



**TESORO**

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

December 19, 2003

Ms. Eva Chu  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, room 250  
Alameda, California 94502

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

**RE: Tesoro Station No. 67107 44 Lewelling Blvd. San Lorenzo, California  
Groundwater Monitoring Report Second Quarter 2003**

Dear Ms. Chu and Mr. Ritchie:

Tesoro Petroleum Companies, Inc., on behalf of Tesoro Refining and Marketing Company (Tesoro), submits the referenced report for your review. Groundwater monitoring data collected on July 31, 2003 continue to indicate BTEX and MTBE concentrations within the historical monitoring range and abating at this site. The on-site remediation system composed of soil vapor/groundwater extraction and treatment, coupled with air sparging continues to be effective in mitigating historical groundwater impacts.

MTBE concentrations in off-site monitoring wells MW-10 and MW-11 continue to be elevated and therefore warrant additional efforts to maintain control of this site. Therefore, Tesoro has implemented groundwater extraction from MW-10 and MW-11 on a monthly basis to reduce the MTBE mass present in the groundwater surrounding these wells.

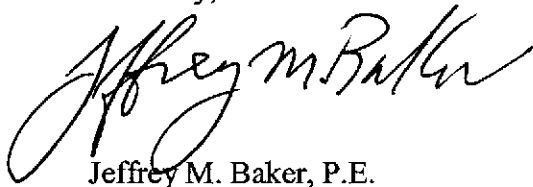
Tesoro recommends the following steps also be implemented to expedite site cleanup:

- Re-institute quarterly sampling of MW-10 and MW-11 to better monitor MTBE concentrations in these wells.
- Continue to monitor the site-specific monitoring wells to continue assessment of plume stability and attenuation of constituents of concern.

- Evaluate additional remediation tactics to improve cleanup efficiency, such as oxygen or ozone sparging in place of air sparging or additional sparging or soil vapor extraction points to enhance currently operating systems.

Please review the report and recommendations above and provide project direction. Please contact me with any questions or concerns regarding this project at (253) 896-8708. Thank you for your continued cooperation concerning this project.

Sincerely,



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

Attachment

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

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



## Environmental

1704 Via Riata, Roseville, CA 95747

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

November 30, 2003

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

Subject: *Quarterly Ground Water Monitoring and  
Remediation System Status Report, Third Quarter 2003*  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California  
RDM Project No. 02-67107

Dear Mr. Baker:

On Behalf of Tesoro Refining and Marketing Company, RDM Environmental (RDM) is submitting the following quarterly monitoring report to the Alameda County Environmental Health Department (ACEHD). This report describes quarterly ground water monitoring and remediation system status for the **Third Quarter 2003**.

### Work Performed During the Third Quarter 2003:

- Doulos Environmental Inc. performed ground water sampling on **July 31, 2003**.
- RDM conducted operation and maintenance on the remediation system.

### STATUS OF GROUND WATER MONITORING

Cumulative ground water sampling information is summarized in Table 1. A site location map, site detail map, ground water elevation map, and benzene, total petroleum hydrocarbons as gasoline, and methyl-t-butyl ether isoconcentration maps are shown on Figures 1 through 6, respectively. The site history is included in Enclosure A, the quarterly monitoring data sheets are included in Enclosure B and the ground water analytical results and domestic well analytical results are included in Enclosure C.

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

### 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. The locations of the two domestic wells sampled by RDM during past quarters are illustrated in Figure 8.

#### Operation & Maintenance Site Visits:

- Operation and maintenance site visits were conducted for the **Third Quarter 2003** on:
  - **July 2 and 21, 2003**
  - **August 6 and 20, 2003**
  - **September 7 and 21, 2003**

#### Ground Water Extraction System Performance:

- The ground water treatment system operated intermittently during the **Third Quarter 2003**.
- During the **Third Quarter 2003**, the ground water system processed **258,140** gallons.
- As of **September 21, 2003**, the ground water system has processed approximately **2,823,290** 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 operated continuously during the **Third Quarter 2003**.
- During the **Third Quarter 2003**, the SVE system removed **16.9** pounds of vapor equivalent gasoline.
- As of **September 21, 2003**, the SVE system has removed approximately **198.6** pounds (**32.5** 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. The remediation system analytical results are included in Enclosure D.
- Soil vapor extraction is currently being conducted on wells MW-2, MW-3 and RW-1.

#### Air Sparging System Performance:

- The air sparging system operated continuously during the **Third Quarter 2003**.
- Air sparging is currently being conducted on monitoring wells MW-2 and MW-4 and air sparging wells AS-1, AS-2 and AS-3.
- The air compressor is on a 50/50 duty cycle.

### CONCLUSIONS/RECOMMENDATIONS

RDM recommends continued operation of the remediation system and quarterly ground water monitoring. Due to the persistent elevated concentrations of dissolved petroleum hydrocarbons in ground water in the vicinity of monitoring wells MW-10 and MW-11, in October 2003, RDM began conducting monthly dewatering events to these wells utilizing a vacuum truck. These monthly vacuum events are scheduled for

Mr. Jeff Baker  
Tesoro Petroleum Companies, Inc.  
November 30, 2003  
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one quarter. RDM will reevaluate the vacuum events at the end of the fourth quarter 2003. In addition, RDM recommends monitoring well MW-11 be returned to the routine quarterly monitoring schedule. 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.

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


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

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

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

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

RDM ENVIRONMENTAL

  
Richard D. Munsch  
Project Manager

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



RDM (3721 3Q GWM 7-31-03)

**Enclosures:**

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

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107

Former Beacon Station No. 3721

44 Lewelling Boulevard

San Lorenzo, California

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

TABLE 1

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

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



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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	3200	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

TABLE I

## GROUND WATER MONITORING DATA

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

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-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

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>e</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

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

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## 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	7500	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>c</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



TABLE 1

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44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-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	
	02/26/01		17.80	27.20	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		18.23	26.77	<0.5	<0.5	<0.5	<0.5	<50	30	NA	No free product or sheen
	09/05/01		19.21	25.79	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		19.80	25.20	<0.5	<0.5	<0.5	<0.5	360	330	NA	No free product or sheen
	02/11/02	47.36	17.40	29.96	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		18.30	29.06	<0.5	<0.5	<0.5	<0.5	120	220	13 <sup>5</sup>	No free product or sheen
	08/06/02		18.80	28.56	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		18.94	28.42	<1.0	<1.0	<1.0	<1.0	240	380	ND	No free product or sheen
	02/20/03		17.46	29.90	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		17.64	29.72	<0.5	<0.5	<0.5	<0.5	160	170	ND	No free product or sheen
	07/31/03		18.81	28.55	NS	NS	NS	NS	NS	NS	NS	Not Sampled

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

TABLE 1

## GROUND WATER MONITORING DATA

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

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

TABLE 1

## GROUND WATER MONITORING DATA

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

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-1	08/06/02		25.56	19.91	<0.5	<0.5	<0.5	<0.5	<50	190	6.0 <sup>f</sup>	No free product or sheen
(cont)	11/14/02		24.83	20.64	<0.5	<0.5	<0.5	<0.5	<50	170	ND	No free product or sheen
	02/20/03		23.56	21.91	<0.5	<0.5	<0.5	<0.5	<50	120	ND	No free product or sheen
	05/15/03		22.80	22.67	<0.5	<0.5	<0.5	<0.5	<50	110	ND	No free product or sheen
	07/31/03		21.71	23.76	<0.5	<0.5	<0.5	<0.5	<50	99	ND	No free product or sheen
DW-15800*	01/14/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	0.81	ND	No free product or sheen
	03/20/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen
DW-15808*	01/14/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen
	03/20/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen

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

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

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

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

<sup>e</sup> Tert-Butanol

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

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

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

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.

NS = Not sampled.

NM = Not measured.

NC = Not calculated.

NA = Not analyzed.

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

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

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

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

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

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

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



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

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
04/18/02	570,490	1,540	Influent	<0.5	<0.5	<0.5	<0.5	<50	140	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	26	7.8**
05/13/02	703,960	133,470	Influent	<0.5	<0.5	<0.5	<0.5	<50	220	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	98	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	13	<1.0	7.45**
05/24/02	762,880	58,920	NS	NS	NS	NS	NS	NS	NS	NS	NS	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	TPH <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
10/22/02	1,392,920	60,860	Influent	<0.5	<0.5	<0.5	<0.5	<50	150	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	69	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	13.0	<1.0	7.48**
11/11/02	1,411,070	18,150	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/24/02	1,474,210	63,140	Influent	<0.5	<0.5	<0.5	<0.5	<50	170	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	130	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	3.2	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.95	10.0	<1.0	7.52**
12/11/02	1,548,430	74,220	NS	NS	NS	NS	NS	NS	NS	NS	NS	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	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	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	NS

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

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

NA

could not find pH in lab result

NA

NA

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

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
09/21/03	2,604,320	600	Influent	1.0	<0.5	<0.5	<0.5	<50	240	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	3.0	NS	NS	NS
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<1.0	7.61

NA

Total Gallons Treated = (totalizer reading + 218,970 gallons)

\* = changed out totalizer

\*\* = Field Measurements

ppm = parts per million

Notes:

a) Total Petroleum Hydrocarbon as gasoline

b) Methyl-t-butyl ether

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

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

**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)	Ethylbenzene (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

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



**TABLE 4**  
**SVE SYSTEM MONITORING**

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

Date	Inlet Flow Rate (ft <sup>3</sup> /min)	Stack Flow Rate (ft <sup>3</sup> /min)	SVE TPH Influent (ppmv)	SVE TPH Effluent (ppmv)	SVE Benzene Influent (ppmv)	SVE Benzene Effluent (ppmv)	SVE TPH Extraction Rate (lbs/day)	SVE TPH Mass Emission (lbs/day)	SVE Benzene Extraction Rate (lbs/day)	SVE Benzene Emission Rate (lbs/day)	Cumulative Volume of Processed Air (cubic feet)	TPH Extraction (lbs)	Cumulative TPH Extraction (lbs)	Total Hours Operated	Change in Hours of Operation
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

TPH = Total petroleum hydrocarbons.  
ppmv = Parts per million by volume.



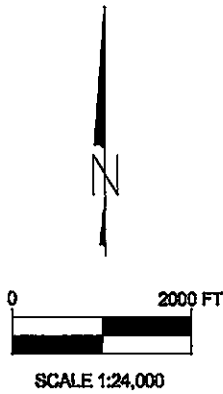
T.38.

R.2W.

