KIFF 41136 EDF
to KLH
5-5-05
PV

RDM Environmental

6280 Brookshire Drive, Rocklin, CA 95677 Tel: (916) 415-1134, FAX :(916) 415-1154

February 7, 2005

Ms. Cat Runden
Tesoro Environmental Resources Company
3450 S. 344th Way, Suite 100
Auburn WA 98001-5931

Subject: *Quarterly Ground Water Monitoring and Remediation System Status Report, Fourth Quarter 2004*
Tesoro Station No. 67062
(Former Beacon Station No. 3700)
7898 Old Redwood Highway
Cotati, California
RDM Project No. 00-3700

Dear Ms. Runden:

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

Work Performed During the Fourth Quarter 2004:

- Ground water sampling was conducted on **November 19, 2004.**
- Operation and maintenance was conducted bi-monthly on the remediation system.
- RDM finished the last half of the 6-month ozone sparge test. Ozone is being injected into ozone sparge well OS-1.

STATUS OF GROUND WATER MONITORING

Cumulative ground water sampling information is tabulated in Table 1. A site location map, site map, ground water elevation contour map for the A-Zone and B-Zone, and benzene, total petroleum hydrocarbon (TPH) as gasoline, and methyl-t-butyl ether iso-concentration maps for both the A-Zone and B-Zone are illustrated on Figures 1 through 10, respectively. MTBE is the primary chemical of concern for this site. Tesoro was directed by the Regional Water Quality Control Board to evaluate varying ground water characteristics of the two upper water bearing zones (A-Zone 10 to 20 feet below surface grade (bsg) and B-Zone 30 to 40 feet bsg). Figures 3 through 10 are a reflection of this evaluation.

The site history is included in Enclosure A, the quarterly monitoring data sheets are included in Enclosure B and the ground water analytical results are included in Enclosure C. Historical ground water monitoring data is included in Enclosure D.

- Local ground water flows towards the recovery wells and historical ground water flow direction is to the south.

STATUS OF REMEDIATION SYSTEM

Operation and maintenance is performed bi-monthly by RDM on a remediation system consisting of ground water treatment and air sparging components. A process flow diagram showing details of the system is shown as Figure 11.

Operation & Maintenance Site Visits:

- Operation and maintenance site visits were conducted for the **Fourth Quarter 2004** on:
    - **October 13 and 28, 2004**
    - **November 11 and 22, 2004**
    - **December 7 and 26, 2004**

Ground Water Extraction System Performance:

- The ground water treatment system operated intermittently during the **Fourth Quarter 2004**.
- During the **Fourth Quarter 2004**, the ground water treatment system processed approximately **9,347** gallons.
- As of **December 26, 2004**, the ground water treatment system has processed approximately **2,378,640** gallons.
- The ground water treatment system performance data is included in Table 2. Remediation system analytical results are included in Enclosure E.
- The ground water treatment system extracts ground water from recovery wells RW-2 and RW-3A.

Air Sparging System Performance:

- The air sparging system did not operate during the **Fourth Quarter 2004.** The air sparge system was shut off during the ozone sparge test so as not to interfere with the ozone test results.
- When operational, the air sparging system injects air into monitoring wells MW-2, MW-4, MW-8, MW-9, MW-10, MW-14, and MW-19.
- The air-sparging compressor is operating with a 50/50 duty cycle.

Ozone Sparge Test

The ozone sparge system was installed during the second week in February 2004 and the long term ozone sparge test was put into operation on **February 17, 2004**. The ozone sparge test was stopped on **October 13, 2004**. The field readings from the long term test are included in Table 3.

Purge Water & Disposal

Purge water from the quarterly ground water monitoring event was pumped through the onsite remediation system and discharged into the sanitary sewer under permit.

CONCLUSIONS/RECOMMENDATIONS

The ground water treatment system performance data included in Table 2 indicates the ground water treatment system is extracting and treating elevated concentrations of dissolved MTBE. RDM recommends continued operation of the remediation system and quarterly ground water monitoring.

The field readings from the long term ozone sparge test indicate positive results for the use of a full scale ozone system. The petroleum hydrocarbon ground water concentrations in monitoring well MW-2 (screened in the A-Zone) closest to the ozone sparge point are at historically low concentrations. Petroleum hydrocarbon ground water concentrations in recovery well RW-3 (screened in the B-Zone) are also at historically low concentrations. In addition, the long term ozone sparge test has reduced petroleum hydrocarbon concentrations in monitoring well MW-14. The field data in Table 3 indicates the added oxygen from the breakdown of ozone has increased biological activity. The ozone test data indicate ozone is a viable technology to address the impacted ground water related to the site. RDM is moving forward with the full scale ozone system.

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 that this report be forwarded to the following agency:

Ms. Beth Lamb
California Regional Water Quality Control Board,
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

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

RDM ENVIRONMENTAL

Richard D. Munsch
Project Manager

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

REGISTERED PROFESSIONAL ENGINEER
MICHAEL G. LEE
No. C055795
Exp. 12/31/06
CIVIL
STATE OF CALIFORNIA

RDM (67062 4Q GWM 11-19-04.doc)

cc: Ms. Tammy Devol – Santa Rosa Sub-Regional Water Reclamation System

Enclosures:

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

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-2	08/20/98	106.58	12.16	94.42	<50	<50	<50	<50	<5,000	1,000	NA	No LPH or sheen
	11/18/98		16.26	90.32	<0.5	<0.5	<0.5	0.76	74	140	NA	No LPH or sheen
	02/15/99		11.78	94.80	0.72	0.93	<0.5	1.5	69	6,800	NA	No LPH or sheen
	05/19/99		12.51	94.07	<0.5	<0.5	<0.5	<0.5	73	38	NA	No LPH or sheen
	09/08/99		15.97	90.61	<0.5	0.76	<0.5	<0.5	130	580	NA	No LPH or sheen
	11/24/99		17.37	89.21	<2.5	3.7	<2.5	<2.5	4200	6,900	NA	No LPH or sheen
	03/15/00		10.50	96.08	<2.0	<2.0	<2.0	<2.0	<200	16,000	NA	No LPH or sheen
	11/27/00		17.03	89.55	<5.0	<5.0	<5.0	<5.0	<500	1,700	NA	No LPH or sheen
	02/13/01		14.26	92.32	<5.0	<5.0	<5.0	<5.0	<500	2,800	NA	No LPH or sheen
	06/14/01		15.27	91.31	<2.5	<2.5	<2.5	<2.5	<250	1,100	NA	No LPH or sheen
	08/28/01		17.59	88.99	<5.0	<5.0	<5.0	<5.0	3000	<500	NA	No LPH or sheen
	11/26/01		18.05	88.53	<2.0	<2.0	<2.0	<2.0	<200	660	NA	No LPH or sheen
	03/07/02	108.69	12.15	95.54	<50	<50	<50	<50	<5,000	21,000	NA	No LPH or sheen
	06/10/02		14.78	93.91	<10	<10	<10	<10	24000	4,300	NA	No LPH or sheen
	08/26/02		17.22	91.47	<5.0	<5.0	<5.0	<5.0	<500	2,100	NA	No LPH or sheen
	11/27/02		18.75	89.94	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		13.29	95.40	<25	<25	<25	<25	<2,500	10,000	3400[a]	No LPH or sheen
	05/28/03		13.41	95.28	<1.5	<1.5	<1.5	<1.5	<200	600	970[a]	No LPH or sheen
	08/11/03		15.32	93.37	<5.0	<5.0	<5.0	<5.0	<500	1.,700	2,300[a]	No LPH or sheen
	11/20/03		18.21	90.48	<1.5	<1.5	<1.5	<1.5	<200	830	2200[a]	No LPH or sheen
	03/12/04		11.68	97.01	4.0	1.2	<1.0	1.7	110	130	2100[a]	No LPH or sheen
	05/01/04		13.34	95.35	<0.5	<0.5	<0.5	<0.5	81	91	1300[a]	No LPH or sheen
	07/09/04		14.61	94.08	<0.5	<0.5	<0.5	<0.5	75	36	600[a]	No LPH or sheen
	11/19/04		14.88	93.81	<0.5	<0.5	<0.5	<0.5	98	11	200[a]	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-3	08/20/98	105.99	12.39	93.60	NS	NS	NS	NS	NS	NS	NA	Not sampled
	11/18/98		16.04	89.95	NS	NS	NS	NS	NS	NS	NA	Not sampled
	02/15/99		10.99	95.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		11.94	94.05	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		15.86	90.13	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		17.14	88.85	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		9.16	96.83	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		18.70	87.29	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		13.24	92.75	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		14.08	91.91	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		16.31	89.68	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		17.01	88.98	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	108.60	11.88	96.72	<0.5	<0.5	<0.5	<0.5	<50	140	NA	No LPH or sheen
	06/10/02		14.20	94.40	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		16.70	91.90	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		18.12	90.48	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		12.60	96.00	<0.5	<0.5	<0.5	<0.5	<50	88	ND	No LPH or sheen
	05/28/03		11.55	97.05	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		14.81	93.79	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		17.90	90.70	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		10.43	98.17	<0.5	<0.5	<0.5	<0.5	<50	760	ND	Not sampled
	05/01/04		12.63	95.97	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		14.16	94.44	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		14.29	94.31	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-4	08/20/98	104.52	12.74	91.78	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		14.91	89.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		13.12	91.40	<0.5	<0.5	<0.5	<0.5	86	15	NA	No LPH or sheen
	05/19/99		10.44	94.08	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		16.50	88.02	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		17.40	87.12	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		9.44	95.08	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		18.98	85.54	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		15.83	88.69	<0.5	<0.5	<0.5	<0.5	<50	< 0.5	NA	No LPH or sheen
	06/14/01		14.90	89.62	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		17.46	87.06	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		19.92	84.60	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	107.18	11.65	95.53	<0.5	<0.5	<0.5	<0.5	<50	< 0.5	NA	No LPH or sheen
	06/10/02		14.06	93.12	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		16.58	90.60	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		17.98	89.20	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not Located
	05/28/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not Located
	08/11/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not Located
	11/20/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not Located
	03/12/04		8.85	98.33	0.75	<0.5	<0.5	2.60	<50	3.1	7.5[a], 0.58[b]	No LPH or sheen
	05/01/04		10.88	96.30	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		13.80	93.38	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		14.16	93.02	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-5	08/20/98	104.91	12.63	92.28	2.6	0.72	<0.5	0.54	350	<50	NA	No LPH or sheen
	11/18/98		15.40	89.51	1.7	0.7	<0.5	1.1	<50	<5.0	NA	No LPH or sheen
	02/15/99		12.88	92.03	0.91	<0.5	<0.5	<0.5	61	<5.0	NA	No LPH or sheen
	05/19/99		9.65	95.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		15.07	89.84	1.5	<0.5	<0.5	1.3	120	<5.0	NA	No LPH or sheen
	11/24/99		16.95	87.96	2.0	0.55	<0.5	1.3	200	<5.0	NA	No LPH or sheen
	03/15/00		8.31	96.60	<0.5	<0.5	<0.5	<0.5	59	<5.0	NA	No LPH or sheen
	11/27/00		17.32	87.59	2.2	<0.5	<0.5	0.75	230	<0.5	NA	No LPH or sheen
	02/13/01		15.81	89.10	2.4	0.54	<0.5	0.98	120	0.58	NA	No LPH or sheen
	06/14/01		14.82	90.09	2.6	<0.5	<0.5	0.88	89	<0.5	NA	No LPH or sheen
	08/28/01		17.40	87.51	3.0	0.6	<0.5	0.73	550	<0.5	NA	No LPH or sheen
	11/26/01		20.22	84.69	2.7	<0.5	<0.5	0.85	390	<0.5	NA	No LPH or sheen
	03/07/02	106.84	10.60	96.24	1.2	2.9	<0.5	<0.5	160	<0.5	NA	No LPH or sheen
	06/10/02		12.99	93.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/26/02		15.21	91.63	1.3	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/27/02		19.19	87.65	2.2	0.54	<0.5	0.61	<50	<0.5	ND	No LPH or sheen
	02/27/03		12.35	94.49	0.67	0.79	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		11.16	95.68	0.64	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	08/11/03		14.90	91.94	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/20/03		17.30	89.54	1.6	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	03/12/04		8.57	98.27	0.7	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/01/04		10.19	96.65	0.63	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/09/04		12.93	93.91	1.30	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/19/04		13.64	93.20	1.30	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-6	08/20/98	107.81	12.81	95.00	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		16.98	90.83	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		12.58	95.23	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		9.54	98.27	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		15.01	92.80	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		15.98	91.83	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		10.56	97.25	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		17.01	90.80	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		15.00	92.81	<0.5	<0.5	<0.5	<0.5	<50	3.7	NA	No LPH or sheen
	06/14/01		15.78	92.03	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		18.29	89.52	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		18.62	89.19	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	110.20	12.43	97.77	<0.5	<0.5	<0.5	<0.5	<50	6.4	NA	No LPH or sheen
	06/10/02		14.91	95.29	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		17.38	92.82	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		18.81	91.39	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		13.28	96.92	<0.5	<0.5	<0.5	<0.5	<50	4.7	ND	No LPH or sheen
	05/28/03		12.81	97.39	<0.5	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		15.42	94.78	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		18.44	91.76	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		10.86	99.34	NS	NS	NS	NS	NS	NS	NS	Not sampled
	05/01/04		13.11	97.09	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		15.24	94.96	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		15.29	94.91	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-7	08/20/98	106.31	12.26	94.05	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		15.36	90.95	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		9.82	96.49	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		10.75	95.56	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		16.03	90.28	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		17.01	89.30	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		8.30	98.01	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		17.20	89.11	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		11.72	94.59	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		12.70	93.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		15.68	90.63	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		15.91	90.40	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	108.12	9.61	98.51	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		12.10	96.02	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		15.51	92.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		16.62	91.50	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		10.49	97.63	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		10.31	97.81	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		12.92	95.20	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		16.10	92.02	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		8.83	99.29	<0.5	<0.5	<0.5	<0.5	<50	100	ND	No LPH or sheen
	05/01/04		10.95	97.17	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		12.63	95.49	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		12.70	95.42	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-8	08/20/98	106.50	12.43	94.07	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/18/98		15.04	91.46	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/15/99		11.61	94.89	<0.5	<0.5	<0.5	<0.5	<50	28	NA	No LPH or sheen
	05/19/99		11.95	94.55	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		15.42	91.08	<0.5	<0.5	<0.5	<0.5	<50	5.9	NA	No LPH or sheen
	11/24/99		15.45	91.05	<0.5	0.51	<0.5	0.6	<50	10	NA	No LPH or sheen
	03/15/00		7.57	98.93	<0.5	<0.5	<0.5	<0.5	59	<5.0	NA	No LPH or sheen
	11/27/00		15.93	90.57	<0.5	<0.5	<0.5	<0.5	<50	0.6	NA	No LPH or sheen
	02/13/01		11.37	95.13	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		13.19	93.31	<0.5	<0.5	<0.5	<0.5	<50	0.95	NA	No LPH or sheen
	08/28/01		16.17	90.33	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		Dry	NC	NS	NS	NS	NS	NS	NS	NS	Dry
	03/07/02	108.54	7.80	100.74	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		12.33	96.21	<0.5	<0.5	<0.5	<0.5	<50	3.7	NA	No LPH or sheen
	08/26/02		15.78	92.76	<0.5	<0.5	<0.5	<0.5	<50	8.0	NA	No LPH or sheen
	11/27/02		16.70	91.84	<0.5	<0.5	<0.5	<0.5	<50	110	19[a]	No LPH or sheen
	02/27/03		9.52	99.02	<0.5	<0.5	<0.5	<0.5	<50	0.6	ND	No LPH or sheen
	05/28/03		10.78	97.76	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	08/11/03		13.27	95.27	<0.5	<0.5	<0.5	<0.5	<50	8.3	ND	No LPH or sheen
	11/20/03		16.55	91.99	<0.5	<0.5	<0.5	<0.5	<50	140	18[a]	No LPH or sheen
	03/12/04		8.54	100.00	<0.5	<0.5	<0.5	<0.5	<50	6.4	ND	No LPH or sheen
	05/01/04		10.99	97.55	<0.5	<0.5	<0.5	<0.5	<50	15	ND	No LPH or sheen
	07/09/04		12.42	96.12	<0.5	<0.5	<0.5	<0.5	<50	28	ND	No LPH or sheen
	11/19/04		12.70	95.84	<0.5	<0.5	<0.5	<0.5	<50	11	ND	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-9	08/20/98	106.25	11.41	94.84	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		15.86	90.39	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		11.72	94.53	<0.5	<0.5	<0.5	<0.5	<50	9.1	NA	No LPH or sheen
	05/19/99		11.98	94.27	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		15.47	90.78	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		16.70	89.55	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		5.85	100.40	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		12.16	94.09	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		6.01	100.24	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		10.30	95.95	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		12.13	94.12	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		12.50	93.75	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	108.39	6.05	102.34	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		8.70	99.69	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		11.50	96.89	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		17.76	90.63	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		8.94	99.45	<0.5	<0.5	<0.5	<0.5	<50	0.57	ND	No LPH or sheen
	05/28/03		9.81	98.58	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		12.06	96.33	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		14.98	93.41	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		6.59	101.80	<0.5	<0.5	<0.5	<0.5	<50	0.73	ND	No LPH or sheen
	05/01/04		8.36	100.03	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		11.21	97.18	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		9.42	98.97	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-10	08/20/98	106.47	12.84	93.63	2.3	1.2	4.5	26	420	<5.0	NA	No LPH or sheen
	11/18/98		15.73	90.74	3.5	2.2	4.9	33	1100	9.7	NA	No LPH or sheen
	02/15/99		11.64	94.83	5.4	0.71	12	43	630	<5.0	NA	No LPH or sheen
	05/19/99		11.80	94.67	<0.5	<0.5	<0.5	0.56	69	<5.0	NA	No LPH or sheen
	09/08/99		15.26	91.21	1.9	0.69	6.0	26	770	<5.0	NA	No LPH or sheen
	11/24/99		16.46	90.01	1.2	0.74	3.8	21	1100	<5.0	NA	No LPH or sheen
	03/15/00		8.22	98.25	<0.5	<0.5	<0.5	0.87	58	<5.0	NA	No LPH or sheen
	11/27/00		16.95	89.52	<0.5	<0.5	2.8	18	1,000	0.66	NA	No LPH or sheen
	02/13/01		14.39	92.08	<0.5	<0.5	<0.5	0.71	<50	0.76	NA	No LPH or sheen
	06/14/01		15.07	91.40	<0.5	<0.5	1.9	11	750	1.0	NA	No LPH or sheen
	08/28/01		17.31	89.16	1.1	0.68	8.7	54	1,900	2.8	NA	No LPH or sheen
	11/26/01		Dry	NC	NS	NS	NS	NS	NS	NS	NS	Dry
	03/07/02	108.60	10.71	95.76	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		13.82	94.78	<0.5	<0.5	<0.5	<1.0	<50	0.52	NA	No LPH or sheen
	08/26/02		16.81	91.79	<0.5	<0.5	<0.5	1.9	71	0.53	NA	No LPH or sheen
	11/27/02		18.38	90.22	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		12.40	96.20	<0.5	<0.5	<0.5	1.9	130	0.54	ND	No LPH or sheen
	05/28/03		11.65	96.95	<0.5	<0.5	<0.5	<0.5	<50	0.91	ND	No LPH or sheen
	08/11/03		14.43	94.17	<0.5	<0.5	<0.5	<0.5	<50	0.66	ND	No LPH or sheen
	11/20/03		17.69	90.91	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		9.44	99.16	<0.5	<0.5	3.10	20	720	1.2	ND	No LPH or sheen
	05/01/04		11.26	97.34	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		12.86	95.74	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		9.72	98.88	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-13	08/20/98	106.01	11.01	95.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/18/98		14.29	91.72	<0.5	<0.5	<0.5	<0.5	<50	81	NA	No LPH or sheen
	02/15/99		9.42	96.59	<0.5	<0.5	<0.5	<0.5	<50	120	NA	No LPH or sheen
	05/19/99		10.11	95.90	<0.5	<0.5	<0.5	<0.5	<50	72	NA	No LPH or sheen
	09/08/99		13.46	92.55	<0.5	<0.5	<0.5	<0.5	<50	10	NA	No LPH or sheen
	11/24/99		14.47	91.54	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	03/15/00		7.70	98.31	<0.5	<0.5	<0.5	<0.5	<50	92	NA	No LPH or sheen
	11/27/00		14.91	91.10	<0.5	<0.5	<0.5	<0.5	<50	23	NA	No LPH or sheen
	02/13/01		11.64	94.37	<0.5	<0.5	<0.5	0.71	<50	35	NA	No LPH or sheen
	06/14/01		12.80	93.21	<0.5	<0.5	<0.5	<0.5	<50	13	NA	No LPH or sheen
	08/28/01		15.45	90.56	<0.5	<0.5	<0.5	<0.5	510	4.9	NA	No LPH or sheen
	11/26/01		15.45	90.56	<0.5	<0.5	<0.5	<0.5	<50	3.5	NA	No LPH or sheen
	03/07/02	108.09	9.15	98.94	<0.5	<0.5	<0.5	<0.5	<50	100	NA	No LPH or sheen
	06/10/02		11.96	96.13	<0.5	<0.5	<0.5	<0.5	<50	11	NA	No LPH or sheen
	08/26/02		15.27	92.82	<0.5	<0.5	<0.5	<0.5	<50	18	NA	No LPH or sheen
	11/27/02		16.80	91.29	<0.5	<0.5	<0.5	<0.5	<50	4.7	ND	No LPH or sheen
	02/27/03		10.20	97.89	<0.5	<0.5	<0.5	<0.5	<50	37	ND	No LPH or sheen
	05/28/03		10.11	97.98	<0.5	<0.5	<0.5	<0.5	<50	7.4	ND	No LPH or sheen
	08/11/03		12.14	95.95	<0.5	<0.5	<0.5	<0.5	<50	3.1	ND	No LPH or sheen
	11/20/03		16.09	92.00	<0.5	<0.5	<0.5	<0.5	<50	1.8	ND	No LPH or sheen
	03/12/04		8.37	99.72	<0.5	<0.5	<0.5	<0.5	<50	10	ND	No LPH or sheen
	05/01/04		10.28	97.81	<0.5	<0.5	<0.5	<0.5	<50	1.4	ND	No LPH or sheen
	07/09/04		11.32	96.77	<0.5	<0.5	<0.5	<0.5	<50	1.5	ND	No LPH or sheen
	11/19/04		11.67	96.42	<0.5	<0.5	<0.5	<0.5	<50	1.2	ND	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-14	08/20/98	106.64	13.91	92.73	550	240	73	1,100	6400	7,600	NA	No LPH or sheen
	11/18/98		18.75	87.89	4.7	9.8	7.0	87	660	24	NA	No LPH or sheen
	02/15/99		15.51	91.13	<0.5	<0.5	<0.5	<0.5	75	67	NA	No LPH or sheen
	05/19/99		14.12	92.52	4,500	1,400	960	4,000	34000	13,000	NA	No LPH or sheen
	09/08/99		17.77	88.87	2,400	1,100	670	3,000	28000	4,700	NA	No LPH or sheen
	11/24/99		18.70	87.94	380	100	190	310	4200	2,800	NA	No LPH or sheen
	03/15/00		12.57	94.07	1,900	670	630	2,400	30,000	12,000	NA	No LPH or sheen
	11/27/00		19.53	87.11	1,700	430	350	1,400	16,000	9,900	NA	No LPH or sheen
	02/13/01		16.84	89.80	1,100	330	240	1,000	9,900	10,000	NA	No LPH or sheen
	06/14/01		17.71	88.93	2,500	620	460	1,600	17,000	6,600	NA	No LPH or sheen
	08/28/01		19.90	86.74	2,300	540	510	1,600	17,000	7,800	NA	No LPH or sheen
	11/26/01		21.23	85.41	1,500	430	330	1,200	13,000	4,600	NA	No LPH or sheen
	03/07/02	108.31	14.51	93.80	1,700	480	570	1,800	18,000	3,400	NA	No LPH or sheen
	06/10/02		16.86	91.45	1,900	410	450	1,300	13,000	3,300	NA	No LPH or sheen
	08/26/02		19.02	89.28	15	<5.0	<5.0	<5.0	1,400	3,000	NA	No LPH or sheen
	11/27/02		21.51	86.80	680	200	210	860	15,000	4,400	620[a]	No LPH or sheen
	02/27/03		15.56	92.75	490	70	72	220	4,400	2,700	430[a]	No LPH or sheen
	05/28/03		15.37	92.94	430	41	52	130	3,600	1,700	400[a]	No LPH or sheen
	08/11/03		17.50	90.81	25	3.8	2.1	9.6	910	960	250[a]	No LPH or sheen
	11/20/03		20.21	88.10	32	2.3	<2.0	7.0	1,100	1,400	210[a]	No LPH or sheen
	03/12/04		13.31	95.00	3,100	660	360	1,400	18,000	3,100	710[a]	No LPH or sheen
	05/01/04		14.94	93.37	2,400	320	260	870	16,000	3,600	630[a]	No LPH or sheen
	07/09/04		16.27	92.04	2,300	240	210	760	14,000	2,700	620[a]	No LPH or sheen
	11/19/04		16.44	91.87	1,000	120	81	320	6,200	1,100	900[a], 0.94[b], 0.61[c]	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-15	08/20/98	105.12	13.75	91.37	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/18/98		16.95	88.17	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/15/99		13.05	92.07	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		10.68	94.44	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		16.25	88.87	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/24/99		17.48	87.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	03/15/00		9.89	95.23	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		17.49	87.63	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/13/01		16.71	88.41	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		14.84	90.28	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/28/01		18.31	86.81	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/26/01		18.75	86.37	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	03/07/02	107.77	12.00	95.77	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		13.09	94.68	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/26/02		16.60	91.17	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/27/02		19.10	88.67	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	02/27/03		12.96	94.81	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		10.55	97.22	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	08/11/03		15.51	92.26	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/20/03		18.37	89.40	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	03/12/04		9.55	98.22	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/01/04		11.38	96.39	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/09/04		13.54	94.23	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/19/04		13.89	93.88	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-16	08/20/98	104.92	12.92	92.00	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		16.93	87.99	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		11.31	93.61	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		9.59	95.33	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		15.11	89.81	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		16.16	88.76	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		8.81	96.11	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		15.04	89.88	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		14.20	90.72	<0.5	<0.5	<0.5	<0.5	<50	0.56	NA	No LPH or sheen
	06/14/01		15.21	89.71	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		17.40	87.52	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		18.31	86.61	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	107.61	9.63	97.98	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	06/10/02		12.06	95.55	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		15.30	92.31	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		16.98	90.63	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		11.12	96.49	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		10.12	97.49	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		15.05	92.56	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		16.75	90.86	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		8.54	99.07	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/01/04		10.18	97.43	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		12.51	95.10	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		13.28	94.33	NS	NS	NS	NS	NS	NS	NS	Not sampled

