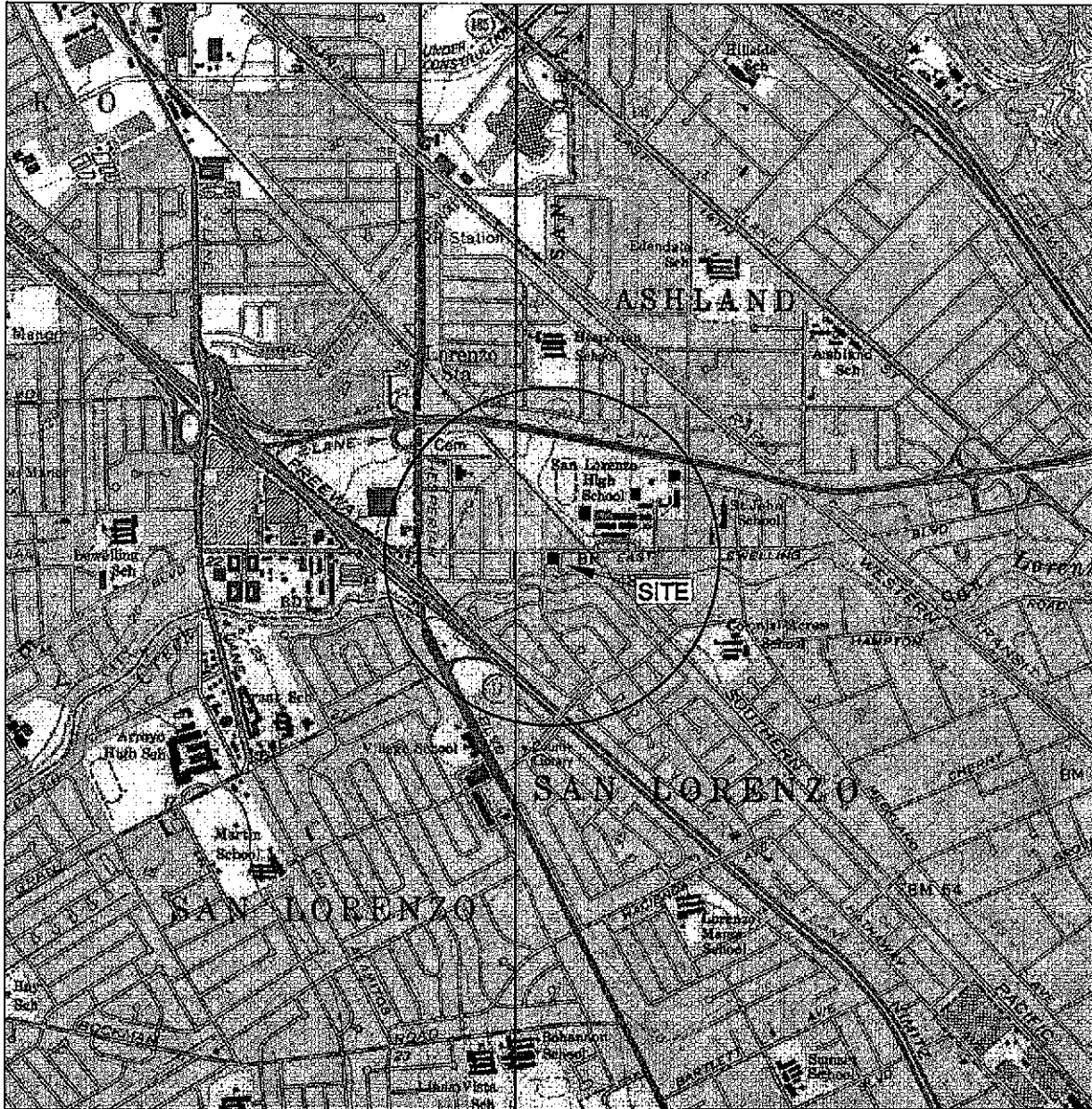
- April 1987 - Three underground gasoline storage tanks were excavated and removed. Samples collected from beneath the former tanks indicated that hydrocarbons were present in the soil.
- May 1987 - Conoco installed three monitoring wells (MW-1 through MW-3). Hydrocarbons were detected in soil and ground-water samples collected from the wells. The site has been on a monitoring program since May 1987.
- December 1988 - Four additional wells (MW-4 through MW-7) were installed. Dissolved-phase hydrocarbons were detected in the new wells.
- September 1989 - Two additional wells (MW-8 and MW-9) were installed.
- July 1990 - Ultramar Inc purchased the site from Conoco.
- March 14, 1991 - Work Plan for additional assessment submitted.
- October 1991 - Drilled two additional offsite wells (MW-10 and MW-11) southwest of the site and one onsite recovery well (RW-1).
- November 1991 - Performed ground-water pump test and vapor extraction test.
- April 1992 - Ultramar submitted an Interim Remediation Plan.
- June 1992 - Interim Remediation Plan was approved.
- March 1993 - Installed the subsurface piping for the remediation system.
- April 1993 - Completed installation of ground-water remediation system.
- June 1993 - Began operation.
- April 1993 - The ground-water extraction system began operation.
- March 1994 - The vapor extraction system began operation.
- June 8, 1994 - Obtained the Permit to Operate for the vapor extraction system.
- December 1995 - Installed an air sparging system.
- January 1997 - Discontinued to operate the remediation system. Approximately 1,184,392 gallons of ground water have been removed, treated, and discharged. Approximately 103 gallons of hydrocarbons have been removed by the vapor extraction system.

**CONTINUED NEXT PAGE**

## HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California

- October 1997 - Drilled confirmation borings. Results indicate soil clean.
- June 1998 - The air sparging system was restarted.
- July 1999 - The ground water system was restarted.
- April 3, 2000 – The soil vapor extraction system was restarted.
- During early July 2001, the station piping, dispensers, and tank top were upgraded. Details of the line sampling and over-excavation activities are included in the Doulos report entitled *Product Line and Excavation Sampling Results Report*, dated October 1, 2001.
- On May 17, 2002, Tesoro Petroleum purchased the facility from Ultramar Inc.



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



QUADRANGLE LOCATION

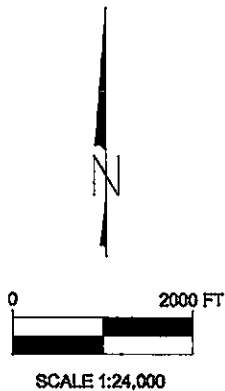
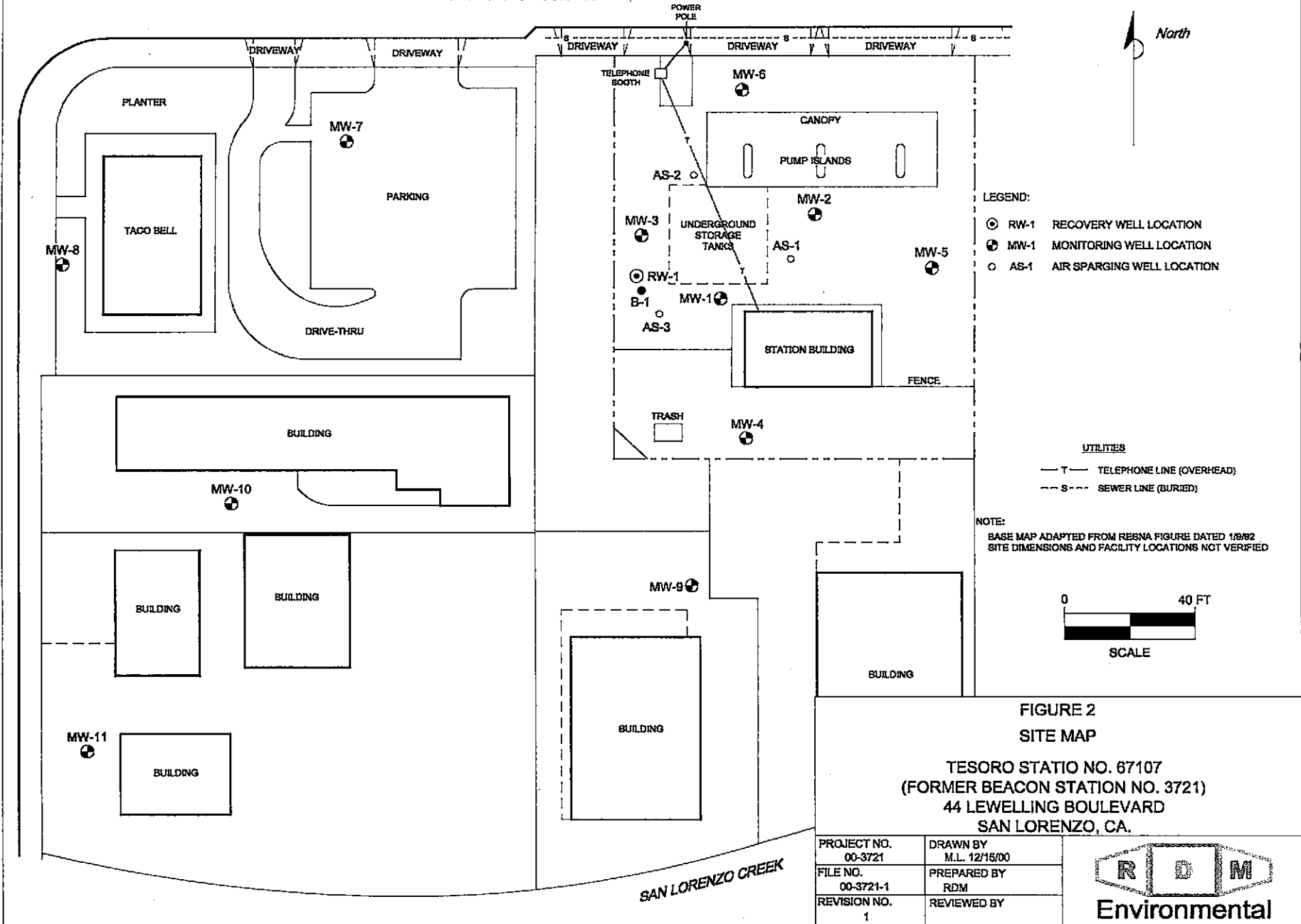