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



QUADRANGLE LOCATION



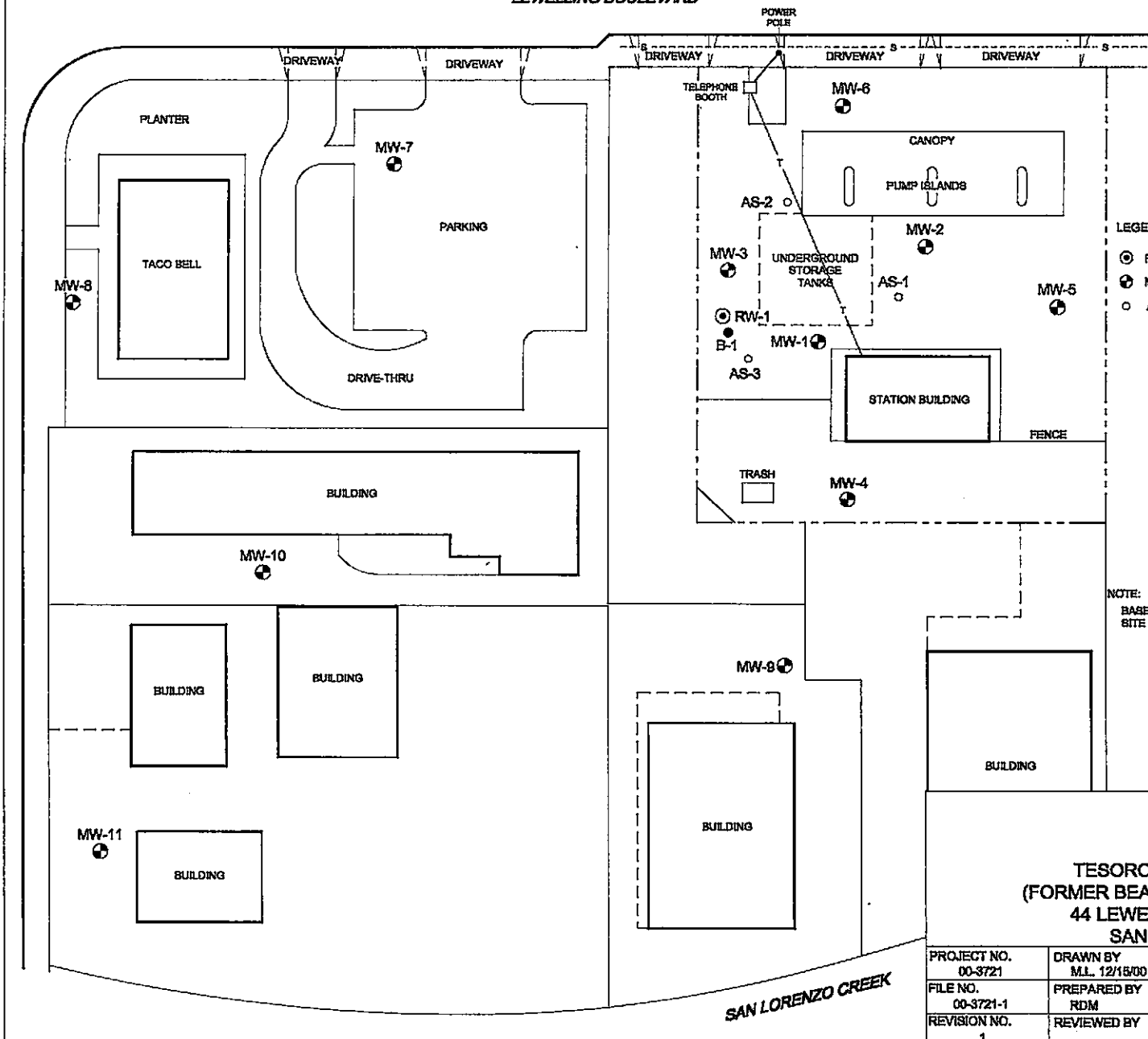
**FIGURE 1**  
**SITE LOCATION MAP**  
 TESORO STATION NO. 87107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 12/16/00
FILE NO. 00-3721-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



**Environmental**

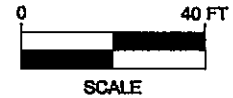
LEWELLING BOULEVARD



- 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

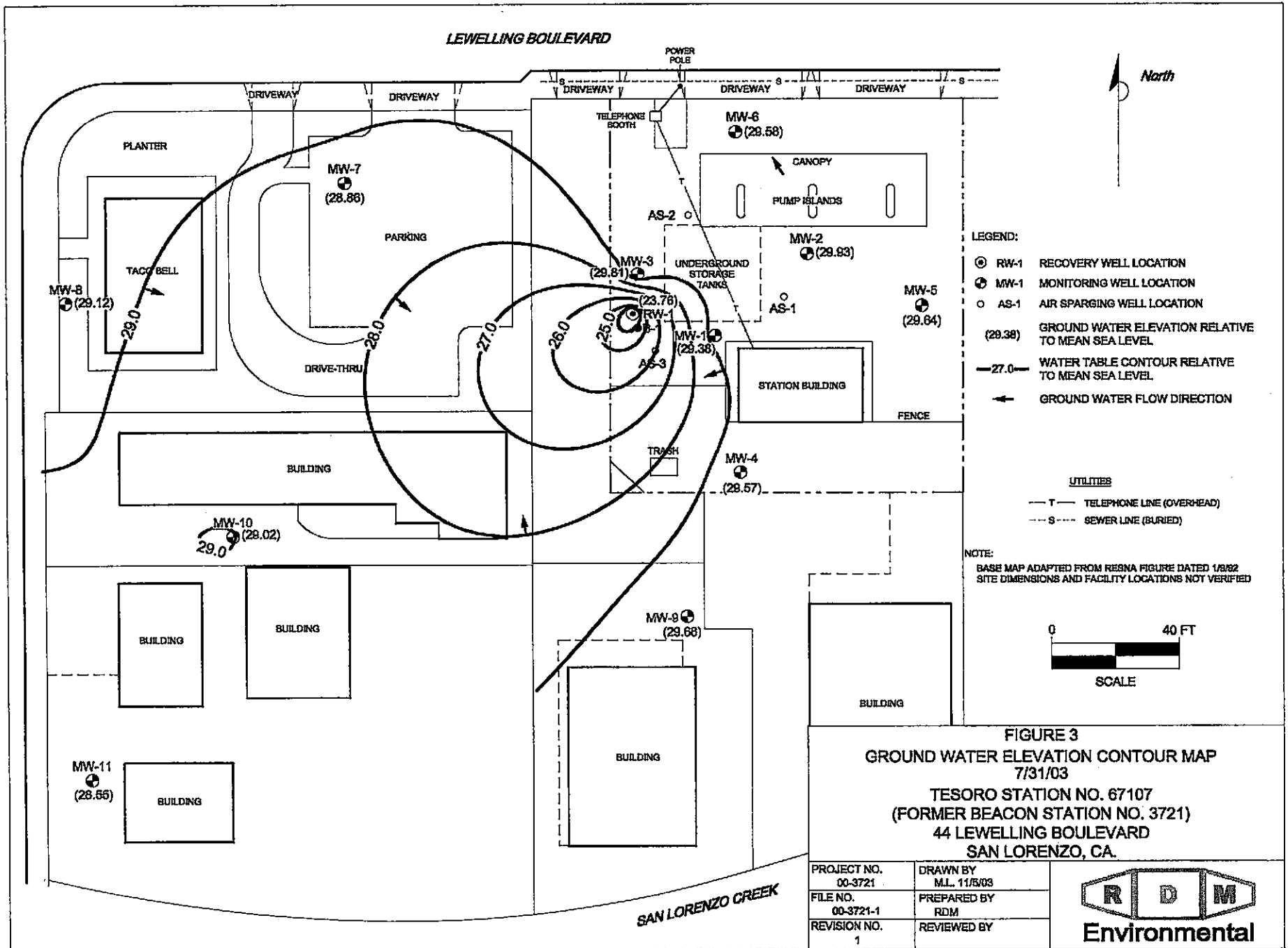


**FIGURE 2  
SITE MAP**

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

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

**RDM  
Environmental**



- LEGEND:**
- ⊙ RW-1 RECOVERY WELL LOCATION
  - ⊕ MW-1 MONITORING WELL LOCATION
  - AS-1 AIR SPARGING WELL LOCATION
  - (29.38) GROUND WATER ELEVATION RELATIVE TO MEAN SEA LEVEL
  - 27.0— WATER TABLE CONTOUR RELATIVE TO MEAN SEA LEVEL
  - ← GROUND WATER FLOW DIRECTION

- 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

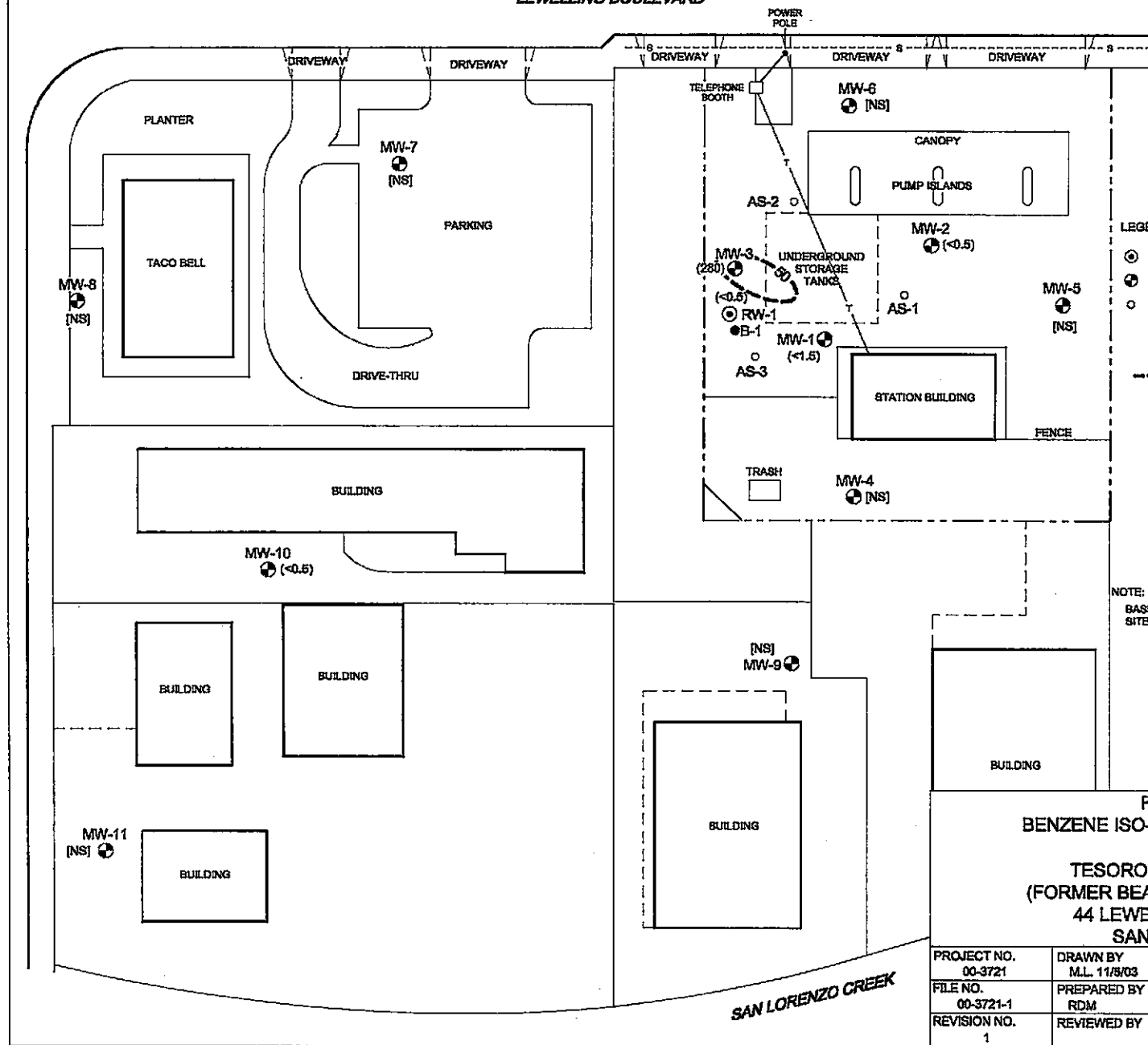


**FIGURE 3**  
**GROUND WATER ELEVATION CONTOUR MAP**  
 7/31/03  
**TESORO STATION NO. 67107**  
**(FORMER BEACON STATION NO. 3721)**  
**44 LEWELLING BOULEVARD**  
**SAN LORENZO, CA.**