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-17	08/20/98	103.01	12.96	90.05	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/18/98		16.91	86.10	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/15/99		12.19	90.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		11.24	91.77	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		15.65	87.36	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/24/99		16.61	86.40	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	03/15/00		9.06	93.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		16.82	86.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/13/01		14.85	88.16	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		14.60	88.41	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/28/01		17.56	85.45	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/26/01		18.40	84.61	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	03/07/02	105.66	9.84	95.82	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		12.27	93.39	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	08/26/02		15.56	90.10	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	11/27/02		19.23	86.43	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	02/27/03		13.20	92.46	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/28/03		11.39	94.27	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	08/11/03		14.60	91.06	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/20/03		15.95	89.71	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	03/12/04		8.01	97.65	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	05/01/04		9.89	95.77	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	07/09/04		12.00	93.66	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen
	11/19/04		12.51	93.15	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-18	08/20/98	108.35	15.11	93.24	<0.5	<0.5	<0.5	<0.5	250	<5.0	NA	No LPH or sheen
	11/18/98		18.44	89.91	<0.5	<0.5	<0.5	<0.5	<50	110	NA	No LPH or sheen
	02/15/99		12.96	95.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		13.57	94.78	<0.5	<0.5	<0.5	<0.5	<50	1,000	NA	No LPH or sheen
	09/08/99		17.74	90.61	<0.5	<0.5	<0.5	<0.5	<50	1,100	NA	No LPH or sheen
	11/24/99		18.40	89.95	<0.5	<0.5	<0.5	<0.5	2000	2,600	NA	No LPH or sheen
	03/15/00		11.15	97.20	<2.0	<2.0	<2.0	<2.0	<200	2,900	NA	No LPH or sheen
	11/27/00		18.42	89.93	<1.0	<1.0	<1.0	<1.0	<100	2,500	NA	No LPH or sheen
	02/13/01		14.89	93.46	<1.0	<1.0	<1.0	<1.0	<100	3,400	NA	No LPH or sheen
	06/14/01		16.51	91.84	<2.0	<2.0	<2.0	<2.0	<200	780	NA	No LPH or sheen
	08/28/01		19.65	88.70	<0.5	<0.5	<0.5	<0.5	<50	340	NA	No LPH or sheen
	11/26/01		20.09	88.26	<2.5	<2.5	<2.5	<2.5	<250	1,400	NA	No LPH or sheen
	03/07/02	113.98	12.65	101.33	<0.5	<0.5	<0.5	<0.5	<50	1,300	NA	No LPH or sheen
	06/10/02		15.27	98.71	<2.5	<2.5	<2.5	<2.5	<250	1,400	NA	No LPH or sheen
	08/26/02		18.31	95.67	<2.0	<2.0	<2.0	<2.0	<200	1,000	NA	No LPH or sheen
	11/27/02		21.13	92.85	<5.0	<5.0	<5.0	<5.0	<500	1,600	55[a]	No LPH or sheen
	02/27/03		13.45	100.53	<2.0	<2.0	<2.0	<2.0	<200	690	27[a]	No LPH or sheen
	05/28/03		13.81	100.17	<5.0	<5.0	<5.0	<5.0	<500	1,900	ND	No LPH or sheen
	08/11/03		17.02	96.96	<2.5	<2.5	<2.5	<2.5	<250	1,200	ND	No LPH or sheen
	11/20/03		19.11	94.87	<5.0	<5.0	<5.0	<5.0	<500	2,400	ND	No LPH or sheen
	03/12/04		11.64	102.34	<2.0	<2.0	<2.0	<2.0	<200	990	ND	No LPH or sheen
	05/01/04		13.72	100.26	<1.5	<1.5	<1.5	<1.5	<200	910	ND	No LPH or sheen
	07/09/04		15.44	98.54	<2.0	<2.0	<2.0	<2.0	<200	800	ND	No LPH or sheen
	11/19/04		15.47	98.51	<0.5	<0.5	<0.5	<0.5	<50	1,200	0.54[c]	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-19	08/20/98	106.43	11.74	94.69	NA	NA	NA	NA	NA	NA	NA	Laboratory error
	11/18/98		14.64	91.79	<50	<50	<50	<50	<5,000	26,000	NA	No LPH or sheen
	02/15/99		10.94	95.49	<0.5	<0.5	<0.5	<0.5	<50	360	NA	No LPH or sheen
	05/19/99		10.79	95.64	<0.5	<0.5	<0.5	<0.5	<50	9,300	NA	No LPH or sheen
	09/08/99		17.20	89.23	<0.5	<0.5	<0.5	<0.5	<50	3,100	NA	No LPH or sheen
	11/24/99		14.84	91.59	<10	<10	<10	<10	2,800	4,100	NA	No LPH or sheen
	03/15/00		8.40	98.03	<50	<50	<50	<50	<5,000	48,000	NA	No LPH or sheen
	11/27/00		15.65	90.78	<2.0	<2.0	<2.0	<2.0	<200	1,800	NA	Laboratory error
	02/13/01		12.24	94.19	<1.0	<1.0	<1.0	<1.0	<100	450	NA	Laboratory error
	06/14/01		13.07	93.36	<0.5	<0.5	<0.5	<0.5	<50	220	NA	No LPH or sheen
	08/28/01		15.90	90.53	<0.5	<0.5	<0.5	<0.5	<50	160	NA	No LPH or sheen
	11/26/01		16.01	90.42	<1.0	<1.0	<1.0	<1.0	<100	480	NA	No LPH or sheen
	03/07/02	108.49	9.39	99.10	<10	<10	<10	<10	<1,000	3,500	NA	No LPH or sheen
	06/10/02		12.55	95.94	<1.0	<1.0	<1.0	<1.0	<100	490	NA	No LPH or sheen
	08/26/02		16.11	92.38	<0.5	<0.5	<0.5	<0.5	<50	240	NA	No LPH or sheen
	11/27/02		17.50	90.99	<0.5	<0.5	<0.5	<0.5	<50	360	ND	No LPH or sheen
	02/27/03		10.54	97.95	<0.5	<0.5	<0.5	<0.5	<50	99	ND	No LPH or sheen
	05/28/03		11.35	97.14	<0.5	<0.5	<0.5	<0.5	<50	65	ND	No LPH or sheen
	08/11/03		13.46	95.03	<0.5	<0.5	<0.5	<0.5	<50	77	ND	No LPH or sheen
	11/20/03		16.52	91.97	<0.5	<0.5	<0.5	<0.5	<50	77	ND	No LPH or sheen
	03/12/04		8.87	99.62	<0.5	<0.5	<0.5	<0.5	<50	250	11[a]	No LPH or sheen
	05/01/04		10.77	92.72	<0.5	<0.5	<0.5	<0.5	<50	92	ND	No LPH or sheen
	07/09/04		11.98	96.51	<0.5	<0.5	<0.5	<0.5	<50	210	ND	No LPH or sheen
	11/19/04		12.62	95.87	<0.5	<0.5	<0.5	<0.5	<50	78	ND	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-20	08/20/98	105.91	11.69	94.22	<0.5	<0.5	<0.5	<0.5	250	<5.0	NA	No LPH or sheen
	11/18/98		14.64	91.27	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	02/15/99		10.31	95.60	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		10.06	95.85	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	09/08/99		13.93	91.98	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/24/99		15.09	90.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	03/15/00		8.01	97.90	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		15.80	90.11	<0.5	<0.5	<0.5	<0.5	<50	1.6	NA	No LPH or sheen
	02/13/01		12.93	92.98	<0.5	<0.5	<0.5	<0.5	<50	1.8	NA	No LPH or sheen
	06/14/01		13.71	92.20	<0.5	<0.5	<0.5	<0.5	<50	1.1	NA	No LPH or sheen
	08/28/01		16.08	89.83	<0.5	<0.5	<0.5	<0.5	<50	2.3	NA	No LPH or sheen
	11/26/01		16.52	89.39	<0.5	<0.5	<0.5	<0.5	<50	1.6	NA	No LPH or sheen
	03/07/02	108.01	9.85	98.16	<0.5	<0.5	<0.5	<0.5	<50	1.0	NA	No LPH or sheen
	06/10/02		12.52	95.49	<0.5	<0.5	<0.5	<0.5	<50	1.8	NA	No LPH or sheen
	08/26/02		15.75	92.26	<0.5	<0.5	<0.5	<0.5	<50	1.3	NA	No LPH or sheen
	11/27/02		17.24	90.77	<0.5	<0.5	<0.5	<0.5	<50	1.2	ND	No LPH or sheen
	02/27/03		10.85	97.16	<0.5	<0.5	<0.5	<0.5	<50	1.2	ND	No LPH or sheen
	05/28/03		10.43	97.58	<0.5	<0.5	<0.5	<0.5	<50	1.6	ND	No LPH or sheen
	08/11/03		12.94	95.07	<0.5	<0.5	<0.5	<0.5	<50	1.4	ND	No LPH or sheen
	11/20/03		16.58	91.43	<0.5	<0.5	<0.5	<0.5	<50	1.1	ND	No LPH or sheen
	03/12/04		8.35	99.66	<0.5	<0.5	1.6	1.1	170	1.4	ND	No LPH or sheen
	05/01/04		10.36	97.65	<0.5	<0.5	1.4	1.0	150	1.5	ND	No LPH or sheen
	07/09/04		11.66	96.35	<0.5	<0.5	1.3	0.62	150	1.2	ND	No LPH or sheen
	11/19/04		12.03	95.98	<0.5	<0.5	0.53	<0.5	78	1.2	ND	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-1	08/20/98	105.17	13.43	91.74	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/18/98		16.68	88.49	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/15/99		13.17	92.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	05/19/99		12.89	92.28	NS	NS	NS	NS	NS	NS	NS	Not sampled
	09/08/99		16.01	89.16	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/24/99		17.14	88.03	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/15/00		8.81	96.36	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No LPH or sheen
	11/27/00		17.21	87.96	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/13/01		16.20	88.97	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/14/01		17.17	88.00	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/28/01		19.51	85.66	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/26/01		19.92	85.25	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/07/02	107.35	11.03	96.32	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No LPH or sheen
	06/10/02		13.98	93.37	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/26/02		16.90	90.45	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/27/02		18.42	88.93	NS	NS	NS	NS	NS	NS	NS	Not sampled
	02/27/03		12.50	94.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	3.8[b]	No LPH or sheen
	05/28/03		12.10	95.25	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/11/03		14.21	93.14	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/20/03		17.80	89.55	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/12/04		8.82	98.53	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.9[b]	No LPH or sheen
	05/01/04		10.70	96.65	NS	NS	NS	NS	NS	NS	NS	Not sampled
	07/09/04		13.05	94.30	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/19/04		13.62	93.72	NS	NS	NS	NS	NS	NS	NS	Not sampled

13.63

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-2	08/20/98	105.22	14.34	90.88	47	3.5	12	27	310	480	NA	No LPH or sheen
	11/18/98		65.31	39.91	660	77	210	860	4900	1,100	NA	No LPH or sheen
	02/15/99		65.51	39.71	<0.5	<0.5	<0.5	0.65	<50	510	NA	No LPH or sheen
	05/19/99		12.55	92.67	200	10	2.9	130	2900	4,500	NA	No LPH or sheen
	09/08/99		25.41	79.81	680	70	24	460	3100	980	NA	No LPH or sheen
	11/24/99		25.45	79.77	660	27	12	220	3500	1,000	NA	No LPH or sheen
	03/15/00		23.84	81.38	120	45	12	360	3,500	890	NA	No LPH or sheen
	11/27/00		30.56	74.66	3.6	<1.0	<1.0	2.3	<100	640	NA	No LPH or sheen
	02/13/01		30.68	74.54	<2.0	<2.0	<2.0	2.6	<200	510	NA	No LPH or sheen
	06/14/01		33.60	71.62	19	0.73	<0.5	3.7	61	220	NA	No LPH or sheen
	08/28/01		34.70	70.52	15	0.5	<0.5	1.7	<50	240	NA	No LPH or sheen
	11/26/01		34.10	71.12	12	<1.0	<1.0	<1.0	<100	320	NA	No LPH or sheen
	03/07/02	107.81	35.10	72.71	22	<1.0	1.3	2.6	130	560	NA	No LPH or sheen
	06/10/02		23.90	83.91	91	9.9	<1.0	160	760	330	NA	No LPH or sheen
	08/26/02		15.10	92.71	<20	<20	<20	<20	<2,000	12,000	NA	No LPH or sheen
	11/27/02		35.10	72.71	14	<2.0	<2.0	<2.0	<200	730	67[a]	No LPH or sheen
	02/27/03		29.90	77.91	<1.5	<1.5	<1.5	47	380	610	69[a]	No LPH or sheen
	05/28/03		26.10	81.71	270	16	7.9	110	2,000	510	92[a]	No LPH or sheen
	08/11/03		30.31	77.50	3.3	<1.0	<1.0	4.4	<100	340	33[a]	No LPH or sheen
	11/20/03		27.30	80.51	1.5	<0.5	<0.5	<0.5	<50	330	17[a]	No LPH or sheen
	03/12/04		15.59	92.22	58	2.8	<0.5	17	400	380	46[a]	No LPH or sheen
	05/01/04		14.30	93.51	<0.5	<0.5	<0.5	<0.5	<50	320	49[a]	No LPH or sheen
	07/09/04		20.44	87.37	83	3.3	1.1	28	410	400	42[a]	No LPH or sheen
	11/19/04		15.67	92.14	<0.5	<0.5	<0.5	<0.5	<50	180	8.2[a]	No LPH or sheen

TABLE 1

GROUND WATER MONITORING DATA
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

