

## Environmental

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August 1, 2005

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Mr. Jeff Baker  
Tesoro Environmental Resources Company  
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 2005*  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California  
RDM Project No. 02-67107

RO 498G  
Alameda County  
AUG 18 2005  
Environmental Health

Dear Mr. Baker:

On Behalf of Tesoro Environmental Resources Company (Tesoro), 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 2005**.

### Work Performed During the Second Quarter 2005:

- RDM performed ground water sampling on **April 13, 2005**.
- RDM conducted operation and maintenance on the remediation system.
- RDM is in the process of upgrading the remediation system. These modifications include adding new recovery wells MW-3R and RW-2 to the existing ground water remediation system and replacing the soil vapor extraction blower and air sparging compressor. These proposed system modifications will occur once RDM has received authorization to install three additional ozone sparge wells.

### 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 (MTBE) 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 toward 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 2005** on:
  - **April 5 and 26, 2005**
  - **May 12 and 30, 2005**
  - **June 6 and 28, 2005**

#### **Ground Water Extraction System Performance:**

- The ground water treatment system operated intermittently during the **Second Quarter 2005**.
- During the **Second Quarter 2005**, the ground water system processed **175,920** gallons.
- As of **June 28, 2005**, the ground water system has processed approximately **4,408,580** 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 2005**.
- During the **Second Quarter 2005**, 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 **Third Quarter 2005**.

#### **Air Sparging System Performance:**

- The air sparging system did not operate during the **Second Quarter 2005**.
- Air sparging was formerly being conducted on monitoring wells MW-2 and MW-4 and air sparging wells AS-1, AS-2 and AS-3.
- The air compressor runs on a 50/50 duty cycle.
- The air sparge system will be rehabilitated during the **Third Quarter 2005**.

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### CONCLUSIONS/RECOMMENDATIONS

RDM recommends adding RW-2 and MW-3R to the existing ground water 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. If ozone technology appears to be effective, RDM and Tesoro will consider expanding the ozone sparging network with the installation of additional sparge wells.

RDM and Haley & Aldrich of New York are also working on a Site Conceptual Model (SCM) for the site. A draft version of the SCM, complete with cross sections illustrating vertical & lateral delineation and data gaps will be ready for review with the Third Quarter Monitoring Report for 2005.

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:


Mr. Jerry T. Wickham  
Alameda County Health Care Agency  
Department Environmental Health  
1131 Harbor Parkway, Room 250  
Alameda, CA 94502

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

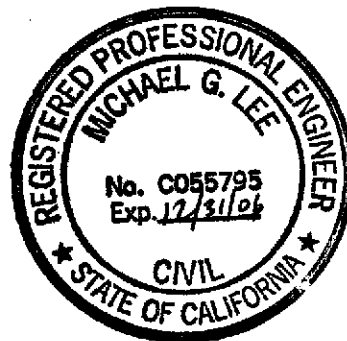
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If you have any questions concerning this project, please contact Richard Munsch at (916) 415-1134.

**RDM ENVIRONMENTAL**

  
Richard D. Munsch  
Project Manager

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



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**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

Alameda County  
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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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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	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>e</sup>	3.8 <sup>e</sup>	<250 <sup>e</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>e</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>e</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
	07/16/04		15.99	29.99	<1.5	<1.5	<1.5	<1.5	280	660	ND	No free product or sheen
	11/13/04		15.98	30.00	<1.0	<1.0	<1.0	<1.0	<100	530	19 <sup>e</sup>	No free product or sheen
	02/04/05		15.27	30.71	<1.0	<1.0	<1.0	<1.0	140	610	18 <sup>e</sup>	No free product or sheen
	04/13/05		14.31	31.67	<0.5	<0.5	<0.5	<0.5	<50	19	12 <sup>e</sup>	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	02/18/92	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

TABLE 1

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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-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>c</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>c</sup>	No free product or sheen
	11/14/02		15.35	29.88	<10	<10	<10	<10	<1,000	3,200	120 <sup>c</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
	07/16/04		15.03	30.20	<0.5	<0.5	<0.5	<0.5	<50	68	ND	No free product or sheen
	11/13/04		15.00	30.23	<0.5	<0.5	<0.5	<0.5	<50	35	ND	No free product or sheen
	02/04/05		14.26	30.97	<0.5	<0.5	<0.5	<0.5	<50	22	ND	No free product or sheen
	04/13/05		13.19	32.04	<0.5	<0.5	<0.5	<0.5	<50	11	ND	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-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 <sup>c</sup>	No free product or sheen
	08/06/02		16.20	29.01	110	<5.0	<5.0	<5.0	800	2,200	170 <sup>c</sup>	No free product or sheen
	11/14/02		16.50	28.71	89	<10	<10	<10	1,400	2,800	210 <sup>c</sup>	No free product or sheen
	02/20/03		14.99	30.22	14	<5.0	<5.0	<5.0	<500	2,300	97 <sup>c</sup>	No free product or sheen
	05/15/03		14.96	30.25	43	<5.0	<5.0	<5.0	<500	2,000	87 <sup>c</sup>	No free product or sheen
	07/31/03		15.40	29.81	280	<5.0	6.6	7.4	1,500	1,600	130 <sup>c</sup>	No free product or sheen
	10/28/03		16.20	29.01	140	1.6	6.5	4.0	2,200	1,100	74 <sup>c</sup> , 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 <sup>e</sup>	No free product or sheen
	04/16/04		14.89	30.32	95	19	12	48	1,200	1,100	340 <sup>c</sup>	No free product or sheen
	07/16/04		15.42	29.79	94	27	9.4	38	980	810	580 <sup>c</sup>	No free product or sheen
	11/13/04		14.97	30.24	580	52	440	1,600	9,000	450	440 <sup>c</sup>	No free product or sheen
	02/04/05		14.22	30.99	350	29	260	1,100	5,400	270	390 <sup>c</sup>	No free product or sheen
	04/13/05		13.44	31.77	1,300	84	1,200	3,200	20,000	290	150 <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
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 <sup>c</sup> , 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
	07/16/04		16.94	30.04	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/13/04		17.00	29.98	<0.5	<0.5	<0.5	<0.5	<50	50	ND	No free product or sheen
	02/04/05		16.25	30.73	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/13/05		15.33	31.65	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-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
	07/16/04		15.88	30.24	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/13/04		15.98	30.14	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	02/04/05		15.17	30.95	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/13/05		14.12	32.00	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 Levee 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
	07/16/04		14.53	30.26	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/13/04		14.62	30.17	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	02/04/05		13.74	31.05	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/13/05		15.59	29.20	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
	07/16/04		13.96	29.89	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/13/04		14.13	29.72	<0.5	<0.5	<0.5	<0.5	<0.5	<50	ND	No free product or sheen
	02/04/05		13.22	30.63	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/13/05		12.15	31.70	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
	07/16/04		14.88	29.97	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/13/04		15.12	29.73	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	02/04/05		14.17	30.68	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/13/05		13.16	31.69	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
	07/16/04		17.33	29.93	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/13/04		17.42	29.84	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	02/04/05		16.68	30.58	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/13/05		15.78	31.48	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>e</sup>	No free product or sheen
	08/06/02		15.98	28.67	<1.0	5.4	18	18	4,500	310	18 <sup>e</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>e</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>e</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>e</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>e</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
	07/16/04		15.09	29.56	<1.0	3.5	110	29	6,300	40	ND	No free product or sheen
	11/13/04		15.24	29.41	<0.5	4.8	42	23	4,900	25	ND	No free product or sheen
	02/04/05		14.43	30.22	<0.5	3.3	46	30	5,000	21	ND	No free product or sheen
	04/13/05		13.61	31.04	0.81	6.5	200	120	4,000	29	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	Not measured
	11/05/97		NM	NC	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	No free product or sheen
	05/28/98		NM	NC	14	24	88	75	1,100	24	NA	No free product or sheen
	08/19/98		17.30	27.70	16	9.6	69	17	1,200	6	NA	No free product or sheen
	11/17/98		18.05	26.95	15	4.4	14	<0.5	580	21	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	No free product or sheen
	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°	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
	07/16/04		18.01	29.35	<0.5	<0.5	<0.5	<0.5	<50	10	ND	No free product or sheen
	11/13/04		18.19	29.17	<0.5	<0.5	<0.5	<0.5	230	49	ND	No free product or sheen
	02/04/05		17.47	29.89	<0.5	<0.5	<0.5	<0.5	<50	7.0	ND	No free product or sheen
	04/13/05		16.81	30.55	<0.5	<0.5	<0.5	<0.5	<50	12	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
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	NS	NS	
	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	
	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	No free product or sheen
	04/07/94		16.05	27.12	110	57	32	260	1,500	NA	NA	
	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	No free product or sheen
	06/13/95		14.95	28.22	1,600	780	340	1,400	8,200	NA	NA	Not measured
	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	NA	NA	No free product or sheen
	03/12/96		11.02	32.15	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	No free product or sheen
	06/11/96		14.52	28.65	38	11	4.7	50	86	110	NA	No free product or sheen
	10/02/96		15.53	27.64	68	29	14	75	230	68	NA	No free product or sheen
	01/28/97		12.59	30.58	0.77	<0.5	<0.5	<0.5	360	47	NA	No free product or sheen
	05/20/97		14.85	28.32	<0.5	<0.5	<0.5	<0.5	<50	9	NA	No free product or sheen
	08/18/97		16.19	26.98	<0.5	<0.5	<0.5	<0.5	<50	32	NA	No free product or sheen
	09/29/97		NM	NC	25	<0.5	<0.5	3.6	220	170	NA	No free product or sheen
	11/05/97		16.95	26.22	240	2.8	51	55	900	230	NA	Not measured
	03/31/98		11.85	31.32	340	3.2	59	78	1,300	240/220 <sup>b</sup>	NA	No free product or sheen
	05/26/98		13.13	30.04	450	130	200	940	4,100	4,100	NA	No free product or sheen
	05/28/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	08/19/98		14.70	28.47	830	210	170	720	17,000	14,000	NA	No free product or sheen
					20	<2.5	7.1	15	540	2,100	NA	No free product or sheen

Table 2  
 Ground Water System Performance Data Sheet  
 Tesora 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	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	
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  
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(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	
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

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>	
10/10/03	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

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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	
07/06/04	3,491,096	17,486	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/28/04	3,497,468	6,372	Influent	0.78	<0.5	<0.5	<0.5	<50	120	NA	NA	NA
			Dat-Eff	1.0	<0.5	<0.5	<0.5	<50	22	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	10.0	8.5	7.66
08/17/04	3,582,556	85,088	Influent	<0.5	<0.5	<0.5	<0.5	<50	66	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	45	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	120	1.4	7.54
08/30/04	3,634,100	51,544	NS	NS	NS	NS	NS	NS	NS	NS	NS	
09/11/04	3,677,440	43,340	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>	
09/18/04	3,708,380	30,940	Influent	<0.5	<0.5	<0.5	0.68	<50	56	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	35	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	0.56	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	10	18	7.68
10/14/04	3,807,160	98,780	NS	NS	NS	NS	NS	NS	NS	NS	NS	
10/28/04	3,859,560	52,400	Influent	<0.5	<0.5	<0.5	<0.5	<50	50	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	42	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	1.0	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	15	<1.0	7.65
11/15/04	3,903,130	43,570	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/23/04	3,904,650	1,520	Influent	2.9	<0.5	<0.5	<0.5	<50	84	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	1.1	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	1.0	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	NA	7.54
12/15/04	3,918,320	13,670	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/26/2004	3,948,170	29,850	Influent	8.0	<0.5	<0.5	<0.5	<50	79	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	1.3	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	64	<1.0	7.21
01/12/05	3,976,692	28,522	NS	NS	NS	NS	NS	NS	NS	NS	NS	
1/26/2005	3,977,960	1,268	Influent	4.7	<0.5	<0.5	<0.5	62	31	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	0.93	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	5.1	<1.0	7.35
02/01/05	4,005,700	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>	
2/27/2005	4,118,630	112,930	Influent	<0.5	<0.5	<0.5	<0.5	<50	47	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	20	NA	NA	NA
			Mid-1	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	2.6	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.91	<5.0	NM	7.68
03/15/05	4,189,753	71,123	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/24/2005	4,232,660	42,907	Influent	0.55	<0.5	<0.5	<0.5	<50	51	NA	NA	NA
			Dat-Eff	1.3	<0.5	<0.5	1.9	<50	40	NA	NA	NA
			Mid-1	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	5.1	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.2	<5.0	<1.0	7.86
04/05/05	4,252,450	19,790	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/26/2005	4,342,340	89,890	Influent	10	<0.5	0.68	3.0	100	57	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	1.6	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	88**	<0.5	10	1.1	7.34
05/12/05	4,385,510	43,170	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/30/2005	4,385,970	460	Influent	<0.5	<0.5	<0.5	<0.5	<50	3,900	NA	NA	NA
			Dat-Eff	<5.0	<5.0	<5.0	<5.0	<500	2,300	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	38	69	7.85
06/06/05	4,387,750	1,780	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/28/2005	4,408,580	20,830	Influent	0.76	<0.5	<0.5	<0.5	<50	41	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	4.9	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	1.1	7.56