FIGURE 1  
 SITE LOCATION MAP  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.J. 12/15/00
FILE NO. 00-3721-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



LEWELLING BOULEVARD



LEGEND:

- ⊙ RW-1 RECOVERY WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- AS-1 AIR SPARGING WELL LOCATION

UTILITIES

- T — TELEPHONE LINE (OVERHEAD)
- - - S - - - SEWER LINE (BURIED)

NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE DATED 1/8/92  
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED

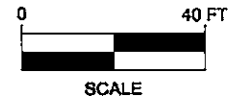
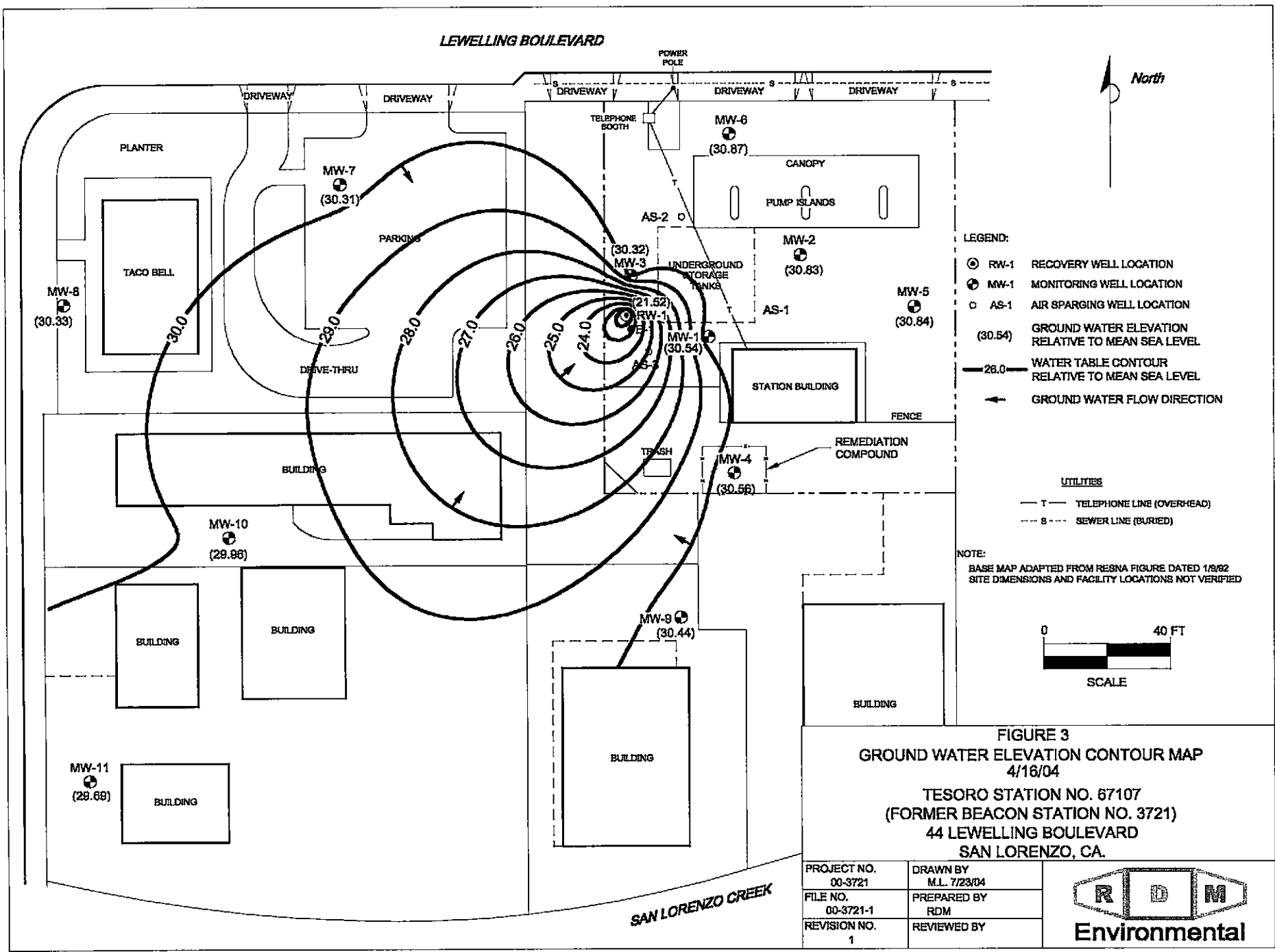


FIGURE 2  
SITE MAP

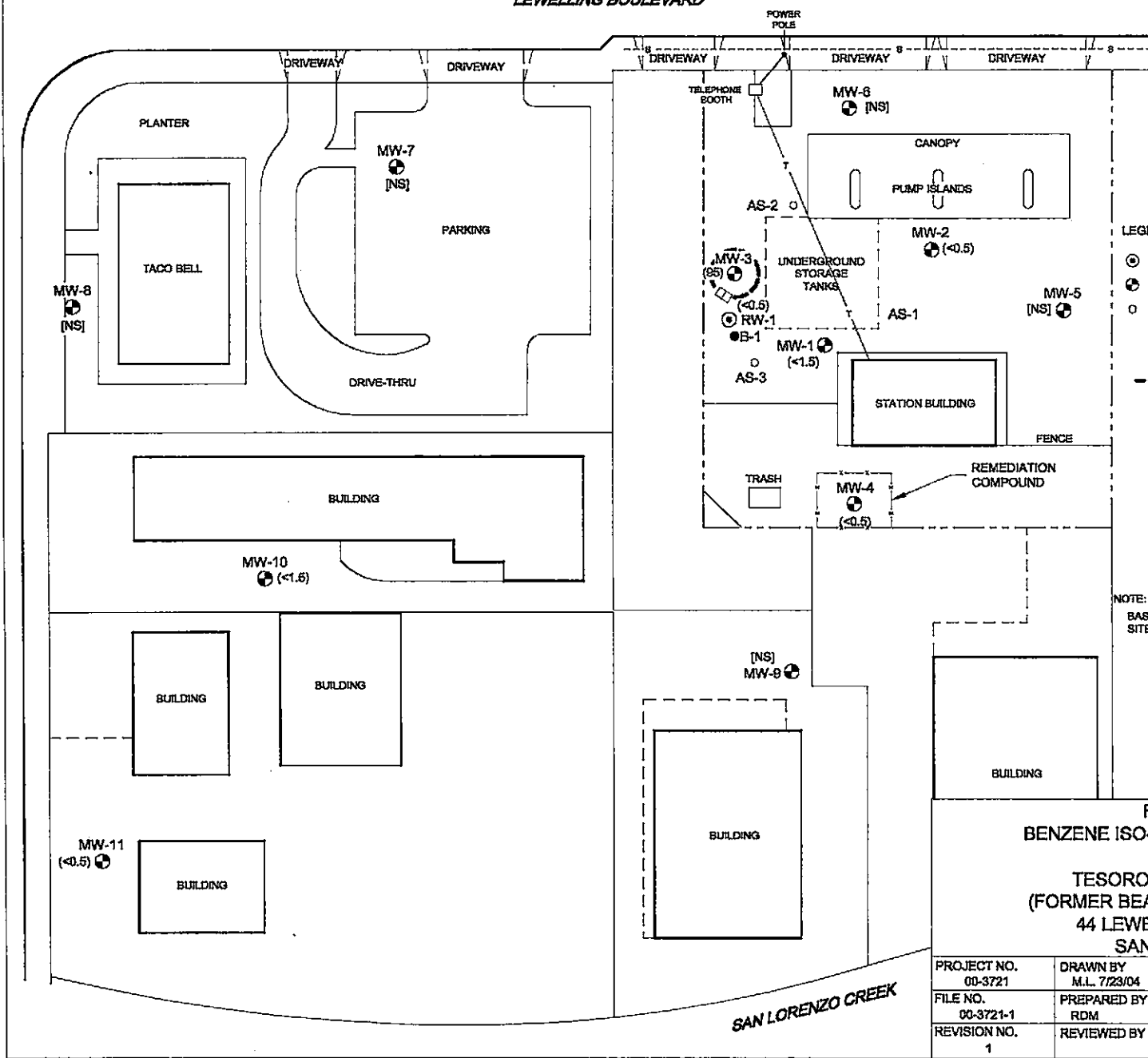
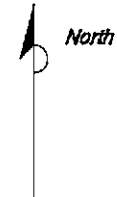
TESORO STATIO NO. 67107  
(FORMER BEACON STATION NO. 3721)  
44 LEWELLING BOULEVARD  
SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 12/15/00
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY





LEWELLING BOULEVARD



LEGEND:

- ⊙ RW-1 RECOVERY WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- AS-1 AIR SPARGING WELL LOCATION
- (85) BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
- - - 50 - - - LINE OF EQUAL CONCENTRATION OF BENZENE IN GROUNDWATER
- NS NOT SAMPLED

UTILITIES

- T - TELEPHONE LINE (OVERHEAD)
- S - SEWER LINE (BURIED)

NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE DATED 1/8/92  
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED



FIGURE 4  
BENZENE ISO-CONCENTRATION MAP  
4/16/04  
TESORO STATION NO. 67107  
(FORMER BEACON STATION NO. 3721)  
44 LEWELLING BOULEVARD  
SAN LORENZO, CA.