Monitoring Well	Date Measured	Reference Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-3A	08/20/98	105.72	11.68	94.04	<50	<50	<50	<50	<5,000	17,000	NA	No LPH or sheen
	11/18/98		38.01	67.71	220	120	240	1,100	7400	22,000	NA	No LPH or sheen
	02/15/99		37.80	67.92	80	<25	<25	280	<2,500	30,000	NA	No LPH or sheen
	05/19/99		39.35	66.37	<5.0	<5.0	<5.0	<5.0	<500	30,000	NA	No LPH or sheen
	09/08/99		31.40	74.32	380	31	150	810	5300	39,000	NA	No LPH or sheen
	11/24/99		24.55	81.17	280	14	110	450	18000	24,000	NA	No LPH or sheen
	03/15/00		21.80	83.92	140	30	99	890	6,700	17,000	NA	No LPH or sheen
	11/27/00		29.80	75.92	83	<50	<50	<50	<5,000	23,000	NA	No LPH or sheen
	02/13/01		31.06	74.66	71	<20	32	200	<2,000	16,000	NA	No LPH or sheen
	06/14/01		26.90	78.82	79	<25	42	150	<5,000	12,000	NA	No LPH or sheen
	08/28/01		28.71	77.01	150	<25	73	110	<5,000	18,000	NA	No LPH or sheen
	11/26/01		35.60	70.12	39	<25	<25	<25	<5,000	12,000	NA	No LPH or sheen
	03/07/02	108.68	33.91	74.77	87	<50	<50	84	<5,000	28,000	NA	No LPH or sheen
	06/10/02		33.10	75.58	110	<50	<50	88	<5,000	16,000	NA	No LPH or sheen
	08/26/02		31.06	77.62	34	<25	<25	<25	<2,500	17,000	NA	No LPH or sheen
	11/27/02		34.10	74.58	<50	<50	<50	<50	<5,000	20,000	2,800[a]	No LPH or sheen
	02/27/03		35.36	73.32	100	<25	30	72	<2,500	9,800	2,300[a]	No LPH or sheen
	05/28/03		36.10	72.58	110	<20	26	35	2,100	7,100	2,200[a]	No LPH or sheen
	08/11/03		34.60	74.08	35	<10	<10	16	1,200	4,300	3,200[a]	No LPH or sheen
	11/20/03		35.93	72.75	20	<5.0	<5.0	<5.0	700	3,200	3,400[a]	No LPH or sheen
	03/12/04		21.56	87.12	40	3.5	7.0	43	920	2,800	2,600[a], 1.4[c]	No LPH or sheen
	05/01/04		23.46	85.22	40	<5.0	<5.0	20	650	2,300	3,100[a]	No LPH or sheen
	07/09/04		25.13	83.55	38	<5.0	<5.0	13	760	1,300	3,200[a]	No LPH or sheen
	11/19/04		35.14	73.54	18	0.91	1.7	5.4	630	390	2,900[a]	No LPH or sheen

Reference Elevation = Reference elevation mean sea level.
TPH = Total petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether.
LPH = Liquid-phase petroleum hydrocarbons.
µg/L = Micrograms per liter.
NA = Not analyzed.
NS = Not sampled.
a = tert-butanol
b = diisopropyl ether
c = Tert-amyl methyl ether

Table 2
Ground Water System Performance Data Sheet
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Redwood Highway
Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg[a]	MTBE[b]	Copper	Lead	Zinc
10/5/2000	1,681,191	0	Influent	140	<20	44	210	<2,000	NA	NA	NA	NA
			Effluent	3.5	0.52	<0.5	1.7	<50	NA	<20	<5.0	63
10/16/2000	1,684,990	3,799	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/4/2000	1,689,910	4,920	Influent	14	<10	<10	12	<1,000	NA	NA	NA	NA
			Effluent	<1.0	<1.0	<1.0	<1.0	<100	NA	<20	<5.0	<50
11/16/2000	1,694,820	4,910	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/5/2000	1,703,710	8,890	Influent	60	<10	13	100	1,500	NA	NA	NA	NA
			Effluent	0.77	<0.5	<0.5	0.77	<50	NA	<20	<5.0	<50
12/19/2000	1,709,840	6,130	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/4/2001	1,717,660	7,820	Influent	45	11	<10	37	<1,000	NA	NA	NA	NA
			Effluent	<1.0	<1.0	<1.0	<1.0	<100	NA	<20	<5.0	<50
1/29/2001	1,730,800	13,140	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/8/2001	1,737,700	6,900	Influent	73	<10	25	140	1,800	NA	NA	NA	NA
			Effluent	<1.0	<1.0	<1.0	<2.0	<100	NA	<20	<5.0	<50
2/21/2001	1,747,270	9,570	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/6/2001	1,760,200	12,930	Influent	25	<10	<10	100	2,100	NA	NA	NA	NA
			Effluent	1.2	<1.0	<1.0	3.9	<100	NA	<20	<5.0	27
3/17/2001	1,772,190	11,990	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/7/2001	1,790,740	18,550	Influent	26	<1.0	1.9	14	190	NA	NA	NA	NA
			Effluent	<1.0	<1.0	<1.0	<1.0	<100	NA	<20	<5.0	<50
4/18/2001	1,798,540	7,800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/13/2001	1,815,100	16,560	Influent	<2.0	<2.0	<2.0	4.7	<200	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
5/22/2001	1,820,750	5,650	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Ground Water System Performance Data Sheet
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Redwood Highway
Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg[a]	MTBE[b]	Copper	Lead	Zinc
6/4/2001	1,828,240	7,490	Influent	50	<20	<20	52	<2,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
6/15/2001	1,834,470	6,230	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7/2/2001	1,843,090	8,620	Influent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	250
7/22/2001	1,851,450	8,360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/10/2001	1,858,200	6,750	Influent	11	<0.5	<0.5	7.2	<500	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	34	<5.0	<50
8/24/2001	1,862,940	4,740	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/1/2001	1,865,600	2,660	Influent	12	0.79	0.86	2.6	180	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	70
9/29/2001	1,874,280	8,680	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/5/2001	1,875,950	1,670	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/24/2001	1,880,160	4,210	Influent	<2.0	<2.0	<2.0	<2.0	<200	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
11/1/2001	1,881,160	1,000	Influent	13	<2.5	4.9	4	<250	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<20
11/16/2001	1,882,110	950	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/15/2001	1,883,160	1,050	Influent	26	<10	<10	58	<1,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<20
12/26/2001	1,886,480	3,320	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
01/08/02	1,898,690	12,210	Influent	20	<5.0	<5.0	38	840	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<50
01/24/02	1,916,130	17,440	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
02/11/02	1,929,910	13,780	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Ground Water System Performance Data Sheet
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Redwood Highway
Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg[a]	MTBE[b]	Copper	Lead	Zinc
02/17/02	1,934,440	4,530	Influent	<20	<20	<20	<20	<2,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<50	<50	NA	<20	<5.0	<50
03/03/02	1,942,660	8,220	Influent	<25	<25	<25	<25	<2,500	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<20	<5.0	<20
03/15/02	1,948,210	5,550	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/05/02	1,963,310	15,100	Influent	<20	<20	<20	<20	<2,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NR	NR	NR
04/19/02	1,967,670	4,360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/03/02	1,969,670	2,000	Influent	<1.0	<1.0	<1.0	<1.0	<100	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	32.8	<10	37.2
05/31/02	1,981,370	11,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/13/02	1,991,860	10,490	Influent	96	<5.0	<5.0	78	770	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	10.3	<5.0	27.1
06/27/02	1,992,987	1,127	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/01/02	1,996,480	3,493	Influent	<5.0	<5.0	<5.0	<5.0	<500	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<5.0	<5.0	18.1
07/24/02	2,000,840	4,360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/12/02	2,001,070	230	Influent	13	<10	<10	12	<1,000	16,000	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<5.0	<10	10.6
08/26/02	2,001,070	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/13/02	2,001,070	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/30/02	2,001,265	195	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/14/02	2,003,260	1,995	Influent	<20	<20	<20	<20	<2,000	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	9.53	<10	69.7
10/30/02	2,006,340	3,080	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Ground Water System Performance Data Sheet
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Redwood Highway
Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg[a]	MTBE[b]	Copper	Lead	Zinc
11/17/02	2,010,780	4,440	Influent	<10	<10	<10	<10	<1,000	5,500	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	4.1	<5.0	<10	32.1
11/25/02	2,012,700	1,920	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/05/02	2,013,480	780	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/26/02	2,021,480	8,000	Influent	65	<25	<25	51	<2,500	11,000	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.4	<5.0	<10	21.8
01/20/03	2,045,230	23,750	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
01/31/03	2,057,600	12,370	Influent	53	4.9	20	70	1,500	6,600	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.98	<5.0	<10	<10
02/11/03	2,069,230	11,630	Influent	47	<10	15	40	<1,000	5,300	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<5.0	<10	<10
02/22/03	2,081,120	11,890	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/01/03	2,088,990	7,870	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/30/03	2,119,590	30,600	Influent	95	<10	18	55	<1,000	4,900	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	9.9	<5.0	<10	<10
04/16/03	2,132,040	12,450	Influent	120	<20	<20	58	<2,000	5,000	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	7.4	<5.0	<10	20.6
04/28/03	2,132,940	900	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/17/03	2,132,940	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/28/03	2,132,940	0	Influent	<0.5	<0.5	<0.5	52	1,000	2,900	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.9	6.08	<10	43.8
06/01/03	0	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/10/03	11,180	11,180	Influent	170	7.4	13	48	780	730	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	86	3.7	<5.0	<10	55.8

Table 2
Ground Water System Performance Data Sheet
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Redwood Highway
Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg[a]	MTBE[b]	Copper	Lead	Zinc
06/24/03	22,940	11,760	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/11/03	41,750	18,810	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/18/03	47,810	6,060	Influent	25	<10	<10	<10	<1,000	3,800	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.0	<5.0	<10	71.6
08/01/03	58,510	58,510	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/17/03	69,080	10,570	Influent	3.8	<0.5	<0.5	0.93	<50	360	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.8	<5.0	<10	20
09/06/03	77,732	8,652	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/19/03	87,640	9,908	Influent	1.7	<0.5	<0.5	1.5	240	3,600	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	4.2	<5.0	<10	21.5
10/18/03	100,420	12,780	Influent	5.3	<5.0	<5.0	<5.0	<500	2,400	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.6	7.78	<10	34.2
10/25/03	103,030	2,610	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/16/03	104,830	1,800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/30/03	105,440	610	Influent	28	<2.5	<2.5	<2.5	390	1,900	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	39.2
12/09/03	105,480	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/19/03	109,610	4,130	Influent	31	<5.0	<5.0	10	<500	1,800	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.8	5.68	<10	<10
01/21/04	134,700	25,090	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
01/30/04	142,060	7,360	Influent	28	<5.0	<5.0	20	720	2,300	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.93	<5.0	<10	14.9
02/10/04	150,590	8,530	Influent	6.4	<1.0	<1.0	2.1	100	510	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	13	<5.0	<10	42.4
02/18/04	151,450	860	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
03/12/04	162,720	11,270	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Ground Water System Performance Data Sheet
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Redwood Highway
Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg[a]	MTBE[b]	Copper	Lead	Zinc
03/25/04	173,868	23,278	Influent	15	<5.0	<5.0	15	630	1,800	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.5	5.7	<10	142
03/25/04	173,868	22,418	Influent	15	<5.0	<5.0	15	630	1,800	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.5	5.7	<10	142
04/21/04	188,333	14,465	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/29/04	191,520	3,187	Influent	25	<5.0	<5.0	19	1,000	2,200	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	214
05/10/04	197,427	5,907	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/25/04	202,441	5,014	Influent	16	<1.5	<1.5	3.3	480	360	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	126
06/14/04	213,108	10,667	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/22/04	217,726	4,618	Influent	22	<2.0	<2.0	7.7	630	1,200	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	37
07/01/04	222,469	4,743	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/28/04	231,777	9,308	Influent	5.5	<0.5	0.64	1.9	410	71	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	8.96	<10	321
08/04/04	234,314	2,537	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/30/04	234,510	196	Influent	12	<1.5	<1.5	2.2	320	780	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	31.6
09/11/04	234,990	480	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/20/04	236,353	1,363	Influent	4.9	<1.5	<1.5	4.2	400	720	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	28.10	15.1	5,270
10/13/04	236,360	7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/04	236,360	0	Influent	11	<1.5	<1.5	5.9	490	570	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.70	<10	1,650
11/11/04	237,224	864	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/22/04	237,530	306	Influent	9.0	<0.9	1.6	5.5	600	450	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	6.72	<10	624

Table 2
Ground Water System Performance Data Sheet
Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Redwood Highway
Cotati, California

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)								
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg[a]	MTBE[b]	Copper	Lead	Zinc
12/07/04	237,808	278	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/26/04	245,700	7,892	Influent	28	1.6	3.4	7.9	790	440	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<10	94.9

Total =	2,378,640

Notes:
a) Total Petroleum Hydrocarbons as gasoline
b) Methyl-t-butyl ether
NS = Not Sampled
NA = Not Analyzed
NR = Not Reported

Table 3
Tesoro Station 67062
7898 Old Redwood Hwy
Cotati, California
Ozone Sparge System Field Parameters

Well No.	Date	Time	DTW (ft.)	D.O. (ppm)	CO_2 (ppm)	LEL (%)	PID (ppm)	O_2 (ppm)	Ozone (ppm)	Notes
MW-2	2/17/2004	10:00 AM	11.32	1.8	980	0.0	0.0	16.9	0.00	Initial Readings
	3/12/2004	3:00 PM	11.62	3.1	480	0.0	0.1	20.2	0.02	
	3/25/2004	3:40 PM	11.51	3.9	680	0.0	0.0	20.2	0.02	
	4/21/2004	1:10 PM	13.12	3.56	280	1.0	0.0	20.7	0.01	
	4/29/2004	10:00 AM	13.35	3.89	550	1.0	0.0	20.9	0.02	
	5/10/2004	11:00 AM	13.21	7.81	210	0.0	0.0	21.4	0.01	
	5/25/2004	8:00 AM	12.86	5.84	270	0.0	0.0	20.3	0.03	
	6/14/2004	10:20 AM	14.24	1.42	720	2.0	0.1	20.6	0.02	
	6/22/2004	4:45 PM	13.56	2.31	650	1.0	0.0	20.6	0.02	
	7/1/2004	10:30 AM	13.54	5.82	320	0.0	0.0	20.4	0.03	
	7/28/2004	4:00 PM	13.56	5.12	289	0.0	0.0	20.4	0.03	
	8/4/2004	12:30 PM	14.92	5.75	320	0.0	0.0	20.5	0.02	
	8/30/2004	10:40 AM	16.81	4.21	310	0.0	0.0	20.6	0.03	
	9/11/2004	10:30 AM	15.68	4.32	410	0.0	0.0	20.4	0.02	
	9/20/2004	11:30 PM	15.44	4.62	278	0.0	0.0	20.4	0.02	
	10/13/2004	9:05 AM	15.36	4.41	2560	0.0	0.0	20.9	0.02	
MW-14	2/17/2004	10:00 AM	13.09	1.6	890	0.0	0.0	17.6	0.00	Initial Readings
	3/12/2004	3:00 PM	13.50	6.52	1,200	0.0	0.8	20.8	0.03	
	3/25/2004	3:40 PM	12.92	5.66	1,325	0.0	1.0	20.8	0.02	
	4/21/2004	1:10 PM	14.66	6.26	230	0.0	0.0	20.7	0.01	
	4/29/2004	10:00 AM	17.89	5.58	680	0.0	0.0	20.8	0.02	
	5/10/2004	11:00 AM	14.62	4.62	230	0.0	0.0	21.0	0.00	
	5/25/2004	8:00 AM	12.47	4.65	230	0.0	2.0	20.5	0.03	
	6/14/2004	10:20 AM	15.73	7.42	210	0.0	1.6	20.6	0.02	
	6/22/2004	4:45 PM	13.68	6.23	315	0.0	1.2	20.7	0.10	
	7/1/2004	10:30 AM	15.90	5.49	190	1.0	0.0	20.6	0.02	
	7/28/2004	4:00 PM	15.89	4.96	230	0.0	0.0	20.3	0.02	
	8/4/2004	12:30 PM	16.50	4.86	110	0.0	0.0	20.4	0.02	
	8/30/2004	10:40 AM	16.42	4.2	310	0.0	0.0	20.3	0.03	
	9/11/2004	10:30 AM	16.53	3.89	250	0.0	0.0	20.4	0.02	
	9/20/2004	11:30 PM	17.08	3.64	210	0.0	0.4	20.4	0.02	
	10/13/2004	9:05 AM	16.95	4.82	120	0.0	0.0	20.9	0.01	

Table 3
Tesoro Station 67062
7898 Old Redwood Hwy
Cotati, California
Ozone Sparge System Field Parameters

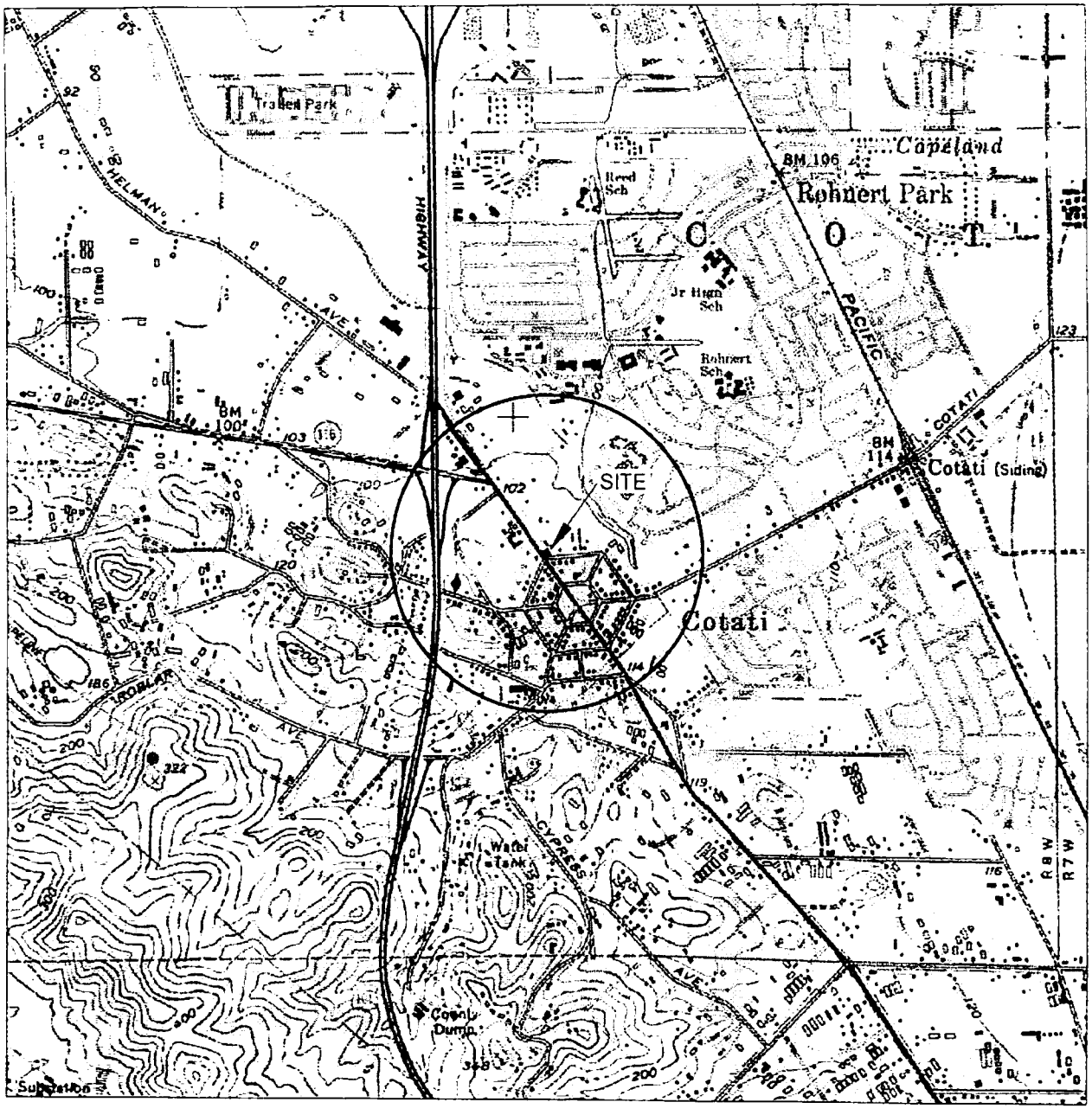
Well No.	Date	Time	DTW (ft.)	D.O. (ppm)	CO_2 (ppm)	LEL (%)	PID (ppm)	O_2 (ppm)	Ozone (ppm)	Notes
RW-3A	2/17/2004	10:00 AM	19.66	2.0	355	0.0	150	19.9	0.00	Initial Readings
	3/12/2004	3:00 PM	21.80	3.2	1,800	0.0	122	17.0	0.02	
	3/25/2004	3:40 PM	20.10	3.5	1,650	0.0	118	20.9	0.06	
	4/21/2004	1:10 PM	22.98	0.75	4,080	0.0	129	15.6	0.01	
	4/29/2004	10:00 AM	23.01	1.99	3,950	0.0	145	18.3	0.02	
	5/10/2004	11:00 AM	22.64	2.04	4,200	0.0	175	16.4	0.00	
	5/25/2004	8:00 AM	16.45	7.41	3,100	0.0	84	17.4	0.03	
	6/14/2004	10:20 AM	31.14	2.0	4,000	0.0	90.4	17.4	0.02	
	6/22/2004	4:45 PM	32.24	1.6	3,900	0.0	78	18.6	0.10	
	7/1/2004	10:30 AM	26.74	3.61	4,000	0.0	173	16.6	0.03	
	7/28/2004	4:00 PM	25.67	3.89	4,200	0.0	159	15.3	0.02	
	8/4/2004	12:30 PM	24.86	3.74	5,000	0.0	178	15.6	0.02	
	8/30/2004	10:40 AM	25.21	3.89	5,800	0.0	170	15.8	0.04	
	9/11/2004	10:30 AM	25.90	3.68	4,500	0.0	150	18.6	0.02	
	9/20/2004	11:30 PM	35.46	4.81	4,100	0.0	50.6	19.5	0.02	
	10/13/2004	9:05 AM	24.87	5.04	29,500	19.0	29.2	6.1	0.03	