PROJECT NO. 00-3721	DRAWN BY M.L. 11/5/03
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



LEWELLING BOULEVARD



- LEGEND:**
- ⊕ RW-1 RECOVERY WELL LOCATION
  - ⊕ MW-1 MONITORING WELL LOCATION
  - AS-1 AIR SPARGING WELL LOCATION
  - (<0.8) BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
  - 0- LINE OF EQUAL CONCENTRATION OF BENZENE IN GROUNDWATER
  - NS NOT SAMPLED

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

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

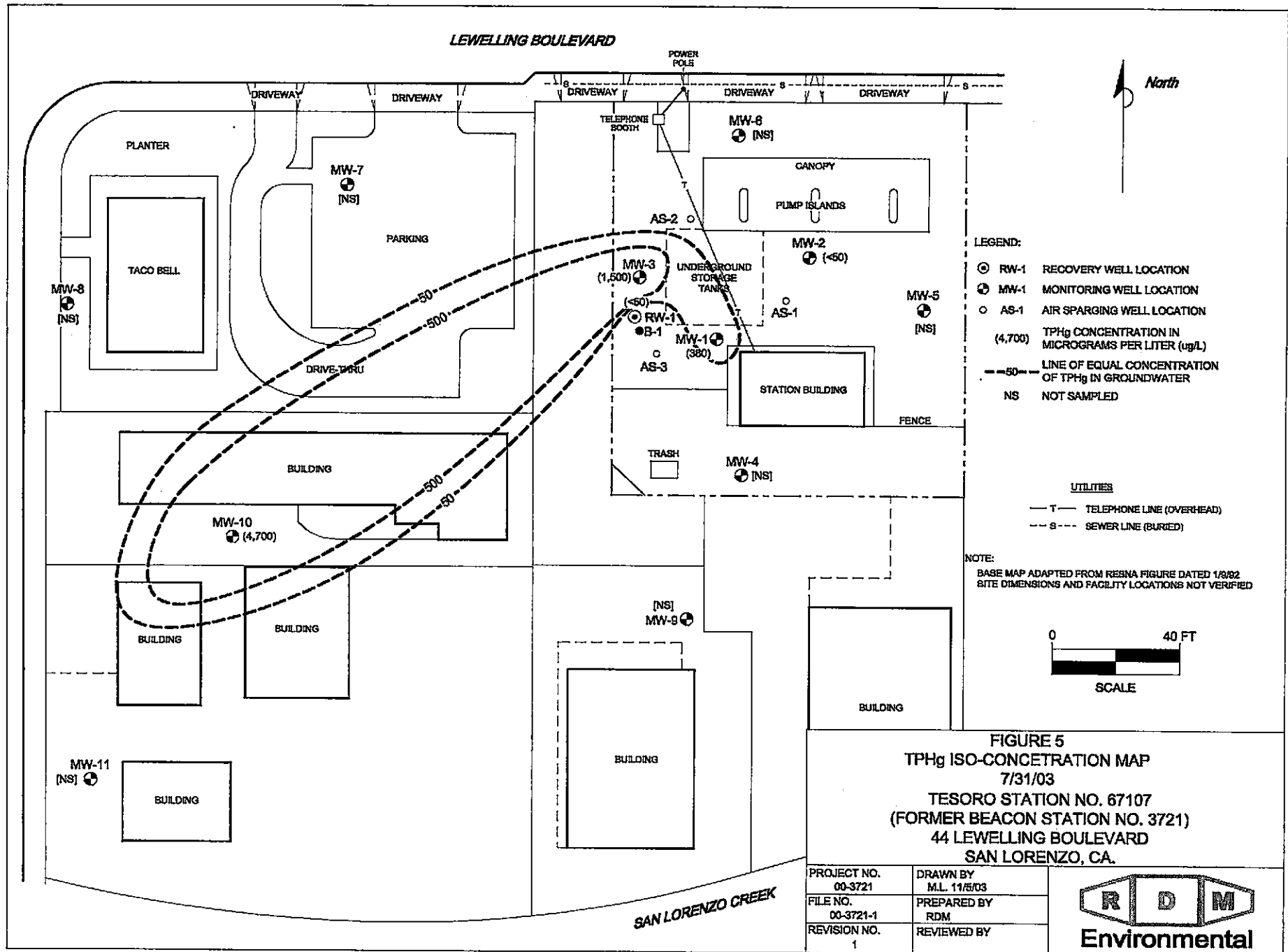


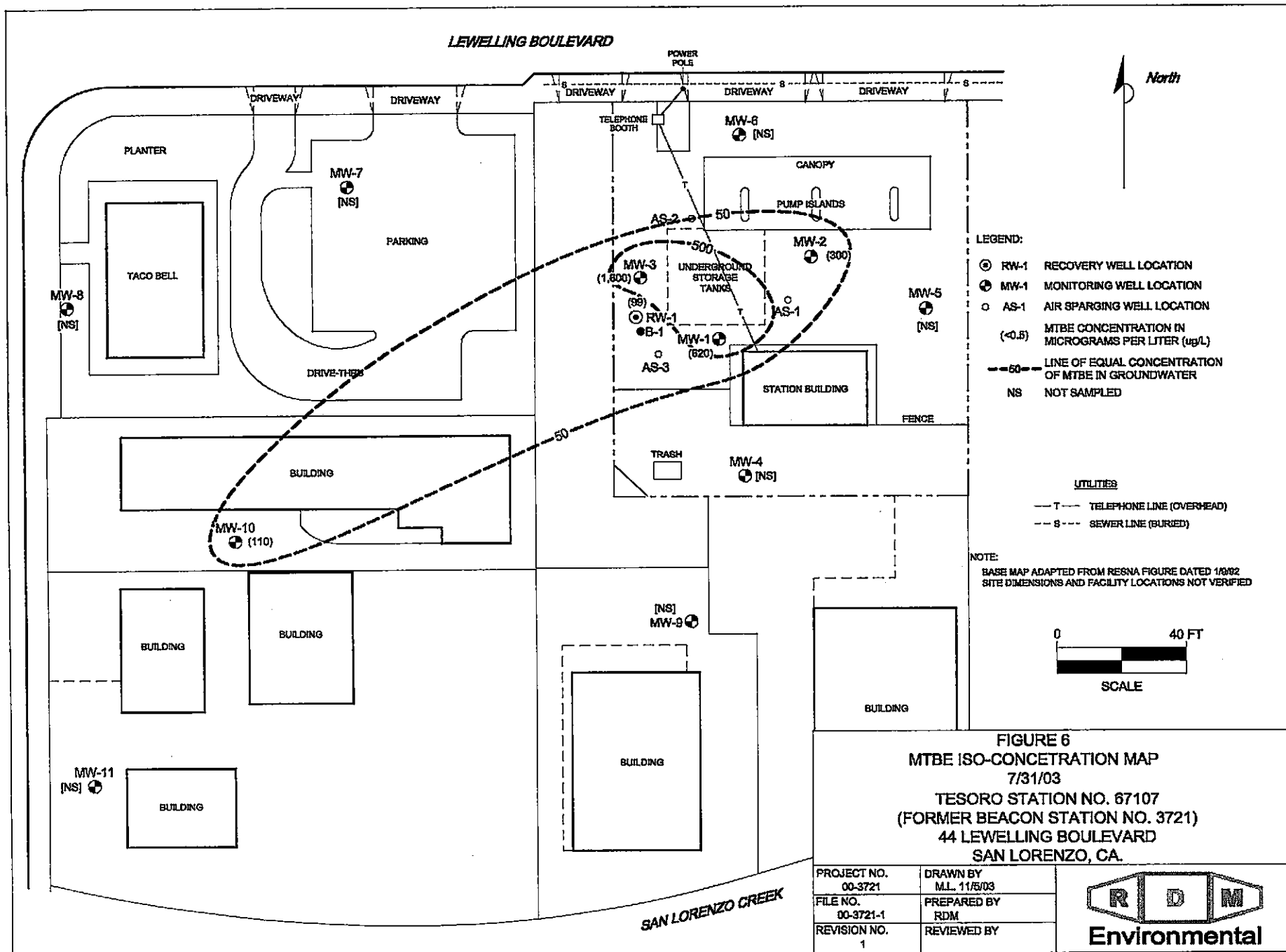
**FIGURE 4**  
**BENZENE ISO-CONCENTRATION MAP**  
 7/31/03  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY ML 11/8/03
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

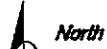


SAN LORENZO CREEK





LEWELLING BOULEVARD



- LEGEND:**
- ⊙ RW-1 RECOVERY WELL LOCATION
  - ⊕ MW-1 MONITORING WELL LOCATION
  - AS-1 AIR SPARGING WELL LOCATION
  - (<0.5) MTBE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
  - 50- LINE OF EQUAL CONCENTRATION OF MTBE IN GROUNDWATER
  - NS NOT SAMPLED

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

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



**FIGURE 6**  
**MTBE ISO-CONCENTRATION MAP**  
 7/31/03  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY MLL 11/5/03
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