\* = changed out totalizer

\*\* = Field Measurements

\*\*\* = Hydrocarbon reported as TPH as gasoline do not exhibit a typical gasoline chromatographic pattern for sample GW-Eff

ppm = parts per million

Notes:

a) Total Petroleum Hydrocarbons 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 Leelling 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

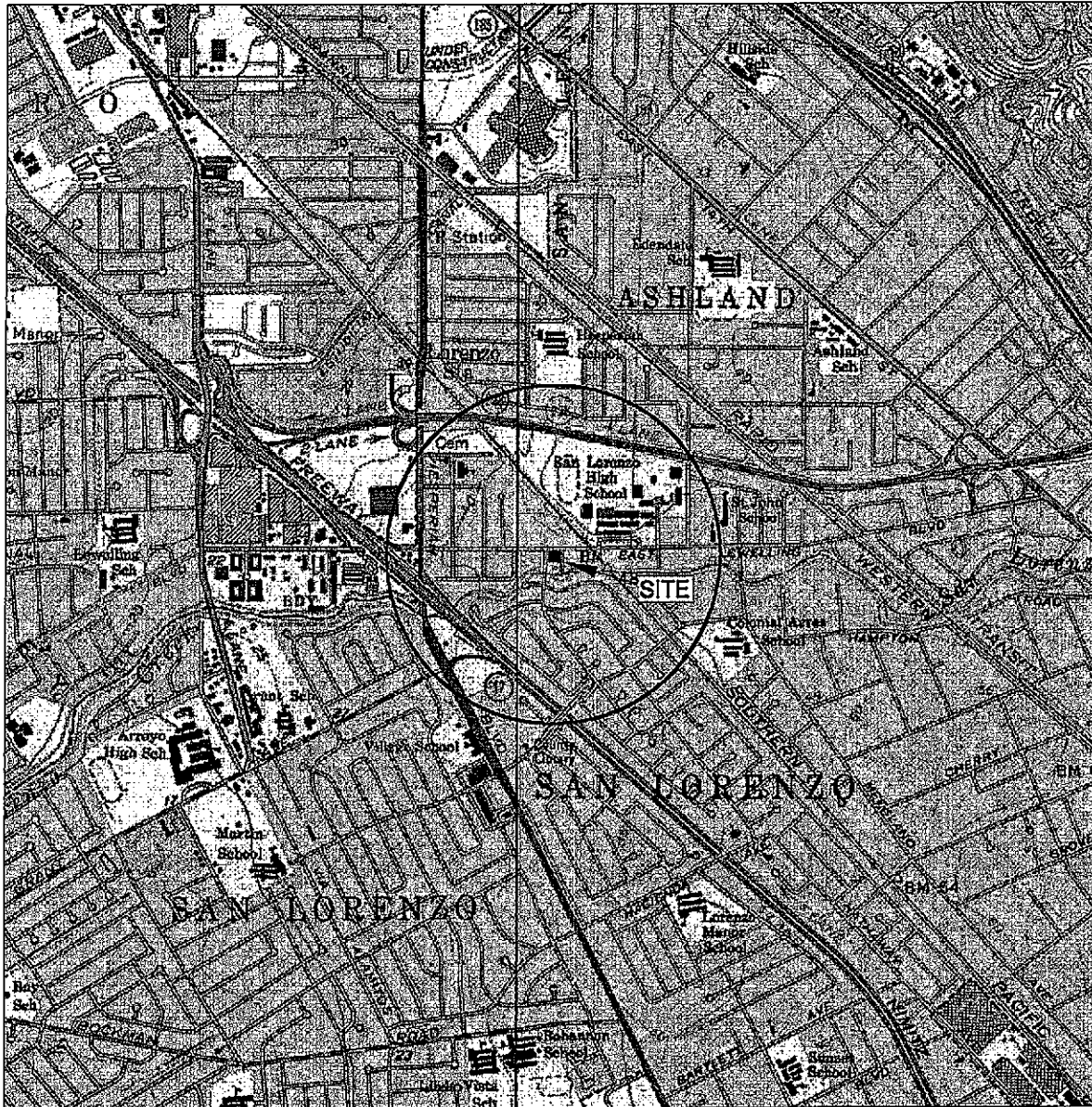
## SVE SYSTEM MONITORING

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		SVE		SVE		SVE		Cumulative Volume of Processed Air (cubic feet)	Cumulative		Total Hours Operated	Change in Hours of Operation
			TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)		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.



T.3 S.

R.2 W.

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



QUADRANGLE LOCATION



SCALE 1:24,000

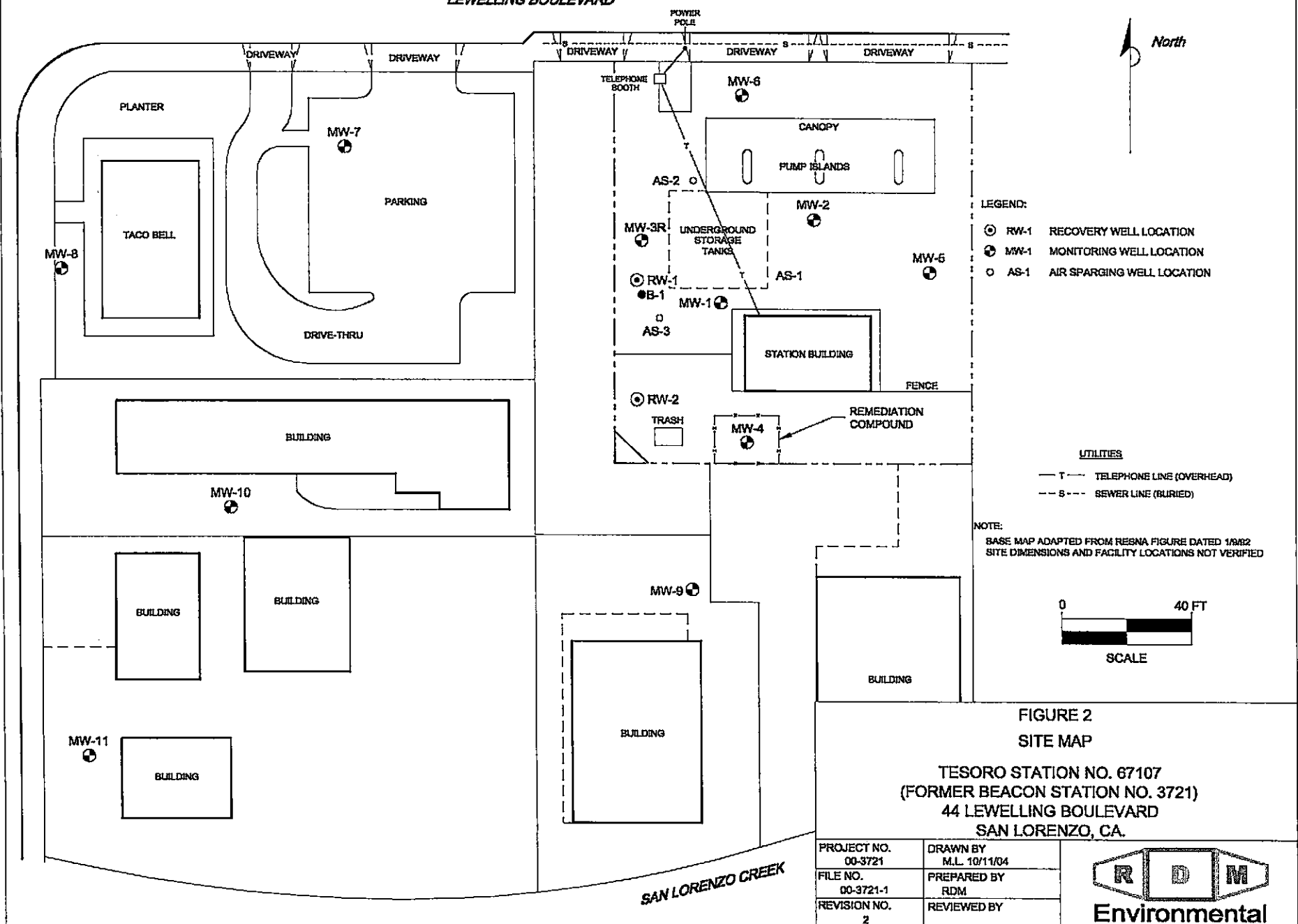
FIGURE 1  
 SITE LOCATION MAP  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 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 1/8/82  
 SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED

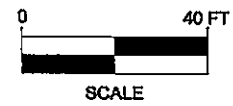
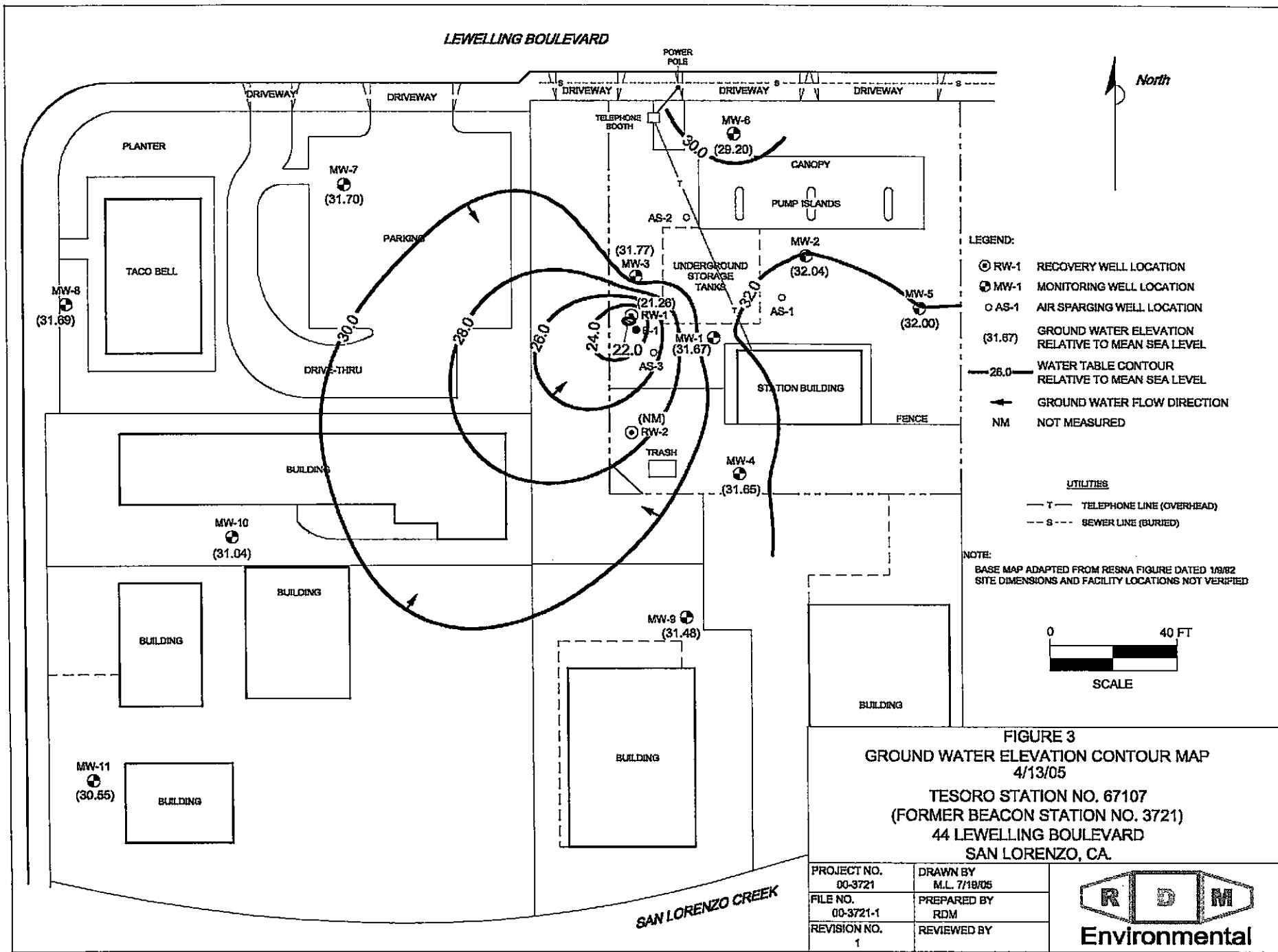