Table 3
Tesoro Station 67062
7898 Old Redwood Hwy
Cotati, California
Ozone Sparge System Field Parameters

Well No.	Date	Time	DTW (ft.)	D.O. (ppm)	CO_2 (ppm)	LEL (%)	PID (ppm)	O_2 (ppm)	Ozone (ppm)	Notes
VP-3	2/17/2004	10:00 AM	NM	NM	450	1.0	11.0	16.9	0.00	Initial Readings
	3/12/2004	3:00 PM	NM	NM	2,200	1.0	13.0	20.8	0.04	
	3/25/2004	3:40 PM	NM	NM	2,350	2.0	8.0	20.8	0.03	
	4/21/2004	1:10 PM	NM	NM	780	0.0	0.0	27.2	0.01	
	4/29/2004	10:00 AM	NM	NM	1,530	0.0	0.0	28.2	0.01	
	5/10/2004	11:00 AM	NM	NM	810	0.0	0.0	21.0	0.01	
	5/25/2004	8:00 AM	NM	NM	440	0.0	0.0	20.6	0.03	
	6/14/2004	10:20 AM	NM	NM	1,400	0.0	0.0	25.0	0.02	
	6/22/2004	4:45 PM	NM	NM	1,120	0.0	0.0	23.5	0.10	
	7/1/2004	10:30 AM	NM	NM	890	0.0	0.0	28.3	0.02	
	7/28/2004	4:00 PM	NM	NM	1,120	0.0	0.0	26.5	0.02	
	8/4/2004	12:30 PM	NM	NM	1,240	0.0	0.0	29.1	0.02	
	8/30/2004	10:40 AM	NM	NM	1,410	0.0	0.0	26.8	0.02	
	9/11/2004	10:30 AM	NM	NM	1,230	0.0	0.0	25.9	0.02	
	9/20/2004	11:30 PM	NM	NM	1,100	0.0	0.0	26.5	0.02	
	10/13/2004	9:05 AM	NM	NM	2,590	0.0	0.0	29.5	0.02	

Notes:

DTW = Depth to Water
D.O. = Dissolved Oxygen
ppm = Parts Per Million
CO_2 = Carbon Dioxide
LEL = Lower Explosive Limit
PID = Photoionization Detector
O_2 = Oxygen



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

QUADRANGLE LOCATION

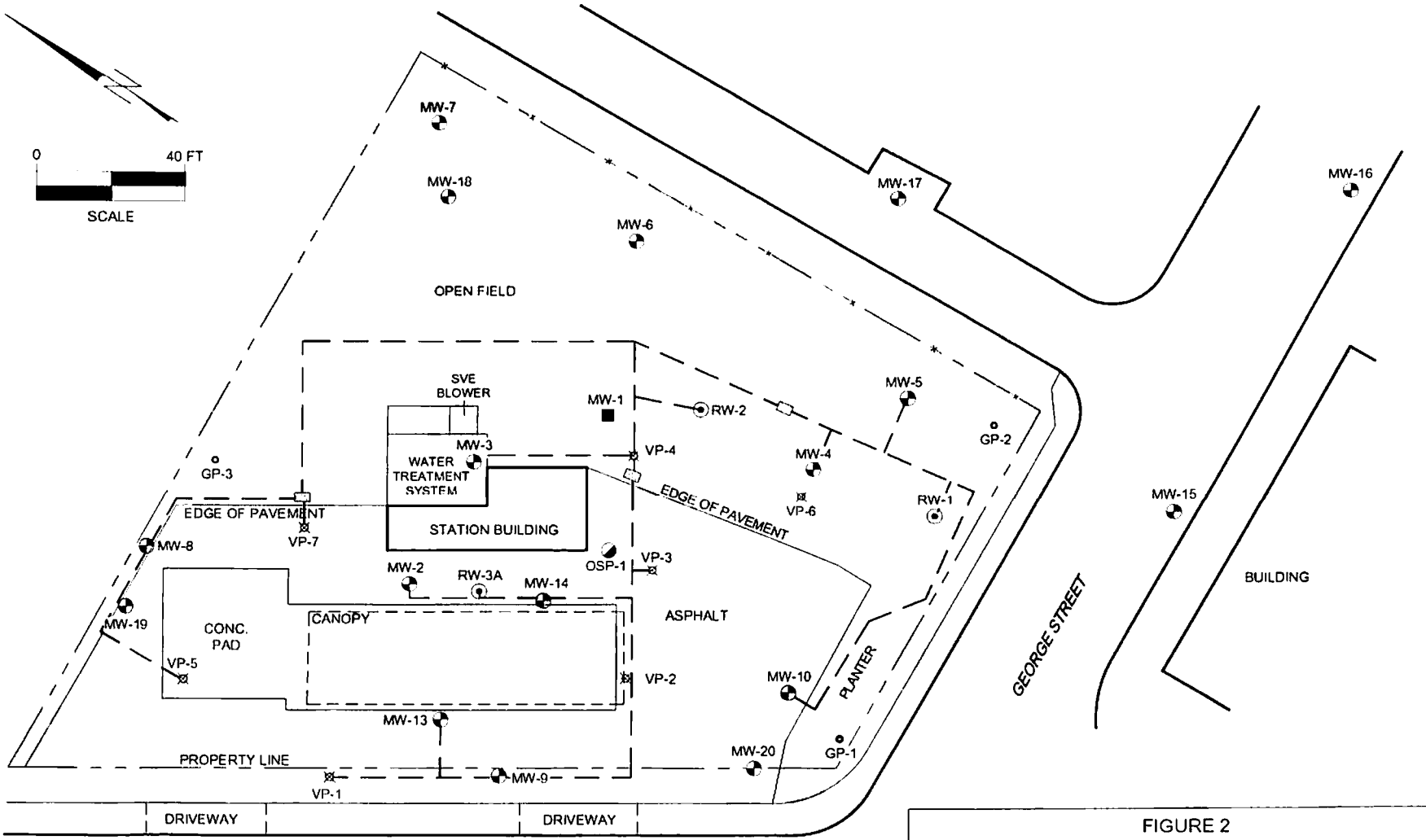
0 2000 FT

SCALE 1:24,000

FIGURE 1
SITE LOCATION MAP
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI,CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 1/3/02
FILE NO. 00-3700-001	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—x——x—	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
▭	PIPING MANIFOLD LOCATION
— — —	UNDERGROUND PIPING LAYOUT
VP-1	VAPOR PROBE LOCATION
GP-4	GEOPROBE LOCATION
OSP-1	OZONE SPARGE POINT LOCATION

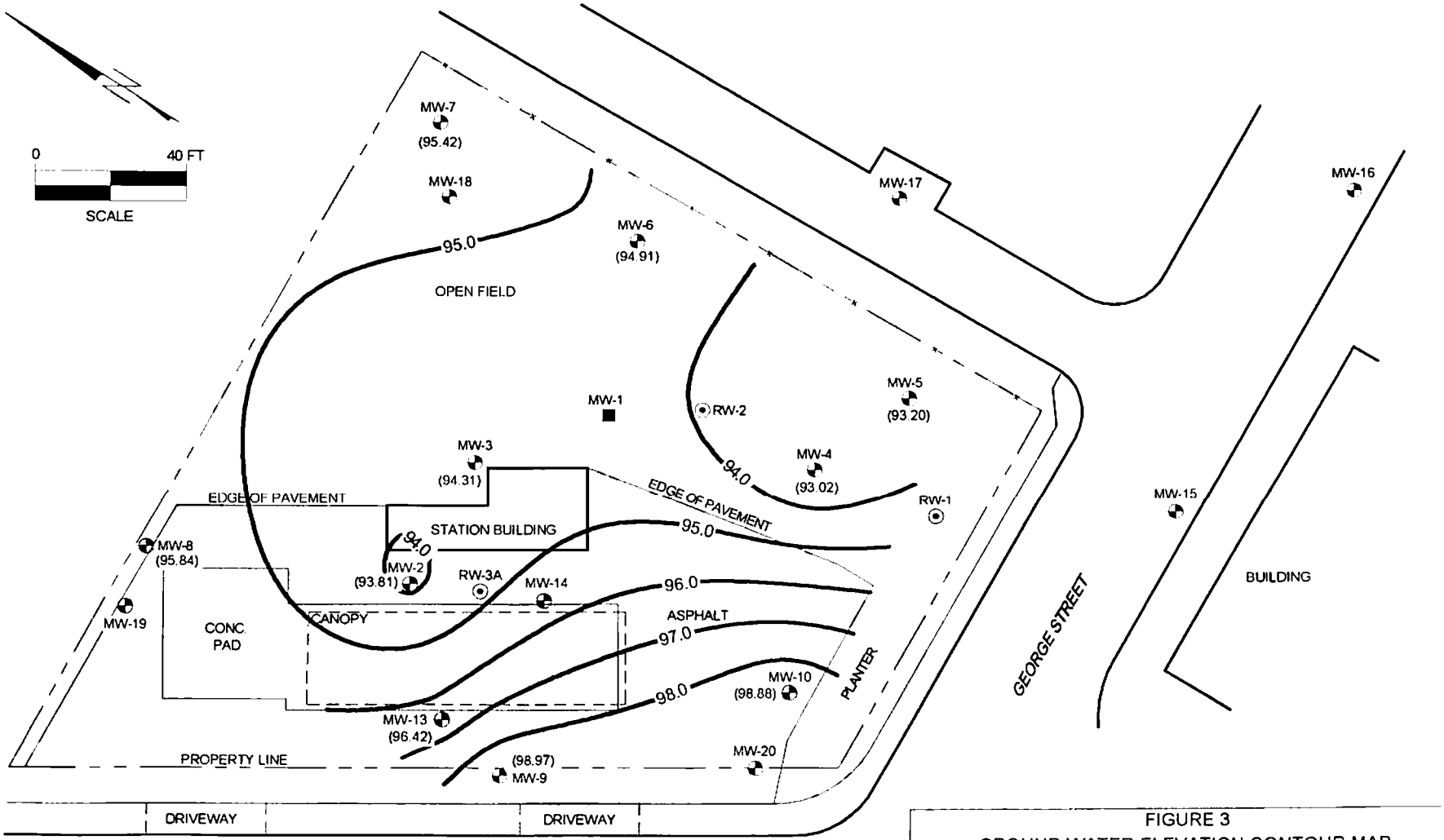
FIGURE 2

SITE MAP

TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 9/29/03
FILE NO. 00-3700-1	PREPARED BY RDM
REVISION NO. 2	REVIEWED BY

RDM Environmental



LEGEND:

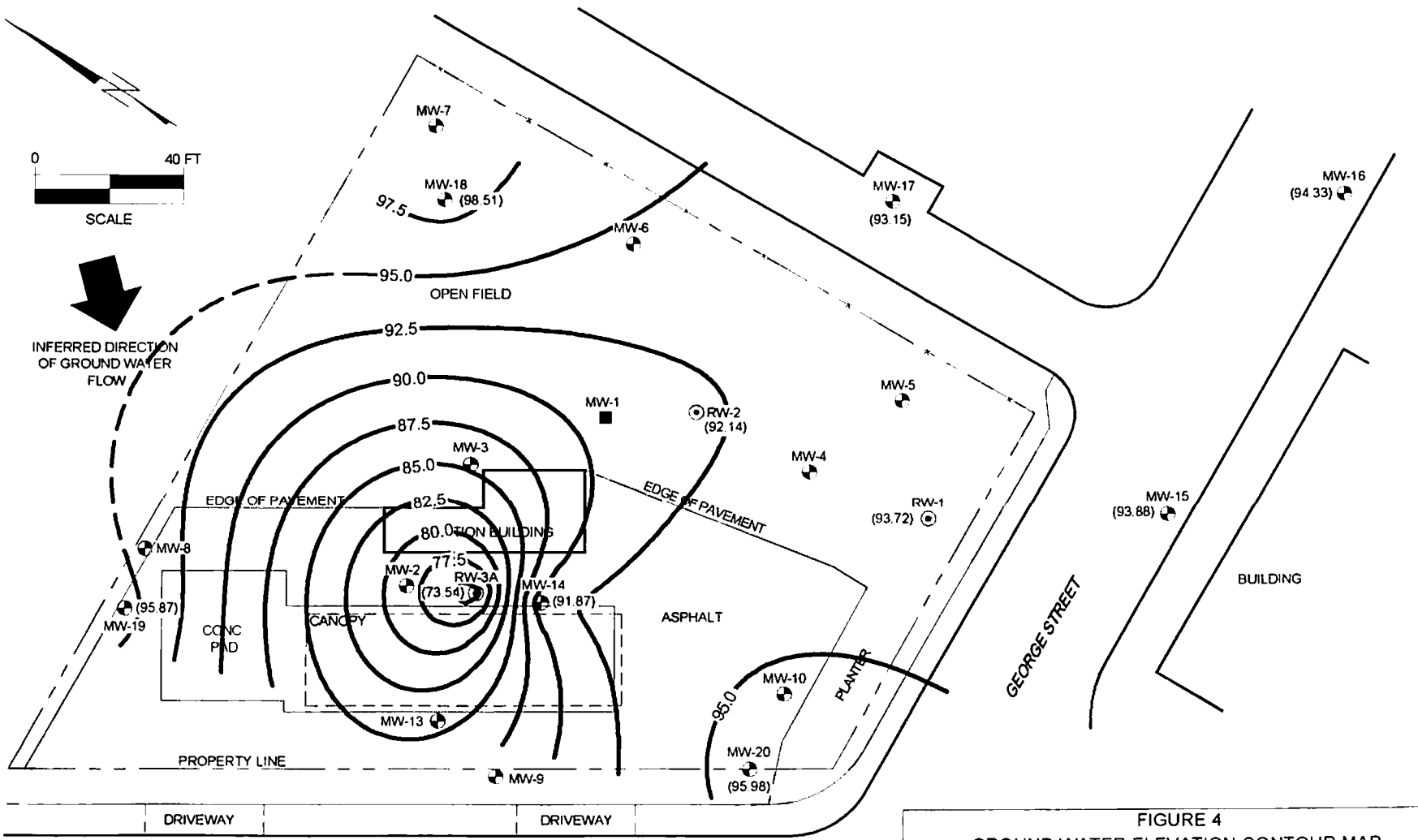
--x——x-	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
(93.81)	GROUND WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL)
—96.0—	WATER TABLE CONTOUR IN FEET ABOVE MSL

INFERRED DIRECTION OF GROUND WATER FLOW

FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
ZONE A - 11/19/04
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 1/24/05
FILE NO 00-3700-1	PREPARED BY RDM
REVISION NO 1	REVIEWED BY

RDM Environmental



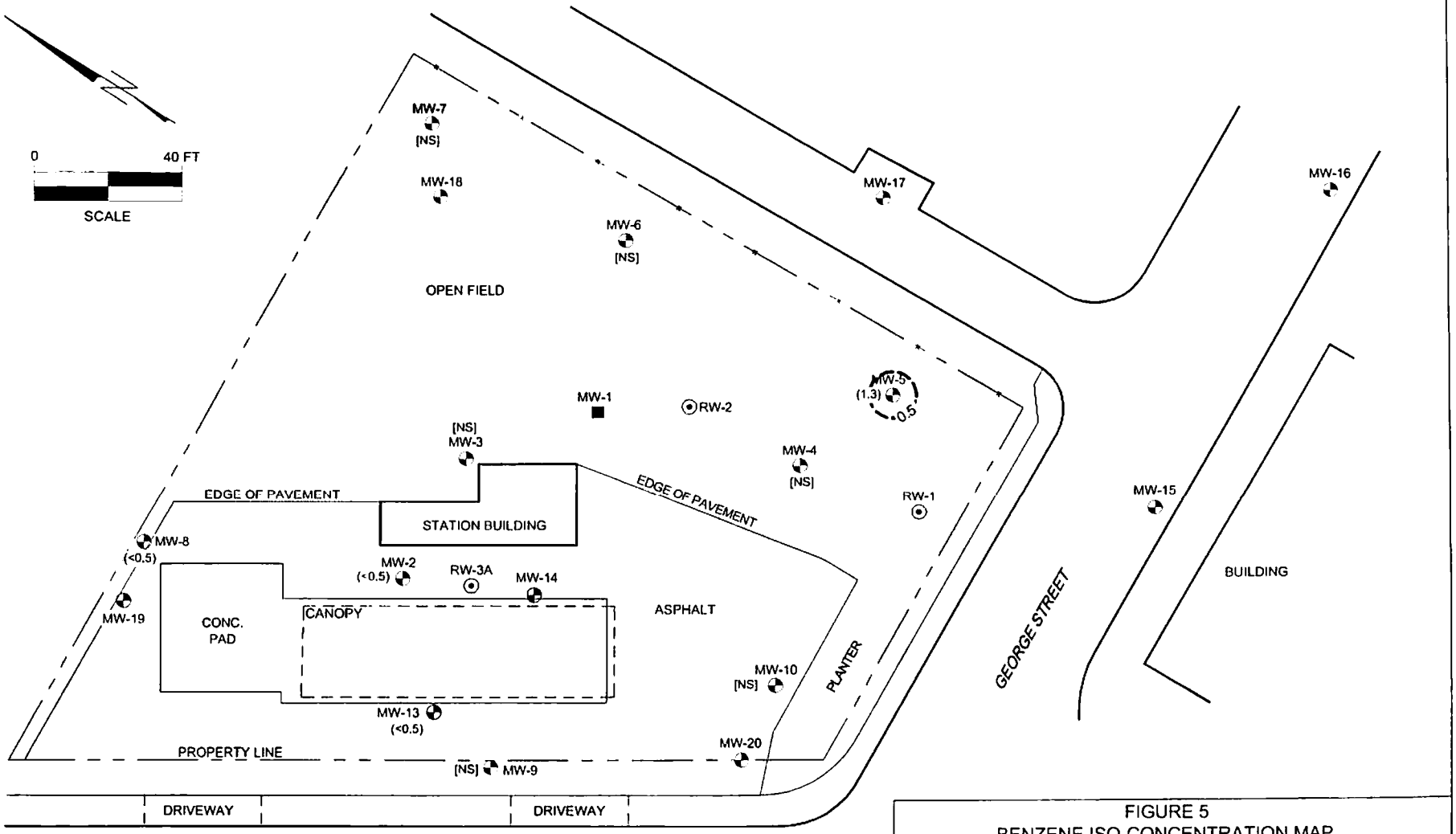
LEGEND:

—x——x—	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
(91.87)	GROUND WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL)
—87.5—	WATER TABLE CONTOUR IN FEET ABOVE MSL

FIGURE 4
GROUND WATER ELEVATION CONTOUR MAP
ZONE B - 11/19/04
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO 00-3700	DRAWN BY M.L. 1/24/05
FILE NO 00-3700-1	PREPARED BY RDM
REVISION NO 1	REVIEWED BY