SAN LORENZO CREEK

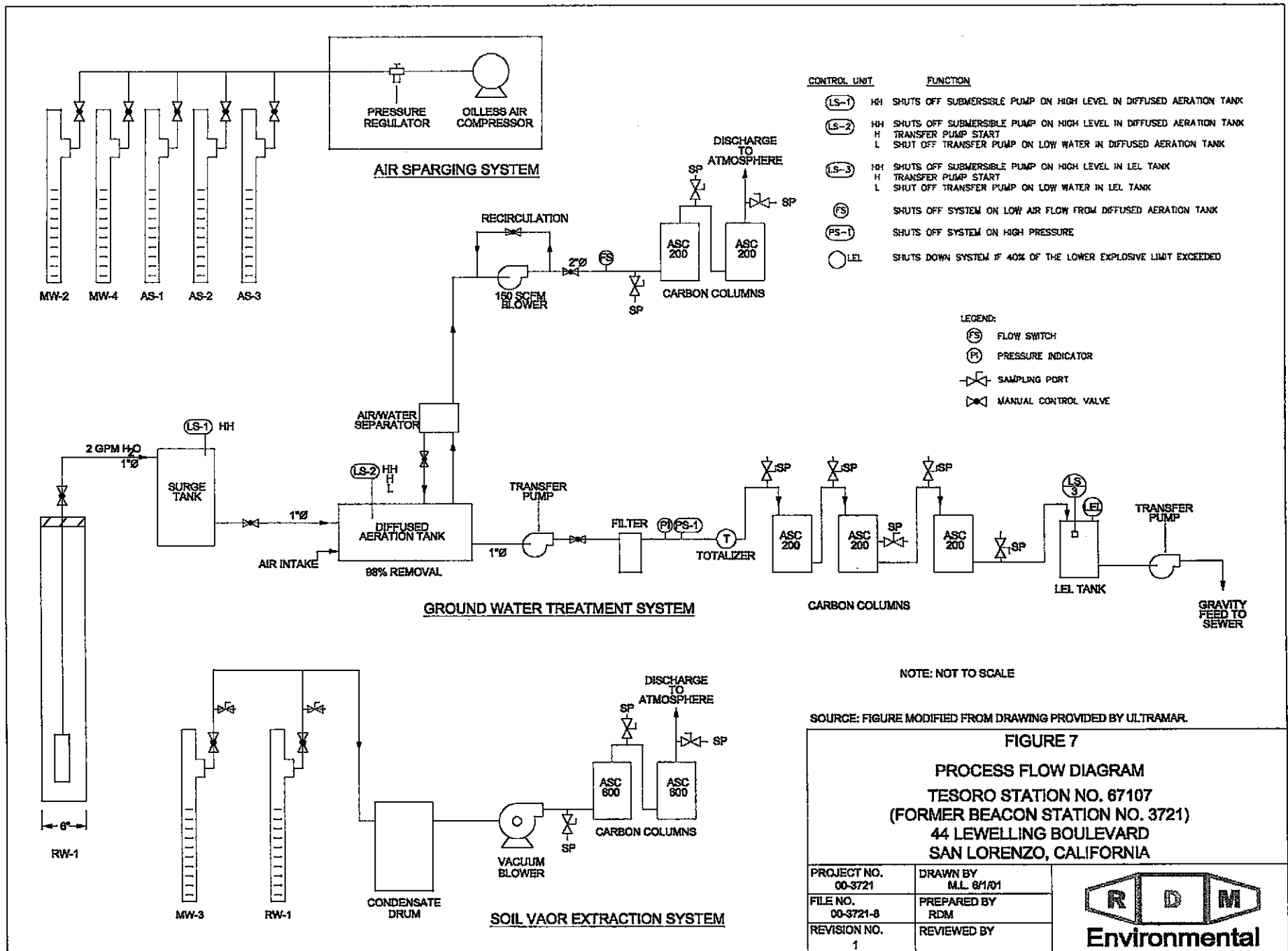


FIGURE 7

**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







R.2W.

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



QUADRANGLE LOCATION

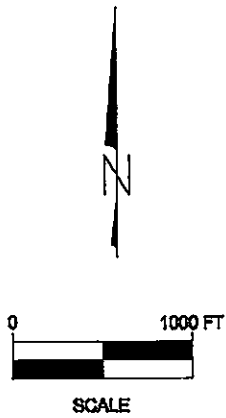


FIGURE 8  
 DOMESTIC WELL LOCATION MAP  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 2/28/03
FILE NO. 00-3721-1A	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.

**ENCLOSURE B**

Ground Water Sampling Information

**DOULOS ENVIRONMENTAL, INC.**  
**GROUNDWATER/LIQUID LEVEL DATA**  
(measurements in feet)

Project Address: 44 Lewelling Blvd.

Date: 7-31-03

San Lorenzo

Project No.: 67107

Recorded by: \_\_\_\_\_

Well No.	Time	Well Elev. TOC	Depth to Groundwater	Measured Total Depth	Groundwater Elevation	Depth to Product	Product Thickness	Comments
MW-1	2:26		16.60	33.64				
MW-2	2:22		15.30	34.35				
MW-3	2:18		15.40	34.23				
MW-4	2:14		17.41	24.49				U.V.
MW-5	2:06		16.48	29.30				
MW-6	1:59		15.21	28.43				
MW-7	1:06		14.99	24.17				
MW-8	12:59		15.73	22.99				
MW-9	1:15		17.58	23.57				
MW-10	12:53		15.63	29.40				
MW-11	12:45		18.81	29.34				
RW-1	1:36		21.71	34.10				

Notes:

Client: Tesoro 67107

Sampling Date: 7-31-03

Site: 44 Lewelling Blvd.

Project No.: \_\_\_\_\_

San Lorenzo, Ca.

Well Designation: MW-1

Is setup of traffic control devices required? NO YES time: \_\_\_\_\_ hours  
 Is there standing water in the well box? NO YES Above TOC Below TOC  
 Is top of casing cut level? NO YES If no, see remarks  
 Is well cap sealed and locked? NO YES If no, see remarks  
 Height of well casing riser (in inches): 10  
 Well cover type: 8" or 12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" or 12" BK \_\_\_\_\_ 8" Christy \_\_\_\_\_  
 12" Christy \_\_\_\_\_ 8" M&D \_\_\_\_\_ 12" M&D \_\_\_\_\_ 12" DWP \_\_\_\_\_  
 12" CNI X 36" CNI \_\_\_\_\_ 12" Pomeco \_\_\_\_\_ Other: \_\_\_\_\_  
 General condition of wellhead assembly: Excellent \_\_\_\_\_ Good X Fair \_\_\_\_\_ Poor \_\_\_\_\_

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer X Centrifugal pump  
 Sampled with: Disposable bailer X Teflon bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

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

Initial Measurement Recharge Measurement  
 Time: 2:26 Time: 3:35 Calculated purge: 10.9  
 Depth of well: 33.64 Depth to water: 18.96 Actual purge: 10.9  
 Depth to water: 16.60

Start purge: 3:24 Sampling time: 3:37

Time	Temperature	E.C.	pH	Turbidity	Volume
3:25	71.1	506	7.40		1
3:26	73.0	416	7.14		2
3:27	73.6	391	7.09		3
3:28	74.0	380	7.03		4

Sample appearance: clear Lock: 3753

Equipment replaced: (check all that apply) Note condition of replaced item(s)  
 2" Locking Cap: \_\_\_\_\_ Lock: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

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

Client: Tesoro 67107

Sampling Date: 7-31-03

Site: 44 Lewelling Blvd.

Project No.: \_\_\_\_\_

San Lorenzo, Ca.

Well Designation: MW-2

Is setup of traffic control devices required?  NO  YES

Is there standing water in the well box?  NO  YES

Is top of casing cut level?  NO  YES

Is well cap sealed and locked?  NO  YES

Height of well casing riser (in inches): 4

Well cover type: 8" or 12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" or 12" BK \_\_\_\_\_ 8" Christy \_\_\_\_\_

12" Christy \_\_\_\_\_ 8" M&D \_\_\_\_\_ 12" M&D \_\_\_\_\_ 12" DWP \_\_\_\_\_

12" CNI  36" CNI \_\_\_\_\_ 12" Pomeco \_\_\_\_\_ Other: \_\_\_\_\_

General condition of wellhead assembly: Excellent \_\_\_\_\_ Good  Fair \_\_\_\_\_ Poor \_\_\_\_\_

time: \_\_\_\_\_ hours  
Above TOC \_\_\_\_\_ Below TOC  
If no, see remarks  
If no, see remarks

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer \_\_\_\_\_ Centrifugal pump   
 Sampled with: Disposable bailer  Teflon bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

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

Initial Measurement

Time: 2:22  
 Depth of well: 34.35  
 Depth to water: 15.30

Recharge Measurement

Time: 3:56 Calculated purge: 12.1  
 Depth to water: 18.90 Actual purge: 12.1

Start purge: 3:45 Sampling time: 3:57

Time	Temperature	E.C.	pH	Turbidity	Volume
3:46	73.0	560	7.16		1
3:47	73.6	502	7.08		2
3:48	73.9	496	6.99		3
3:49	74.1	490	6.96		4

Sample appearance: Clear

Lock: 3753

Equipment replaced: (check all that apply)

2" Locking Cap: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_

Note condition of replaced item(s)

Lock: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 Pinned Allenhead (DWP): \_\_\_\_\_

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

Client: Tesoro 67107

Sampling Date: 7-31-03

Site: 44 Lewelling Blvd.

Project No.: \_\_\_\_\_

San Lorenzo, Ca.

Well Designation: MW-3

Is setup of traffic control devices required? NO YES

Is there standing water in the well box? NO YES

Is top of casing cut level? NO YES

Is well cap sealed and locked? NO YES

Height of well casing riser (in inches): 10

Well cover type: 8" or 12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" or 12" BK \_\_\_\_\_ 8" Christy \_\_\_\_\_

12" Christy \_\_\_\_\_ 8" M&D \_\_\_\_\_ 12" M&D \_\_\_\_\_ 12" DWP \_\_\_\_\_

12" CNI X 36" CNI \_\_\_\_\_ 12" Pomeco \_\_\_\_\_ Other: \_\_\_\_\_

General condition of wellhead assembly: Excellent \_\_\_\_\_ Good X Fair \_\_\_\_\_ Poor \_\_\_\_\_

time: \_\_\_\_\_ hours  
Above TOC \_\_\_\_\_ Below TOC  
If no, see remarks  
If no, see remarks

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer X Centrifugal pump

Sampled with: Disposable bailer X Teflon bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

Well Diameter: 2" X 4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement

Recharge Measurement

Time: 2:18

Time: 3:10

Calculated purge: 12.0

Depth of well: 34.23

Depth to water: 18.90

Actual purge: 12.0

Depth to water: 15.40

Start purge: 2:55

Sampling time: 3:13

Time	Temperature	E.C.	pH	Turbidity	Volume
2:56	72.6	641	7.30		1
2:57	73.0	606	7.17		2
2:59	73.5	591	7.10		3
3:00	74.0	581	7.06		4

Sample appearance: Clear

Lock: Dolphin

Equipment replaced: (check all that apply)

Note condition of replaced item(s)

2" Locking Cap: \_\_\_\_\_

Lock: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_

4" Locking Cap: \_\_\_\_\_

Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_

6" Locking Cap: \_\_\_\_\_

Pinned Allenhead (DWP): \_\_\_\_\_

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



Client: Tesoro 67107

Sampling Date: 7-31-03

Site: 44 Lewelling Blvd.

Project No.: \_\_\_\_\_

San Lorenzo, Ca.

Well Designation: MW-10

Is setup of traffic control devices required? NO YES time: \_\_\_\_\_ hours

Is there standing water in the well box? NO YES Above TOC Below TOC

Is top of casing cut level? NO YES If no, see remarks

Is well cap sealed and locked? NO YES If no, see remarks

Height of well casing riser (in inches): 10

Well cover type: 8" or 12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" or 12" BK X 8" Christy \_\_\_\_\_

12" Christy \_\_\_\_\_ 8" M&D \_\_\_\_\_ 12" M&D \_\_\_\_\_ 12" DWP \_\_\_\_\_

12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ 12" Pomeco \_\_\_\_\_ Other: \_\_\_\_\_

General condition of wellhead assembly: Excellent \_\_\_\_\_ Good X Fair \_\_\_\_\_ Poor \_\_\_\_\_

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump

\_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer

\_\_\_\_\_ 4" PVC bailer X Centrifugal pump

Sampled with: Disposable bailer X Teflon bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

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

Initial Measurement

Recharge Measurement

Time: 12:53

Time: 2:41 Calculated purge: 8.8

Depth of well: 29.40

Depth to water: 18.85 Actual purge: 8.8

Depth to water: 15.63

Start purge: 2:30 Sampling time: 2:43

Time	Temperature	E.C.	pH	Turbidity	Volume
2:31	72.5	690	7.34		1
2:32	73.0	601	7.13		2
2:33	73.1	591	7.08		3
2:34	73.2	580	7.01		4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)  
 2" Locking Cap: \_\_\_\_\_ Lock: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

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

Client: Tesoro 67107

Sampling Date: 7-31-03

Site: 44 Lewelling Blvd.

Project No.:

San Lorenzo, Ca.