FIGURE 2  
 SITE MAP  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 10/11/04
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 2	REVIEWED BY



SAN LORENZO CREEK



LEWELLING BOULEVARD



LEGEND:

- ⊙ RW-1 RECOVERY WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- AS-1 AIR SPARGING WELL LOCATION
- (31.67) GROUND WATER ELEVATION RELATIVE TO MEAN SEA LEVEL
- 26.0 — WATER TABLE CONTOUR RELATIVE TO MEAN SEA LEVEL
- ← GROUND WATER FLOW DIRECTION
- NM NOT MEASURED

UTILITIES

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

NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE DATED 1/8/82  
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED

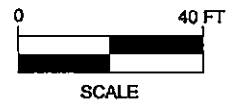


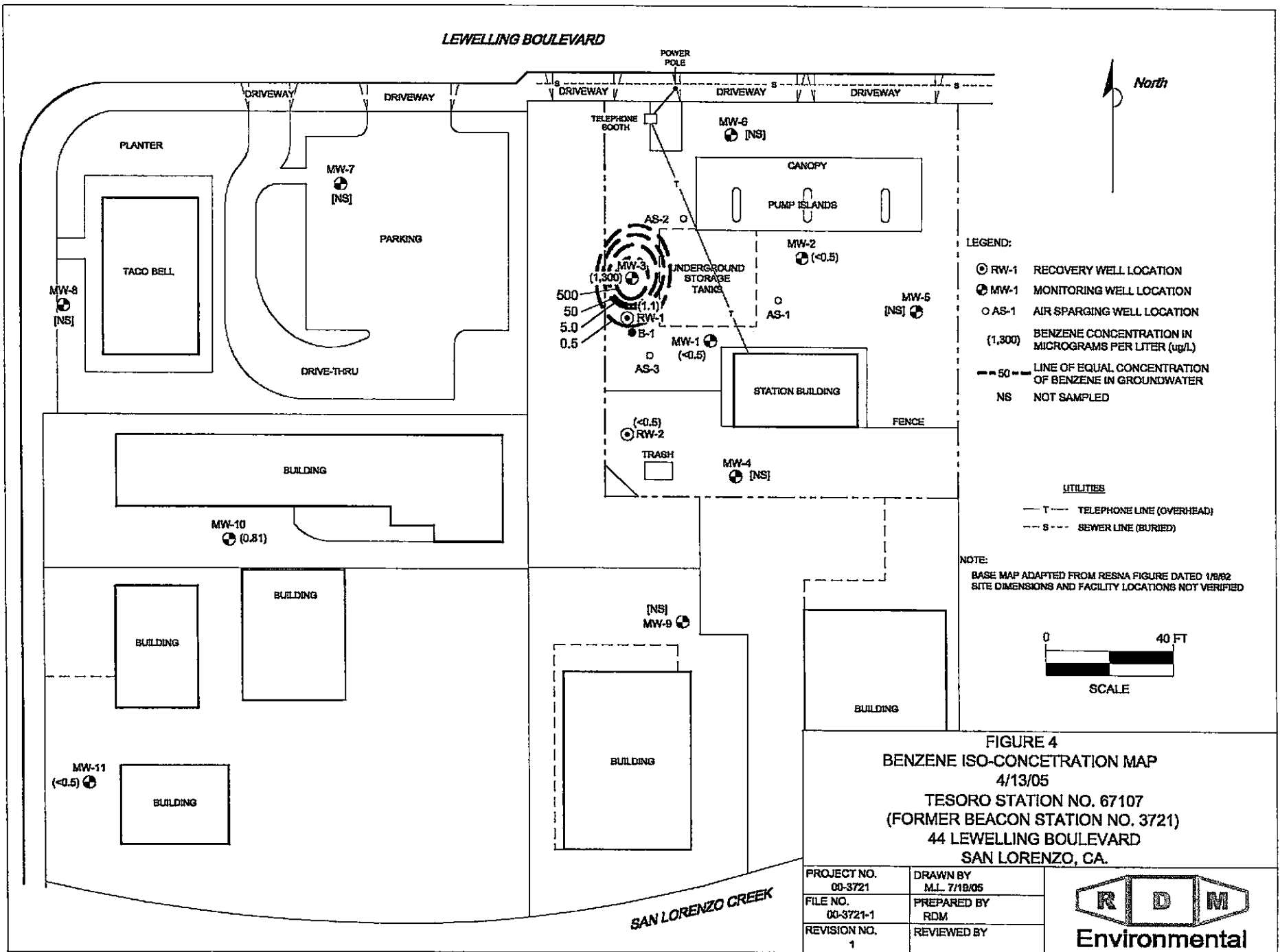
FIGURE 3  
GROUND WATER ELEVATION CONTOUR MAP  
4/13/05

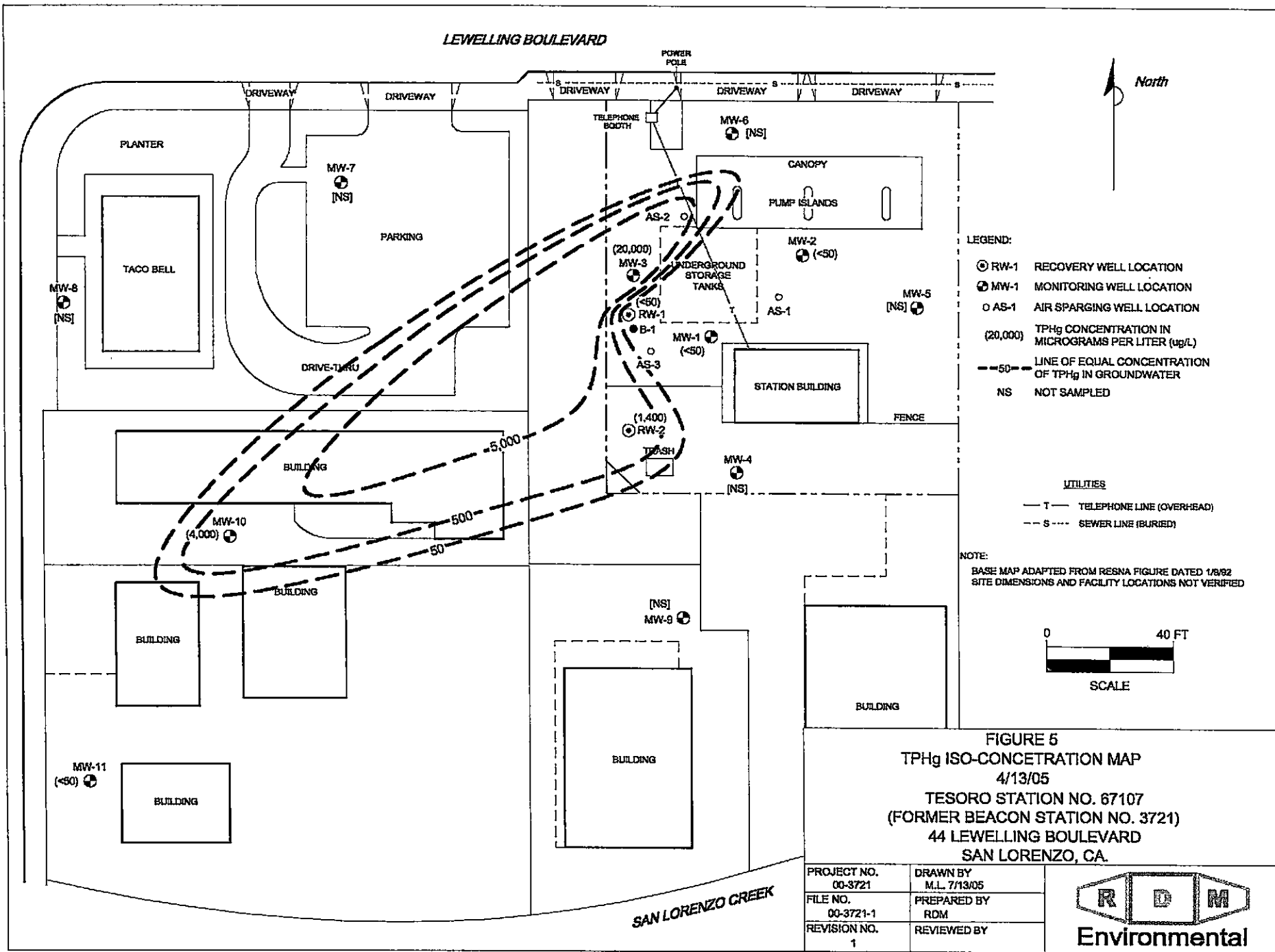
TESORO STATION NO. 67107  
(FORMER BEACON STATION NO. 3721)  
44 LEWELLING BOULEVARD  
SAN LORENZO, CA.