RDM Environmental



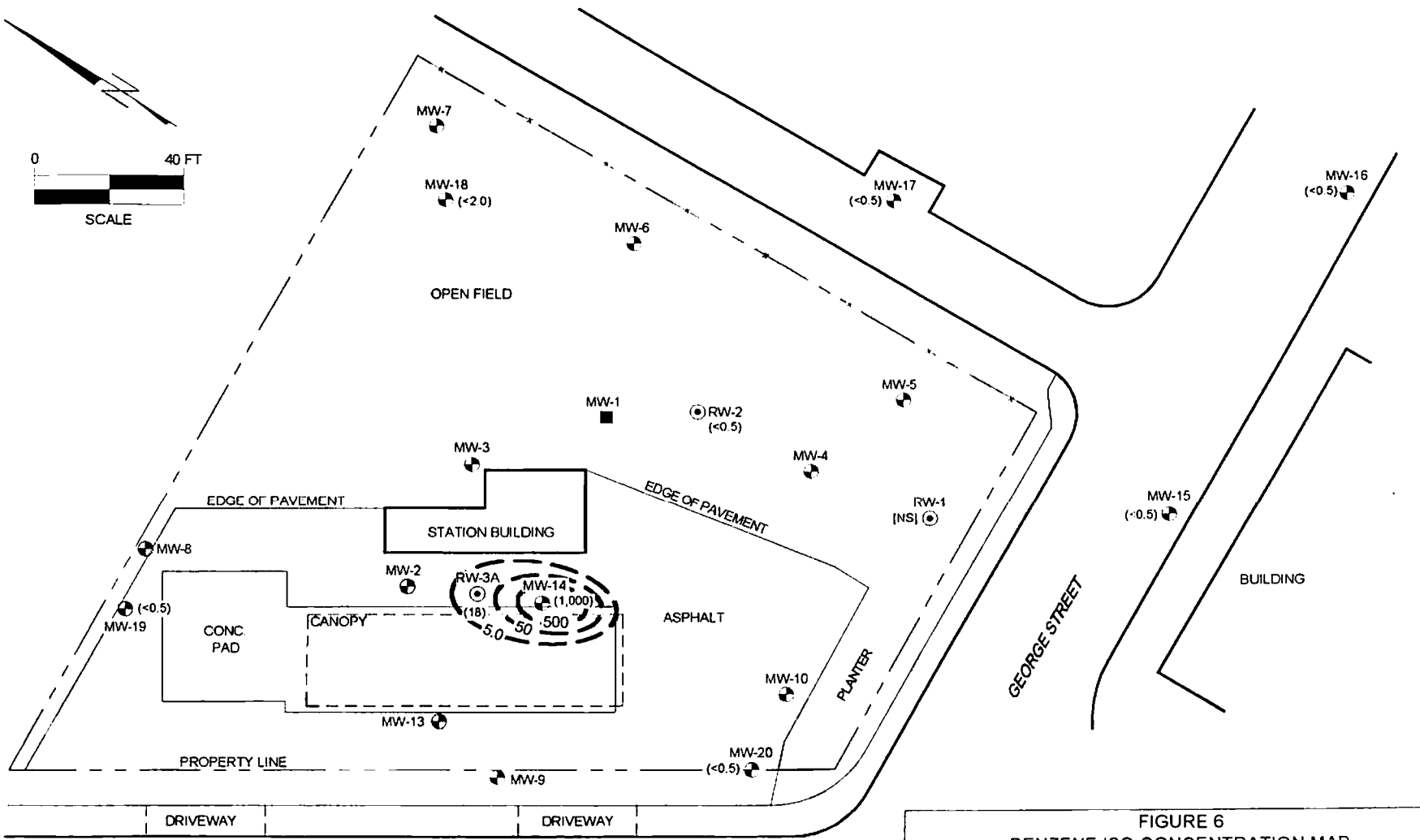
LEGEND:

—x—x—	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
(1.3)	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—0.5—	EQUAL CONCENTRATION OF BENZENE IN GROUNDWATER IN ug/L
[NS]	NOT SAMPLED

FIGURE 5
BENZENE ISO-CONCENTRATION MAP
ZONE A-11/19/04
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 1/24/05
FILE NO. 00-3700-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



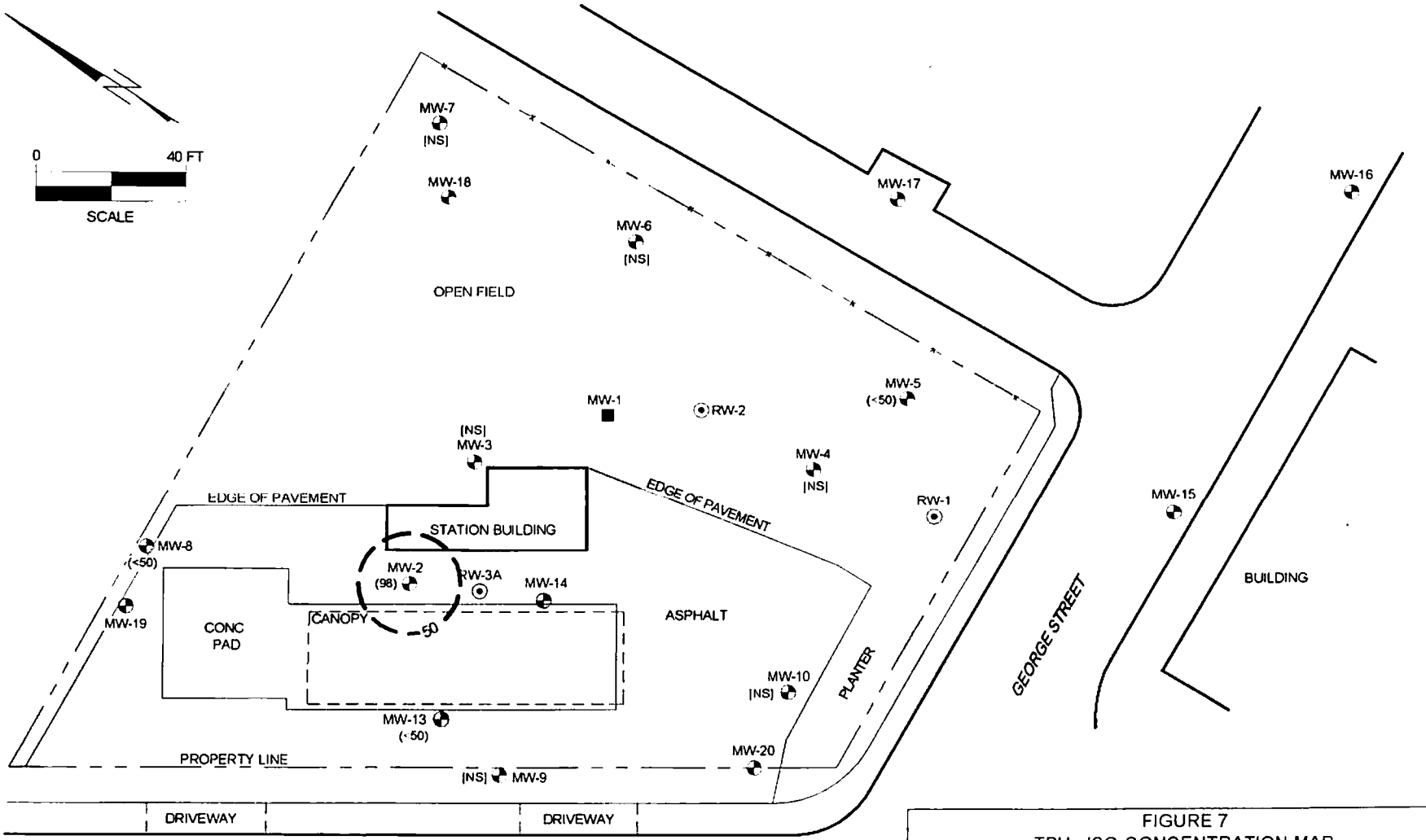
LEGEND:

—x—x—	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
(1,000)	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—— 50 ——	EQUAL CONCENTRATION OF BENZENE IN GROUNDWATER IN ug/L
(NS)	NOT SAMPLED

FIGURE 6
BENZENE ISO-CONCENTRATION MAP
ZONE B-11/19/04
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 1/24/05
FILE NO. 00-3700-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



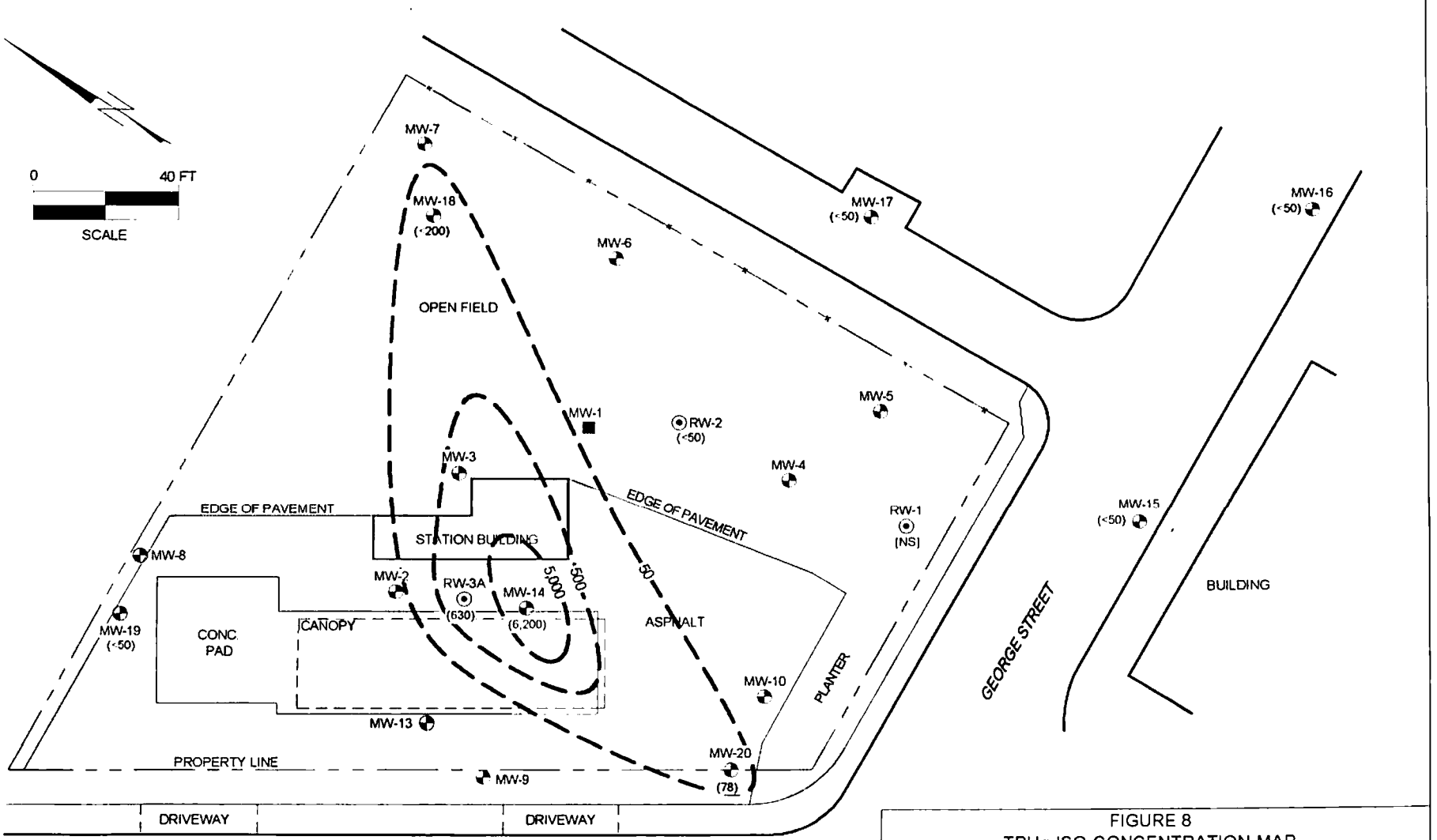
LEGEND:

—x——x—	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
(98)	TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—— 50 ——	EQUAL CONCENTRATION OF TPHg IN GROUNDWATER IN ug/L
[NS]	NOT SAMPLED

FIGURE 7
TPHg ISO-CONCENTRATION MAP
ZONE A -11/19/04
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO 00-3700	DRAWN BY M.L. 1/24/05
FILE NO 00-3700-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



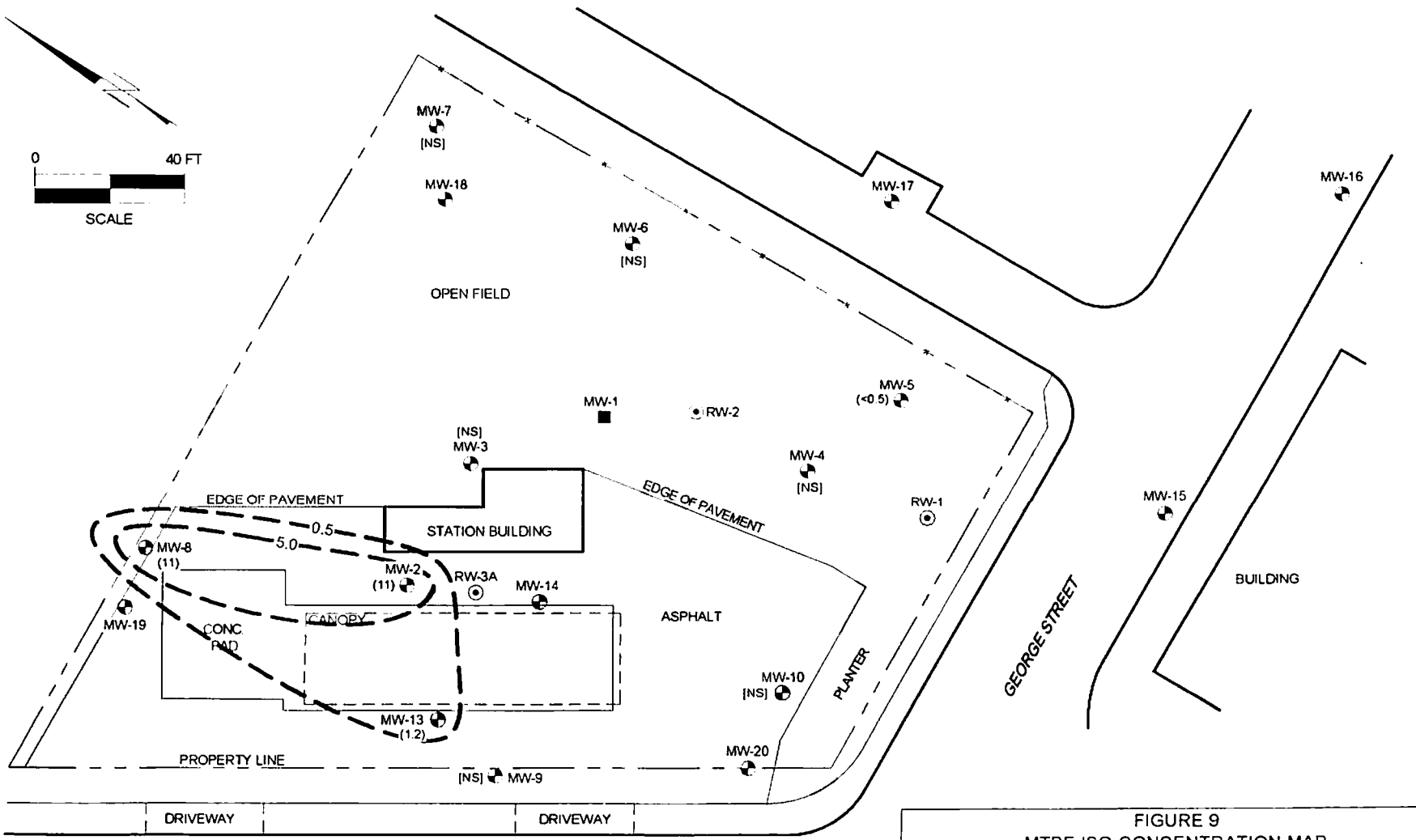
LEGEND

—x—x—	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
(6,200)	TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—• 50 •—	EQUAL CONCENTRATION OF TPHg IN GROUNDWATER IN ug/L
[NS]	NOT SAMPLED

FIGURE 8
TPHg ISO-CONCENTRATION MAP
ZONE B-11/19/04
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO 00-3700	DRAWN BY M.L. 1/24/05
FILE NO. 00-3700-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



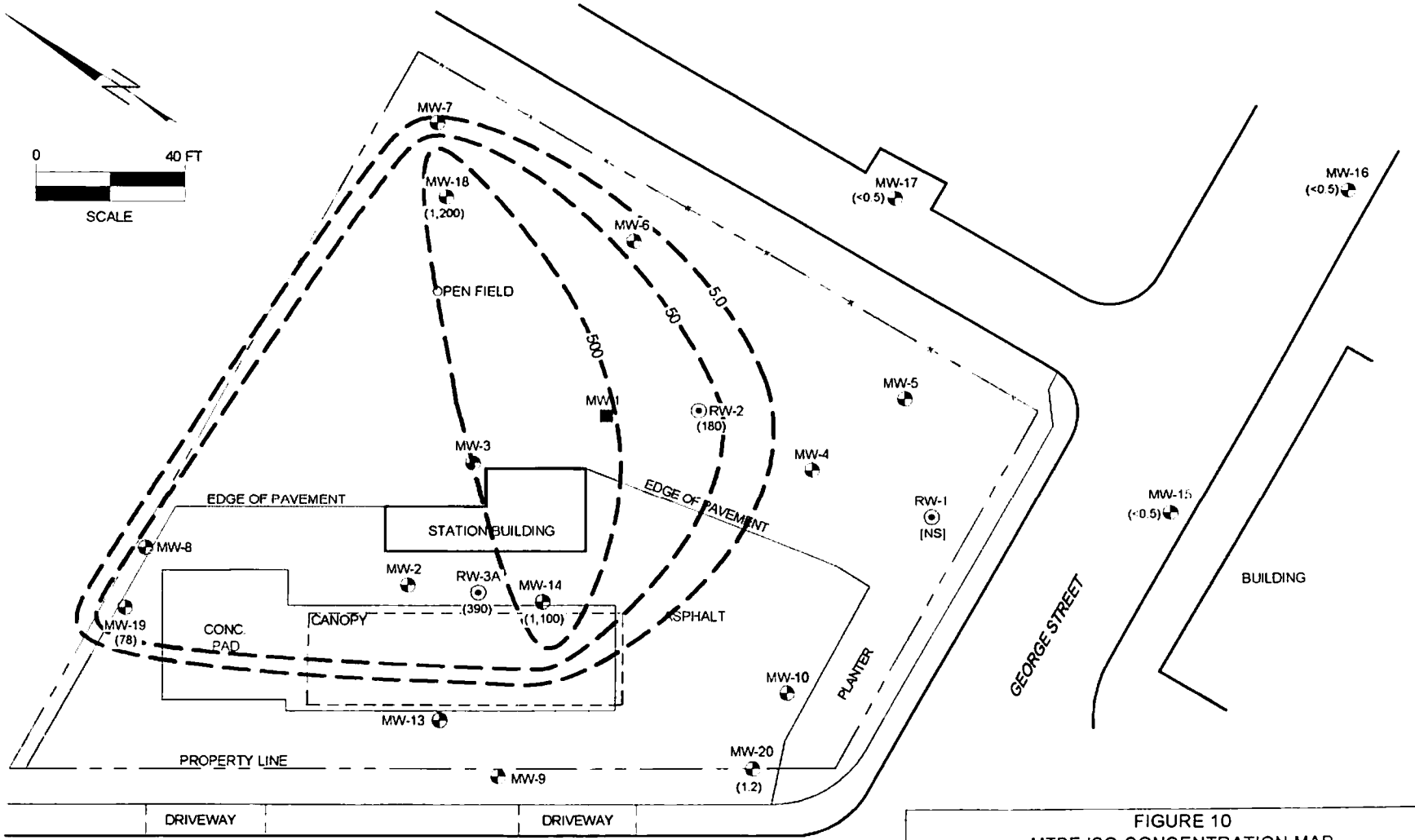
LEGEND:

—x—x—	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
(11)	MTBE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—5.0—	EQUAL CONCENTRATION OF MTBE IN GROUNDWATER IN ug/L
[NS]	NOT SAMPLED

FIGURE 9
MTBE ISO-CONCENTRATION MAP
ZONE A-11/19/04
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 1/24/05
FILE NO. 00-3700-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