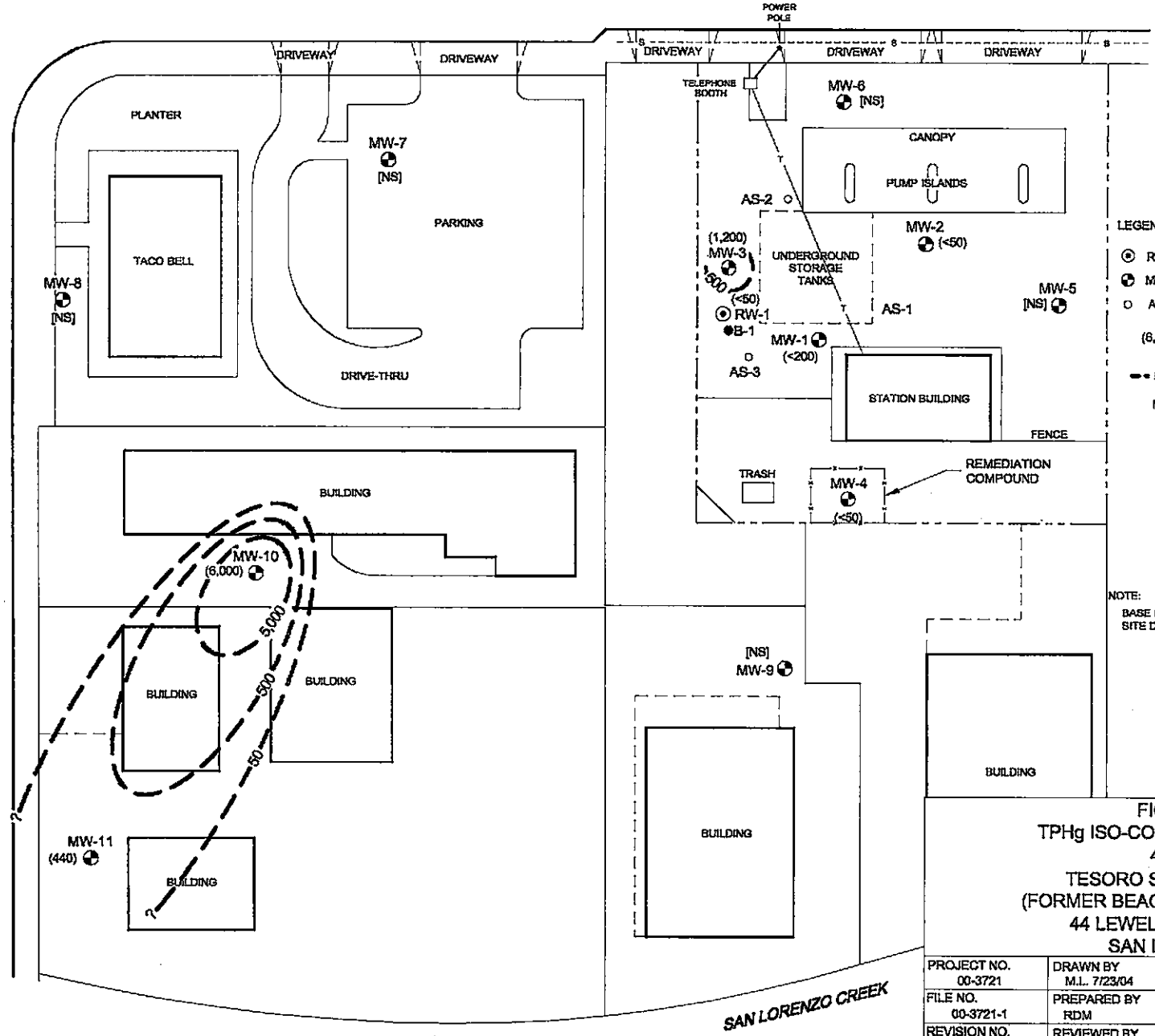
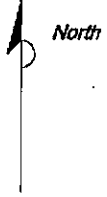
PROJECT NO. 00-3721	DRAWN BY M.L. 7/23/04
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



SAN LORENZO CREEK



LEWELLING BOULEVARD



- LEGEND:**
- ⊙ RW-1 RECOVERY WELL LOCATION
  - ⊕ MW-1 MONITORING WELL LOCATION
  - AS-1 AIR SPARGING WELL LOCATION
  - (6,000) TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
  - - - 50 - - - LINE OF EQUAL CONCENTRATION OF TPHg IN GROUNDWATER
  - NS NOT SAMPLED

- UTILITIES**
- T - TELEPHONE LINE (OVERHEAD)
  - - S - SEWER LINE (BURIED)