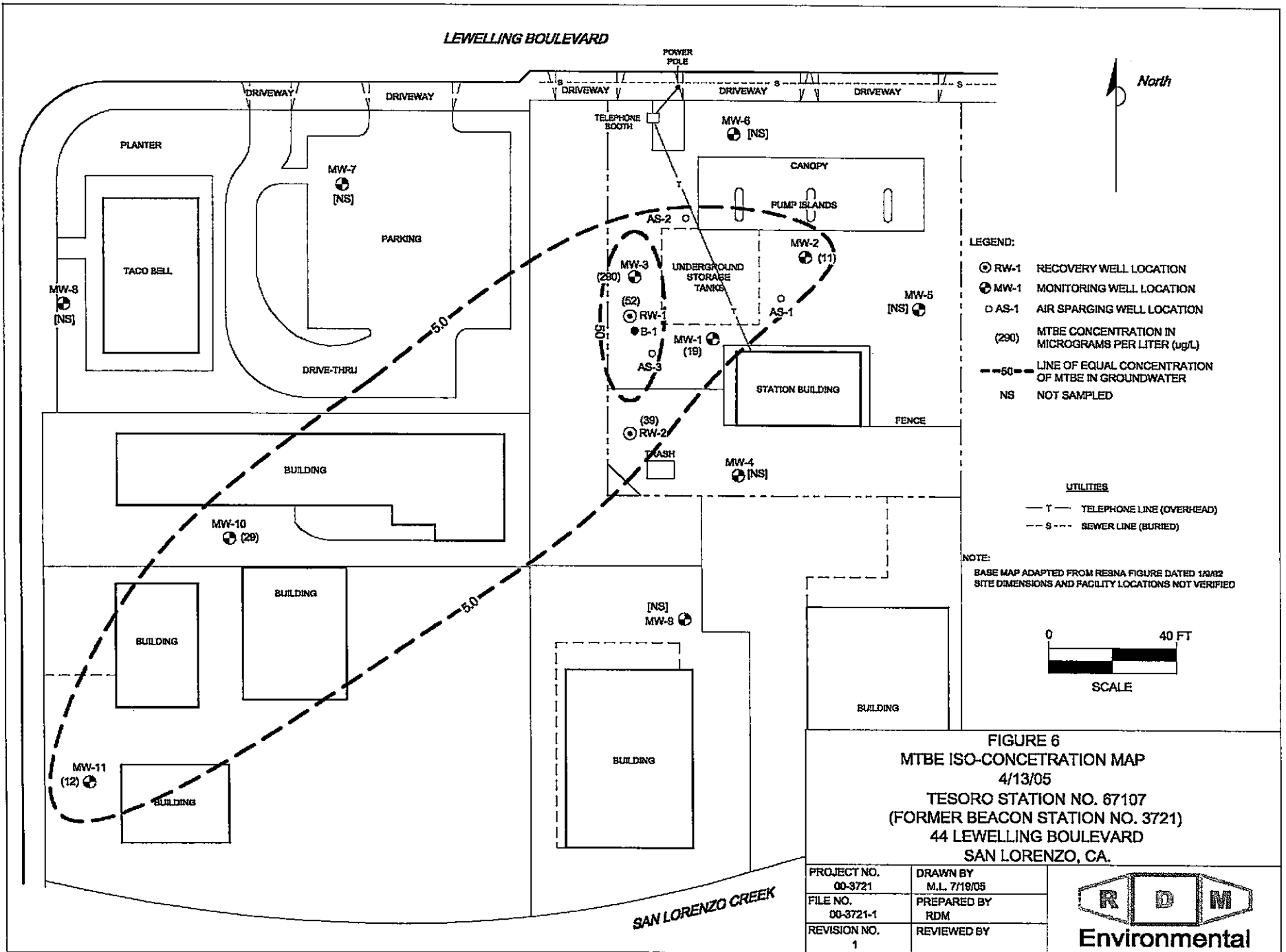
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FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

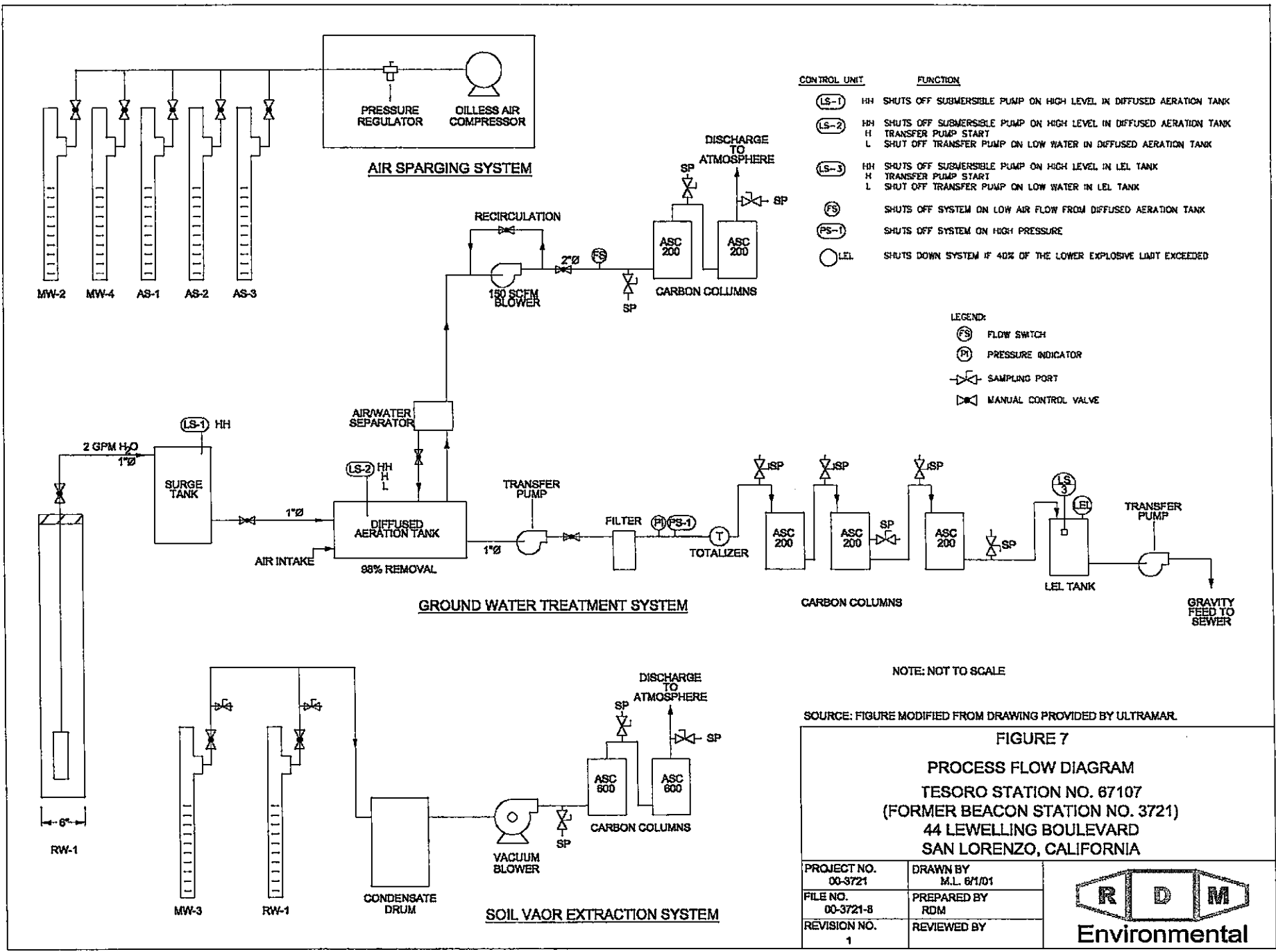


SAN LORENZO CREEK









CONTROL UNIT	FUNCTION
(LS-1)	HH SHUTS OFF SUBMERSIBLE PUMP ON HIGH LEVEL IN DIFFUSED AERATION TANK H TRANSFER PUMP START L SHUT OFF TRANSFER PUMP ON LOW WATER IN DIFFUSED AERATION TANK
(LS-2)	HH SHUTS OFF SUBMERSIBLE PUMP ON HIGH LEVEL IN LEL TANK H TRANSFER PUMP START L SHUT 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
—X—	SAMPLING PORT
—V—	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



## 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.
- On September 16, 2004, RDM installed recovery well MW-3R and RW-2.



**ENCLOSURE B**

Ground Water Sampling Information



Client: <u>Tesoro</u>	Sample Data: <u>4/13/2005</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-1</u>

Signature: D Hoff

**Well Box Condition/Traffic**

Traffic Control	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Time: <u>1001</u> hours
Standing water	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	above or below casing
Top of well level	<u>Yes</u> No	Remark: _____
Well cap & locked	<u>Yes</u> No	Remark: _____
Height of Riser	<u>6"</u>	
Well Box	8" <u>(2)</u> 24" Type of well box <u>Not MARKED</u>	

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer	<u>X</u>	Submersible Pump	_____
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailers	_____	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>9.28</u>
Time:	<u>1001</u>	Time:	_____	Actual Purge <u>10.00</u>
Depth of Well	<u>33.64</u>	Depth to Water	_____	
Depth to Water	<u>14.31</u>			

**Sample**

Start Purge	<u>1004</u>	Sample Time	<u>1020</u>
-------------	-------------	-------------	-------------

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1010</u>	<u>65.0</u>	<u>553</u>	<u>8.56</u>			<u>1</u>
<u>1014</u>	<u>66.2</u>	<u>562</u>	<u>8.44</u>			<u>2</u>
<u>1018</u>	<u>66.1</u>	<u>571</u>	<u>8.44</u>			<u>3</u>

Sample Appearance	<u>Clear</u>	Lock	<u>ok</u>
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**Equipment Replacement**

Lock	<u>ok</u>	Well Cap	<u>ok</u>	Bolts	<u>ok</u>	Box	<u>ok</u>
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Remarks:

\_\_\_\_\_

Client: <u>Tesoro</u>	Sample Data: <u>4/13/2005</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-2</u>
Signature: <u>D. Hoff</u>	

**Well Box Condition/Traffic**

Traffic Control	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Time: <u>924</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>6'</u>	
Well Box	8" 12" 24" 18"	Type of well box <u>NOT MARKED</u>

**Purging/Sampling Equipment**

**Purging -**

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

**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>10.16</u>
Time: <u>924</u>	_____	Time: _____	_____	Actual Purge <u>13.0</u>
Depth of Well	<u>34.35</u>	Depth to Water	_____	
Depth to Water	<u>13.19</u>			

**Sample**

Start Purge	<u>927</u>	Sample Time	<u>943</u>
-------------	------------	-------------	------------

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>933</u>	<u>70.2</u>	<u>489</u>	<u>8.71</u>			<u>1</u>
<u>935</u>	<u>71.1</u>	<u>552</u>	<u>8.70</u>			<u>2</u>
<u>937</u>	<u>71.5</u>	<u>530</u>	<u>8.66</u>			<u>3</u>
<u>940</u>	<u>71.6</u>	<u>547</u>	<u>8.63</u>			<u>4</u>

Sample Appearance	<u>Clear</u>	Lock	<u>ok</u>
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**Equipment Replacement**

Lock	<u>ok</u>	Well Cap	<u>ok</u>	Bolts	<u>ok</u>	Box	<u>ok</u>
------	-----------	----------	-----------	-------	-----------	-----	-----------

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

Client: <u>Tesoro</u>	Sample Data: <u>4/13/2005</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-3R</u>
Signature: <u>D. Hoff</u>	

**Well Box Condition/Traffic**

Traffic Control	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Time: <u>1135</u> hours
Standing water	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	above or below casing
Top of well level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark:
Well cap & locked	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remark: <u>no lock</u>
Height of Riser	<u>0</u>	
Well Box <u>(8)</u> 12" 24"	Type of well box	<u>Morrison Debuque</u>

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer	<u>                    </u>	Submersible Pump	<u>                    </u>
2" PVC Bailer	<u>                    </u>	Dedicated Bailer	<u>                    </u>
4" PVC Bailers	<u>                    </u>	Centrifugal Pump	<u>  x                    </u>

**Sampling -**

Disposable Bailer	<u>  x                    </u>	Teflon Bailer	<u>                    </u>	Disposable Tubing	<u>                    </u>
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**Well Purging**

Well Diameter:	2" <u>                    </u>	4" <u>                    </u>	6" <u>  x                    </u>	8" <u>                    </u>	
Purge Vol. Multiplier	<u>  0.16                    </u>	<u>  0.65                    </u>	<u>  1.47                    </u>	<u>  2.61                    </u>	
Initial Measurement	<u>                    </u>	Recharge Measurement	<u>                    </u>	Calculated Purge	<u>  73.05                    </u>
Time:	<u>  1135                    </u>	Time:	<u>                    </u>	Actual Purge	<u>  40.00                    </u>
Depth of Well	<u>  30.00                    </u>	Depth to Water	<u>                    </u>		
Depth to Water	<u>  13.44                    </u>				