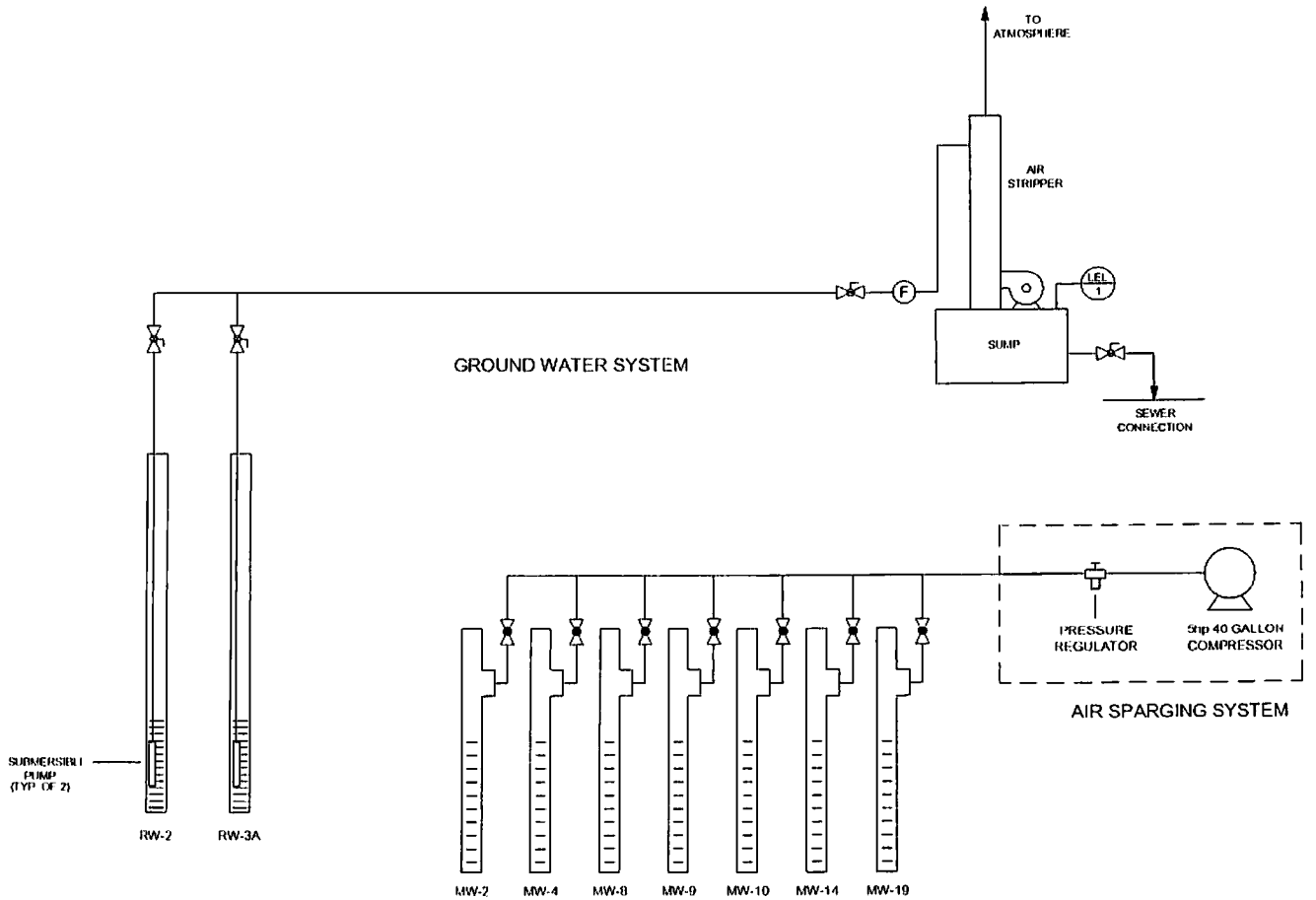
LEGEND:

—x——x—	FENCE
■ MW-1	DESTROYED MONITORING WELL
MW-2	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
(1,200)	MTBE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—50—	EQUAL CONCENTRATION OF MTBE IN GROUNDWATER IN ug/L
[NS]	NOT SAMPLED

FIGURE 10
MTBE ISO-CONCENTRATION MAP
ZONE B -11/19/04
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 1/24/05
FILE NO. 00-3700-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



Source: Figure Modified From Drawing Provided Delta

LEGEND

- LS 1 — LEVEL SWITCH
- BALL VALVE
- F — TOTALIZER FLOW METER
- LEL 1 — LOWER EXPLOSIVE LIMIT METER/SWITCH

CONTROL UNIT	FUNCTION
LS 1	H TRANSFER PUMP START L TRANSFER PUMP STOP
LS 2	HH SHUTS OFF SUBMERSIBLE PUMPS IN RW-2, & RW-3A ON HIGH WATER LEVEL IN HOLDING TANK
LEL 1	SHUTS ENTIRE GROUND WATER SYSTEM OFF IF PRESET LIMIT IS EXCEEDED

Note: Not To Scale

FIGURE 11
PROCESS FLOW DIAGRAM
TESORO STATION NO. 67062
(FORMER BEACON STATION NO. 3700)
7898 OLD REDWOOD HIGHWAY
COTATI, CA.

PROJECT NO. 00-3700	DRAWN BY M.L. 5/25/01
FILE NO. 00-3700-4	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental

ENCLOSURE A

Site Background Information

HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

ULTRAMAR INC.

- July 1990 - Ultramar purchased the site from Conoco Inc. At the time of acquisition, sixteen monitoring/recovery wells were present at the site (RW-1, RW-2, RW-3, MW-2 through MW-10, and MW-13 through MW-17). Kayo Oil Company conducted initial environmental investigations in 1985 as a result of an apparent product line release.

- October 1986 - The single-walled tanks at the site were removed and replaced with double-walled fiberglass tanks. Soil samples from the overexcavated tank pit contained TPHg concentrations from 24 ppm to 5,400 ppm (benzene range: <1 ppm to 11 ppm). Further excavation could not be performed due to the proximity of the tank basin to the station building and canopy footings.

- Late 1990 - Ultramar performed a soil vapor survey and vapor extraction influence study to evaluate the feasibility of vapor extraction technology for the site. The investigation showed elevated vapor levels on the property with the highest levels adjacent to the former tank basin. A 75-foot radius of influence was calculated from the feasibility test data.

- Early 1991 - A groundwater remediation system was installed and was operating at the time of Ultramar's purchase of the property. Ultramar made modifications to the system in an effort to maximize groundwater drawdown.

- May 5, 1991 - Soil vapor extraction utilizing an internal combustion engine (ICE) commenced.

- June 1992 - when hydrocarbon concentrations decreased, a Long Term Ambient Venting System (LTAV), consisting of a 100 scfm blower and associated stack, was permitted and installed at the site.

- September 1993 - An air sparging system was installed at the site. The system injected air into wells MW-3, MW-4 and MW-8.

- July 1996 - Based on telephone conversations with the regional water quality control board, the ground water pumping system was shut off.

- December 1996 - The air sparging system expanded to wells RW-3A, MW-2, MW-14 and MW-19.

- May 6, 1998 - The air-sparging system was restarted. The system injects air into wells MW-2, MW-4, MW-8, MW-9 MW-10, MW-14 and MW-19.

- November 17, 1998 - The groundwater pump-and-treat system was restarted. The system pumps water from recovery wells RW-2 and RW-3A.

- On May 17, 2002, the facility ownership was transferred to Tesoro Petroleum.

- On July 31, and August 1, 2003, RDM representative observed the installation of Geoprobe GP-1 through GP-3 and ozone sparge well OS-1.

- The ozone sparge system was installed during the second week in February 2004 and the long term ozone sparge test was put into operation on February 17, 2004.

HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67062
Former Beacon Station No. 3700
7898 Old Redwood Highway
Cotati, California

- The ozone test conducted on ozone sparge well OS-1 was discontinued on October 13, 2004.

ENCLOSURE B

Ground Water Sampling Information

RDM ENVIRONMENTAL

GROUND WATER LEVEL DATA

Project Address: Tesoro Petroleum No. 67062
7898 Old Redwood Hwy, Cotati CA

Date: 11/19/2004

Technicians : SG/DF

Project Number: 67062

Well Number	Sample Order	Time	Depth to Water	Total Depth	Depth to Product	Product Thickness	Comments
MW-2	9	9:03	14.88	20.98			
MW-3		9:19	14.29	22.2			
MW-4		9:22	14.16	17.5			
MW-5	3	8:36	13.64	23.96			
MW-6		9:27	15.29	20.68			
MW-7		9:28	12.7	21.4			
MW-8	5	8:41	12.7	20.2			
MW-9		9:16	9.72	18.7			
MW-10		9:14	13.35	18.41			
MW-13	4	8:39	11.67	24.14			
MW-14	12	9:11	16.44	35.54			
MW-15	2	8:32	13.89	44.33			
MW-16		9:37	13.28	35.36			
MW-17	1	8:29	12.51	30.1			
MW-18	10	9:05	15.47	42.47			
MW-19	6	8:50	12.62	16.52			

RDM ENVIRONMENTAL

GROUND WATER LEVEL DATA

Project Address: Tesoro Petroleum No. 67062
7898 Old Redwood Hwy, Cotati CA

Date: 11/19/2004

Technicians : SG/DF

Project Number: 67062

Well Number	Sample Order	Time	Depth to Water	Total Depth	Depth to Product	Product Thickness	Comments
MW-20	7	8:53	12.03	40.07			
RW-1		9:26	13.63	35.26			
RW-2	8	8:57	15.67	65.6			
RW-3	11	9:09	35.14	38.84			

RDM ENVIRONMENTAL
GROUND WATER LEVEL DATA

Project Address: Tesoro Petroleum No. 67062
7898 Old Redwood Hwy, Cotati CA

Date: 11/19/2004

Technicians : SG/DF

Project Number: 67062

Well Number	Sample Order	Time	Depth to Water	Total Depth	Depth to Product	Product Thickness	Well Dia	Calc Purge	Comments
MW-2	9	0903	14.88	20.98			2	2.93	
MW-3		0919	14.29	22.2					
MW-4		0922	14.16	17.5					
MW-5	3	0836	13.64	23.96			2	4.45	
MW-6		0927	15.29	20.68					
MW-7		0928	12.70	21.4					
MW-8	5	0841	12.70	20.2			2	3.60	
MW-9		0916	9.72	18.7					
MW-10		0914	13.35	18.41					
MW-13	4	0839	11.67	24.14			2	5.99	
MW-14	12	0911	16.44	35.54			2	9.16	
MW-15	2	0832	13.89	44.33			2	14.61	
MW-16		0937	13.28	35.36					
MW-17	1	0829	12.51	30.1			2	8.44	WATER AND RISER
MW-18	10	0905	15.47	42.47			2	12.96	
MW-19	6	0850	12.62	~~16.52~~ 40.1			2	13.19	Total depth incorrect on work sheet

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-2
Signature:	DK		

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0903 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	A/S line
Height of Riser	4"		
Well Box 8" (12") 24"	Type of well box	Not Marked	

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	2.93
Time:	0903	Time:		Actual Purge	3.0
Depth of Well	20.98	Depth to Water			
Depth to Water	14.88				

Sample

Start Purge	1654	Sample Time	1734

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1657	64.6	860	6.37					1
1719	63.5	854	6.37					2
1728	63.2	856	6.38					3

Sample Appearance	Clear	Lock	NA

Equipment Replacement

Lock	N/A	Well Cap	ok	Bolts	ok	Box	ok

Remarks: Well went dry after each well volume... I let the well recharge for 8min during purge.

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-5
Signature:	[illegible]		

Well Box Condition/Traffic

Traffic Control	Yes (No)	Time	0836 hours
Standing water	Yes (No)	above or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	Yes (No)	Remark:	CAP, NO LOCK
Height of Riser	1"		
Well Box 8" (12") 24"		Type of well box	Morrison Dubuque

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	4.95
Time:	0836	Time:		Actual Purge	5.0
Depth of Well	23.96	Depth to Water			
Depth to Water	13.64				

Sample

Start Purge	1110	Sample Time	1130

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1117	62.6	1283	6.24					1
1122	62.4	1283	6.12					2
1126	62.7	1350	6.17					3

Sample Appearance	CLEAR	Lock	Need 1

Equipment Replacement

Lock	Need 1	Well Cap	OK	Bolts	Need 1	Box	OK

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-8
Signature:	[illegible]		

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0841 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	Air sparge point
Height of Riser	2"		
Well Box 8" (12") 24"	Type of well box	Diversified Well Products	

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	3.60
Time:	0841	Time:		Actual Purge	2.75
Depth of Well	20.2	Depth to Water			
Depth to Water	12.70				

Sample

Start Purge	1210	Sample Time	1312

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1213	66.7	575	6.77					1
1232	67.4	559	7.15					2
1305	64.9	555	7.09					3

Sample Appearance	Clear	Lock	N/A

Equipment Replacement

Lock	N/A	Well Cap	OK	Bolts	Need 2	Box	OK, but too low

Remarks:

Well box lid can not be bolted down. Air sparge cap above well box rim. Well dry after 2.25 gallons. Allowed to recharge for 30 minutes before third reading. Produced only 0.5 gallons

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-13
Signature:	[illegible]		

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0839 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	4"		
Well Box	8" (12") 24"	Type of well box	Not marked

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	5.99
Time:	0839	Time:		Actual Purge	6.0
Depth of Well	24.14	Depth to Water			
Depth to Water	11.67				

Sample

Start Purge	1144	Sample Time	1202

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1148	67.9	653	6.47					1
1153	68.0	686	6.56					2
1159	67.6	671	6.80					3

Sample Appearance	CLEAR	Lock	OK

Equipment Replacement

Lock	OK	Well Cap	OK	Bolts	OK	Box	OK

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-14
Signature:	[illegible]		

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0911 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	1"		
Well Box 8" (12") 24"	Type of well box	Not Marked	

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	9.16
Time:	0911	Time:		Actual Purge	19.0
Depth of Well	35.54	Depth to Water			
Depth to Water	16.44				

Sample

Start Purge	1814	Sample Time	2028

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1822	64.1	1152	6.56					1
1835	64.4	1048	6.03	Time	Temp	EC	PH / 6	2
1900	64.8	896	6.19	1954	64.2	1099	6.59	3
1922	62.0	1148	6.62					4
1933	63.1	1147	6.62					5

Sample Appearance	Clear	Lock	OK

Equipment Replacement

Lock	OK	Well Cap	OK	Bolts	OK	Box	OK

Remarks: Required 6 well volumes to get three consecutive within 10% on EC. The sixth volume readings are written on the same line as the third well volume.

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-15
Signature:	[illegible]		

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0832 hours
Standing water	Yes (No)	above or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	12"		
Well Box (8") 12" 24"		Type of well box	Morrison Dubuque

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	14.61
Time:	0832	Time:		Actual Purge	15
Depth of Well	44.33	Depth to Water			
Depth to Water	13.87				

Sample

Start Purge	1032	Sample Time	1102

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1040	65.6	657	6.55					1
1049	64.9	679	6.44					2
1058	65.3	651	6.47					3

Sample Appearance	CLEAR	Lock	OK

Equipment Replacement

Lock	ok	Well Cap	ok	Bolts	need 1	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-17
Signature:	[illegible]		

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0829 hours
Standing water	(Yes) No	(above) or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	8"		
Well Box 8" (12") 24"		Type of well box	Christy

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	8.44
Time:	0829	Time:		Actual Purge	9.0
Depth of Well	30.1	Depth to Water			
Depth to Water	12.51				

Sample

Start Purge 1000 Sample Time 1014

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1003	64.5	1250	6.62					1
1006	64.6	1249	6.70					2
1009	64.4	1282	6.81					3

Sample Appearance CLEAR Lock OK

Equipment Replacement

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

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-18
Signature:	[illegible]		

Well Box Condition/Traffic

Traffic Control	Yes (No)	Time:	0905 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	20"		
Well Box 8" 12" 24"	Type of well box	6"x6" stand pipe	

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	12.96
Time:	0905	Time:		Actual Purge	13.0
Depth of Well	42.47	Depth to Water			
Depth to Water	15.47				

Sample

Start Purge	1720	Sample Time	1750

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1730	60.7	991	6.71					1
1739	61.8	1026	6.95					2
1746	61.5	982	6.95					3

Sample Appearance	CLEAR	Lock	OK

Equipment Replacement

Lock	OK	Well Cap	OK	Bolts	N/A	Box	OK

Remarks:

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-19
Signature:	[signature]		

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0850 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	A.. Sponge Paint
Height of Riser	2"		
Well Box	(8") 12" 24"	Type of well box	Not Marked

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	13.19
Time:	0850	Time:		Actual Purge	22.0
Depth of Well	40.1	Depth to Water			
Depth to Water	12.60				

Sample

Start Purge 1421 Sample Time 1447

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1428	66.5	680	5.84					1
1432	67.1	702	5.40					2
1436	66.2	612	5.72					3
1440	66.1	657	5.66					4
1444	66.2	653	5.71					5

Sample Appearance CLEAR Lock N/A

Equipment Replacement

Lock N/A Well Cap OK Bolts OK Box OK

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	MW-20
Signature:	[illegible]		

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0853 hours
Standing water	Yes (No)	above or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	0"		
Well Box	(8") 12" 24"	Type of well box	Not marked

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	13.46
Time:	0853	Time:		Actual Purge	14.0
Depth of Well	40.07	Depth to Water			
Depth to Water	12.03				

Sample

Start Purge	1458	Sample Time	1518

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1503	68.9	668	5.98					1
1508	68.9	713	5.96					2
1514	68.9	710	5.98					3

Sample Appearance	Clear	Lock	OK

Equipment Replacement

Lock	OK	Well Cap	OK	Bolts	OK	Box	OK

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	RW-2
Signature:			

Well Box Condition/Traffic

Traffic Control	Yes (No)	Time:	0857 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	Recovery Well
Height of Riser	0"		
Well Box 8" 12" 24"	Type of well box	40.5 X 28.5 Box, Not Marked	

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

approximately 18" corrugated well casing

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

Initial Measurement		Recharge Measurement		Calculated Purge	N/A
Time:	0857	Time:		Actual Purge	3x
Depth of Well	65.6	Depth to Water			
Depth to Water	15.67				

Sample

Start Purge	1555	Sample Time	1635

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
1608	64.7	1041	6.89					10 gal
1616	65.0	1042	6.95					20 gal
1631	64.9	1045	7.02					30 gal

Sample Appearance	CLEAR	Lock	N/A.

Equipment Replacement

Lock	N/A	Well Cap	ok	Bolts	need 4	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro Petroleum	Sample Data:	11/19/2004
Site:	Tesoro Petroleum No 67062	Project Number:	67062
	7898 Old Redwood Highway, Cotati, CA	**Well Designation:**	RW-3
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0909 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	Recovery well
Height of Riser	4"		
Well Box 8" 12" 24" (36")		Type of well box	Pomeco

Purging/Sampling Equipment

Purging - N/A

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	N/A
Time:	0909	Time:		Actual Purge	N/A
Depth of Well	38.84	Depth to Water			
Depth to Water	35.14				

Sample

Start Purge	N/A	Sample Time	1830

Time	Temperature	E.C.	pH	ORP	Turbidity			Volume
				N/A				

Sample Appearance	CLOUDY	Lock	N/A

Equipment Replacement

Lock	N/A	Well Cap	OK	Bolts	OK	Box	OK

Remarks: No purge, active recovery well

ENCLOSURE C

Ground Water Analytical Results

KIFF ANALYTICAL LLC

Report Number : 41136
Date : 12/1/2004

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 12 Water Samples
Project Name : 67062
Project Number : 67062

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

KIFF ANALYTICAL LLC

Report Number : 41136
Date : 12/1/2004

Subject : 12 Water Samples
Project Name : 67062
Project Number : 67062

Case Narrative

Tert-Butanol results for sample RW-2 may be biased slightly high and are flagged with a 'J'. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. We consider this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 20:1.