**NOTE:**  
 BASE MAP ADAPTED FROM RESNA FIGURE DATED 1/8/02  
 SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED

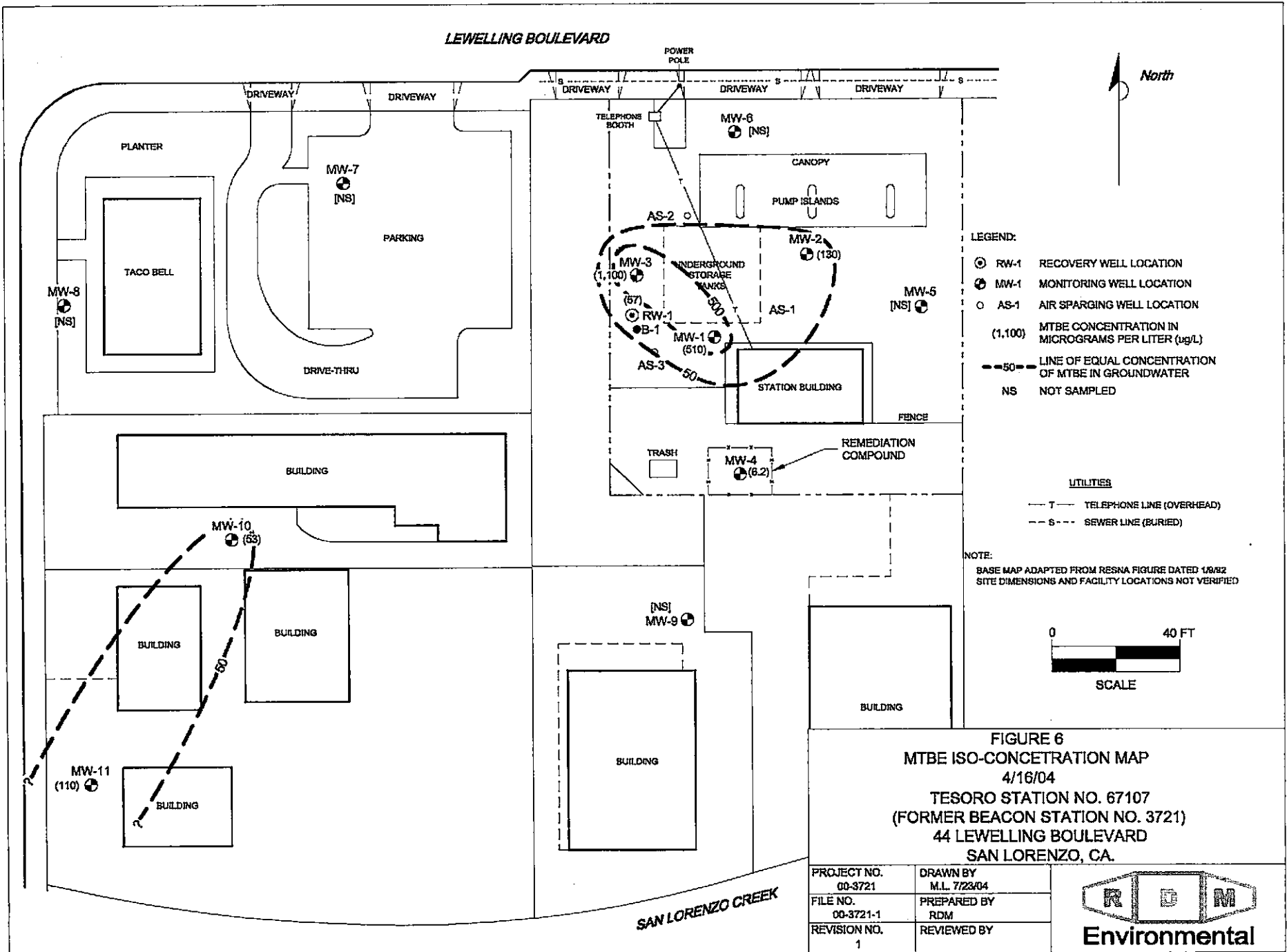


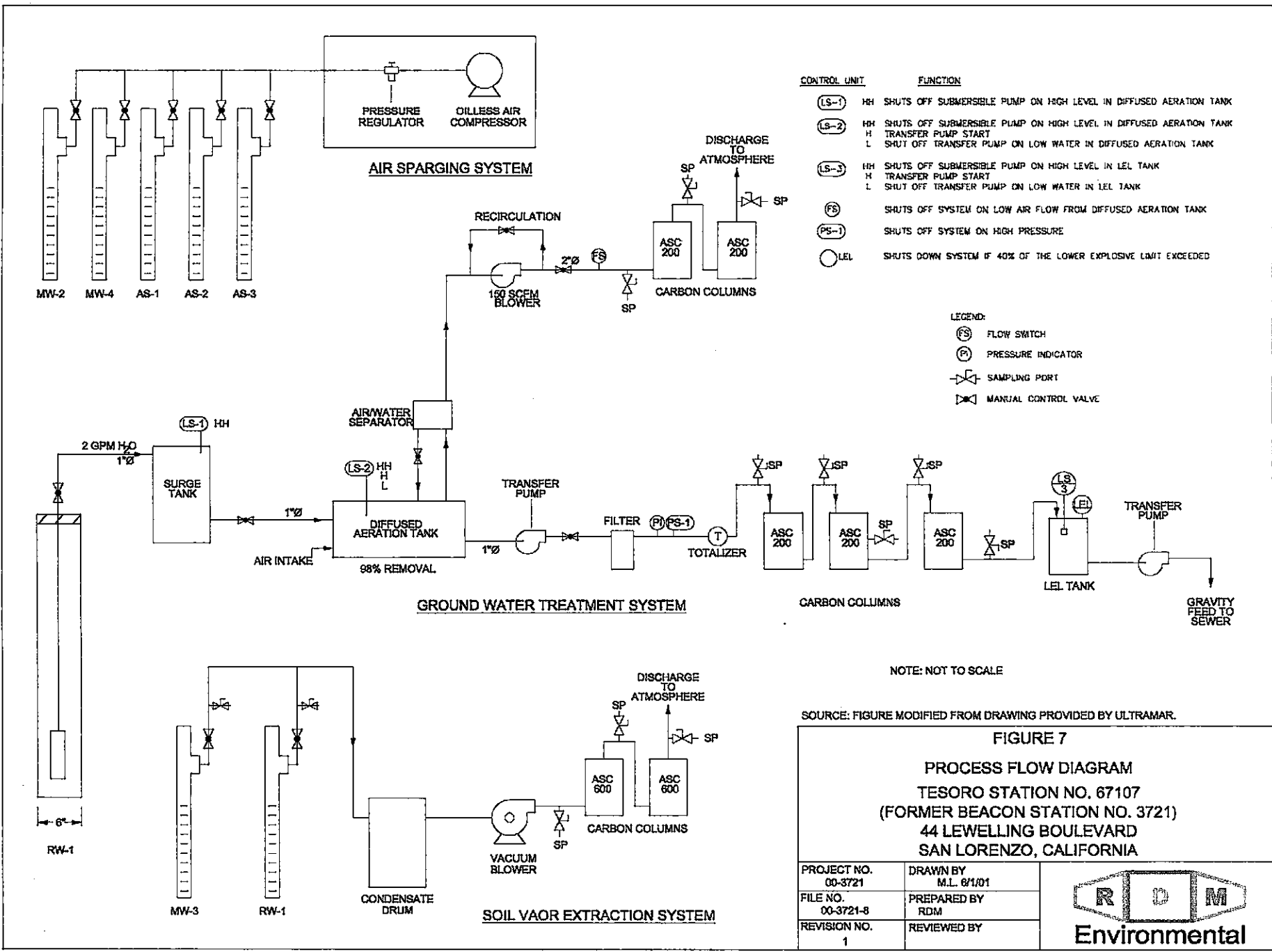
**FIGURE 5**  
**TPHg ISO-CONCENTRATION MAP**  
 4/18/04  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 7/23/04
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



SAN LORENZO CREEK





CONTROL UNIT	FUNCTION
(LS-1) HH	SHUTS OFF SUBMERSIBLE PUMP ON HIGH LEVEL IN DIFFUSED AERATION TANK
(LS-2) H	SHUTS OFF SUBMERSIBLE PUMP ON HIGH LEVEL IN DIFFUSED AERATION TANK
(LS-2) L	TRANSFER PUMP START
(LS-2) L	SHUTS OFF TRANSFER PUMP ON LOW WATER IN DIFFUSED AERATION TANK
(LS-3) HH	SHUTS OFF SUBMERSIBLE PUMP ON HIGH LEVEL IN LEL TANK
(LS-3) H	TRANSFER PUMP START
(LS-3) L	SHUTS OFF TRANSFER PUMP ON LOW WATER IN LEL TANK
(FS)	SHUTS OFF SYSTEM ON LOW AIR FLOW FROM DIFFUSED AERATION TANK
(PS-1)	SHUTS OFF SYSTEM ON HIGH PRESSURE
(LEL)	SHUTS DOWN SYSTEM IF 40% OF THE LOWER EXPLOSIVE LIMIT EXCEEDED

LEGEND:

(FS)	FLOW SWITCH
(PI)	PRESSURE INDICATOR
(SP)	SAMPLING PORT
(MV)	MANUAL CONTROL VALVE


NOTE: NOT TO SCALE

SOURCE: FIGURE MODIFIED FROM DRAWING PROVIDED BY ULTRAMAR.

**FIGURE 7**

**PROCESS FLOW DIAGRAM**  
**TESORO STATION NO. 67107**  
**(FORMER BEACON STATION NO. 3721)**  
**44 LEWELLING BOULEVARD**  
**SAN LORENZO, CALIFORNIA**

PROJECT NO. 00-3721	DRAWN BY M.L. 6/1/01
FILE NO. 00-3721-8	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



**ENCLOSURE B**

Ground Water Sampling Information





Client: Tesoro	Sample Data: 4/16/2004
Site: Tesoro Station 67107	Project Number: 02-67107
44 Lewelling Blvd, San Lorenzo, CA	Well Designation: MW-1
Signature: <u>[Signature]</u>	

**Well Box Condition/Traffic**

Traffic Control	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Time: <u>1700</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>5"</u>	
Well Box 8" 12" 24"	Type of well box	<u>NUT MARKED</u>

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer	_____	Submersible Pump	<u>X</u>
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailer	_____	Centrifugal Pump	_____

**Sampling -**

Disposable Bailer	<u>X</u>	Teflon Bailer	_____	Disposable Tubing	_____
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**Well Purging**

Well Diameter: 2"	<u>X</u>	4"	_____	6"	_____	8"	_____
Purge Vol. Multiplier	0.16		0.65		1.47		2.61
Initial Measurement		Recharge Measurement		Calculated Purge	<u>8.73</u>		
Time:	<u>1511</u>	Time:	_____	Actual Purge	<u>9.5</u>		
Depth of Well	<u>33.64</u>	Depth to Water	_____				
Depth to Water	<u>15.94</u>						

**Sample**

Start Purge	<u>1702</u>	Sample Time	<u>1715</u>
-------------	-------------	-------------	-------------

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1706	67.5	617	7.08			1
1709	67.7	640	7.14			2
1712	67.8	636	7.20			3

Sample Appearance: CLEAR Lock: \_\_\_\_\_

**Equipment Replacement**

Lock: ok Well Cap: ok Bolts: ok Box: ok

Remarks:

Client: Tesoro Sample Data: 4/16/2004  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: MW-2  
 Signature: [Signature]

**Well Box Condition/Traffic**

Traffic Control  Yes  No Time: 1612 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 5"  
 Well Box 8" 12"  24" Type of well box Not Marked

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer \_\_\_\_\_ Submersible Pump  \_\_\_\_\_  
 2" PVC Bailer \_\_\_\_\_ Dedicated Bailer \_\_\_\_\_  
 4" PVC Bailleurs \_\_\_\_\_ 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 9.6  
 Time: 1514 Time: \_\_\_\_\_ Actual Purge 9.75  
 Depth of Well 34.35 Depth to Water \_\_\_\_\_  
 Depth to Water 14.40

**Sample**

Start Purge 1617 Sample Time 1630

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1620	68.6	538	6.90			1
1623	68.6	559	6.94			2
1626	68.7	577	6.94			3

Sample Appearance CLEAR Lock \_\_\_\_\_

**Equipment Replacement**

Lock 04 Well Cap 04 Bolts 04 Box 04

Remarks: \_\_\_\_\_



Client: Tesoro Sample Data: 4/16/2004  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: MW-3  
 Signature: [Signature]

**Well Box Condition/Traffic**

Traffic Control Yes  No  Time: 1740 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 CMI

**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 9.28  
 Time: 1522 Time: \_\_\_\_\_ Actual Purge 9.5  
 Depth of Well 34.23 Depth to Water \_\_\_\_\_  
 Depth to Water 14.89