Well Designation: RW-1

Is setup of traffic control devices required?  NO YES time: \_\_\_\_\_ hours  
 Is there standing water in the well box?  NO YES Above TOC \_\_\_\_\_ Below TOC  
 Is top of casing cut level?  NO YES If no, see remarks  
 Is well cap sealed and locked?  NO YES If no, see remarks  
 Height of well casing riser (in inches): 10  
 Well cover type: 8" or 12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" or 12" BK \_\_\_\_\_ 8" Christy \_\_\_\_\_  
 12" Christy \_\_\_\_\_ 8" M&D \_\_\_\_\_ 12" M&D \_\_\_\_\_ 12" DWP \_\_\_\_\_  
 12" CNI \_\_\_\_\_ 36" CNI  12" Pomeco \_\_\_\_\_ Other: \_\_\_\_\_  
 General condition of wellhead assembly: Excellent \_\_\_\_\_ Good  Fair \_\_\_\_\_ Poor \_\_\_\_\_

Purging Equipment: \_\_\_\_\_ 2" disposable bailer  Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer \_\_\_\_\_ Centrifugal pump  
 Sampled with: Disposable bailer  SP Teflon bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

Well Diameter: 2" \_\_\_\_\_ 4" \_\_\_\_\_ 6"  8" \_\_\_\_\_  
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.  
Initial Measurement Recharge Measurement  
 Time: 1:36 Time: NA Calculated purge: \_\_\_\_\_  
 Depth of well: 34.10 Depth to water: NA Actual purge: NA  
 Depth to water: 21.71

Start purge: NA Sampling time: 1:50

Time	Temperature	E.C.	pH	Turbidity	Volume

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)  
 2" Locking Cap: \_\_\_\_\_ Lock: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks:

**ENCLOSURE C**

**Ground Water Monitoring  
Analytical Results**



Report Number : 34326

Date : 8/7/2003

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 5 Water Samples  
Project Name : TESORO  
Project Number : 67107 SAN LORENZO  
P.O. Number : AFE 023139623

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 : 34326

Date : 8/7/2003

Project Name : **TESORO**

Project Number : **67107 SAN LORENZO**


Sample : MW-1

Matrix : Water

Lab Number : 34326-01

Sample Date : 7/31/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.5	1.5	ug/L	EPA 8260B	8/6/2003
Toluene	< 1.5	1.5	ug/L	EPA 8260B	8/6/2003
Ethylbenzene	< 1.5	1.5	ug/L	EPA 8260B	8/6/2003
Total Xylenes	< 1.5	1.5	ug/L	EPA 8260B	8/6/2003
Methyl-t-butyl ether (MTBE)	620	1.5	ug/L	EPA 8260B	8/6/2003
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	8/6/2003
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	8/6/2003
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L	EPA 8260B	8/6/2003
Tert-Butanol	< 20	20	ug/L	EPA 8260B	8/6/2003
TPH as Gasoline	380	200	ug/L	EPA 8260B	8/6/2003
Toluene - d8 (Surr)	110		% Recovery	EPA 8260B	8/6/2003
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	8/6/2003

Approved By:  Joel Kiff



Report Number : 34326

Date : 8/7/2003

Project Name : **TESORO**

Project Number : **67107 SAN LORENZO**

Sample : MW-2

Matrix : Water

Lab Number : 34326-02

Sample Date : 7/31/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/7/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/7/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/7/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/7/2003
Methyl-t-butyl ether (MTBE)	300	0.50	ug/L	EPA 8260B	8/7/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/7/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/7/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/7/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/7/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/7/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	8/7/2003
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	8/7/2003

Approved By:  Joel Kiff



Report Number : 34326

Date : 8/7/2003

Project Name : **TESORO**

Project Number : **67107 SAN LORENZO**


Sample : MW-3

Matrix : Water

Lab Number : 34326-03

Sample Date : 7/31/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	280	5.0	ug/L	EPA 8260B	8/6/2003
Toluene	< 5.0	5.0	ug/L	EPA 8260B	8/6/2003
Ethylbenzene	6.6	5.0	ug/L	EPA 8260B	8/6/2003
Total Xylenes	7.4	5.0	ug/L	EPA 8260B	8/6/2003
Methyl-t-butyl ether (MTBE)	1600	5.0	ug/L	EPA 8260B	8/6/2003
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	8/6/2003
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	8/6/2003
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	8/6/2003
Tert-Butanol	130	50	ug/L	EPA 8260B	8/6/2003
TPH as Gasoline	1500	500	ug/L	EPA 8260B	8/6/2003
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	8/6/2003
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	8/6/2003

Approved By:  Joel Kiff

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



Report Number : 34326

Date : 8/7/2003

Project Name : **TESORO**

Project Number : **67107 SAN LORENZO**


Sample : **MW-10**

Matrix : **Water**

Lab Number : **34326-04**

Sample Date : **7/31/2003**

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	8/6/2003
<b>Toluene</b>	<b>4.5</b>	0.50	ug/L	EPA 8260B	8/6/2003
<b>Ethylbenzene</b>	<b>20</b>	0.50	ug/L	EPA 8260B	8/6/2003
<b>Total Xylenes</b>	<b>17</b>	0.50	ug/L	EPA 8260B	8/6/2003
<b>Methyl-t-butyl ether (MTBE)</b>	<b>110</b>	0.50	ug/L	EPA 8260B	8/6/2003
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/6/2003
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/6/2003
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/6/2003
<b>Tert-Butanol</b>	<b>7.5</b>	5.0	ug/L	EPA 8260B	8/6/2003
<b>TPH as Gasoline</b>	<b>4700</b>	100	ug/L	EPA 8260B	8/4/2003
<b>Toluene - d8 (Surr)</b>	<b>104</b>		% Recovery	EPA 8260B	8/6/2003
<b>4-Bromofluorobenzene (Surr)</b>	<b>110</b>		% Recovery	EPA 8260B	8/6/2003

Approved By:  Joel Kiff

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





Report Number : 34326

Date : 8/7/2003

Project Name : **TESORO**

Project Number : **67107 SAN LORENZO**


Sample : RW-1

Matrix : Water

Lab Number : 34326-05

Sample Date : 7/31/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Methyl-t-butyl ether (MTBE)	99	0.50	ug/L	EPA 8260B	8/6/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/6/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/6/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	8/6/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/6/2003

Approved By:  Joel Kiff

Report Number : 34326

Date : 8/7/2003

QC Report : Method Blank Data

Project Name : TESORO

Project Number : 67107 SAN LORENZO

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/4/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/4/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/4/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/4/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/4/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/4/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/4/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/4/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/4/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/4/2003
Toluene - d8 (Surr)	106		%	EPA 8260B	8/4/2003
4-Bromofluorobenzene (Surr)	92.0		%	EPA 8260B	8/4/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/6/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/6/2003
Toluene - d8 (Surr)	101		%	EPA 8260B	8/6/2003
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	8/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/5/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/5/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/5/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/5/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/5/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/5/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/5/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/5/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/5/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/5/2003
Toluene - d8 (Surr)	105		%	EPA 8260B	8/5/2003
4-Bromofluorobenzene (Surr)	107		%	EPA 8260B	8/5/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/6/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/6/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/6/2003
Toluene - d8 (Surr)	106		%	EPA 8260B	8/6/2003
4-Bromofluorobenzene (Surr)	109		%	EPA 8260B	8/6/2003

Approved By:  Joel Kiff

Report Number : 34326

Date : 8/7/2003

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **TESORO**Project Number : **67107 SAN LORENZO**

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	34331-08	0.66	39.5	39.8	42.9	43.9	ug/L	EPA 8260B	8/4/03	107	109	1.71	70-130	25
Toluene	34331-08	<0.50	39.5	39.8	45.8	46.4	ug/L	EPA 8260B	8/4/03	116	117	0.559	70-130	25
Tert-Butanol	34331-08	100	198	199	257	311	ug/L	EPA 8260B	8/4/03	76.9	104	29.5	70-130	25
Methyl-t-Butyl Ether	34331-08	240	39.5	39.8	297	242	ug/L	EPA 8260B	8/4/03	139	0.00	200	70-130	25
Benzene	34356-06	<0.50	40.0	40.0	38.2	38.5	ug/L	EPA 8260B	8/6/03	95.6	96.4	0.808	70-130	25
Toluene	34356-06	<0.50	40.0	40.0	40.8	40.3	ug/L	EPA 8260B	8/6/03	102	101	1.18	70-130	25
Tert-Butanol	34356-06	<5.0	200	200	187	197	ug/L	EPA 8260B	8/6/03	93.5	98.5	5.25	70-130	25
Methyl-t-Butyl Ether	34356-06	<0.50	40.0	40.0	41.0	38.4	ug/L	EPA 8260B	8/6/03	102	96.1	6.49	70-130	25
Benzene	34339-04	<0.50	40.0	40.0	40.0	38.5	ug/L	EPA 8260B	8/5/03	100	96.2	3.87	70-130	25
Toluene	34339-04	<0.50	40.0	40.0	44.2	42.5	ug/L	EPA 8260B	8/5/03	110	106	4.04	70-130	25
Tert-Butanol	34339-04	<5.0	200	200	197	197	ug/L	EPA 8260B	8/5/03	98.6	98.4	0.183	70-130	25
Methyl-t-Butyl Ether	34339-04	<0.50	40.0	40.0	36.1	35.1	ug/L	EPA 8260B	8/5/03	90.2	87.6	2.87	70-130	25
Benzene	34352-02	<0.50	40.0	40.0	38.4	37.6	ug/L	EPA 8260B	8/6/03	96.0	94.0	2.13	70-130	25
Toluene	34352-02	<0.50	40.0	40.0	41.9	41.0	ug/L	EPA 8260B	8/6/03	105	102	2.17	70-130	25
Tert-Butanol	34352-02	<5.0	200	200	208	202	ug/L	EPA 8260B	8/6/03	104	101	3.00	70-130	25
Methyl-t-Butyl Ether	34352-02	<0.50	40.0	40.0	35.4	36.0	ug/L	EPA 8260B	8/6/03	88.4	90.1	1.90	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 34326

Date : 8/7/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **TESORO**

Project Number : **67107 SAN LORENZO**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	8/4/03	106	70-130
Toluene	40.0	ug/L	EPA 8260B	8/4/03	114	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/4/03	98.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/4/03	92.0	70-130
Benzene	40.0	ug/L	EPA 8260B	8/6/03	96.9	70-130
Toluene	40.0	ug/L	EPA 8260B	8/6/03	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/6/03	93.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/6/03	104	70-130
Benzene	40.0	ug/L	EPA 8260B	8/5/03	99.8	70-130
Toluene	40.0	ug/L	EPA 8260B	8/5/03	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/5/03	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/5/03	91.5	70-130
Benzene	40.0	ug/L	EPA 8260B	8/6/03	99.4	70-130
Toluene	40.0	ug/L	EPA 8260B	8/6/03	110	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/6/03	99.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/6/03	87.2	70-130

KIFF ANALYTICAL, LLC

Approved By:  \_\_\_\_\_  
 Joel Kiff

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



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

Lab No. 34326 Page 1 of 1

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

**RICHARD MUNSCH**

Company/Address:  
**RDM**

Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: **DE10**

Phone No.: **771-7090** FAX No.: **771-4584**

Global ID: **T0600101414**

Project Number: **67107 SAM** P.O. No: **AFE 023139623**

EDF Deliverable To (Email Address): **RMUNSCA@RCSIS.COM**

Project Name: **TESORO**

Sampler Signature:

Project Address:  
**SAN LORENZO**

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

Sample Designation

Sample Designation	Date	Time	40 ml VOA	SLEEVE	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL
MW-1	7-31-03	3:37	3		X	X			X	
MW-2		3:57								
MW-3		3:13								
MW-10		2:43								
RW-1		1:50								