**Sample**

Start Purge   1140                     Sample Time   1215                    

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>  1150                    </u>	<u>  71.2                    </u>	<u>  866                    </u>	<u>  8.87                    </u>			<u>  1                    </u>
<u>  1200                    </u>	<u>  71.7                    </u>	<u>  872                    </u>	<u>  8.91                    </u>			<u>  2                    </u>
<u>  1212                    </u>	<u>  72.4                    </u>	<u>  856                    </u>	<u>  8.62                    </u>			<u>  3                    </u>

Sample Appearance   clear                     Lock   ok                    

**Equipment Replacement**

Lock   ok                     Well Cap   ok                     Bolts   ok                     Box   ok                    

Remarks:

Client: Tesoro Sample Data: 4/13/2005  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: MW-10

Signature: D. Hoff

**Well Box Condition/Traffic**

Traffic Control Yes  No  Time: 114 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 Morrison Debuque

**Purging/Sampling Equipment**

**Purging -**

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

**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 7.47  
 Time: 114 Time: \_\_\_\_\_ Actual Purge 8.05  
 Depth of Well 29.40 Depth to Water \_\_\_\_\_  
 Depth to Water 13.61

**Sample**

Start Purge 1114 Sample Time 1129

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
1120	74.5	826	8.85			1
1123	70.1	803	8.18			2
1126	69.8	791	8.04			3

Sample Appearance 1129 Clear Lock ok

**Equipment Replacement**

Lock ok Well Cap ok Bolts -2 Box ok

Remarks:

Client: Tesoro Sample Data: 4/13/2005  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: mw-11

Signature: D. Hoff

**Well Box Condition/Traffic**

Traffic Control Yes  No  Time: 548 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 Bramard Kilman

**Purging/Sampling Equipment**

**Purging -**

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

**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 6.02  
 Time: 848 Time: \_\_\_\_\_ Actual Purge 6.30  
 Depth of Well 29.34 Depth to Water \_\_\_\_\_  
 Depth to Water 16.81

**Sample**

Start Purge 856 Sample Time 906

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
858	68.2	638	8.55			1
900	69.0	619	8.52			2
902	69.3	600	8.44			3

Sample Appearance Clear Lock ok

**Equipment Replacement**

Lock ok Well Cap ok Bolts -2 Box ok

Remarks:

Client: Tesoro Sample Data: 4/13/2005  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: Rw-1  
 Signature: J Hoff

**Well Box Condition/Traffic**

Traffic Control  Yes  No Time: 1220 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 4"  
 Well Box 8" 12" 24" Type of well box \_\_\_\_\_

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer \_\_\_\_\_ Submersible Pump \_\_\_\_\_  
 2" PVC Bailer \_\_\_\_\_ Dedicated Bailer \_\_\_\_\_  
 4" PVC Bailers N/A \_\_\_\_\_ Centrifugal Pump \_\_\_\_\_

**Sampling -**

Disposable Bailer GRAB \_\_\_\_\_ 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 N/A.  
 Time: 1220 Time: \_\_\_\_\_ Actual Purge \_\_\_\_\_  
 Depth of Well 34.10 Depth to Water \_\_\_\_\_  
 Depth to Water 24.21

**Sample**

Start Purge \_\_\_\_\_ Sample Time 950

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume

Sample Appearance Clear Lock \_\_\_\_\_

**Equipment Replacement**

Lock N/A Well Cap N/A Bolts ok Box ok

Remarks:



Client: <u>Tesoro</u>	Sample Data: <u>4/13/2005</u>
Site: <u>Tesor Station 67107</u>	Project Number: <u>02-67107</u>
<u>44 Lewelling Blvd, San Lorenzo, CA</u>	Well Designation: <u>Rw-2</u>
Signature: <u>DHOFF</u>	

**Well Box Condition/Traffic**

Traffic Control	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Time: <u>1031</u> hours
Standing water	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	above or below casing
Top of well level	<input checked="" type="checkbox"/> Yes No <input type="checkbox"/>	Remark:
Well cap & locked	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Remark: <u>No lock</u>
Height of Riser	<u>5</u>	
Well Box <u>(8") 12" 24"</u>	Type of well box <u>Morrison Debuque</u>	

**Purging/Sampling Equipment**

**Purging -**

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

**Sampling -**

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

Well Diameter:	2" <u>                    </u>	4" <u>                    </u>	6" <u>  X                    </u>	8" <u>                    </u>
Purge Vol. Multiplier	<u>  0.16                    </u>	<u>  0.65                    </u>	<u>  1.47                    </u>	<u>  2.61                    </u>
Initial Measurement	<u>                    </u>	Recharge Measurement	<u>                    </u>	Calculated Purge <u>  68.18                    </u>
Time:	<u>  1031                    </u>	Time:	<u>                    </u>	Actual Purge <u>  40.00                    </u>
Depth of Well	<u>  30.00                    </u>	Depth to Water	<u>                    </u>	
Depth to Water	<u>  14.54                    </u>			

**Sample**

Start Purge   1035                     Sample Time   1104                    

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>  1041                    </u>	<u>  70.4                    </u>	<u>  753                    </u>	<u>  9.15                    </u>			<u>  1                    </u>
<u>  1050                    </u>	<u>  70.5                    </u>	<u>  766                    </u>	<u>  9.06                    </u>			<u>  2                    </u>
<u>  1057                    </u>	<u>  70.8                    </u>	<u>  772                    </u>	<u>  9.12                    </u>			<u>  3                    </u>

Sample Appearance   Cloudy                     Lock   need 1                    

**Equipment Replacement**

Lock   need 1                     Well Cap   ok                     Bolts   ok                     Box   ok                    

Remarks:

**ENCLOSURE C**

Ground Water Monitoring  
Analytical Results



Report Number : 43282

Date : 4/19/2005

Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Subject : 7 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



Report Number : 43282

Date : 4/19/2005

Project Name : 67107

Project Number : 67107


Sample : MW-1

Matrix : Water

Lab Number : 43282-01

Sample Date :4/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
<b>Methyl-t-butyl ether (MTBE)</b>	19	0.50	ug/L	EPA 8260B	4/16/2005
<b>Diisopropyl ether (DIPE)</b>	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
<b>Tert-amyl methyl ether (TAME)</b>	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
<b>Tert-Butanol</b>	12	5.0	ug/L	EPA 8260B	4/16/2005
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	4/16/2005
Toluene - d8 (Surr)	96.3		% Recovery	EPA 8260B	4/16/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	4/16/2005

Approved By:  Joel Kiff



Report Number : 43282

Date : 4/19/2005

Project Name : 67107

Project Number : 67107

Sample : MW-2

Matrix : Water

Lab Number : 43282-02

Sample Date :4/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Methyl-t-butyl ether (MTBE)	11	0.50	ug/L	EPA 8260B	4/16/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/16/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/16/2005
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	4/16/2005
4-Bromofluorobenzene (Surr)	91.0		% Recovery	EPA 8260B	4/16/2005

Approved By:

Joel Kiff



Report Number : 43282

Date : 4/19/2005

Project Name : 67107

Project Number : 67107

Sample : MW-3R

Matrix : Water

Lab Number : 43282-03

Sample Date :4/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1300	2.5	ug/L	EPA 8260B	4/16/2005
Toluene	84	2.5	ug/L	EPA 8260B	4/16/2005
Ethylbenzene	1200	2.5	ug/L	EPA 8260B	4/16/2005
Total Xylenes	3200	7.0	ug/L	EPA 8260B	4/16/2005
Methyl-t-butyl ether (MTBE)	290	2.5	ug/L	EPA 8260B	4/16/2005
Dilsopropyl ether (DIPE)	< 2.5	2.5	ug/L	EPA 8260B	4/16/2005
Ethyl-t-butyl ether (ETBE)	< 2.5	2.5	ug/L	EPA 8260B	4/16/2005
Tert-amyl methyl ether (TAME)	< 2.5	2.5	ug/L	EPA 8260B	4/16/2005
Tert-Butanol	150	15	ug/L	EPA 8260B	4/16/2005
TPH as Gasoline	20000	250	ug/L	EPA 8260B	4/16/2005
Toluene - d8 (Surr)	88.8		% Recovery	EPA 8260B	4/16/2005
4-Bromofluorobenzene (Surr)	94.9		% Recovery	EPA 8260B	4/16/2005

Approved By:

Joel Kiff



Report Number : 43282

Date : 4/19/2005

Project Name : 67107

Project Number : 67107

Sample : MW-10

Matrix : Water

Lab Number : 43282-04

Sample Date :4/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.81	0.50	ug/L	EPA 8260B	4/18/2005
Toluene	6.5	0.50	ug/L	EPA 8260B	4/18/2005
Ethylbenzene	200	0.50	ug/L	EPA 8260B	4/18/2005
Total Xylenes	120	0.50	ug/L	EPA 8260B	4/18/2005
Methyl-t-butyl ether (MTBE)	29	0.50	ug/L	EPA 8260B	4/18/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/18/2005
TPH as Gasoline	4000	90	ug/L	EPA 8260B	4/16/2005
Toluene - d8 (Surr)	97.0		% Recovery	EPA 8260B	4/18/2005
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	4/18/2005

Approved By:

Joel Kiff



Report Number : 43282

Date : 4/19/2005

Project Name : 67107

Project Number : 67107

Sample : MW-11

Matrix : Water

Lab Number : 43282-05

Sample Date : 4/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Methyl-t-butyl ether (MTBE)	12	0.50	ug/L	EPA 8260B	4/16/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/16/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/16/2005
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	4/16/2005
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	4/16/2005

Approved By:

Joel Kiff





Report Number : 43282

Date : 4/19/2005

Project Name : 67107

Project Number : 67107


Sample : RW-1

Matrix : Water

Lab Number : 43282-06

Sample Date :4/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.1	0.50	ug/L	EPA 8260B	4/18/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Methyl-t-butyl ether (MTBE)	52	0.50	ug/L	EPA 8260B	4/18/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Tert-Butanol	12	5.0	ug/L	EPA 8260B	4/18/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/18/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	4/18/2005
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	4/18/2005

Approved By:  Joel Kiff



Report Number : 43282

Date : 4/19/2005

Project Name : 67107

Project Number : 67107

Sample : RW-2


Matrix : Water

Lab Number : 43282-07

Sample Date :4/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethylbenzene	8.6	0.50	ug/L	EPA 8260B	4/16/2005
Total Xylenes	9.9	0.50	ug/L	EPA 8260B	4/16/2005
Methyl-t-butyl ether (MTBE)	39	0.50	ug/L	EPA 8260B	4/16/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/16/2005
TPH as Gasoline	1400	50	ug/L	EPA 8260B	4/16/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	4/16/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	4/16/2005

Approved By:

  
Joel Kiff

Report Number : 43282

Date : 4/19/2005

**QC Report : Method Blank Data**

Project Name : **67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/15/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/15/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/15/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/15/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/15/2005
Toluene - dB (Surr)	99.6		%	EPA 8260B	4/15/2005
4-Bromofluorobenzene (Surr)	90.6		%	EPA 8260B	4/15/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/16/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/16/2005
Toluene - dB (Surr)	92.0		%	EPA 8260B	4/16/2005
4-Bromofluorobenzene (Surr)	108		%	EPA 8260B	4/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/16/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/16/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/16/2005
Toluene - dB (Surr)	99.7		%	EPA 8260B	4/16/2005
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	4/16/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/18/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/18/2005
Toluene - dB (Surr)	101		%	EPA 8260B	4/18/2005
4-Bromofluorobenzene (Surr)	97.9		%	EPA 8260B	4/18/2005