**Sample**

Start Purge 1741 Sample Time 1753

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1744	68.6	795	6.89			1
1747	68.6	789	6.92			2
1750	68.7	789	6.96			3

Sample Appearance CLOUDY Lock \_\_\_\_\_

**Equipment Replacement**

Lock 04 Well Cap 04 Bolts 04 Box 04

Remarks:

Client: <u>Tesoro</u>	Sample Data: <u>4/16/2004</u>
Site: <u>Tesor Station 67107</u>	Project Number: <u>02-67107</u>
<u>44 Lewelling Blvd, San Lorenzo, CA</u>	Well Designation: <u>MW-4</u>
Signature: <u>[Signature]</u>	

**Well Box Condition/Traffic**

Traffic Control	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Time: <u>1540</u> hours
Standing water	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	above or below casing <u>below</u>
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" <u>12"</u> 24"	Type of well box	<u>Diversified Well Products</u>

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer	_____	Submersible Pump	<u>X</u>
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailleurs	_____	Centrifugal Pump	_____

**Sampling -**

Disposable Bailer	<u>X</u>	Teflon Bailer	_____	Disposable Tubing	_____
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**Well Purging**

Well Diameter: 2"	<u>X</u>	4"	_____	6"	_____	8"	_____
Purge Vol. Multiplier	0.16		0.65		1.47		2.61
Initial Measurement	_____	Recharge Measurement	_____	Calculated Purge	<u>3.85</u>		
Time: <u>1500</u>		Time: _____		Actual Purge	<u>7.0</u>		
Depth of Well	<u>24.45</u>	Depth to Water	_____				
Depth to Water	<u>16.42</u>						

**Sample**

Start Purge	<u>1542</u>	Sample Time	<u>1550</u>
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Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1543</u>	<u>66.7</u>	<u>588</u>	<u>5.64</u>			<u>1</u>
<u>1544</u>	<u>66.8</u>	<u>591</u>	<u>6.08</u>			<u>2</u>
<u>1545</u>	<u>67.0</u>	<u>592</u>	<u>6.53</u>			<u>3</u>
<u>1546</u>	<u>67.0</u>	<u>594</u>	<u>6.73</u>			<u>4</u>
<u>1547</u>	<u>66.9</u>	<u>597</u>	<u>6.76</u>			<u>5</u>

Sample Appearance: CLEAR Lock: \_\_\_\_\_

**Equipment Replacement**

Lock 04 Well Cap 04 Bolts NEED 2 Box 04

Remarks: \_\_\_\_\_

Client: <u>Tesoro</u>	Sample Data: <u>4/16/2004</u>
Site: <u>Tesor Station 67107</u>	Project Number: <u>02-67107</u>
<u>44 Lewelling Blvd, San Lorenzo, CA</u>	Well Designation: <u>NW-10</u>
Signature: <u>[Signature]</u>	

**Well Box Condition/Traffic**

Traffic Control	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Time: <u>1723</u> hours
Standing water	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	above or below casing
Top of well level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark: _____
Well cap & locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark: _____
Height of Riser	<u>2'</u>	
Well Box <u>8" 12" 24"</u>	Type of well box <u>Brainard-Kilman</u>	

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer	_____	Submersible Pump	<input checked="" type="checkbox"/>
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailleurs	_____	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>7.06</u>		
Time: <u>1520</u>		Time: _____		Actual Purge	<u>7.5</u>		
Depth of Well <u>29.40</u>		Depth to Water _____					
Depth to Water <u>14.69</u>							

**Sample**

Start Purge <u>1725</u>	Sample Time <u>1735</u>
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Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1728</u>	<u>67.1</u>	<u>598</u>	<u>6.93</u>			<u>1</u>
<u>1730</u>	<u>67.2</u>	<u>591</u>	<u>6.90</u>			<u>2</u>
<u>1732</u>	<u>67.1</u>	<u>589</u>	<u>6.93</u>			<u>3</u>

Sample Appearance CLEAN Lock \_\_\_\_\_

**Equipment Replacement**

Lock 04 Well Cap 04 Bolts NEED 3 Box OK

Remarks: \_\_\_\_\_

Client: Tesoro Sample Data: 4/16/2004  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: MW-11  
 Signature: [Signature]

**Well Box Condition/Traffic**

Traffic Control Yes  No  Time: 1640 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 2"  
 Well Box 8" 12" 24" Type of well box Branard Kilman

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer \_\_\_\_\_ Submersible Pump X  
 2" PVC Bailer \_\_\_\_\_ Dedicated Bailer \_\_\_\_\_  
 4" PVC Bailer \_\_\_\_\_ Centrifugal Pump \_\_\_\_\_

**Sampling -**

Disposable Bailer X Teflon Bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

**Well Purging**

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

Initial Measurement \_\_\_\_\_ Recharge Measurement \_\_\_\_\_ Calculated Purge 5.6  
 Time: 1518 Time: \_\_\_\_\_ Actual Purge 5.6  
 Depth of Well 29.34 Depth to Water \_\_\_\_\_  
 Depth to Water 17.67

**Sample**

Start Purge 1642 Sample Time 1651

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1644	65.9	591	6.85			1
1645	66.0	591	6.84			2
1647	66.1	590	6.82			3

Sample Appearance CLEAR Lock \_\_\_\_\_

**Equipment Replacement**

Lock OH Well Cap OH Bolts Need 3 Box OK

Remarks: well box OH except one bolt sheared off

Client: Tesoro Sample Data: 4/16/2004  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: RW-1  
 Signature: [Signature]

**Well Box Condition/Traffic**

Traffic Control Yes  No  Time: 1555 hours  
 Standing water Yes  No  above or below casing  
 Top of well level  Yes  No Remark: \_\_\_\_\_  
 Well cap & locked Yes  No  Remark: Recovery Well  
 Height of Riser 12"  
 Well Box 8" 12" 24"  36" Type of well box Not Marked

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer \_\_\_\_\_ Submersible Pump \_\_\_\_\_ Recovery well  
 2" PVC Bailer \_\_\_\_\_ Dedicated Bailer \_\_\_\_\_  
 4" PVC Bailer \_\_\_\_\_ Centrifugal Pump \_\_\_\_\_

**Sampling -**

Disposable Bailer \_\_\_\_\_ Teflon Bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_  
Sample Point

**Well Purging**

Well Diameter: 2" \_\_\_\_\_ 4" \_\_\_\_\_ 6" X 8" \_\_\_\_\_  
 Purge Vol. Multiplier 0.16 0.65 1.47 2.61  
 Initial Measurement \_\_\_\_\_ Recharge Measurement \_\_\_\_\_ Calculated Purge 44.8  
 Time: 1508 Time: \_\_\_\_\_ Actual Purge N/A  
 Depth of Well 34.10 Depth to Water \_\_\_\_\_  
 Depth to Water 23.95

**Sample**

Start Purge N/A Sample Time 1605

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1602</u>	<u>68.8</u>	<u>674</u>	<u>7.13</u>			

Sample Appearance CLEAR Lock \_\_\_\_\_

**Equipment Replacement**

Lock N/A Well Cap 01 Bolts 04 Box 04

Remarks: Recovery well active. Measured and sampled from Inf sample point

**ENCLOSURE C**

**Ground Water Monitoring  
Analytical Results**



Report Number : 37959

Date : 4/26/2004

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 7 Water Samples  
Project Name : TESORO ST 67107  
Project Number : 67107

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 the typed name.

Jeff Dahl



Report Number : 37959

Date : 4/26/2004

Project Name : TESORO ST 67107

Project Number : 67107

Sample : MW-1

Matrix : Water

Lab Number : 37959-01

Sample Date :4/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Toluene	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Total Xylenes	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	510	1.5	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	< 20	20	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	< 200	200	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	92.9		% Recovery	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	95.4		% Recovery	EPA 8260B	4/20/2004

Approved By:

Jeff Dahl





Report Number : 37959

Date : 4/26/2004

Project Name : TESORO ST 67107

Project Number : 67107

Sample : MW-2

Matrix : Water

Lab Number : 37959-02

Sample Date :4/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	130	0.50	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	35	5.0	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	89.1		% Recovery	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	97.0		% Recovery	EPA 8260B	4/20/2004

Approved By:

Jeff Dahl



Report Number : 37959

Date : 4/26/2004

Project Name : **TESORO ST 67107**

Project Number : **67107**

Sample : **MW-3**

Matrix : Water

Lab Number : 37959-03

Sample Date :4/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>95</b>	5.0	ug/L	EPA 8260B	4/20/2004
<b>Toluene</b>	<b>19</b>	5.0	ug/L	EPA 8260B	4/20/2004
<b>Ethylbenzene</b>	<b>12</b>	5.0	ug/L	EPA 8260B	4/20/2004
<b>Total Xylenes</b>	<b>48</b>	5.0	ug/L	EPA 8260B	4/20/2004
<b>Methyl-t-butyl ether (MTBE)</b>	<b>1100</b>	5.0	ug/L	EPA 8260B	4/20/2004
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	4/20/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	4/20/2004
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	4/20/2004
<b>Tert-Butanol</b>	<b>340</b>	50	ug/L	EPA 8260B	4/20/2004
<b>TPH as Gasoline</b>	<b>1200</b>	500	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	90.1		% Recovery	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	97.6		% Recovery	EPA 8260B	4/20/2004