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-2** Matrix : Water Lab Number : 41136-01

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**11**	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**200**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**98**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-5** Matrix : Water Lab Number : 41136-02

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.3**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-8** Matrix : Water Lab Number : 41136-03

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**11**	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-13** Matrix : Water Lab Number : 41136-04

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**1.2**	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-14** Matrix : Water Lab Number : 41136-05

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1000**	3.0	ug/L	EPA 8260B	12/1/2004
Toluene	**120**	0.50	ug/L	EPA 8260B	12/1/2004
Ethylbenzene	**81**	0.50	ug/L	EPA 8260B	12/1/2004
Total Xylenes	**320**	0.50	ug/L	EPA 8260B	12/1/2004
Methyl-t-butyl ether (MTBE)	**1100**	3.0	ug/L	EPA 8260B	12/1/2004
Diisopropyl ether (DIPE)	**0.94**	0.50	ug/L	EPA 8260B	12/1/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Tert-amyl methyl ether (TAME)	**0.61**	0.50	ug/L	EPA 8260B	12/1/2004
Tert-Butanol	**900**	5.0	ug/L	EPA 8260B	12/1/2004
TPH as Gasoline	**6200**	300	ug/L	EPA 8260B	12/1/2004
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	12/1/2004
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/1/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-15** Matrix : Water Lab Number : 41136-06

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	12/1/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/1/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/1/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/1/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-17** Matrix : Water Lab Number : 41136-07

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-18** Matrix : Water Lab Number : 41136-08

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**1200**	2.5	ug/L	EPA 8260B	12/1/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**0.54**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-19** Matrix : Water Lab Number : 41136-09

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**78**	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	97.8		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **MW-20** Matrix : Water Lab Number : 41136-10

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**0.53**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**1.2**	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**78**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **RW-2** Matrix : Water Lab Number : 41136-11

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**180**	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**8.2 J**	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41136

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Sample : **RW-3** Matrix : Water Lab Number : 41136-12

Sample Date :11/19/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**18**	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	**0.91**	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	**1.7**	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	**5.4**	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	**390**	1.5	ug/L	EPA 8260B	12/1/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	**2900**	7.0	ug/L	EPA 8260B	12/1/2004
TPH as Gasoline	**630**	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	11/30/2004

Approved By: Joel Kiff

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

Report Number : 41136

Date : 12/1/2004

QC Report : Method Blank Data

Project Name : **67062**

Project Number : **67062**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/1/2004
Toluene - d8 (Surr)	98.4		%	EPA 8260B	12/1/2004
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	12/1/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	101		%	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	11/30/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	99.8		%	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	11/30/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/1/2004
Toluene - d8 (Surr)	101		%	EPA 8260B	12/1/2004
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	12/1/2004

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41136

Date : 12/1/2004

QC Report : Method Blank Data

Project Name : **67062**

Project Number : **67062**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	96.9		%	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	98.3		%	EPA 8260B	11/30/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/30/2004
Toluene - d8 (Surr)	100		%	EPA 8260B	11/30/2004
4-Bromofluorobenzene (Surr)	98.8		%	EPA 8260B	11/30/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41136

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

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	41185-02	<0.50	40.0	40.0	40.2	39.8	ug/L	EPA 8260B	12/1/04	100	99.4	1.06	70-130	25
Toluene	41185-02	<0.50	40.0	40.0	39.8	39.1	ug/L	EPA 8260B	12/1/04	99.4	97.7	1.71	70-130	25
Tert-Butanol	41185-02	<5.0	200	200	190	194	ug/L	EPA 8260B	12/1/04	95.3	97.2	2.01	70-130	25
Methyl-t-Butyl Ether	41185-02	<0.50	40.0	40.0	39.8	39.8	ug/L	EPA 8260B	12/1/04	99.6	99.4	0.181	70-130	25
Benzene	41163-01	<0.50	40.0	40.0	41.4	40.3	ug/L	EPA 8260B	11/30/04	104	101	2.87	70-130	25
Toluene	41163-01	<0.50	40.0	40.0	42.2	41.4	ug/L	EPA 8260B	11/30/04	106	103	2.02	70-130	25
Tert-Butanol	41163-01	<5.0	200	200	213	211	ug/L	EPA 8260B	11/30/04	106	105	1.12	70-130	25
Methyl-t-Butyl Ether	41163-01	13	40.0	40.0	58.4	57.4	ug/L	EPA 8260B	11/30/04	114	111	2.14	70-130	25
Benzene	41165-01	<0.50	40.0	40.0	41.6	39.3	ug/L	EPA 8260B	11/30/04	104	98.2	5.87	70-130	25
Toluene	41165-01	<0.50	40.0	40.0	42.5	40.8	ug/L	EPA 8260B	11/30/04	106	102	3.98	70-130	25
Tert-Butanol	41165-01	<5.0	200	200	212	211	ug/L	EPA 8260B	11/30/04	106	106	0.667	70-130	25
Methyl-t-Butyl Ether	41165-01	<0.50	40.0	40.0	44.6	42.9	ug/L	EPA 8260B	11/30/04	111	107	3.89	70-130	25
Benzene	41187-02	<0.50	40.0	40.0	40.3	38.7	ug/L	EPA 8260B	12/1/04	101	96.9	3.85	70-130	25
Toluene	41187-02	<0.50	40.0	40.0	41.5	39.7	ug/L	EPA 8260B	12/1/04	104	99.2	4.55	70-130	25
Tert-Butanol	41187-02	<5.0	200	200	207	209	ug/L	EPA 8260B	12/1/04	103	104	1.18	70-130	25
Methyl-t-Butyl Ether	41187-02	0.55	40.0	40.0	44.4	43.6	ug/L	EPA 8260B	12/1/04	110	108	1.68	70-130	25
Benzene	41136-01	<0.50	40.0	40.0	41.8	40.6	ug/L	EPA 8260B	11/30/04	105	102	3.03	70-130	25
Toluene	41136-01	<0.50	40.0	40.0	41.1	39.9	ug/L	EPA 8260B	11/30/04	103	99.8	2.79	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41136

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

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
Tert-Butanol	41136-01	200	200	200	418	417	ug/L	EPA 8260B	11/30/04	106	106	0.475	70-130	25
Methyl-t-Butyl Ether	41136-01	11	40.0	40.0	52.6	52.0	ug/L	EPA 8260B	11/30/04	104	103	1.29	70-130	25
Benzene	41146-01	<0.50	40.0	40.0	39.0	39.0	ug/L	EPA 8260B	11/30/04	97.4	97.5	0.0494	70-130	25
Toluene	41146-01	<0.50	40.0	40.0	40.1	40.1	ug/L	EPA 8260B	11/30/04	100	100	0.0811	70-130	25
Tert-Butanol	41146-01	<5.0	200	200	199	200	ug/L	EPA 8260B	11/30/04	99.4	100	0.897	70-130	25
Methyl-t-Butyl Ether	41146-01	<0.50	40.0	40.0	36.0	36.6	ug/L	EPA 8260B	11/30/04	89.9	91.6	1.83	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41136

QC Report : Laboratory Control Sample (LCS)

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/1/04	100	70-130
Toluene	40.0	ug/L	EPA 8260B	12/1/04	99.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/1/04	94.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/1/04	97.5	70-130
Benzene	40.0	ug/L	EPA 8260B	11/30/04	102	70-130
Toluene	40.0	ug/L	EPA 8260B	11/30/04	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/30/04	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/30/04	113	70-130
Benzene	40.0	ug/L	EPA 8260B	11/30/04	102	70-130
Toluene	40.0	ug/L	EPA 8260B	11/30/04	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/30/04	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/30/04	111	70-130
Benzene	40.0	ug/L	EPA 8260B	12/1/04	102	70-130
Toluene	40.0	ug/L	EPA 8260B	12/1/04	99.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/1/04	99.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/1/04	110	70-130
Benzene	40.0	ug/L	EPA 8260B	11/30/04	103	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41136

QC Report : Laboratory Control Sample (LCS)

Date : 12/1/2004

Project Name : **67062**

Project Number : **67062**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	11/30/04	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/30/04	97.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/30/04	102	70-130
Benzene	40.0	ug/L	EPA 8260B	11/30/04	97.7	70-130
Toluene	40.0	ug/L	EPA 8260B	11/30/04	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/30/04	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/30/04	95.4	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

KIFF ANALYTICAL LLC

Analysis Summary

Report Number : 41136

Date : 12/1/2004

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

Project Name :67062
Project Number : 67062

		Sample Name	MW-2		MW-5		MW-8		MW-13		MW-14		MW-15		MW-17		MW-18	
		Sample Date	11/19/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	1.3	0.50	ND	0.50	ND	3.0	1000	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	120	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	81	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	320	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	11	0.50	ND	0.50	11	0.50	1.2	3.0	1100	0.50	ND	0.50	ND	2.5	1200
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	0.94	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	0.61	0.50	ND	0.50	ND	0.50	0.54
Tert-Butanol	EPA 8260B	ug/L	5.0	200	5.0	ND	5.0	ND	5.0	ND	5.0	900	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	98	50	ND	50	ND	50	ND	300	6200	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		97.6		102		102		102		97.8		100		102		100
4-Bromofluorobenzene (Surr)	EPA 8260B	%		99.3		101		101		101		104		102		99.0		98.8

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

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

KIFF ANALYTICAL LLC

Analysis Summary

Report Number : 41136
Date : 12/1/2004

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

Project Name :67062
Project Number : 67062

		Sample Name	MW-19		MW-20		RW-2		RW-3	
		Sample Date	11/19/2004		11/19/2004		11/19/2004		11/19/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	**18**
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	**0.91**
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	**0.53**	0.50	ND	0.50	**1.7**
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	**5.4**
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	**78**	0.50	**1.2**	0.50	**180**	1.5	**390**
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND	5.0	ND	5.0	**8.2 J**	7.0	**2900**
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	**78**	50	ND	50	**630**
Toluene - d8 (Surr)	EPA 8260B	%		100		101		101		102
4-Bromofluorobenzene (Surr)	EPA 8260B	%		97.8		98.4		97.2		99.1

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

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

KIFF ANALYTICAL LLC

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

Lab No. 41136 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Munsch

California EDF Report? ☐ Yes ☐ No

Company/Address: RDM Environmental

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

Phone No.: 916 771 7098
FAX No.: 916 771 4584

Global ID: T0609700002

Project Number: 67062
P.O. No:

EDF Deliverable To (Email Address):

Project Name: 67062

Sampler Signature: D Hoff.

Project Address: 7898 Old Redwood Hwy Cotati.

Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	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
MW-2	11/19/04	1734	3		X		X		X							X									-01
MW-5	11/19/04	1130	3		X		X		X							X									-02
MW-8	11/19/04	1312	3		X		X		X							X									-03
MW-13	11/19/04	1202	3		X		X		X							X									-04
MW-14	11/19/04 ~~2028~~	2028	3		X		X		X							X									-05
MW-15	11/19/04	1102	3		X		X		X							X									-06
MW-17	11/19/04	1014	3		X		X		X							X									-07
MW-18	11/19/04	1750	3		X		X		X							X									-08
MW-19	11/19/04	1447	3		X		X		X							X									-09
MW-20	11/19/04	1518	3		X		X		X							X									-10

Relinquished by:	Date	Time	Received by:	Remarks:
Douglas Hoff				STAT
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 112304	Time 1005	Received by Laboratory: Robert C Prohm KIFF ANALYTICAL	Bill to: Tesoro Pet / Rob Donovan

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

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

Lab No. 41136

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Munsott

Company/Address: RDM Environmental

Phone No.: 916 771 7098

FAX No.: 916-771 4584

Project Number: 67062

P.O. No:

Project Name: 67062

Project Address: 7898 Old Redwood Hwy Cotat.

California EDF Report? ☐ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: - - -

Global ID: T0609700002

EDF Deliverable To (Email Address):

Sampler Signature: Doug Hoff

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	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
RW-2	11/19/04	1635	3		X		X		X							X									-11
RW-3	11/19/04	1830	3		X		X		X							X									-12

Relinquished by:	Date	Time	Received by:
Douglas Hoff			
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	112304	1005	Robert C Parkell Kiff Analytical

Remarks: STAT

Bill to: Tesoro / Rob Donovan

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

ENCLOSURE D

Historical Ground Water Monitoring Data

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth[3]	Comments
MW-1	05/25/93[4]					
MW-2	02/15/96	106.58	10.04	96.54	---	No free product/no sheen
	05/29/96		11.13	95.45	---	No free product/no sheen
	08/15/96		14.05	92.53	---	No free product/no sheen
	11/20/96		16.73	89.85	---	No free product/no sheen
	02/27/97		9.18	97.40	---	No free product/no sheen
	05/30/97		12.79	93.79	22.10	
	07/30/97		15.25	91.33	22.10	
	12/04/97		13.99	92.59	22.11	
	02/17/98		5.51	101.07	22.12	
	05/18/98		10.29	96.29	22.16	
MW-3	02/15/96	105.99	10.40	95.59	---	No free product/no sheen
	05/29/96		11.69	94.30	---	No free product/no sheen
	08/15/96		11.82	94.17	---	No free product/no sheen
	11/20/96		17.36	88.63	---	No free product/no sheen
	02/27/97		9.15	69.84	---	No free product/no sheen
	05/30/97		13.06	92.93	22.20	
	07/30/97		15.40	90.59	22.22	
	12/04/97		14.20	91.79	22.22	
	02/17/98		4.98	101.01	22.25	
	05/18/98		8.89	97.10	22.25	
MW-4	02/15/96	104.52	12.31	92.21	---	No free product/no sheen
	05/29/96		12.83	91.69	---	No free product/no sheen
	08/15/96		16.22	88.30	---	No free product/no sheen
	11/20/96		---	----	---	Well Dry
	02/27/97		8.73	95.79	---	No free product/no sheen
	05/30/97		13.49	91.03	17.45	
	07/30/97		15.58	88.94	17.45	
	12/04/97		14.23	90.29	17.43	
	02/17/98		4.52	100.00	17.41	
	05/18/98		8.12	96.40	17.40	

NOTES:
1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation refrenced to mean sea level.
Well Depth [3] = Measurement from top of casing to bottom of well.
4 = Well destroyled.
5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)
--- = Not measured/not observed.
** = Well has been dry or not listed for sampling since 3/92.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth[3]	Comments
MW-5	02/15/96	104.91	14.14	90.77	---	No free product/no sheen
	05/29/96		13.07	91.84	---	No free product/no sheen
	08/15/96		15.70	89.21	---	No free product/no sheen
	11/20/96		19.27	85.64	---	No free product/no sheen
	02/27/97		9.66	95.25	---	No free product/no sheen
	05/30/97		13.77	91.14	23.97	
	07/30/97		16.17	88.74	23.96	
	12/04/97		17.10	87.81	23.98	
	02/17/98		4.38	100.53	20.71	
	05/18/98		7.95	96.96	23.97	
MW-6	02/15/96	107.81	12.16	95.65	---	No free product/no sheen
	05/29/96		14.57	93.24	---	No free product/no sheen
	08/15/96		16.74	91.07	---	No free product/no sheen
	11/20/96		---	---	---	Well Dry
	02/27/97		11.82	95.99	---	No free product/no sheen
	05/30/97		15.65	92.16	20.71	
	07/30/97		17.02	90.79	20.71	
	12/04/97		15.01	92.80	20.70	
	02/17/98		7.01	100.80	20.71	
	05/18/98		9.50	98.31	20.71	
MW-7	02/15/96	106.31	9.52	96.79	---	No free product/no sheen
	05/29/96		10.72	95.59	---	No free product/no sheen
	08/15/96		13.89	92.49	---	No free product/no sheen
	11/20/96		17.64	88.67	---	Well Dry
	02/27/97		9.54	96.77	---	No free product/no sheen
	05/30/97		12.85	93.46	21.45	
	07/30/97		15.15	91.16	21.45	
	12/04/97		13.83	92.48	21.45	
	02/17/98		6.44	99.87	21.45	
	05/18/98		9.29	97.02	21.46	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation refrenced to mean sea level.
Well Depth [3] = Measurement from top of casing to bottom of well.
4 = Well destroyed.
5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)
--- = Not measured/not observed.
** = Well has been dry or not listed for sampling since 3/92.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth[3]	Comments
MW-8	02/15/96	106.50	8.61	97.89	---	No free product/no sheen
	05/29/96		10.08	96.42	---	No free product/no sheen
	08/15/96		13.34	93.16	---	No free product/no sheen
	11/20/96		16.09	90.41	---	No free product/no sheen
	02/27/97		8.92	97.58	---	No free product/no sheen
	05/30/97		11.99	94.51	18.45	
	07/30/97		14.36	92.14	18.45	
	12/04/97		8.82	97.68	18.46	
	02/17/98		3.59	102.91	18.46	
	05/18/98		8.55	97.95	18.47	
MW-9	02/15/96	106.25	8.87	97.38	---	No free product/no sheen
	05/29/96		9.50	96.75	---	No free product/no sheen
	08/15/96		12.74	93.51	---	No free product/no sheen
	11/20/96		15.31	90.94	---	No free product/no sheen
	02/27/97		8.25	98.00	---	No free product/no sheen
	05/30/97		11.51	94.74	18.59	
	07/30/97		14.13	92.12	18.56	
	12/04/97		12.64	93.61	18.57	
	02/17/98		3.48	102.77	18.57	
	05/18/98		7.65	98.60	18.56	
MW-10	02/15/96	106.47	12.05	94.42	---	No free product/no sheen
	05/29/96		11.64	94.83	---	No free product/no sheen
	08/15/96		15.11	91.36	---	No free product/no sheen
	11/20/96		17.13	89.34	---	No free product/no sheen
	02/27/97		9.66	96.81	---	No free product/no sheen
	05/30/97		13.67	92.80	18.42	
	07/30/97		16.04	90.43	18.43	
	12/04/97		15.90	90.57	18.44	
	02/17/98		6.29	100.18	18.42	
	05/18/98		9.16	97.31	18.44	
MW-12	05/25/93[4]					

NOTES:
1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation refrenced to mean sea level.
Well Depth [3] = Measurement from top of casing to bottom of well.
4 = Well destroyed.
5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)
--- = Not measured/not observed.
** = Well has been dry or not listed for sampling since 3/92.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth[3]	Comments
MW-13	02/15/96	106.01	8.55	97.46	---	No free product/no sheen
	05/29/96		9.42	96.59	---	No free product/no sheen
	08/15/96		12.63	93.38	---	No free product/no sheen
	11/20/96		15.21	90.80	---	No free product/no sheen
	02/27/97		8.16	97.85	---	No free product/no sheen
	05/30/97		11.45	94.56	24.01	
	07/30/97		14.00	92.01	24.01	
	12/04/97		12.51	93.50	24.02	
	02/17/98		5.19	100.82	24.02	
	05/18/98		8.12	97.89	24.02	
MW-14	02/15/96	106.64	12.83	93.81	---	No free product/no sheen
	05/29/96		14.15	92.49	---	No free product/no sheen
	08/15/96		16.13	90.51	---	No free product/no sheen
	11/20/96		19.21	87.43	---	No free product/no sheen
	02/27/97		11.40	95.24	---	No free product/no sheen
	05/30/97		15.40	91.60	39.56	
	07/30/97		17.26	89.38	39.57	
	12/04/97		16.38	90.26	39.58	
	02/17/98		6.83	99.81	39.58	
	05/18/98		10.24	96.40	39.58	
MW-15	02/15/96	105.12	15.82	89.30	---	No free product/no sheen
	05/29/96		13.60	91.52	---	No free product/no sheen
	08/15/96		16.47	88.65	---	No free product/no sheen
	11/20/96		19.73	85.39	---	No free product/no sheen
	02/27/97		12.22	92.90	---	No free product/no sheen
	05/30/97		15.14	89.98	44.32	
	07/30/97		17.56	87.56	44.32	
	12/04/97		18.56	86.56	44.33	
	02/17/98		8.91	96.21	44.31	
	05/18/98		10.12	95.00	44.30	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth [3] = Measurement from top of casing to bottom of well.
4 = Well destroyed.
5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)
--- = Not measured/not observed.
** = Well has been dry or not listed for sampling since 3/92.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth[3]	Comments
MW-16	02/15/96	104.92	13.50	91.42	---	No free product/no sheen
	05/29/96		11.56	93.36	---	No free product/no sheen
	08/15/96		14.84	90.08	---	No free product/no sheen
	11/20/96		18.15	86.77	---	No free product/no sheen
	02/27/97		10.97	93.95	---	No free product/no sheen
	05/30/97		13.84	91.08	35.20	
	07/30/97		15.82	89.10	35.21	
	12/04/97		14.41	90.51	35.21	
	02/17/98		8.23	96.69	35.24	
	05/18/98		8.48	96.44	35.23	
MW-17	02/15/96	103.01	13.91	89.10	---	No free product/no sheen
	05/29/96		14.17	88.84	---	No free product/no sheen
	08/15/96		16.75	86.26	---	No free product/no sheen
	11/20/96		18.93	84.08	---	No free product/no sheen
	02/27/97		10.85	92.16	---	No free product/no sheen
	05/30/97		14.33	88.68	39.10	
	07/30/97		17.03	85.98	39.11	
	12/04/97		15.02	87.99	39.10	
	02/17/98		7.12	95.89	39.07	
	05/18/98		9.60	93.41	39.08	
MW-18	02/15/96	108.35	12.56	95.79	---	No free product/no sheen
	05/29/96		13.90	94.45	---	No free product/no sheen
	08/15/96		16.81	91.54	---	No free product/no sheen
	11/20/96		20.54	87.81	---	No free product/no sheen
	02/27/97		12.33	96.02	---	No free product/no sheen
	05/30/97		15.71	92.64	42.36	
	07/30/97		18.06	90.29	42.37	
	12/04/97		16.32	92.03	42.38	
	02/17/98		9.20	99.15	42.38	
	05/18/98		12.03	96.32	42.36	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation refrenced to mean sea level.
Well Depth [3] = Measurement from top of casing to bottom of well.
4 = Well destroyed.
5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)
--- = Not measured/not observed.
** = Well has been dry or not listed for sampling since 3/92.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth[3]	Comments
MW-19	02/15/96	106.43	8.56	97.87	---	No free product/no sheen
	05/29/96		10.21	96.22	---	No free product/no sheen
	08/15/96		13.25	93.18	---	No free product/no sheen
	11/20/96		16.36	90.07	---	No free product/no sheen
	02/27/97		9.56	96.87	---	No free product/no sheen
	05/30/97		12.04	94.39	39.92	
	07/30/97		14.37	92.06	39.91	
	12/04/97		13.78	92.65	39.93	
	02/17/98		6.03	100.40	39.92	
	05/18/98		8.85	97.58	39.96	
MW-20	02/15/96	105.91	10.47	95.44	---	No free product/no sheen
	05/29/96		10.35	95.56	---	No free product/no sheen
	08/15/96		13.67	92.24	---	No free product/no sheen
	11/20/96		15.85	90.06	---	No free product/no sheen
	02/27/97		8.79	97.12	---	No free product/no sheen
	05/30/97		12.30	93.61	33.29	
	07/30/97		14.84	91.07	33.27	
	12/04/97		14.01	91.90	33.27	
	02/17/98		5.64	100.27	33.27	
	05/18/98		8.36	97.55	33.28	
RW-1	02/15/96	105.17	15.13	90.04	---	No free product/no sheen
	05/29/96		13.77	91.40	---	No free product/no sheen
	08/15/96		16.53	88.64	---	No free product/no sheen
	11/20/96		19.81	85.36	---	No free product/no sheen
	02/27/97		10.12	95.05	---	No free product/no sheen
	05/30/97		14.62	90.55	35.20	
	07/30/97		16.95	88.22	35.22	
	12/04/97		16.21	88.96	35.23	
	02/17/98		6.19	98.98	35.23	
	05/18/98		8.85	96.32	35.21	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation refrenced to mean sea level.
Well Depth [3] = Measurement from top of casing to bottom of well.
4 = Well destroyed.
5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)
--- = Not measured/not observed.
** = Well has been dry or not listed for sampling since 3/92.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(Measurements in feet)