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

**Analysis Request**

BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8016)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT
				X									12 hr/24 hr/48 hr/72 hr/1 wk

Relinquished by:	Date	Time	Received by:
_____			_____
Relinquished by:	Date	Time	Received by:
_____			_____
Relinquished by:	Date	Time	Received by Laboratory:
_____	080103	1749	KIFF ANALYTICAL NANTAN SPOCS

Remarks:  
**ROB DONOVAN**

P.O. Box 2559  
Orangevale, CA 95662  
Phone: (916) 990-0333  
FAX: (916) 990-0332



# Fax

To: Cary L. Melton - Director From: \_\_\_\_\_


Fax: \_\_\_\_\_ Page: \_\_\_\_\_

Phone: \_\_\_\_\_ Date: \_\_\_\_\_

Re: \_\_\_\_\_ CC: \_\_\_\_\_

- Urgent     For Review     Please Comment     Please Reply     Please Recycle

• Comments: COC Signature



**KIFF ANALYTICAL LLC**

2706 2nd Street, Suite 300  
 Davis, CA 95618  
 Lab: 530.297.4888  
 Fax: 530.297.4888

Lab No. **34326** Page **1 of 1**

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**Project Contact (Handcopy or POF To):**  
**RICHARD MUNSCH**  
 Company Address:  
**RDM**

Phone No.: **771-7090** FAX No.: **771-4584**  
 Project Number: **67107 SAN LORENZO** P.O. No.: **023129623**

Project Name:  
**TESORO**

Project Address:  
**SAN LORENZO**

**California EDF Report?**  Yes  No

Reasons for not sampling to consider the water:  
 Sampling Company Log Code: **DE 10**

Global ID:  
**T0600101414**

EDF Reference to (Email Address):  
**RMUNSCA@RCSSIS.COM**

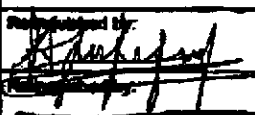
Sampler Signature:


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

**Analysis Request**

Sample Designation	Date	Time	AD or VOA	Container	Preservative	Matrix	STX (MUT)	STB/TPH (MUT)	TPH as Dissol (MUT)	TPH as Non-D (MUT)	TPH Gas/STX/ATRE (MUT)	6 Cyanides/TPH Gas/STX (MUT)	7 Cyanides/TPH Gas/STX (MUT)	8 Cyanides (MUT)	7 Cyanides (MUT)	Lead, Cad, (1,2 DCA & 1,2 DDB - MUT)	10PA (MUT) (Vol Lit)	Volts (MUT) (MUT)	LAH (MUT) (MUT)	TOTAL (MUT) (MUT)	TAT	For Lab Use Only	
MW-1	7-31-03	3:37	3			X						X											01
MW-2		3:57	1																				02
MW-3		3:13	1																				03
MW-10		2:43	1																				04
RW-1		1:50	1																				05

---

Received by:  


Received by:  


Received by Laboratory:  
**GEORGE** **1745 NANTUA SPRING**

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Date: **08/04/03** Time: **1745** Received by: **NANTUA SPRING**

Remarks:  
**ROB DONOVAN**

Distibution: 10% - Lab, 10% - Field, 10% - Post - Organizer

**ENCLOSURE D**

Remediation System Analytical Results





Report Number : 34158

Date : 7/25/2003

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

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

Dear Mr. Munsch,

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

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

Sincerely,



Joel Kiff



Report Number : 34158

Date : 7/25/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **H2O-INF**

Matrix : Water

Lab Number : 34158-01

Sample Date :7/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Methyl-t-butyl ether (MTBE)	110	0.50	ug/L	EPA 8260B	7/22/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/22/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/22/2003
4-Bromofluorobenzene (Surr)	97.3		% Recovery	EPA 8260B	7/22/2003

Sample : **H2O-DAT-EFF**

Matrix : Water

Lab Number : 34158-02

Sample Date :7/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Methyl-t-butyl ether (MTBE)	83	0.50	ug/L	EPA 8260B	7/22/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/22/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	7/22/2003
4-Bromofluorobenzene (Surr)	95.8		% Recovery	EPA 8260B	7/22/2003

Approved By:  Joel Kiff

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



Report Number : 34158

Date : 7/25/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : H20-MID

Matrix : Water

Lab Number : 34158-03

Sample Date :7/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	7/22/2003
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	7/22/2003
4-Bromofluorobenzene (Surr)	95.5		% Recovery	EPA 8260B	7/22/2003

Sample : H20-EFF

Matrix : Water

Lab Number : 34158-04

Sample Date :7/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	7/22/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	7/22/2003
4-Bromofluorobenzene (Surr)	96.3		% Recovery	EPA 8260B	7/22/2003

Approved By:  Joel Kiff

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

Report Number : 34158

Date : 7/25/2003

**QC Report : Method Blank Data**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/22/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/22/2003
Toluene - d8 (Surr)	102		%	EPA 8260B	7/22/2003
4-Bromofluorobenzene (Surr)	99.0		%	EPA 8260B	7/22/2003

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

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

Approved By:  \_\_\_\_\_  
Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 34158

Date : 7/25/2003

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	34154-04	<0.50	40.0	40.0	41.2	41.2	ug/L	EPA 8260B	7/22/03	103	103	0.0485	70-130	25
Toluene	34154-04	<0.50	40.0	40.0	40.9	41.2	ug/L	EPA 8260B	7/22/03	102	103	0.658	70-130	25
Tert-Butanol	34154-04	<5.0	200	200	204	196	ug/L	EPA 8260B	7/22/03	102	98.3	3.70	70-130	25
Methyl-t-Butyl Ether	34154-04	2.0	40.0	40.0	41.9	43.8	ug/L	EPA 8260B	7/22/03	99.9	105	4.62	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



Report Number : 34158

Date : 7/25/2003

**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	7/22/03	106	70-130
Toluene	40.0	ug/L	EPA 8260B	7/22/03	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/22/03	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/22/03	102	70-130

KIFF ANALYTICAL, LLC

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

Approved By:  \_\_\_\_\_  
Joel Kiff

**Calscience**  
**E**nvironmental  
**L**aboratories, Inc.

July 29, 2003

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

Subject: **Calscience Work Order No.:** 03-07-1120  
**Client Reference:** Tesoro Station 67107

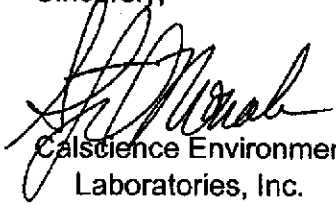
Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/23/2003 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

  
Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager

  
\_\_\_\_\_  
Michael J. Crisostomo  
Quality Assurance Manager

**ANALYTICAL REPORT**

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

Date Received: 07/23/03  
 Work Order No: 03-07-1120  
 Preparation: N/A  
 Method: EPA 410.4

Project: Tesoro Station 67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
H2O-EFF	03-07-1120-1	07/21/03	Aqueous	N/A	07/24/03	30724ODB1

Parameter	Result	RL	DF	Qual	Units	
Chemical Oxygen Demand	18	5	1		mg/L	
Method Blank		099-05-062-1,523		N/A	Aqueous	
				N/A	07/24/03	30724ODB1

Parameter	Result	RL	DF	Qual	Units
Chemical Oxygen Demand	ND	5.0	1		mg/L

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501



**ANALYTICAL REPORT**

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

Date Received: 07/23/03  
 Work Order No: 03-07-1120  
 Preparation: N/A  
 Method: EPA 160.2

Project: Tesoro Station 67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
H2O-EFF	03-07-1120-1	07/21/03	Aqueous	N/A	07/24/03	30724TSSD1

Parameter	Result	RL	DF	Qual	Units
Solids, Total Suspended	ND	1.0	1		mg/L

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: 7/23/2003 Work Order No: 03-07-1120 Preparation: N/A Method: EPA 410.4
Project: Tesoro Station 67107	

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
03-07-1146-1	Aqueous	UV 3	N/A	07/24/03	30724ODD1

Parameter	Sample Conc.	DUP. Conc.	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	3600	3600	0	0-25	



**Quality Control - Duplicate**

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

Date Received: 7/23/2003  
 Work Order No: 03-07-1120  
 Preparation: N/A  
 Method: EPA 160.2

Project: Tesoro Station 67107

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
03-07-1145-1	Aqueous	N/A	N/A	07/24/03	30724TSSD1

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Solids, Total Suspended	47	51	8	0-25	

**C**alscience

**E**nvironmental

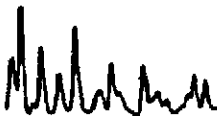
**L**aboratories, Inc.

## GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-07-1120

---

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



---

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501



WORK ORDER #:

03-07-1120

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 7/23/03

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):

- °C Temperature blank.
6 °C IR thermometer.
Ambient temperature.

Initial: I.O

CUSTODY SEAL INTACT:

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

Initial: I.O

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: I.O

COMMENTS:

Blank lines for handwritten comments.







Report Number : 34603

Date : 8/28/2003

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

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

Dear Mr. Munsch,

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

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

Sincerely,

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

Jeff Dahl





Report Number : 34603

Date : 8/28/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**


Sample : H2O-Inf

Matrix : Water

Lab Number : 34603-01

Sample Date :8/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Methyl-t-butyl ether (MTBE)	82	0.50	ug/L	EPA 8260B	8/23/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/23/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/23/2003
Toluene - d8 (Surr)	94.3		% Recovery	EPA 8260B	8/23/2003
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	8/23/2003

Approved By:  Jeff Dahl



Report Number : 34603

Date : 8/28/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : H2O-DAT-Eff

Matrix : Water

Lab Number : 34603-02

Sample Date :8/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Methyl-t-butyl ether (MTBE)	63	0.50	ug/L	EPA 8260B	8/23/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/23/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/23/2003
Toluene - d8 (Surr)	95.4		% Recovery	EPA 8260B	8/23/2003
4-Bromofluorobenzene (Surr)	114		% Recovery	EPA 8260B	8/23/2003

Approved By:  Jeff Dahl

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



Report Number : 34603

Date : 8/28/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **H2O-MID1**

Matrix : Water

Lab Number : 34603-03

Sample Date :8/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Methyl-t-butyl ether (MTBE)	11	0.50	ug/L	EPA 8260B	8/23/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/23/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/23/2003
Toluene - d8 (Surr)	95.0		% Recovery	EPA 8260B	8/23/2003
4-Bromofluorobenzene (Surr)	114		% Recovery	EPA 8260B	8/23/2003

Approved By:  Jeff Dahl

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



Report Number : 34603

Date : 8/28/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : H2O-Eff

Matrix : Water

Lab Number : 34603-04

Sample Date :8/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/23/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/23/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/23/2003
Toluene - d8 (Surr)	95.0		% Recovery	EPA 8260B	8/23/2003
4-Bromofluorobenzene (Surr)	115		% Recovery	EPA 8260B	8/23/2003

Approved By:  Jeff Dahl

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

Report Number : 34603

Date : 8/28/2003

**QC Report : Method Blank Data**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/22/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/22/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/22/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/22/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/22/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/22/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/22/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/22/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/22/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/22/2003
Toluene - d8 (Surr)	95.9		%	EPA 8260B	8/22/2003
4-Bromofluorobenzene (Surr)	109		%	EPA 8260B	8/22/2003

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

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

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

  
Jeff Dahl

Report Number : 34603

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 8/28/2003

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	34589-04	180	40.0	40.0	217	214	ug/L	EPA 8260B	8/22/03	85.8	78.0	9.53	70-130	25
Toluene	34589-04	24	40.0	40.0	61.8	60.9	ug/L	EPA 8260B	8/22/03	93.0	90.8	2.34	70-130	25
Tert-Butanol	34589-04	<5.0	200	200	198	198	ug/L	EPA 8260B	8/22/03	98.8	99.0	0.268	70-130	25
Methyl-t-Butyl Ether	34589-04	<0.50	40.0	40.0	40.2	38.7	ug/L	EPA 8260B	8/22/03	100	96.7	3.80	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  Jeff Dahl

Report Number : 34603

Date : 8/28/2003

**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	8/22/03	93.4	70-130
Toluene	40.0	ug/L	EPA 8260B	8/22/03	94.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/22/03	98.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/22/03	104	70-130

KIFF ANALYTICAL, LLC

Approved By:  Jeff Darr

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



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

Lab No. 34603 Page 1 of 1

Project Contact (Hardcopy or PDF To):  
Richard Munsch

California EDF Report?  Yes  No

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

Company/Address:  
RPM Environmental

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

Phone No.: (916) 771-2096 FAX No.: (916) 771-9584

Global ID: . . . . .