Approved By:



Report Number : 37959

Date : 4/26/2004

Project Name : TESORO ST 67107

Project Number : 67107

Sample : MW-4

Matrix : Water

Lab Number : 37959-04

Sample Date : 4/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	6.2	0.50	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	94.6		% Recovery	EPA 8260B	4/20/2004

Approved By:



Report Number : 37959

Date : 4/26/2004

Project Name : TESORO ST 67107

Project Number : 67107

Sample : MW-10

Matrix : Water

Lab Number : 37959-05

Sample Date : 4/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Toluene	3.0	1.5	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	150	1.5	ug/L	EPA 8260B	4/20/2004
Total Xylenes	34	1.5	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	53	1.5	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	< 20	20	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	6000	200	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	95.9		% Recovery	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	4/20/2004

Approved By:



Report Number : 37959

Date : 4/26/2004

Project Name : TESORO ST 67107

Project Number : 67107

Sample : MW-11

Matrix : Water

Lab Number : 37959-06

Sample Date : 4/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	110	0.50	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	440	50	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	91.7		% Recovery	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	4/20/2004

Approved By:



Report Number : 37959

Date : 4/26/2004

Project Name : TESORO ST 67107

Project Number : 67107

Sample : RW-1

Matrix : Water

Lab Number : 37959-07

Sample Date :4/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	57	0.50	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	91.4		% Recovery	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	95.3		% Recovery	EPA 8260B	4/20/2004

Approved By:

Report Number : 37959

Date : 4/26/2004

QC Report : Method Blank Data

Project Name : TESORO ST 67107

Project Number : 67107

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	88.6		%	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	96.8		%	EPA 8260B	4/20/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/22/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/22/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/22/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/22/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/22/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/22/2004
Toluene - d8 (Surr)	102		%	EPA 8260B	4/22/2004
4-Bromofluorobenzene (Surr)	97.9		%	EPA 8260B	4/22/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	105		%	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	94.7		%	EPA 8260B	4/20/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/20/2004
Toluene - d8 (Surr)	103		%	EPA 8260B	4/20/2004
4-Bromofluorobenzene (Surr)	95.8		%	EPA 8260B	4/20/2004

Approved By:



KIFF ANALYTICAL, LLC

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

Report Number : 37959

Date : 4/26/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : TESORO ST 67107

Project Number : 67107

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	37957-01	<0.50	40.0	40.0	40.7	39.6	ug/L	EPA 8260B	4/20/04	102	99.1	2.63	70-130	25
Toluene	37957-01	<0.50	40.0	40.0	35.8	35.5	ug/L	EPA 8260B	4/20/04	89.6	88.7	0.981	70-130	25
Tert-Butanol	37957-01	<5.0	200	200	199	205	ug/L	EPA 8260B	4/20/04	99.3	103	3.24	70-130	25
Methyl-t-Butyl Ether	37957-01	<0.50	40.0	40.0	35.5	33.9	ug/L	EPA 8260B	4/20/04	88.7	84.8	4.52	70-130	25
Benzene	37988-01	<0.50	40.0	40.0	32.0	31.4	ug/L	EPA 8260B	4/22/04	80.0	78.5	1.93	70-130	25
Toluene	37988-01	<0.50	40.0	40.0	33.8	33.2	ug/L	EPA 8260B	4/22/04	84.5	83.0	1.78	70-130	25
Tert-Butanol	37988-01	<5.0	200	200	196	193	ug/L	EPA 8260B	4/22/04	98.1	96.4	1.73	70-130	25
Methyl-t-Butyl Ether	37988-01	<0.50	40.0	40.0	39.9	38.6	ug/L	EPA 8260B	4/22/04	99.8	96.5	3.36	70-130	25
Benzene	37955-03	1.2	40.0	40.0	45.7	44.2	ug/L	EPA 8260B	4/20/04	111	108	3.57	70-130	25
Toluene	37955-03	<0.50	40.0	40.0	37.0	35.5	ug/L	EPA 8260B	4/20/04	92.6	88.8	4.26	70-130	25
Tert-Butanol	37955-03	95	200	200	283	279	ug/L	EPA 8260B	4/20/04	93.7	91.8	2.07	70-130	25
Methyl-t-Butyl Ether	37955-03	45	40.0	40.0	85.1	83.7	ug/L	EPA 8260B	4/20/04	100	96.6	3.68	70-130	25
Benzene	37959-04	<0.50	40.0	40.0	42.4	41.0	ug/L	EPA 8260B	4/20/04	106	102	3.44	70-130	25
Toluene	37959-04	<0.50	40.0	40.0	41.1	41.8	ug/L	EPA 8260B	4/20/04	103	104	1.73	70-130	25
Tert-Butanol	37959-04	<5.0	200	200	205	208	ug/L	EPA 8260B	4/20/04	102	104	1.49	70-130	25
Methyl-t-Butyl Ether	37959-04	6.2	40.0	40.0	50.8	51.8	ug/L	EPA 8260B	4/20/04	111	114	2.40	70-130	25

KIFF ANALYTICAL, LLC

Approved By: Jeff Dahl

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



Report Number : 37959

Date : 4/26/2004

QC Report : Laboratory Control Sample (LCS)

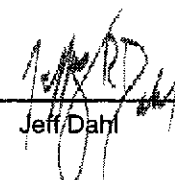
Project Name : TESORO ST 67107

Project Number : 67107

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	4/20/04	88.2	70-130
Toluene	40.0	ug/L	EPA 8260B	4/20/04	89.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/20/04	94.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/20/04	84.0	70-130
Benzene	40.0	ug/L	EPA 8260B	4/22/04	92.5	70-130
Toluene	40.0	ug/L	EPA 8260B	4/22/04	93.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/22/04	94.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/22/04	92.2	70-130
Benzene	40.0	ug/L	EPA 8260B	4/20/04	107	70-130
Toluene	40.0	ug/L	EPA 8260B	4/20/04	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/20/04	90.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/20/04	92.0	70-130
Benzene	40.0	ug/L	EPA 8260B	4/20/04	102	70-130
Toluene	40.0	ug/L	EPA 8260B	4/20/04	98.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/20/04	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/20/04	99.0	70-130

KIFF ANALYTICAL, LLC

Approved By:

  
Jeff Dahl



# Analysis Summary

Report Number : 37959

Date : 4/26/2004

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

Project Name : TESORO ST 67107  
 Project Number : 67107

Sample Name			MW-1		MW-2		MW-3		MW-4		MW-10		MW-11		RW-1	
Sample Date			4/16/2004		4/16/2004		4/16/2004		4/16/2004		4/16/2004		4/16/2004		4/16/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	1.5	ND	0.50	ND	5.0	95	0.50	ND	1.5	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	1.5	ND	0.50	ND	5.0	19	0.50	ND	1.5	3.0	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	1.5	ND	0.50	ND	5.0	12	0.50	ND	1.5	150	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	1.5	ND	0.50	ND	5.0	48	0.50	ND	1.5	34	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	1.5	510	0.50	130	5.0	1100	0.50	6.2	1.5	53	0.50	110	0.50	57
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	1.5	ND	0.50	ND	5.0	ND	0.50	ND	1.5	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	1.5	ND	0.50	ND	5.0	ND	0.50	ND	1.5	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	1.5	ND	0.50	ND	5.0	ND	0.50	ND	1.5	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	20	ND	5.0	35	50	340	5.0	ND	20	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	200	ND	50	ND	500	1200	50	ND	200	6000	50	440	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		92.9		89.1		90.1		98.6		95.9		91.7		91.4
4-Bromofluorobenzene (Surr)	EPA 8260B	%		95.4		97.0		97.6		94.6		97.7		98.5		95.3

MRL = Method Reporting Limit

ND = Not Detected

Approved By,

Jeff Dahl

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

ELAP # 2236

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

## Chain-of-Custody Record and Analysis Request

Company/Address:  
1704 Via Rialto  
Roseville, CA 95747  
 Recommended but not mandatory to complete this section:  
 Sampling Company Log Code:  
RDMR

Phone No.: 916 771 7098 FAX No.: 916 771 4584  
 Project Number: 67107 P.O. No.:  
 Global ID:  
T-0-6-0-0-1-0-1-4-1-4  
 EDF Deliverable To (Email Address):  
RDM

### Analysis Request

Project Name:  
Tesoro ST 67107  
 Sampler Signature:  
Steve C. Clark

Project Address:  
44 Lewelling Blvd  
San Lorenzo, CA

Sample Designation	Sampling		Container		Preservative				Matrix		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 (7421/238-2) TOTAL (X) W.E.T. (X)	TAT	12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only	
	Date	Time	40 ml VOA	SLEEVE	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL																	
MW-1	4/16/04	1715	3		X	X			X					X													01
MW-2	4/16/04	1630	3		X	X			X					X													02
MW-3	4/16/04	1753	3		X	X			X					X													03
MW-4	4/16/04	1550	3		X	X			X					X													04
MW-10	4/16/04	1735	3		X	X			X					X													05
MW-11	4/16/04	1651	3		X	X			X					X													66
RW-1	4/16/04	1605	3		X	X			X					X													07

Relinquished by: <u>Steve C. Clark</u>	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	<u>040904</u>	<u>1815</u>	<u>Ka Hay</u> Kiff Analytical

Remarks: STAT

Bill to: Tesoro Petroleum / Rob Damron

**ENCLOSURE D**

**Remediation System Analytical Results**



Report Number : 37973

Date : 4/26/2004

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 5 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107  
P.O. Number : 67107

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. The signature is stylized and somewhat cursive.