Approved By:  Joel Kiff

Report Number : 43282

Date : 4/19/2005

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 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	43282-02	<0.50	40.0	40.0	44.8	44.4	ug/L	EPA 8260B	4/16/05	112	111	0.818	70-130	25
Toluene	43282-02	<0.50	40.0	40.0	43.2	43.2	ug/L	EPA 8260B	4/16/05	108	108	0.118	70-130	25
Tert-Butanol	43282-02	<5.0	200	200	218	212	ug/L	EPA 8260B	4/16/05	109	106	2.75	70-130	25
Methyl-t-Butyl Ether	43282-02	11	40.0	40.0	49.0	48.3	ug/L	EPA 8260B	4/16/05	93.9	92.1	1.94	70-130	25
Benzene	43277-03	<0.50	40.0	40.0	39.2	38.8	ug/L	EPA 8260B	4/16/05	98.0	97.1	0.964	70-130	25
Toluene	43277-03	<0.50	40.0	40.0	40.1	39.2	ug/L	EPA 8260B	4/16/05	100	98.1	2.18	70-130	25
Tert-Butanol	43277-03	<5.0	200	200	180	181	ug/L	EPA 8260B	4/16/05	89.9	90.7	0.966	70-130	25
Methyl-t-Butyl Ether	43277-03	2.6	40.0	40.0	38.2	38.0	ug/L	EPA 8260B	4/16/05	89.1	88.4	0.812	70-130	25
Benzene	43282-01	<0.50	40.0	40.0	44.5	43.5	ug/L	EPA 8260B	4/16/05	111	109	2.32	70-130	25
Toluene	43282-01	<0.50	40.0	40.0	38.6	38.8	ug/L	EPA 8260B	4/16/05	96.6	97.0	0.407	70-130	25
Tert-Butanol	43282-01	12	200	200	203	211	ug/L	EPA 8260B	4/16/05	95.4	99.4	4.04	70-130	25
Methyl-t-Butyl Ether	43282-01	19	40.0	40.0	51.1	50.9	ug/L	EPA 8260B	4/16/05	80.3	79.8	0.547	70-130	25
Benzene	43290-07	<0.50	40.0	40.0	41.0	40.6	ug/L	EPA 8260B	4/18/05	102	101	0.949	70-130	25
Toluene	43290-07	<0.50	40.0	40.0	41.7	40.8	ug/L	EPA 8260B	4/18/05	104	102	2.33	70-130	25
Tert-Butanol	43290-07	13	200	200	217	217	ug/L	EPA 8260B	4/18/05	102	102	0.0674	70-130	25
Methyl-t-Butyl Ether	43290-07	140	40.0	40.0	178	176	ug/L	EPA 8260B	4/18/05	106	102	3.29	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 43282

Date : 4/19/2005

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **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	4/16/05	112	70-130
Toluene	40.0	ug/L	EPA 8260B	4/16/05	109	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/16/05	109	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/16/05	94.4	70-130
Benzene	40.0	ug/L	EPA 8260B	4/16/05	94.2	70-130
Toluene	40.0	ug/L	EPA 8260B	4/16/05	97.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/16/05	89.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/16/05	87.5	70-130
Benzene	40.0	ug/L	EPA 8260B	4/16/05	106	70-130
Toluene	40.0	ug/L	EPA 8260B	4/16/05	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/16/05	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/16/05	89.8	70-130
Benzene	40.0	ug/L	EPA 8260B	4/18/05	97.8	70-130
Toluene	40.0	ug/L	EPA 8260B	4/18/05	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/18/05	99.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/18/05	108	70-130

KIFF ANALYTICAL, LLC

Approved By:

  
 \_\_\_\_\_  
 Joel Kiff

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



# Analysis Summary

Report Number : 43282

Date : 4/19/2005

Attention : Richard Munsch  
 RDM Environmental  
 6280 Brookshire Drive  
 Rocklin, CA 95677

Project Name :67107  
 Project Number : 67107

Sample Name			MW-1		MW-2		MW-3R		MW-10		MW-11		RW-1		RW-2	
Sample Date			4/13/2005		4/13/2005		4/13/2005		4/13/2005		4/13/2005		4/13/2005		4/13/2005	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	2.5	1300	0.50	0.81	0.50	ND	0.50	1.1	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	2.5	84	0.50	6.5	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	2.5	1200	0.50	200	0.50	ND	0.50	ND	0.50	8.6
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	7.0	3200	0.50	120	0.50	ND	0.50	ND	0.50	9.9
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	19	0.50	11	2.5	290	0.50	29	0.50	12	0.50	52	0.50	39
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	2.5	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	2.5	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	2.5	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	12	5.0	ND	15	150	5.0	ND	5.0	ND	5.0	12	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	250	20000	90	4000	50	ND	50	ND	50	1400
Toluene - d8 (Surr)	EPA 8260B	%		96.3		99.2		88.8		97.0		98.2		101		100
4-Bromofluorobenzene (Surr)	EPA 8260B	%		103		91.0		94.9		99.1		106		97.2		103

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff



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

Lab No. 43282 Page 1 of 1

Project Contact (Hardcopy or PDF To):  
Richard Munsch

Company/Address:  
RDM Env.

Phone No.: 916 415 1134 FAX No.: 916 415 1184

Project Number: 67107 P.O. No.: ✓

Project Name: 67107

Project Address:  
44 Levee King  
San Lorenzo.

California EDF Report?  Yes  No

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

Global ID:  
T-0-6-0-0-1-0-1-4-1-1

EDF Deliverable To (Email Address): \_\_\_\_\_

Sampler Signature:  
[Signature]

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

#### Analysis Request

Sample Designation	Sampling		40 ml VOA	Container				Preservative				Matrix		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 (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)	TAT	12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only	
	Date	Time		SLEEVE	HCI	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL																					
MW-1	4/13/05	1020	3		X	X				X								X													01
MW-2	4/13/05	943	3		X	X				X								X													02
MW-3R	4/13/05	1215	3		X	X				X								X													03
MW-10	4/13/05	112A	3		X	X				X								X													04
MW-11	4/13/05	906	3		X	X				X								X													05
RW-1	4/13/05	950	3		X	X				X								X													06
RW-2	4/13/05	1104	3		X	X				X								X													07

Relinquished by: DOUGLAS HOFF Date: 4/14/05 Time: 2400 Received by: [Signature] Remarks: STAT

Relinquished by: [Signature] Date: 4/15/05 Time: 1330 Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: 04/15/05 Time: 1330 Received by Laboratory: Kiff Bill to: ROB Donovan / Tesoro

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**ENCLOSURE D**

Remediation System Analytical Results





Report Number : 43460

Date : 5/3/2005

Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

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



Report Number : 43460

Date : 5/3/2005

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

## Case Narrative

Hydrocarbons reported as TPH as Gasoline do not exhibit a typical Gasoline chromatographic pattern for sample GW-Eff.

Approved By:

A handwritten signature in black ink, appearing to read "Joe Kiff", is written over the printed name "Joe Kiff".

Joe Kiff



Report Number : 43460

Date : 5/3/2005

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-Inf**

Matrix : Water

Lab Number : 43460-01

Sample Date :4/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>10</b>	0.50	ug/L	EPA 8260B	4/30/2005
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	4/30/2005
<b>Ethylbenzene</b>	<b>0.68</b>	0.50	ug/L	EPA 8260B	4/30/2005
<b>Total Xylenes</b>	<b>3.0</b>	0.50	ug/L	EPA 8260B	4/30/2005
<b>Methyl-t-butyl ether (MTBE)</b>	<b>57</b>	0.50	ug/L	EPA 8260B	4/30/2005
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	4/30/2005
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	4/30/2005
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	4/30/2005
<b>Tert-Butanol</b>	<b>21</b>	5.0	ug/L	EPA 8260B	4/30/2005
<b>TPH as Gasoline</b>	<b>100</b>	50	ug/L	EPA 8260B	4/30/2005
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	4/30/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	4/30/2005

Approved By:

Joel Kiff



Report Number : 43460

Date : 5/3/2005

Project Name : Tesoro Station 67107

Project Number : 67107


Sample : GW-DAT-Eff

Matrix : Water

Lab Number : 43460-02

Sample Date :4/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/28/2005
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	4/28/2005
4-Bromofluorobenzene (Surr)	92.2		% Recovery	EPA 8260B	4/28/2005

Approved By:  Joel Kiff



Report Number : 43460

Date : 5/3/2005

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-MID2

Matrix : Water

Lab Number : 43460-03

Sample Date : 4/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Methyl-t-butyl ether (MTBE)	1.6	0.50	ug/L	EPA 8260B	4/29/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/29/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/29/2005
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	4/29/2005
4-Bromofluorobenzene (Surr)	88.3		% Recovery	EPA 8260B	4/29/2005

Approved By:

Joel Kiff



Report Number : 43460

Date : 5/3/2005

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-Eff

Matrix : Water

Lab Number : 43460-04

Sample Date :4/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/29/2005
TPH as Gasoline	88	50	ug/L	EPA 8260B	4/29/2005
Toluene - d8 (Surr)	88.5		% Recovery	EPA 8260B	4/29/2005
4-Bromofluorobenzene (Surr)	86.4		% Recovery	EPA 8260B	4/29/2005

Approved By:

  
Joel Kiff

Report Number : 43460

Date : 5/3/2005

**QC Report : Method Blank Data**

**Project Name : Tesoro Station 67107**

**Project Number : 67107**


Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/29/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/29/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/29/2005
Toluene - d8 (Surr)	90.9		%	EPA 8260B	4/29/2005
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	4/29/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	4/28/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	4/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/28/2005
Toluene - d8 (Surr)	89.5		%	EPA 8260B	4/28/2005
4-Bromofluorobenzene (Surr)	89.0		%	EPA 8260B	4/28/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

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

Approved By:

  
 \_\_\_\_\_  
 Joel Kiff

Report Number : 43460

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 5/3/2005

Project Name : **Tesoro Station 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	43492-01	<0.50	40.0	40.0	44.2	43.4	ug/L	EPA 8260B	4/29/05	110	108	1.80	70-130	25
Toluene	43492-01	<0.50	40.0	40.0	40.8	40.8	ug/L	EPA 8260B	4/29/05	102	102	0.196	70-130	25
Tert-Butanol	43492-01	<5.0	200	200	222	226	ug/L	EPA 8260B	4/29/05	111	113	2.19	70-130	25
Methyl-t-Butyl Ether	43492-01	0.77	40.0	40.0	38.1	38.0	ug/L	EPA 8260B	4/29/05	93.4	93.1	0.282	70-130	25
Benzene	43473-08	<0.50	40.0	40.0	41.6	41.0	ug/L	EPA 8260B	4/28/05	104	102	1.37	70-130	25
Toluene	43473-08	<0.50	40.0	40.0	46.4	43.8	ug/L	EPA 8260B	4/28/05	116	110	5.68	70-130	25
Tert-Butanol	43473-08	<5.0	200	200	205	206	ug/L	EPA 8260B	4/28/05	102	103	0.692	70-130	25
Methyl-t-Butyl Ether	43473-08	0.52	40.0	40.0	37.0	39.2	ug/L	EPA 8260B	4/28/05	91.3	96.6	5.66	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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



Report Number : 43460

Date : 5/3/2005


QC Report : Laboratory Control Sample (LCS)

Project Name : **Tesoro Station 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	4/29/05	106	70-130
Toluene	40.0	ug/L	EPA 8260B	4/29/05	97.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/29/05	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/29/05	98.5	70-130
Benzene	40.0	ug/L	EPA 8260B	4/28/05	96.6	70-130
Toluene	40.0	ug/L	EPA 8260B	4/28/05	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/28/05	95.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/28/05	95.7	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

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



# Analysis Summary

Report Number : 43460

Date : 5/3/2005

Attention : Richard Munsch  
 RDM Environmental  
 6280 Brookshire Drive  
 Rocklin, CA 95677

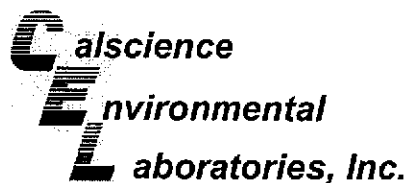
Project Name : Tesoro Station 67107  
 Project Number : 67107

Sample Name			GW-Inf		GW-DAT-Eff		GW-MID2		GW-Eff	
Sample Date			4/26/2005		4/26/2005		4/26/2005		4/26/2005	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	10	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	0.68	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	3.0	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	57	0.50	ND	0.50	1.6	0.50	ND
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	21	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	100	50	ND	50	ND	50	88
Toluene - d8 (Surr)	EPA 8260B	%		99.4		97.8		105		88.5
4-Bromofluorobenzene (Surr)	EPA 8260B	%		100		92.2		88.3		86.4

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff



May 03, 2005

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

Subject: **Calscience Work Order No.: 05-04-1833**  
Client Reference: **Tesoro Site 67107**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/29/2005 and analyzed in accordance with the attached chain-of-custody.