Project Number: 67107 P.O. No.: 67107

EDF Deliverable To (Email Address):

Project Name:  
Toson Station 67107

Sample Signature:  
[Signature]

Project Address:  
San Lorenzo CA

Sampling		Container		Preservative				Matrix		
Date	Time	40 ml VOA SLEEVE	Other	HCl	HNO <sub>3</sub>	ICE	NONE	A <sub>2</sub> O <sub>4</sub>	WATER	SOIL

Sample Designation

Date	Time	40 ml VOA SLEEVE	Other	HCl	HNO <sub>3</sub>	ICE	NONE	A <sub>2</sub> O <sub>4</sub>	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)	Volatiles Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	12 hr / 24 hr / 48 hr / 72 hr / 1 wk	For Lab Use Only
					X									01
					X									02
					X									03
					X	X	X					X	X	04

8/20  
8/21  
8/22

Relinquished by: [Signature]

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Remarks: STAT

Relinquished by: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Date: 08/20/03 Time: 1605 Received by Laboratory: NATHAN DESS

Bill to: Toson Petroleum  
Rob Donovan





Report Number : 35058

Date : 9/26/2003

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

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

Dear Mr. Munsch,

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

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

Sincerely,

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

Jeff Dahl



Report Number : 35058

Date : 9/26/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : H2O-Inf

Matrix : Water

Lab Number : 35058-01

Sample Date :9/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.0	0.50	ug/L	EPA 8260B	9/25/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Methyl-t-butyl ether (MTBE)	240	0.50	ug/L	EPA 8260B	9/25/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/25/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/25/2003
Toluene - d8 (Surr)	96.0		% Recovery	EPA 8260B	9/25/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	9/25/2003

Approved By:  Jeff Dahl

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



Report Number : 35058

Date : 9/26/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : H2O-DAT-Eff

Matrix : Water

Lab Number : 35058-02

Sample Date : 9/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/25/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/25/2003
Toluene - d8 (Surr)	90.5		% Recovery	EPA 8260B	9/25/2003
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	9/25/2003

Approved By:  Jeff Dahl

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



Report Number : 35058

Date : 9/26/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : H2O-MID

Matrix : Water

Lab Number : 35058-03

Sample Date :9/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Methyl-t-butyl ether (MTBE)	3.0	0.50	ug/L	EPA 8260B	9/25/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/25/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/25/2003
Toluene - d8 (Surr)	91.8		% Recovery	EPA 8260B	9/25/2003
4-Bromofluorobenzene (Surr)	95.9		% Recovery	EPA 8260B	9/25/2003

Approved By:  Jeff Dahl

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



Report Number : 35058

Date : 9/26/2003

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : H2O-Eff

Matrix : Water

Lab Number : 35058-04

Sample Date : 9/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/25/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/25/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/25/2003
Toluene - d8 (Surr)	92.8		% Recovery	EPA 8260B	9/25/2003
4-Bromofluorobenzene (Surr)	95.7		% Recovery	EPA 8260B	9/25/2003

Approved By:  Jeff Dahl

Report Number : 35058

Date : 9/26/2003

**QC Report : Method Blank Data**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/24/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/24/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/24/2003
Toluene - d8 (Surr)	93.7		%	EPA 8260B	9/24/2003
4-Bromofluorobenzene (Surr)	94.0		%	EPA 8260B	9/24/2003

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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Approved By:  \_\_\_\_\_

KIFF ANALYTICAL, LLC

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

Report Number : 35058

Date : 9/26/2003

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	35075-12	0.64	40.0	40.0	42.0	39.4	ug/L	EPA 8260B	9/24/03	104	97.0	6.54	70-130	25
Toluene	35075-12	1.4	40.0	40.0	38.5	38.1	ug/L	EPA 8260B	9/24/03	92.6	91.8	0.922	70-130	25
Tert-Butanol	35075-12	<5.0	200	200	238	212	ug/L	EPA 8260B	9/24/03	119	106	11.7	70-130	25
Methyl-t-Butyl Ether	35075-12	1.4	40.0	40.0	41.9	41.3	ug/L	EPA 8260B	9/24/03	101	99.7	1.54	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  Jeff Dahl

Report Number : 35058

Date : 9/26/2003

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	9/24/03	98.0	70-130
Toluene	40.0	ug/L	EPA 8260B	9/24/03	95.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/24/03	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/24/03	91.6	70-130

KIFF ANALYTICAL, LLC

Approved By:  Jeff Dahn

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



**Calscience**  
**E**nvironmental  
**L**aboratories, Inc.

September 29, 2003

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

Subject: **Calscience Work Order No.: 03-09-1340**  
Client Reference: **Tesoro Station 67107**

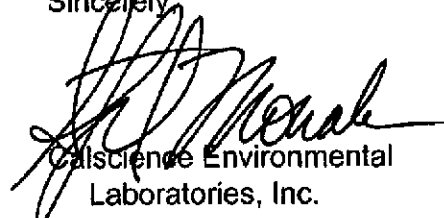
Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/24/2003 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

  
Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager

  
\_\_\_\_\_  
Michael J. Crisostomo  
Quality Assurance Manager

**ANALYTICAL REPORT**

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

Date Received: 09/24/03  
 Work Order No: 03-09-1340  
 Preparation: N/A  
 Method: EPA 410.4

Project: Tesoro Station 67107

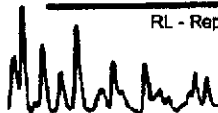
Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
H2O-Eff	03-09-1340-1	09/21/03	Aqueous	N/A	09/24/03	30924ODB1

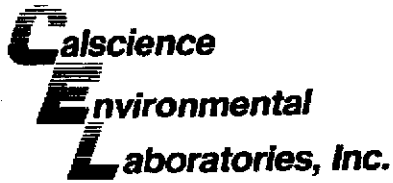
Parameter	Result	RL	DF	Qual	Units
Chemical Oxygen Demand	ND	5.0	1		mg/L
Method Blank		099-05-062-1,569	N/A	Aqueous	N/A 09/24/03 30924ODB1

Parameter	Result	RL	DF	Qual	Units
Chemical Oxygen Demand	ND	5.0	1		mg/L

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



7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501



**ANALYTICAL REPORT**

Kiff Analytical	Date Received:	09/24/03
2795 2nd Street, Suite 300	Work Order No:	03-09-1340
Davis, CA 95616-6593	Preparation:	N/A
	Method:	EPA 160.2

Project: Tesoro Station 67107

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
H2O-Eff	03-09-1340-1	09/21/03	Aqueous	N/A	09/24/03	30924TSSD1

Parameter	Result	RL	DF	Qual	Units
Solids, Total Suspended	ND	1.0	1		mg/L

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

**Quality Control - Duplicate**

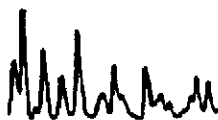
Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95616-6593

Date Received: 09/24/03  
 Work Order No: 03-09-1340  
 Preparation: N/A  
 Method: EPA 410.4

Project: Tesoro Station 67107

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
03-09-1226-2	Aqueous	UV 3	N/A	09/24/03	30924ODD1

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	800	800	1	0-25	



**Quality Control - Duplicate**

Kiff Analytical 2795 2nd Street, Suite 300 Davis, CA 95616-6593	Date Received: 09/24/03 Work Order No: 03-09-1340 Preparation: N/A Method: EPA 160.2
Project: Tesoro Station 67107	

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
03-09-1300-1	Aqueous	N/A	N/A	09/24/03	30924TSSD1

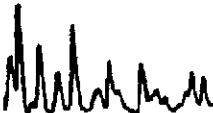
<u>Parameter</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD.CL</u>	<u>Qualifiers</u>
Solids, Total Suspended	33	35	6	0-25	



Work Order Number: 03-09-1340

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





WORK ORDER #: 03 - 09 - 1340

Cooler 1 of 1

### SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 9/24/03

#### 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):

- 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:

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

Initial: Th

#### COMMENTS:

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

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

Lab No.

1340

Project Contact (Hardcopy or PDF to): <b>Joel Kiff</b>		Geotracker COELT EDD REPORT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<b>Chain-of-Custody Record and Analysis Request</b>																																																								
Company/Address: <b>Kiff Analytical, LLC</b>		Sampling Company Log Code:																																																										
Phone No.:	FAX No.:	Global ID:		<table border="1"> <thead> <tr> <th colspan="13">Analysis Request</th> <th rowspan="2">September 29, 2003</th> <th rowspan="2">For Lab Use Only</th> </tr> <tr> <th>TSS</th> <th>COD</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>													Analysis Request													September 29, 2003	For Lab Use Only	TSS	COD												X	X													X	
Analysis Request																	September 29, 2003	For Lab Use Only																																										
TSS	COD																																																											
X	X													X																																														
Project Number: <b>67107</b>	P.O. No.: <b>35058</b>	EDF Deliverable to (Email Address):																																																										
Project Name: <b>Tesoro Station 67107</b>		E-mail address: <b>inbox@kiffanalytical.com</b>																																																										
Project Address:		Sampling	Container	Preservative				Matrix																																																				
Sample Designation	Date	Time	Glass Jar	Poly	Amber	Sleeve	HCl	HNO3	ICE	NONE	H2SO4	WATER	SOIL																																															
			H2O-Eff	9/21/2003	7:00		2				X	1	1	X																																														
Relinquished by:		Date	Time	Received by:		Remarks:																																																						
<i>D.W. Kiff Analytical</i>		<i>9/22/03</i>	<i>8:30</i>																																																									
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Relinquished by:		Date	Time	Received by Laboratory:		Bill to:																																																						
		<i>9/24/03</i>	<i>9:10</i>	<i>[Signature]</i>																																																								





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

Lab No. 35058 Page 1 of 1

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

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

Phone No.: (916) 771-2098 FAX No.: (916) 771-4584  
 Global ID: . . . . .