Jeff Dahl



# Analysis Summary

Report Number : 37973

Date : 4/26/2004

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

Project Name : Tesoro Station 67107  
 Project Number : 67107

Sample Name			H2O- Inf		H2O- DAT-Eff		H2O- MID1		H2O- MID2		H2O- Eff	
Sample Date			4/19/2004		4/19/2004		4/19/2004		4/19/2004		4/19/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	1.4	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	0.89	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	89	0.50	5.6	0.50	1.9	0.50	ND	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	5.9	5.0	ND	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		106		105		105		104		105
4-Bromofluorobenzene (Surr)	EPA 8260B	%		86.4		94.1		94.5		95.5		93.5

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Jeff Dahl

**Calscience**  
**Environmental**  
**Laboratories, Inc.**

April 27, 2004

Joel Kiff  
Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

**Subject: Calscience Work Order No.: 04-04-1093**  
**Client Reference: Tesoro Station 67107**

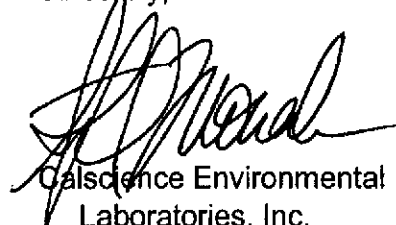
Dear Client:

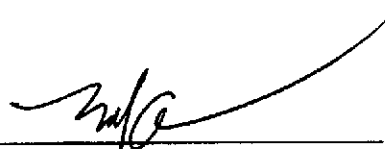
Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/21/2004 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

  
Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager

  
Michael J. Crisostomo  
Quality Assurance Manager

Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95616-6593

Date Received: 04/21/04  
 Work Order No: 04-04-1093

Project: Tesoro Station 67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
H2O-Eff	04-04-1093-1	04/19/04	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	ND	1.0	1		mg/L	N/A	04/22/04	EPA 160.2
Chemical Oxygen Demand	5.1	5.0	1		mg/L	N/A	04/21/04	EPA 410.4

Method Blank				N/A	Aqueous			
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	04/21/04	EPA 410.4

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



04/21/04

Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

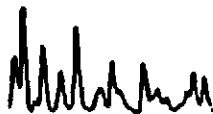
Date Received:  
Work Order No:

04/21/04  
04-04-1093

Project: Tesoro Station 67107

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc.</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chemical Oxygen Demand	EPA 410.4	04-04-0972-2	04/21/04	610	610	1	0-25	
Solids, Total Suspended	EPA 160.2	04-04-1085-1	04/22/04	ND	ND	NA	0-25	

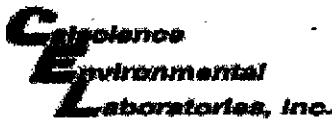


Work Order Number: 04-04-1093

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<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.





WORK ORDER #:

04-04-1093

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kipler

DATE: 4/21/04

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature.
C Temperature blank.

LABORATORY (Other than Calscience Courier):

- 2.9 C Temperature blank.
C IR thermometer.
Ambient temperature.

Initial: [Signature]

CUSTODY SEAL INTACT:

Sample(s): Cooler: [checked] No (Not Intact): Not Applicable (N/A):

Initial: [Signature]

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sample container label(s), Sample container(s) intact, Correct containers for analyses, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: [Signature]

COMMENTS:

Blank lines for handwritten comments.



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

Cal Science Environmental  
 7440 Lincoln Way  
 Garden Grove, CA 92841  
 714-895-5494

Lab No. 1093 Page 1 of 1

Project Contact (Hardcopy or PDF to): Joel Kiff **Geotracker COELT EDD REPORT?**  YES  NO **Chain-of-Custody Record and Analysis Request**

Company/Address: Kiff Analytical, LLC **Analysis Request**

Phone No.:  FAX No.:  **Global ID:**

Project Number: 67107 P.O. No.: 37973 **EDF Deliverable to (Email Address):**

Project Name: Tesoro Station 67107 **E-mail address:** inbox@kiffanalytical.com

Project Address:  **Sampling** **Container** **Preservative** **Matrix**

Sample Designation	Sampling		Container						Preservative					Matrix			TSS	C.O.D.	Date	For Lab Use Only						
	Date	Time	Glass Jar	Poly	Amber	Sleeve	Tedlar	H2SO4	HNO3	ICE	NONE	Na2S2O3	WATER	SOIL	AIR											
H2O-Eff	4/19/04	1:12		1	1			X	X	X		X				X	X		X						X	

Relinquished by: Kim Hagler Kiff Analytical Date: 4/13/04 Time: 1510 Received by:  Remarks:

Relinquished by:  Date:  Time:  Received by:

Relinquished by:  Date: 4/21/04 Time: 0700 Received by Laboratory: [Signature] Bill to:



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

Lab No. 37973 Page 1 of 1

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

**Chain-of-Custody Record and Analysis Request**

Company/Address: RPM Environmental  
 Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: \_\_\_\_\_

**Analysis Request**

Phone No.: (916) 771-7098 FAX No.: (916) 771-4584  
 Project Number: 67107 P.O. No.: 67107  
 Global ID: \_\_\_\_\_  
 EDF Deliverable To (Email Address): \_\_\_\_\_

Project Name: Tesoro Station 67107  
 Project Address: San Lorenzo  
 Sample Signature: [Signature]

Sample Designation	Sampling		Container			Preservative				Matrix		
	Date	Time	40 ml VOA	SLEEVE	Poly Glass	HCl	HNO <sub>3</sub>	ICE	NONE	H <sub>2</sub> O <sub>2</sub>	WATER	SOIL

BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/8015)	TPH as Diesel (88015)	TPH as Motor Oil (88015)	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)	TSS	C.O.D.	12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
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H <sub>2</sub> O - Int	4/19/04	120	2			X	X			X	X					01
H <sub>2</sub> O - DAT - Eff		118	2							X	X					02
H <sub>2</sub> O - MIDI		116	2							X	X					03
H <sub>2</sub> O - MIDI		114	2							X	X					04
H <sub>2</sub> O - Eff		112	2	X	X	X	X	X	X	X	X		X	X		05

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: 04/20/04 Time: 1449 Received by Laboratory: N. SPROSS / KIFF ANALYTICAL  
 Remarks: STAT  
 Bill to: Tesoro Petroleum Rob Paulson



Report Number : 38479

Date : 6/2/2004

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 4 Water Samples  
Project Name : 67107  
Project Number : 67107

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,



Joel Kiff



# Analysis Summary

Report Number : 38479

Date : 6/2/2004

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

Project Name : 67107  
 Project Number : 67107

Sample Name			GWEFF		GW-MID1		GW-DAT-OUT		GW-INFL	
Sample Date			5/26/2004		5/26/2004		5/26/2004		5/26/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	52	0.50	65
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		97.2		96.7		96.7		96.9
4-Bromofluorobenzene (Surr)	EPA 8260B	%		104		103		104		104

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff

June 04, 2004

Joel Kiff  
Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 04-05-1603**  
Client Reference: **67107**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/28/2004 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,




Calscience Environmental  
Laboratories, Inc.

Stephen Nowak  
Project Manager



Michael J. Crisostomo  
Quality Assurance Manager







Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95616-6593

Date Received:  
 Work Order No:

05/28/04  
 04-05-1603

Project: 67107

Page 1 of 1

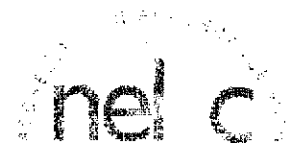
Client Sample Number	Lab Sample Number	Date Collected	Matrix
GW-Eff	04-05-1603-1	05/26/04	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	4.2	1.0	1		mg/L	N/A	06/01/04	EPA 160.2
Chemical Oxygen Demand	10	5	1		mg/L	N/A	06/02/04	EPA 410.4

Method Blank					N/A			Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	06/02/04	EPA 410.4

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 05/28/04  
Work Order No: 04-05-1603

Project: 67107

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	04-06-0027-1	06/02/04	350	350	1	0-25	
Solids, Total Suspended	EPA 160.2	04-05-1638-1	06/01/04	5100	4400	15	0-25	

RPD - Relative Percent Difference . CL - Control Limit

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Work Order Number: 04-05-1603

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
D	The analyte concentration was reported from analysis of the diluted sample.
E	Concentration exceeds the calibration range.
H	Sample analyzed past recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

A handwritten signature in black ink, appearing to be 'M. M. M.', is located at the bottom left of the page.