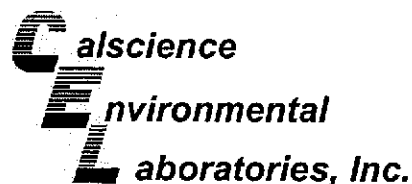
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows 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,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager



## Analytical Report



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

Date Received: 04/29/05  
Work Order No: 05-04-1833

Project: Tesoro Site 67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
GW-Eff	05-04-1833-1	04/26/05	Aqueous

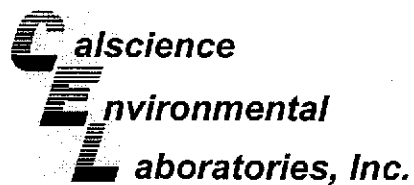
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	1.1	1.0	1		mg/L	N/A	04/28/05	EPA 160.2
Chemical Oxygen Demand	10	5	1		mg/L	N/A	05/02/05	EPA 410.4

Method Blank				N/A				Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	ND	1.0	1		mg/L	N/A	04/28/05	EPA 160.2
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	05/02/05	EPA 410.4

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

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



## Quality Control - Duplicate



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

Date Received: N/A  
Work Order No: 05-04-1833

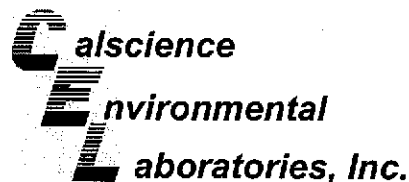
Project: Tesoro Site 67107

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	05-04-1869-1	05/02/05	350	350	2	0-25	
Solids, Total Suspended	EPA 160.2	05-04-1743-1	04/28/05	198	207	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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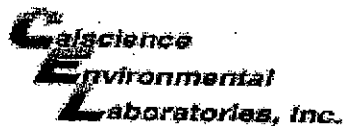
## Glossary of Terms and Qualifiers



Work Order Number: 05-04-1833

<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.
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.





WORK ORDER #: 05 - 04 - 1833

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 04/29/05

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):

- 3.4 °C Temperature blank.
°C IR thermometer.
Ambient temperature.

Initial: TH

CUSTODY SEAL INTACT:

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

Initial: TH

SAMPLE CONDITION:

Table with 4 columns: Description, 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 noted, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: TH

COMMENTS:

Blank lines for handwritten comments.





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

Lab No. 43460 Page      of     

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: . . . . .

Phone No.:  
(916) 415-1134

FAX No.:  
(916) 415-1154

Global ID:  
 . . . . .

Project Number:  
8707

P.D. No.:  
67107

EDF Deliverable To (Email Address):

Project Name:  
Terra Station 67107

Sampler Signature:

Project Address:  
44 Leavelle Blvd  
 San Lorenzo CA

Sampling		Container				Preservative				Matrix	
Date	Time	40 ml VOA	SLEEVE	RI	TSS	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL

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

**Sample Designation**

GW-Inf  
GW-PAT-EFT  
GW-MID?  
GW-EFT


Relinquished by:

Date:      Time:      Received by:

Remarks:  
STAT

Relinquished by:

Date:      Time:      Received by:

Relinquished by:

Date: 042701702 Time:      Received by Laboratory:  
Mason W. Williams  
KIFF Analytical LLC

Bill to: Terra Petroleum  
Bob Pommer



Report Number : 44064

Date : 6/7/2005

Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

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,



Joel Kiff



Report Number : 44064

Date : 6/7/2005

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-Inf

Matrix : Water

Lab Number : 44064-01

Sample Date :5/30/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Methyl-t-butyl ether (MTBE)	3900	6.0	ug/L	EPA 8260B	6/2/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Tert-amyl methyl ether (TAME)	4.5	0.50	ug/L	EPA 8260B	6/1/2005
Tert-Butanol	3000	30	ug/L	EPA 8260B	6/2/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/1/2005
4-Bromofluorobenzene (Surr)	94.6		% Recovery	EPA 8260B	6/1/2005

Approved By:

Joel Kiff



Report Number : 44064

Date : 6/7/2005

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **DAT-Eff**

Matrix : **Water**

Lab Number : **44064-02**

Sample Date : **5/30/2005**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 5.0	5.0	ug/L	EPA 8260B	6/4/2005
Toluene	< 5.0	5.0	ug/L	EPA 8260B	6/4/2005
Ethylbenzene	< 5.0	5.0	ug/L	EPA 8260B	6/4/2005
Total Xylenes	< 5.0	5.0	ug/L	EPA 8260B	6/4/2005
Methyl-t-butyl ether (MTBE)	2300	5.0	ug/L	EPA 8260B	6/4/2005
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	6/4/2005
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	6/4/2005
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	6/4/2005
Tert-Butanol	1800	25	ug/L	EPA 8260B	6/4/2005
TPH as Gasoline	< 500	500	ug/L	EPA 8260B	6/4/2005
Toluene - d8 (Surr)	88.1		% Recovery	EPA 8260B	6/4/2005
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	6/4/2005

Approved By:

Joel Kiff



Report Number : 44064

Date : 6/7/2005

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-MID1**

Matrix : **Water**

Lab Number : **44064-03**

Sample Date : **5/30/2005**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/3/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/3/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	6/3/2005
4-Bromofluorobenzene (Surr)	93.2		% Recovery	EPA 8260B	6/3/2005

Approved By:

  
Joel Kiff



Report Number : 44064

Date : 6/7/2005

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-MID2**

Matrix : Water

Lab Number : 44064-04

Sample Date :5/30/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	6/1/2005
4-Bromofluorobenzene (Surr)	93.4		% Recovery	EPA 8260B	6/1/2005

Approved By:

Joe Kiff



Report Number : 44064

Date : 6/7/2005

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-Eff**


Matrix : **Water**

Lab Number : **44064-05**

Sample Date : **5/30/2005**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
<b>Diisopropyl ether (DIPE)</b>	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
<b>Tert-amyl methyl ether (TAME)</b>	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
<b>Tert-Butanol</b>	< 5.0	5.0	ug/L	EPA 8260B	6/1/2005
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	6/1/2005
<b>Toluene - d8 (Surr)</b>	102		% Recovery	EPA 8260B	6/1/2005
<b>4-Bromofluorobenzene (Surr)</b>	94.1		% Recovery	EPA 8260B	6/1/2005

Approved By:

  
Joel Kiff

Report Number : 44064

Date : 6/7/2005

QC Report : Method Blank Data

Project Name : Tesoro Station 67107

Project Number : 67107

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/2/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Tert-aryl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/3/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/3/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/3/2005
Toluene - d8 (Surr)	85.6		%	EPA 8260B	6/3/2005
4-Bromofluorobenzene (Surr)	111		%	EPA 8260B	6/3/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Tert-aryl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
Toluene - d8 (Surr)	102		%	EPA 8260B	6/1/2005
4-Bromofluorobenzene (Sum)	93.3		%	EPA 8260B	6/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Tert-aryl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/2/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/2/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/2/2005
Toluene - d8 (Surr)	102		%	EPA 8260B	6/2/2005
4-Bromofluorobenzene (Surr)	93.4		%	EPA 8260B	6/2/2005

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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



Report Number : 44064

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 6/7/2005

Project Name : **Tesoro Station 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	44089-01	<0.50	39.5	39.4	37.9	40.0	ug/L	EPA 8260B	6/2/05	95.8	102	5.92	70-130	25
Toluene	44089-01	0.55	39.5	39.4	37.6	40.2	ug/L	EPA 8260B	6/2/05	93.6	101	7.31	70-130	25
Tert-Butanol	44089-01	<5.0	198	197	185	205	ug/L	EPA 8260B	6/2/05	93.6	104	10.6	70-130	25
Methyl-t-Butyl Ether	44089-01	<0.50	39.5	39.4	38.8	40.3	ug/L	EPA 8260B	6/2/05	98.2	102	4.22	70-130	25
Benzene	44116-02	<0.50	40.0	40.0	37.7	38.0	ug/L	EPA 8260B	6/3/05	94.2	95.0	0.898	70-130	25
Toluene	44116-02	<0.50	40.0	40.0	37.2	32.1	ug/L	EPA 8260B	6/3/05	92.9	80.3	14.5	70-130	25
Tert-Butanol	44116-02	<5.0	200	200	192	190	ug/L	EPA 8260B	6/3/05	96.1	95.1	0.989	70-130	25
Methyl-t-Butyl Ether	44116-02	0.74	40.0	40.0	33.8	34.8	ug/L	EPA 8260B	6/3/05	82.6	85.2	3.03	70-130	25
Benzene	44064-05	<0.50	40.0	40.0	40.8	40.4	ug/L	EPA 8260B	6/1/05	102	101	0.958	70-130	25
Toluene	44064-05	<0.50	40.0	40.0	41.2	40.8	ug/L	EPA 8260B	6/1/05	103	102	0.814	70-130	25
Tert-Butanol	44064-05	<5.0	200	200	190	190	ug/L	EPA 8260B	6/1/05	95.2	95.1	0.0717	70-130	25
Methyl-t-Butyl Ether	44064-05	<0.50	40.0	40.0	37.9	38.2	ug/L	EPA 8260B	6/1/05	94.8	95.5	0.710	70-130	25
Benzene	44085-03	<0.50	40.0	40.0	39.4	38.8	ug/L	EPA 8260B	6/2/05	98.5	97.1	1.45	70-130	25
Toluene	44085-03	<0.50	40.0	40.0	40.2	39.6	ug/L	EPA 8260B	6/2/05	100	99.0	1.56	70-130	25
Tert-Butanol	44085-03	<5.0	200	200	188	190	ug/L	EPA 8260B	6/2/05	94.3	94.9	0.615	70-130	25
Methyl-t-Butyl Ether	44085-03	<0.50	40.0	40.0	36.5	36.3	ug/L	EPA 8260B	6/2/05	91.3	90.8	0.610	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 44064

Date : 6/7/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **Tesoro Station 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	6/2/05	101	70-130
Toluene	40.0	ug/L	EPA 8260B	6/2/05	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/2/05	98.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/2/05	102	70-130
Benzene	40.0	ug/L	EPA 8260B	6/3/05	97.7	70-130
Toluene	40.0	ug/L	EPA 8260B	6/3/05	97.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/3/05	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/3/05	91.4	70-130
Benzene	40.0	ug/L	EPA 8260B	6/1/05	98.7	70-130
Toluene	40.0	ug/L	EPA 8260B	6/1/05	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/1/05	92.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/1/05	91.7	70-130
Benzene	40.0	ug/L	EPA 8260B	6/2/05	93.5	70-130
Toluene	40.0	ug/L	EPA 8260B	6/2/05	97.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/2/05	91.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/2/05	87.7	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joe Kiff

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





# Analysis Summary

Report Number : 44064  
Date : 6/7/2005

Attention : Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

Project Name : Tesoro Station 67107  
Project Number : 67107

Sample Name			GW-Inf		DAT-Eff		GW-MID1		GW-MID2		GW-Eff	
Sample Date			5/30/2005		5/30/2005		5/30/2005		5/30/2005		5/30/2005	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	6.0	3900	5.0	2300	0.50	ND	0.50	ND	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	5.0	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	4.5	5.0	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	30	3000	25	1800	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	500	ND	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		101		88.1		102		102		102
4-Bromofluorobenzene (Surr)	EPA 8260B	%		94.6		111		93.2		93.4		94.1

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 03, 2005

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

Subject: **CalScience Work Order No.: 05-06-0012**  
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 6/1/2005 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,

A handwritten signature in black ink, appearing to read "S. Nowak", is written over a faint, larger version of the same signature.