Project Number: 67107 P.O. No: 67107  
 EDF Deliverable To (Email Address):

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

Project Address: San Lorenzo  

Sample Designation	Sampling		Container				Preservative				Matrix	
	Date	Time	40 ml VOA	SLEEVE			HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL
H <sub>2</sub> O - INF	9/24/03	7:06	2				X	X			X	
H <sub>2</sub> O DAT - EFF	9/21/07	7:04	2				X	X			X	
H <sub>2</sub> O MID	9/21/07	7:02	2				X	X			X	
H <sub>2</sub> O - EFF	9/21/07	7:00	2				X	X			X	

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

**Analysis Request**

BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/88015)	TPH as Diesel (88015)	TPH as Motor Oil (88015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT
													12 hr/24 hr/48 hr/72 hr/1 wk
													For Lab Use Only

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

Remarks: STAT

Bill to: Tesoro Petroleum  
Bob Dawson



Environmental

DATE: 9/24/2003

NUMBER OF PAGES: 3

1704 Via Riata  
Roseville, California 95747

TO: Troy	FROM: Richard Munsch
COMPANY: KHR	
PHONE:	PHONE: (916) 771-7098
FAX:	FAX: (916) 771-4584
CC:	

REMARKS:	<input type="checkbox"/> URGENT	<input checked="" type="checkbox"/> FOR YOUR REVIEW
	<input type="checkbox"/> PLEASE REPLY	<input type="checkbox"/> PLEASE COMMENT

COMMENTS: Troy,  
Here are the corrected C.O.C. If you have any questions, please feel free to call.

Thank You  
  
Richard D. Munsch

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (916) 771-7098



2785 2nd Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4808

Lab No. 35058 Page 1 of 1

Project Contact (Hardcopy or PDF To):  
Richard Munsch

California EDF Report?  Yes  No

Chain-of-Custody Record and Analysis Request

Company/Address:  
RDM Environmental

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

Analysis Request

Phone No.: (916) 771-2018 FAX No.: (916) 771-4584

Global ID: . . . . .

Project Number: 67107 P.O. No.: 67107

EDF Deliverable To (Email Address):

Project Name: Tesoro Station 67107

Sampler Signature: [Signature]

Project Address:  
San Lorenzo

Sampling Container Preservative Matrix

Sample Designation	Sampling		Container		Preservative				Matrix		BTEX (82215)	BTEX/TPH Gas/MTBE (82218/82015)	TPH as Diesel (82015)	TPH as Motor Oil (82015)	TPH Gas/MTBE (82008)	6 Oxygenates/TPH Gas/BTEX (82008)	7 Oxygenates/TPH Gas/BTEX (82008)	8 Oxygenates (82008)	7 Oxygenates (82008)	Lead Screen (1,2 DCA & 1,2 DDB - 82008)	EPA 82008 (P&H Ltd)	Volatile Halocarbons (EPA 82008)	Lead (7421299.2) TOTAL (3) W.E.T. (0)	TSS	C.O.D	12 hr/24 hr/48 hr/72 hr/1 wk	TAT			
	Date	Time	40 ml VOA SLEEVE	POL	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL																				
H <sub>2</sub> O - Inf	9/24/03	7:04	2		X	X			X						X															01
H <sub>2</sub> O - DAT - eff	9/24/03	7:04	2		X	X			X						X															02
H <sub>2</sub> O - MID	9/24/03	7:02	2		X	X			X						X															03
H <sub>2</sub> O - eff	9/24/03	7:00	2	2	X	X			X						X										XX					04

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: 09/25/03 Time: 11:45  
 Received by Laboratory: [Signature]

Remarks: STAT  
C.O.D. Chemical Oxygen Demand  
 B# to: Tesoro Petroleum  
Bob Damore



Report Number : 34157

Date : 7/25/2003

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 4 Air 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 : 34157

Date : 7/25/2003

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : SVE-INF

Matrix : Air

Lab Number : 34157-01

Sample Date : 7/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	7/23/2003
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	7/23/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	7/23/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	7/23/2003

Sample : SVE-MID

Matrix : Air

Lab Number : 34157-02

Sample Date : 7/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Methyl-t-butyl ether (MTBE)	0.13	0.10	Molar ppm	EPA 8260B	7/23/2003
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	7/23/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	7/23/2003
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	7/23/2003

Approved By:  Joel Kiff

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



Report Number : 34157

Date : 7/25/2003

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : SVE-EFF

Matrix : Air

Lab Number : 34157-03

Sample Date :7/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	7/23/2003
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	7/23/2003
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	7/23/2003
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	7/23/2003

Sample : DAT-EFF

Matrix : Air

Lab Number : 34157-04

Sample Date :7/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	7/23/2003
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	Molar ppm	EPA 8260B	7/23/2003
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	7/23/2003
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	7/23/2003
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	7/23/2003

Approved By:  Joel Kiff



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

Lab No. 34157 Page 1 of 1

Project Contact (Hardcopy or PDF To): Richard Munsch California EDF Report?  Yes  No Chain-of-Custody Record and Analysis Request

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

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

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

Sample Designation	Sampling		40 ml VOA	SLEEVE	Container	Preservative				Matrix			BTEX (6021B)	BTEX/TPH Gas/MTBE (6021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8280B)	5 Oxygenates/TPH Gas/BTEX (8280B)	7 Oxygenates/TPH Gas/BTEX (8280B)	5 Oxygenates (8280B)	7 Oxygenates (8280B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8280B)	EPA 8280B (Full List)	Volatile Halocarbons (EPA 8280B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only
	Date	Time				HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL	Air															

SVE-Inf	7/21/07	3:20			Tedlar												X												01
SVE-MID	7/21/07	3:28						X	X								X												02
SVE-EFF	7/21/07	3:26						X	X								X												03
DAT-EFF	7/21/07	3:20						X	X								X												04

Relinquished by: <u>[Signature]</u>	Date	Time	Received by: _____	Remarks: <u>STAT</u>
Relinquished by: _____	Date	Time	Received by: _____	
Relinquished by: _____	Date	Time	Received by Laboratory: <u>Rob F. W. - Kiff Analytical</u>	

Bill to: Tesoro Petroleum Rob Donovan



Report Number : 34604

Date : 8/22/2003

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 4 Vapor 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,



Jeff Dahl





Report Number : 34604

Date : 8/22/2003

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : SVE-Inf

Matrix : Air

Lab Number : 34604-01

Sample Date :8/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Toluene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	8/22/2003
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	8/22/2003
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	8/22/2003
Toluene - d8 (Surr)	96.6		% Recovery	EPA 8260B	8/22/2003

Approved By:  Jeff Dahl



Report Number : 34604

Date : 8/22/2003

Project Name : Tesoro Station 67107

Project Number : 67107

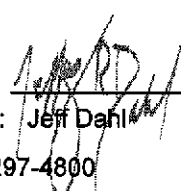
Sample : SVE-MID

Matrix : Air

Lab Number : 34604-02

Sample Date :8/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Toluene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	8/22/2003
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	8/22/2003
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	8/22/2003
Toluene - d8 (Surr)	96.0		% Recovery	EPA 8260B	8/22/2003

Approved By:  Jeff Dahl

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



Report Number : 34604

Date : 8/22/2003

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : SVE-Eff

Matrix : Air

Lab Number : 34604-03

Sample Date : 8/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Toluene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	8/22/2003
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	8/22/2003
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	8/22/2003
Toluene - d8 (Surr)	96.7		% Recovery	EPA 8260B	8/22/2003

Approved By:  Jeff Dahl

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



Report Number : 34604

Date : 8/22/2003

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : DAT-Eff

Matrix : Air

Lab Number : 34604-04

Sample Date :8/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Toluene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	8/22/2003
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	8/22/2003
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	8/22/2003
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	8/22/2003
Toluene - d8 (Surr)	96.1		% Recovery	EPA 8260B	8/22/2003

Approved By:  Jeff Dahl

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

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

Company/Address: RDM Environmental

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

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

**Analysis Request**

Phone No.: (916) 771-7078 FAX No.: (916) 771-4584  
Project Number: 67107 P.O. No.: 67107  
Project Name: Tesoro Station 67107  
Project Address: San Lorenzo

Global ID: . . . . .  
EDF Deliverable To (Email Address):  
Sampler Signature: [Signature]

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)	TAT	For Lab Use Only
	Date	Time	40 ml VOA	SLEEVE	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL	Air															
SVE-INF	8/20/07	9:00		Teckon												X										01
SVE-MID	8/20/07	8:58														X										02
SVE-EFF	8/20/07	8:58														X										03
PAT-EFF	8/20/07	8:54														X										04

T<sub>1</sub> -  
T<sub>2</sub> -  
T<sub>3</sub> -

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
Remarks: **STAT**

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: 08/20/07 Time: 160 Received by Laboratory: KIFF ANALYTICAL Bill to: Tesoro Petroleum  
NATHAN SPEARS Rob Danouan



Report Number : 35057

Date : 9/23/2003

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 4 Vapor 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 that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J" and "K".

Joel Kiff



Report Number : 35057

Date : 9/23/2003

Subject : 4 Air 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 SVE-Inf.

A handwritten signature in black ink, appearing to read "Joel Kiff", is written above a horizontal line.

Approved By: Joel Kiff



Report Number : 35057

Date : 9/23/2003

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : SVE-Inf

Matrix : Air

Lab Number : 35057-01

Sample Date :9/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Toluene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Methyl-t-butyl ether (MTBE)	0.067	0.050	ppmv	EPA 8260B	9/23/2003
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	9/23/2003
TPH as Gasoline	5.6	5.0	ppmv	EPA 8260B	9/23/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/23/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/23/2003

Approved By: Joel Kiff





Report Number : 35057

Date : 9/23/2003

Project Name : Tesoro Station 67107

Project Number : 67107


Sample : SVE-MID

Matrix : Air

Lab Number : 35057-02

Sample Date : 9/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Toluene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Methyl-t-butyl ether (MTBE)	0.12	0.050	ppmv	EPA 8260B	9/23/2003
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	9/23/2003
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	9/23/2003
4-Bromofluorobenzene (Surr)	99.6		% Recovery	EPA 8260B	9/23/2003
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	9/23/2003

  
Approved By: Joel Kiff



Report Number : 35057

Date : 9/23/2003

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : SVE-Eff

Matrix : Air

Lab Number : 35057-03

Sample Date :9/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Toluene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	9/23/2003
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	9/23/2003
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	9/23/2003
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	9/23/2003

Approved By: Joel Kiff



Report Number : 35057

Date : 9/23/2003

Project Name : Tesoro Station 67107

Project Number : 67107


Sample : DAT-Eff

Matrix : Air

Lab Number : 35057-04

Sample Date :9/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Toluene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	9/23/2003
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	9/23/2003
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	9/23/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/23/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	9/23/2003

  
Approved By: Joel Kiff

Project Contact (Hardcopy or PDF, To): Richard Murch  
 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) 771-7048 FAX No.: (916) 771-4587  
 Project Number: 67107 P.O. No.: 67107  
 Global ID: \_\_\_\_\_

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

### Analysis Request

Sample Designation	Sampling		Container				Preservative				Matrix			BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2)	TOTAL (X) W.E.T. (X)	TAT	12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only					
	Date	Time	40 ml VOA	SLEEVE	ICE	NONE	WATER	SOIL	ASL	HCl	HNO <sub>3</sub>	ICE	NONE																						
SVE - Inf	7/21/03	19:20																																	
SVE - MID	9/21/03	17:18																																01	
SVE - EFF	9/21/03	9:15																																02	
DATA - EFF	9/21/03	9:05																																03	
																																			04

Remarks: STA 7

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by Laboratory: \_\_\_\_\_

Bill to: Tesoro Station Petrolina  
Rob Penovan