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

Cal Science Environmental  
 7440 Lincoln Way  
 Garden Grove, CA 92841  
 714-895-5494

Lab No. 1603

Project Contact (Hardcopy or PDF to):  
 Joel Kiff

Geotracker COELT EDD REPORT?  
 \_\_\_ YES \_\_\_ NO

**Chain-of-Custody Record and Analysis Request**

Company/Address:  
 Kiff Analytical, LLC

Sampling Company Log Code:

**Analysis Request**

Phone No.: FAX No.:

Global ID:

Project Number:  
 67107

P.O. No.:  
 38479

EDF Deliverable to (Email Address):

Project Name:  
 67107


E-mail address:  
 inbox@kiffanalytical.com

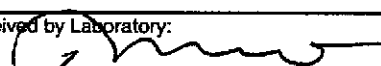
Project Address:

Sampling		Container						Preservative					Matrix			C.O.D.	TSS	Date Due:	For Lab Use Only
Date	Time	Glass Jar	250mL Poly	250mL Glass	Sleeve	Tedlar	H2SO4	HNO3	ICE	NONE	Na2S2O3	WATER	SOIL	AIR					
5/26/04	145	1	1				1	X	1			X					X	June 4, 2004	

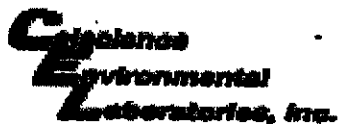
Sample Designation

GW-Eff

Relinquished by:  
  
 Relinquished by:  
 Relinquished by:

Date Time Received by:  
 05/27/04 1830  
 Date Time Received by:  
 Date Time Received by Laboratory:  
 5-27-04 1830 

Remarks:  
 Bill to:



WORK ORDER #:

04 - 05 - 1603

Cooler 1 of 1

### SAMPLE RECEIPT FORM

CLIENT: Ruff

DATE: 05/28/04

#### TEMPERATURE - SAMPLES RECEIVED BY:

##### CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

##### LABORATORY (Other than Calscience Courier):

- 2.1 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: Tu

#### CUSTODY SEAL INTACT:

Sample(s): \_\_\_\_\_ Cooler:  No (Not Intact) : \_\_\_\_\_ Not Applicable (N/A): \_\_\_\_\_

Initial: Tu

#### SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial: Tu

#### COMMENTS:

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

Lab No. 38479 Page 1 of 1

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

Company/Address: RDM  
 Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: \_\_\_\_\_

Phone No.: 916 771 7098 FAX No.: 916 771 4584  
 Project Number: 67107 P.O. No.: \_\_\_\_\_  
 Global ID: \_\_\_\_\_

Project Name: 67107  
 EDF Deliverable To (Email Address): \_\_\_\_\_  
 Sampler Signature: [Signature]

Project Address: 44 Lemelling San Lorenzo  

Sample Designation	Sampling		Container			Preservative				Matrix		
	Date	Time	40 ml VOA	SLEEVE	250pb.	HCl	HNO <sub>3</sub>	ICE	NONE	H <sub>2</sub> O <sub>2</sub>	WATER	SOIL
<u>GW EFF</u>	<u>5/26/04</u>	<u>145</u>	<u>2</u>		<u>1</u>	<u>1</u>					<u>X</u>	
<u>GW-MIDI</u>	<u>5/26/04</u>	<u>147</u>	<u>2</u>			<u>X</u>		<u>X</u>			<u>X</u>	
<u>GW-DAT-OUT</u>	<u>5/26/04</u>	<u>149</u>	<u>2</u>			<u>X</u>		<u>X</u>			<u>X</u>	
<u>GW-IAFI</u>	<u>5/26/04</u>	<u>151</u>	<u>2</u>			<u>X</u>		<u>X</u>			<u>X</u>	

**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 (8280B)	5 Oxygenates/TPH Gas/BTEX (8280B)	7 Oxygenates/TPH Gas/BTEX (8280B)	5 Oxygenates (8280B)	7 Oxygenates (8280B)	Lead Scav. (1,2 DCA & 1,2 ED6 - 8280B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT
												<u>C.O.D.</u>	
												<u>TSS.</u>	
													<u>12 hr/24 hr/48 hr/72 hr/1 wk</u>
													<b>For Lab Use Only</b>

Relinquished by: Douglas Hoff Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: 052704 Time: 1300 Received by Laboratory: [Signature] KIFF ANALYTICAL

Remarks: STAT  
 Bill to: Rob Donovan/Tesoro



Report Number : 38920

Date : 6/29/2004

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 4 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107  
P.O. Number : 67107

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 "Joel Kiff".

Joel Kiff



# Analysis Summary

Report Number : 38920

Date : 6/29/2004

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

Project Name : Tesoro Station 67107  
 Project Number : 67107

Sample Name		H2O-Inf		AS-Eff		H2O-MID1		H2O-Eff		
Sample Date		6/22/2004		6/22/2004		6/22/2004		6/22/2004		
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	4.7	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	0.81	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	1.8	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	99	0.50	ND	0.50	ND	0.50	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		102		98.7		99.6		102
4-Bromofluorobenzene (Surr)	EPA 8260B	%		105		104		105		103

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800  
 ELAP # 2236



June 30, 2004

Joel Kiff  
Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 04-06-1469**  
Client Reference: **Tesoro Station 67107**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/24/2004 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,



Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager



Michael J. Crisostomo  
Quality Assurance Manager

Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95616-6593

Date Received: 06/24/04  
 Work Order No: 04-06-1469

Project: Tesoro Station 67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	ND	1.0	1		mg/L	N/A	06/25/04	EPA 160.2
Chemical Oxygen Demand	20	5	1		mg/L	N/A	06/25/04	EPA 410.4

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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	06/25/04	EPA 410.4

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95616-6593

Date Received:  
 Work Order No:

06/24/04  
 04-06-1469

Project: Tesoro Station 67107

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	H2O-Eff	06/25/04	20	20	0	0-25	
Solids, Total Suspended	EPA 160.2	04-06-1543-1	06/25/04	ND	ND	NA	0-25	

RPD - Relative Percent Difference, CL - Control Limit

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Work Order Number: 04-06-1469

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
D	The analyte concentration was reported from analysis of the diluted sample.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





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

Cal Science Environmental  
7440 Lincoln Way  
Garden Grove, CA 92841  
714-895-5494

Lab No. 1469

Page 1 of 1

Project Contact (Hardcopy or PDF to):  
Joel Kiff

Geotracker COELT EDD REPORT?  
— YES X NO

Chain-of-Custody Record and Analysis Request

Company/Address:  
Kiff Analytical, LLC

Sampling Company Log Code:

Phone No.:

FAX No.:

Global ID:

Analysis Request

Date Due:

Project Number:  
67107

P.O. No.:  
38920

EDF Deliverable to (Email Address):

Project Name:  
Tesoro Station 67107

E-mail address:  
inbox@kiffanalytical.com

June 30, 2004

For Lab Use Only

Project Address:

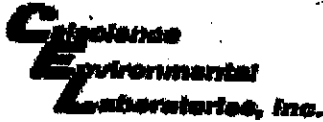
Sample Designation

H2O-Eff

Date	Time	Container						Preservative					Matrix			C.O.D	T.S.S									
		Glass Jar	Poly	Amber	Sleeve	Tedlar	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	ICE	HCl	Ni <sub>2</sub> -O <sub>3</sub>	WATER	SOIL	AIR												
6/22/04	8:20		1	1							X	X				X	X						X			

Relinquished by: [Signature] / KIFF ANALYTICAL Date: 06/23/04 Time: 1:50 Received by: [Signature] Remarks:

Relinquished by: [Signature] Date: [blank] Time: [blank] Received by: [Signature] Bill to: [blank]



WORK ORDER #: 04 - 06 - 1469

Cooler 1 of 1

### SAMPLE RECEIPT FORM

CLIENT: KIFF.

DATE: 06/24/04

#### TEMPERATURE - SAMPLES RECEIVED BY:

##### CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

##### LABORATORY (Other than Calscience Courier):

- 3.1 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: TW

#### CUSTODY SEAL INTACT:

Sample(s): \_\_\_\_\_ Cooler:  No (Not Intact): \_\_\_\_\_ Not Applicable (N/A): \_\_\_\_\_

Initial: TW

#### SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial: TW

#### COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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

Lab No. 38920

Page 1 of 1

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

Company/Address: RDM Environmental 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: 67107 P.O. No: 67107 EDF Deliverable To (Email Address):

Project Name: Tesoro Station 67107 Sampler Signature: [Signature]

Project Address: San Lorenzo

Sample Designation	Sampling		Container				Preservative				Matrix	
	Date	Time	40 ml VOA	SLEEVE	Poly	Poly	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL
H <sub>2</sub> O-luf	6/22/04	8:25	2				X				X	
AS-Eff	6/22/04	8:24	2				X				X	
H <sub>2</sub> O-MID1	6/22/04	8:22	2				X				X	
H <sub>2</sub> O-Eff	6/22/04	8:20	2				X	X	X		X	

**Chain-of-Custody Record and Analysis Request**

Analysis Request											TAT		
BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/MB015)	TPH as Diesel (MB015)	TPH as Motor Oil (MB015)	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 (7421239.2) TOTAL (X) W.E.T. (X)	12 hr/24 hr/48 hr/72 hr/1 wk
				X								COD	
				X								T.S.F.	
				X									
				X									

Relinquished by: <u>[Signature]</u>	Date	Time	Received by: _____
Relinquished by: _____	Date	Time	Received by: _____
Relinquished by: _____	Date	Time	Received by Laboratory: _____

Remarks: STAT

Bill to: Tesoro Petroleum / Rob Donovani