CalScience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager

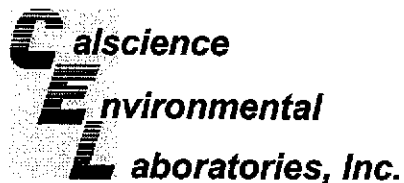
CA-ELAP ID: 1230

NELAP ID: 03220CA

CSDLAC ID: 10109

SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501



Analytical Report



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

Date Received: 06/01/05  
Work Order No: 05-06-0012

Project: Tesoro Station 67107

Page 1 of 1

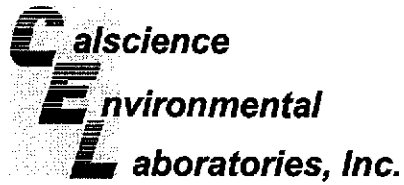
Client Sample Number	Lab Sample Number	Date Collected	Matrix
GW-EF	05-06-0012-1	05/30/05	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	69	1.0	1		mg/L	N/A	06/01/05	EPA 160.2
Chemical Oxygen Demand	38	5	1		mg/L	N/A	06/02/05	EPA 410.4

Method Blank					N/A			Aqueous
--------------	--	--	--	--	-----	--	--	---------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	ND	1.0	1		mg/L	N/A	06/01/05	EPA 160.2
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	06/02/05	EPA 410.4

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



## Quality Control - Duplicate



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

Date Received:  
Work Order No:

N/A  
05-06-0012

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	05-06-0067-1	06/02/05	2700	2700	0	0-25	
Solids, Total Suspended	EPA 160.2	05-06-0045-1	06/01/05	274	273	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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## Glossary of Terms and Qualifiers

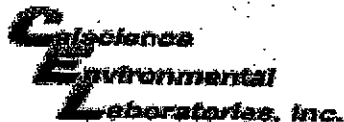


Work Order Number: 05-06-0012

<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.
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.







WORK ORDER #:

05 - 00 - 00 1 2

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff Analytical

DATE: 6/01/05

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):

- 2.7 °C Temperature blank.
°C IR thermometer.
Ambient temperature.

Initial: TL

CUSTODY SEAL INTACT:

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

Initial: TL

SAMPLE CONDITION:

Table with 4 columns: Description, 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 noted, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: TL

COMMENTS:

Blank lines for handwritten comments.



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

Lab No. 44064 Page 1 of 1

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

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

Phone No.: (916) 915-1134 FAX No.: (916) 915-1154  
 Project Number: 67107 P.O. No.: 67107  
 Global ID: \_\_\_\_\_

Project Name: Tesoro Station 67107  
 Project Address: San Lorenzo CA  
 EDF Deliverable To (Email Address): \_\_\_\_\_  
 Sampler Signature: [Signature]

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

**Analysis Request**

Sample Designation	Sampling		Container		Preservative				Matrix			BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8016)	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	TAT	For Lab Use Only				
	Date	Time	40 ml VOA	SLEEVE	Polly	Chudy	HCl	HNO <sub>3</sub>	ICE	NONE	Metal																		WATER	SOIL		
GW-Inf	5/30/25	9:30	2				X				X					X																
DAT-Eff		9:28	2				X				X					X																-01
GW-MID1		9:26	2				X				X					X																-02
GW-MID2		9:29	2				X				X					X																-03
GW-Eff	↓	9:26	2				X			X	X					X																-04
																																-05

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: 05/31/05 Time: 1419  
 Received by Laboratory: Osama Abdullahi / KIFF Analytical

Remarks: STAT  
 Bill to: Tesoro Petroleum / Rob Danouan



Report Number : 44576

Date : 7/6/2005

Richard Munsch  
RDM Environmental  
6280 Brookshire Drive  
Rocklin, CA 95677

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,



Joel Kiff



Report Number : 44576

Date : 7/6/2005

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

## Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample GW-Inf for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: \_\_\_\_\_

  
Joe Kiff



Report Number : 44576

Date : 7/6/2005

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-Inf

Matrix : Water

Lab Number : 44576-01

Sample Date :6/28/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.76	0.50	ug/L	EPA 8260B	7/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Methyl-t-butyl ether (MTBE)	41	0.50	ug/L	EPA 8260B	7/1/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Tert-Butanol	8.0	5.0	ug/L	EPA 8260B	7/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/1/2005
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	7/1/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	7/1/2005

Approved By:

Joel Kiff



Report Number : 44576

Date : 7/6/2005

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-DAT-Eff**

Matrix : Water

Lab Number : 44576-02

Sample Date :6/28/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Methyl-t-butyl ether (MTBE)</b>	<b>4.9</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	7/1/2005
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	7/1/2005
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	7/1/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	7/1/2005

Approved By:

  
Joel Kiff



Report Number : 44576

Date : 7/6/2005

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-MID1

Matrix : Water

Lab Number : 44576-03

Sample Date :6/28/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/1/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	7/1/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	7/1/2005

Approved By:

Joel Kiff



Report Number : 44576

Date : 7/6/2005

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-MID2**

Matrix : Water

Lab Number : 44576-04

Sample Date :6/28/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	7/1/2005
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	7/1/2005
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	7/1/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	7/1/2005

Approved By:

  
Joel Kiff





Report Number : 44576

Date : 7/6/2005

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-Eff**

Matrix : Water

Lab Number : 44576-05

Sample Date :6/28/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/1/2005
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	7/1/2005
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	7/1/2005
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	7/1/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	7/1/2005

Approved By:

  
Joel Kiff

Report Number : 44576

Date : 7/6/2005

**QC Report : Method Blank Data**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/30/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/30/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/30/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/30/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/30/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/30/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/30/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/30/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/30/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/30/2005
Toluene - d8 (Surr)	98.7		%	EPA 8260B	6/30/2005
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	6/30/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/1/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/1/2005
Toluene - d8 (Surr)	106		%	EPA 8260B	7/1/2005
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	7/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 44576

Date : 7/6/2005

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Tesoro Station 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	44599-01	<0.50	40.0	40.0	45.3	44.4	ug/L	EPA 8260B	6/30/05	113	111	1.86	70-130	25
Toluene	44599-01	<0.50	40.0	40.0	46.2	45.1	ug/L	EPA 8260B	6/30/05	116	113	2.43	70-130	25
Tert-Butanol	44599-01	33	200	200	271	268	ug/L	EPA 8260B	6/30/05	119	118	1.41	70-130	25
Methyl-t-Butyl Ether	44599-01	4.0	40.0	40.0	51.1	50.2	ug/L	EPA 8260B	6/30/05	118	115	1.98	70-130	25
Benzene	44596-04	120	40.0	40.0	127	122	ug/L	EPA 8260B	7/1/05	15.3	2.03	153	70-130	25
Toluene	44596-04	3.3	40.0	40.0	46.1	44.4	ug/L	EPA 8260B	7/1/05	107	103	4.12	70-130	25
Tert-Butanol	44596-04	5.8	200	200	220	224	ug/L	EPA 8260B	7/1/05	107	109	1.56	70-130	25
Methyl-t-Butyl Ether	44596-04	<0.50	40.0	40.0	35.0	34.5	ug/L	EPA 8260B	7/1/05	87.4	86.3	1.25	70-130	25



Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 44576

Date : 7/6/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **Tesoro Station 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	6/30/05	90.9	70-130
Toluene	40.0	ug/L	EPA 8260B	6/30/05	93.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/30/05	94.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/30/05	95.4	70-130
Benzene	40.0	ug/L	EPA 8260B	7/1/05	103	70-130
Toluene	40.0	ug/L	EPA 8260B	7/1/05	116	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/1/05	114	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/1/05	98.0	70-130

KIFF ANALYTICAL, LLC

Approved By:

  
Joel Kiff

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



# Analysis Summary

Report Number : 44576

Date : 7/6/2005

Attention : Richard Munsch  
 RDM Environmental  
 6280 Brookshire Drive  
 Rocklin, CA 95677

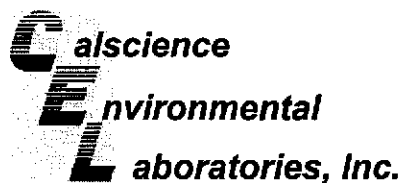
Project Name : Tesoro Station 67107  
 Project Number : 67107

Sample Name			GW-Inf		GW-DAT-Eff		GW-MID1		GW-MID2		GW-Eff	
Sample Date			6/28/2005		6/28/2005		6/28/2005		6/28/2005		6/28/2005	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	0.76	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	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	41	0.50	4.9	0.50	ND	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	8.0	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		99.3		100		99.9		98.7
4-Bromofluorobenzene (Surr)	EPA 8260B	%		101		101		101		102		102

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff



July 07, 2005

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

Subject: **CalScience Work Order No.: 05-07-0010**  
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 7/1/2005 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,

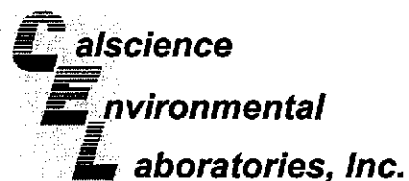
A handwritten signature in black ink, appearing to read "S. Nowak", written in a cursive style.

CalScience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager

CA-ELAP ID: 1230 • NELAP ID: 03220CA • CSDLAC ID: 10109 • SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

A handwritten signature in black ink, appearing to read "Stephen Nowak", written in a cursive style.



## Analytical Report



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

Date Received: 07/01/05  
Work Order No: 05-07-0010

Project: Tesoro Station 67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
GW-Eff	05-07-0010-1	06/28/05	Aqueous

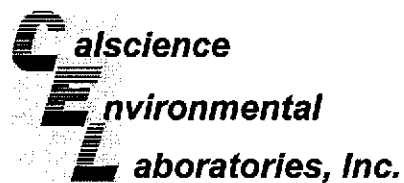
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	1.1	1.0	1		mg/L	N/A	07/01/05	EPA 160.2
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	07/06/05	EPA 410.4

Method Blank				N/A	Aqueous			
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	ND	1.0	1		mg/L	N/A	07/01/05	EPA 160.2
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	07/06/05	EPA 410.4

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

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## Quality Control - Duplicate



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

Date Received: N/A  
Work Order No: 05-07-0010

Project: Tesoro Station 67107

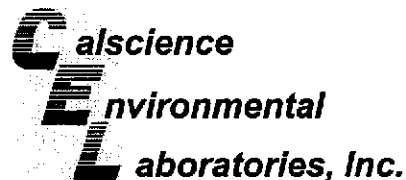
Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	05-07-0077-1	07/06/05	71	76	7	0-25	
Solids, Total Suspended	EPA 160.2	05-06-1987-1	07/01/05	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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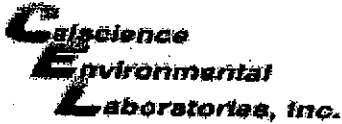
## Glossary of Terms and Qualifiers



Work Order Number: 05-07-0010

<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.
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.





WORK ORDER #:

05 - 07 - 0010

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff

DATE: 7/1/05

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):

- 5.1 °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: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sample container label(s), Sample container(s) intact, Correct containers, Proper preservation, VOA vial(s), and Tedlar bag(s).

Initial: [Signature]

COMMENTS:

Blank lines for handwritten comments.