Monitoring/ Vapor Extraction Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth[3]	Comments
RW-2	02/15/96	105.22	20.94	84.28	---	No free product/no sheen
	05/29/96		54.66	50.56	---	No free product/no sheen
	08/15/96		18.31	86.91	---	No free product/no sheen
	11/20/96		22.02	83.20	---	No free product/no sheen
	02/27/97		11.95	93.27	---	No free product/no sheen
	05/30/97		16.24	88.98	65.61	
	07/30/97		18.66	86.56	65.61	
	12/04/97		17.89	87.33	65.60	
	02/17/98		4.72	100.50	65.60	
	05/18/98		10.71	94.51	65.64	
RW-3	02/27/95[5]					
RW-3A	02/15/96	105.72	10.25	95.47	---	No free product/no sheen
	05/29/96		11.23	94.49	---	No free product/no sheen
	08/15/96		13.97	91.75	---	No free product/no sheen
	11/20/96		16.90	88.82	---	No free product/no sheen
	02/27/97		8.80	96.92	---	No free product/no sheen
	05/30/97		12.47	93.25	38.89	
	07/30/97		14.93	90.79	38.87	
	12/04/97		13.42	92.30	38.88	
	02/17/98		4.81	100.91	38.82	
	05/18/98		8.59	97.13	38.82	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth [3] = Measurement from top of casing to bottom of well.
4 = Well destroyed.
5 = Recovery Well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995, and replaced by recovery well RW-3A (total depth 45 feet)
--- = Not measured/not observed.
** = Well has been dry or not listed for sampling since 3/92.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE[1]	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	05/27/93[2]						
MW-2	02/15/96	2,400*	NA	<2.5	<2.5	<2.5	<2.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	1,300*	NA	<1.3	<1.3	<1.3	<1.3
	08/15/96	11,000	20,000	<50	<50	<50	<50
	11/20/96	9,500	13,000	<50	<50	<50	<50
	02/27/97	7,700	13,000	<13	<13	<13	<13
	05/30/97	<5,000	14,000	<50	<50	<50	<50
	07/30/97	<5,000	14,000	<50	54	<50	88
	12/04/97	48,000	3,900	<50	<50	<50	<50
	02/17/98	4,400	5,400	<50	<50	<50	<50
	05/18/98	<5,000	12,000	<50	<50	<50	<50
MW-3	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	8.9	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<1,000	1,600	<10	<10	<10	<10
	07/30/97	<1,000	6,100	<10	<10	<10	<10
	12/04/97[5]						
	02/17/98	<1,000	2,200	<10	<10	<10	<10
	05/18/98[5]						
MW-4	02/15/96	210	NA	11	1	1.1	63
	05/29/96	<50	NA	1.9	<0.5	<0.5	1.1
	08/15/96	<50	7.6	2.4	<0.5	<0.5	1.5
	11/20/96	NS	NA	NS	NS	NS	NS
	02/27/97	<50	<5.0	0.68	<0.5	<0.5	<0.5
	05/30/97	<50	5.8	0.81	3.7	<0.50	0.78
	07/30/97	65	9.2	0.52	0.96	<0.50	0.85
	12/04/97[5]						
	02/17/98	71	<5.0	<0.50	<0.50	<0.50	1.3
	05/18/98[5]						
MW-5	02/15/96	<50	NA	0.58	<0.5	<0.5	<0.5
	05/29/96	<50	NA	0.65	<0.5	<0.5	<0.5
	08/15/96	<50	<5.0	1.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	0.53	<0.50	<0.50	<0.50
	07/30/97	<50	<5.0	0.85	<0.50	<0.50	<0.50
	12/04/97	16,000	<25	<2.5	11	<2.5	99
	02/17/98	110	20	<0.50	0.58	<0.50	<0.50
	05/18/98	170	<5.0	0.67	<0.50	<0.50	<0.50

MTBE[1] = Methyl-Tertiary-Butyl Ether.
[2] = Well Destroyed.
< = Below indicated detection limit.
NA = Not Analyzed.
NS = Not Sampled.
* = Product is not typical gasoline.
[3] = Not Sampled; Well Casing Bent.
[4] = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).
[5] = Well Not Sampled on This Date.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE[1]	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-6	02/15/96[3]						
	05/29/96[3]						
	08/15/96[3]						
	11/20/96[3]						
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	07/30/97[3]						
	12/04/97[3]						
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98[5]						
MW-7	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	6.8	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	13	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	23	<0.50	<0.50	<0.50	<0.50
	12/04/97[5]						
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98[5]						
MW-8	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	67*	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	220	520	<0.5	<0.5	<0.5	<0.5
	11/20/96	5,100	8,600	<13	<13	<13	<13
	02/27/97	130	510	<0.5	<0.5	<0.5	<0.5
	05/30/97	130	75	<0.50	<0.50	<0.50	1.2
	07/30/97	<50	<5.0	0.57	<0.50	<0.50	<0.50
	12/04/97	<50	12	<0.50	<0.50	<0.50	<0.50
	02/17/98	<2,500	23,000	<25	<25	<25	32
	05/18/98	<50	1,100	<0.50	<0.50	<0.50	<0.50
MW-9	02/15/96	96*	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	100*	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	110	460	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	15	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	6.5	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	130	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	93	<0.50	<0.50	<0.50	<0.50
	12/04/97[5]						
	02/17/98	56	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98[5]						

MTBE[1] = Methyl-Tertiary-Butyl Ether.
[2] = Well Destroyed.
< = Below indicated detection limit.
NA = Not Analyzed.
NS = Not Sampled.
* = Product is not typical gasoline.
[3] = Not Sampled; Well Casing Bent.
[4] = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).
[5] = Well Not Sampled on This Date.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE[1]	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-10	02/15/96	1,500	NA	20	0.76	30	120
	05/29/96	380	NA	2.7	<0.5	2.3	5.5
	08/15/96	1,100	<5.0	6.2	0.97	9.1	25
	11/20/96	830	<5.0	5.9	1.5	4	6.4
	02/27/97	350	<5.0	4	<0.5	0.53	2
	05/30/97	1,200	<5.0	2	1.8	5.7	11
	07/30/97	980	<5.0	1.4	1.6	5.1	15
	12/04/97	25,000	<25	<2.5	16	14	61
	02/17/98	3,000	26	26	2.9	54	270
	05/18/98	210	6.2	1.4	<0.50	1.7	14
MW-13	02/15/96	230*	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	24	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	12	<0.5	<0.5	<0.5	0.6
	02/27/97	220	16,000	3.5	<0.5	<0.5	<0.5
	05/30/97	300	330	<1.0	<1.0	<1.0	<1.0
	07/30/97	<50	440	<1.0	<1.0	<1.0	<1.0
	12/04/97	<100	54	<1.0	<1.0	<1.0	<1.0
	02/17/98	<2,500	20,000	<25	<25	<25	<25
	05/18/98	<50	670	<0.50	<0.50	<0.50	<0.50
MW-14	02/15/96	53,000	NA	11,000	8,900	950	9,900
	05/29/96	340,000	NA	13,000	11,000	4,700	24,000
	08/15/96	65,000	<1,300	15,000	7,500	970	10,000
	11/20/96	150,000	<1,300	15,000	6,000	3,100	14,000
	02/27/97	75,000	<1,300	4,200	5,600	2,200	11,000
	05/30/97	66,000	3,200	13,000	3,100	1,900	6,400
	07/30/97	100,000	4,800	9,200	3,700	3,000	12,000
	12/04/97	10,000	1,400	110	53	730	4,200
	02/17/98	31,000	7,100	1,900	1,400	580	5,300
	05/18/98	<1,000	15,000	61	<10	34	170
MW-15	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/04/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50

MTBE[1] = Methyl-Tertiary-Butyl Ether.
[2] = Well Destroyed.
< = Below indicated detection limit.
NA = Not Analyzed.
NS = Not Sampled.
* = Product is not typical gasoline.
[3] = Not Sampled; Well Casing Bent.
[4] = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).
[5] = Well Not Sampled on This Date.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE[1]	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-16	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	60	<5.0	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/04/97[5]						
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98[5]						
MW-17	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/04/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
MW-18	02/15/96	110*	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	62*	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	97	180	<0.5	<0.5	<0.5	<0.5
	11/20/96	150	310	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	53	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	200	<0.50	<0.50	<0.50	<0.50
	07/30/97	<50	400	<0.50	<0.50	<0.50	<0.50
	12/04/97	<50	32	<0.50	<0.50	<0.50	<0.50
	02/17/98	<50	350	<0.50	<0.50	<0.50	<0.50
	05/18/98	<50	250	<0.50	<0.50	<0.50	<0.50
MW-19	02/15/96	1,400*	NA	40	37	<1.3	6.4
	05/29/96	990*	NA	<5.0	<5.0	<5.0	<5.0
	08/15/96	1,100	1,400	<2.5	<2.5	<2.5	<2.5
	11/20/96	1,000	1,600	<5.0	<5.0	<5.0	<5.0
	02/27/97	4,500	8,200	<13	<13	<13	<13
	05/30/97	<1,000	6,300	<10	<10	<10	<10
	07/30/97	<1,000	6,200	<10	<10	<10	<10
	12/04/97	<1,000	2,500	<10	<10	<10	<10
	02/17/98	<25,000	120,000	<250	<250	<250	<250
	05/18/98	<25,000	85,000	<250	<250	<250	<250

MTBE[1] = Methyl-Tertiary-Butyl Ether.
[2] = Well Destroyed.
< = Below indicated detection limit.
NA = Not Analyzed.
NS = Not Sampled.
* = Product is not typical gasoline.
[3] = Not Sampled; Well Casing Bent.
[4] = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).
[5] = Well Not Sampled on This Date.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #700
7898 OLD REDWOOD HIGHWAY, COTATI, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organic Compounds				
		Gasoline	MTBE[1]	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-20	02/15/96	390	NA	1.3	<0.5	13	28
	05/29/96	310	NA	2.6	1.3	11	18
	08/15/96	<50	<5.0	<0.5	<0.5	0.76	2
	11/20/96	<50	<5.0	<0.5	<0.5	0.55	1.7
	02/27/97	110	<5.0	<0.5	<0.5	2.1	1.9
	05/30/97	160	<5.0	<0.50	<0.50	3.7	5.7
	07/30/97	<50	<5.0	<0.50	<0.50	1.2	2.2
	12/04/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	02/17/98	180	<5.0	<0.50	<0.50	3.9	4.6
	05/18/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
RW-1	02/15/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	05/29/96	<50	NA	<0.5	1.4	<0.5	<0.5
	08/15/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/20/96	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	02/27/97	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	05/30/97	<50	<5.0	<0.50	0.89	<0.50	<0.50
	07/30/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/04/97[5]						
	02/17/98	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	05/18/98[5]						
RW-2	02/15/96	57	NA	7	<0.5	<0.5	1.8
	05/29/96	<50	NA	<0.5	<0.5	<0.5	<0.5
	08/15/96	<50	18	17	<0.5	<0.5	4
	11/20/96	70	24	16	0.53	2	3.4
	02/27/97	<50	20	<0.5	<0.5	<0.5	<0.5
	05/30/97	4,500	300	450	76	28	510
	07/30/97	5,300	350	370	63	180	650
	12/04/97	<50	54	<0.50	<0.50	<0.50	<0.50
	02/17/98	<50	46	<0.50	<0.50	<0.50	<0.50
	05/18/98	<50	84	<0.50	<0.50	<0.50	<0.50
RW-3	02/27/95[4]						
RW-3A	02/15/96	10,000	NA	120	<13	<13	810
	05/29/96	9,900*	NA	220	65	31	1,200
	08/15/96	18,000	26,000	<50	<50	<50	<50
	11/20/96	15,000	27,000	130	24	270	1,500
	02/27/97	16,000	21,000	82	<25	100	450
	05/30/97	<5,000	11,000	78	62	90	320
	07/30/97	<5,000	20,000	120	<50	200	630
	12/04/97	<5,000	20,000	<50	<50	<50	<50
	02/17/98	3,600	10,000	<50	<50	<50	<50
	05/18/98	<5,000	17,000	66	<50	<50	150

MTBE[1] = Methyl-Tertiary-Butyl Ether.
[2] = Well Destroyed.
< = Below indicated detection limit.
NA = Not Analyzed.
NS = Not Sampled.
* = Product is not typical gasoline.
[3] = Not Sampled; Well Casing Bent.
[4] = Recovery well RW-3 (total depth 35 feet) was overdrilled on May 13, 1995 and replaced by recovery well RW-3A (total depth 45 feet).
[5] = Well Not Sampled on This Date.

ENCLOSURE E

Remediation System Analytical Results

KIFF ANALYTICAL LLC

Report Number : 40784
Date : 11/3/2004

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 2 Water Samples
Project Name : Tesoro Station 67062
Project Number : 67062
P.O. Number : 67062

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

KIFF ANALYTICAL LLC

Analysis Summary

Report Number : 40784
Date : 11/3/2004

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

Project Name :Tesoro Station 67062
Project Number : 67062

		Sample Name	GW-Inf		GW-Eff	
		Sample Date	10/28/2004		10/28/2004	
Analyte	Method	Units	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	1.5	**11**	0.50	ND
Toluene	EPA 8260B	ug/L	1.5	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	1.5	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	1.5	**5.9**	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	1.5	**570**	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	1.5	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	1.5	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	1.5	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	7.0	**3200**	5.0	**24**
TPH as Gasoline	EPA 8260B	ug/L	150	**490**	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		102		102
4-Bromofluorobenzene (Surr)	EPA 8260B	%		99.1		99.7

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

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

Calscience
Environmental
Laboratories, Inc.

November 04, 2004

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

Subject: **Calscience Work Order No.: 04-11-0069**
Client Reference: Tesoro Station 67062

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/2/2004 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	11/02/04
2795 2nd Street, Suite 300		Work Order No:	04-11-0069
Davis, CA 95616-6593		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Tesoro Station 67062			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GW-Eff	**04-11-0069-1**	**10/28/04**	**Aqueous**	**11/02/04**	**11/03/04**	**041102L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	0.00770	0.00500	1		Zinc	1.65	0.01	1	
Lead	ND	0.0100	1						

Method Blank	**097-01-003-4,291**	**N/A**	**Aqueous**	**11/02/04**	**11/02/04**	**041102L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

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

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 11/02/04
Work Order No: 04-11-0069
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Tesoro Station 67062

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW-Eff	**Aqueous**	**ICP 3300**	**11/02/04**	**11/03/04**	**041102S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	106	103	80-120	2	0-20	
Lead	106	104	80-120	1	0-20	
Zinc	106	102	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 04-11-0069

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

KIFF ANALYTICAL LLC

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. 11-0069

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff

Geotracker COELT EDD REPORT? __ YES _X__ NO

Company/Address: Kiff Analytical, LLC

Sampling Company Log Code:

Phone No.:

FAX No.:

Global ID:

Project Number: 67062

P.O. No.: 40784

EDF Deliverable to (Email Address):

Project Name: Tesoro Station 67062

E-mail address: inbox@kiffanalytical.com

Project Address:

Analysis Request

Date Due: November 5, 2004

For Lab Use Only

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Container: Tedlar	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Preservative: HCl	Preservative: $Na_2S_2O_3$	Matrix: WATER	Matrix: SOIL	Matrix: AIR	Pb, Cu, Zn								For Lab Use Only
GW-Eff	10/28/04	9:18		1					X	X			X			X								X

Relinquished by:	Date	Time	Received by:	Remarks:
Osama Abdalla / Kiff Analytical	110104	1900		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	11-2-04	8:30		

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 04 - 11 - 0069

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF ANALYTICAL DATE: 11-2-04

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4.1 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

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

Initial: WB

SAMPLE CONDITION:

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

Initial: WB

COMMENTS:

KIFF ANALYTICAL LLC

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

Lab No. 40784 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Munroe

Company/Address: RPM Environmental

Phone No.: (916) 771-7048 FAX No.: (916) 771-4584

Project Number: 67062 P.O. No: 67062

Project Name: Tesoro Station 67062

Project Address: Catati CA

California EDF Report? ☐ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: - - -

Global ID: - - - - - - - - - - -

EDF Deliverable To (Email Address):

Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	40 ml VOA	SLEEVE	Poly			HCl	HNO_3	ICE	NONE		WATER	SOIL		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)	Pb, Cu, Zn				12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
GW-Inf	10/28/04	9:10	2					X					X								X														01
GW-Eff	10/28/04	9:18	2		1			X	X				X								X								X						02

Relinquished by:	Date	Time	Received by:	Remarks:
				STAT
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 102904	Time 1820	Received by Laboratory: Kiff Analytical	Bill to: Tesoro Petroleum / Rob Donovan

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

Report Number : 41135
Date : 12/1/2004

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 2 Water Samples
Project Name : Tesoro Station 67062
Project Number : 67062
P.O. Number : 67062

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

KIFF ANALYTICAL LLC

Analysis Summary

Report Number : 41135
Date : 12/1/2004

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

Project Name :Tesoro Station 67062
Project Number : 67062

		Sample Name	GW-Inf		GW-Eff	
		Sample Date	11/22/2004		11/22/2004	
Analyte	Method	Units	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.90	**9.0**	0.50	ND
Toluene	EPA 8260B	ug/L	0.90	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.90	**1.6**	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.90	**5.5**	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.90	**450**	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.90	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	**2900**	5.0	**8.8**
TPH as Gasoline	EPA 8260B	ug/L	90	**600**	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		100		98.3
4-Bromofluorobenzene (Surr)	EPA 8260B	%		102		97.7

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

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

Calscience
Environmental
Laboratories, Inc.

December 02, 2004

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

Subject: **Calscience Work Order No.: 04-11-1478**
Client Reference: Tesoro Station 67062

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/24/2004 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	11/24/04
2795 2nd Street, Suite 300		Work Order No:	04-11-1478
Davis, CA 95616-6593		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L

Project: Tesoro Station 67062

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GW-Eff	04-11-1478-1	11/22/04	Aqueous	11/24/04	11/29/04	041124L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	0.00672	0.00500	1		Zinc	0.624	0.010	1	
Lead	ND	0.0100	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-003-4,338	N/A	Aqueous	11/24/04	11/24/04	041124L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical		Date Received:	11/24/04
2795 2nd Street, Suite 300		Work Order No:	04-11-1478
Davis, CA 95616-6593		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project Tesoro Station 67062

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
04-11-1441-1	Aqueous	ICP 3300	11/24/04	11/24/04	041124S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	105	105	80-120	1	0-20	
Lead	102	102	80-120	0	0-20	
Zinc	106	106	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical		Date Received:	N/A
2795 2nd Street, Suite 300		Work Order No:	04-11-1478
Davis, CA 95616-6593		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: Tesoro Station 67062

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-4,338	Aqueous	ICP 3300	11/24/04	041124-I-03	041124L03

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Copper	1.00	0.970	97	80-120	
Lead	1.00	1.01	101	80-120	
Zinc	1.00	1.00	100	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 04-11-1478

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

1478

KIFF ANALYTICAL LLC

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. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff

Geotracker COELT EDD REPORT? __ YES _X__ NO

Company/Address: Kiff Analytical, LLC

Sampling Company Log Code:

Phone No.: FAX No.:

Global ID:

Project Number: 67062 P.O. No.: 41135

EDF Deliverable to (Email Address):

Project Name: Tesoro Station 67062

E-mail address: inbox@kiffanalytical.com

Project Address:

	Sampling		Container					Preservative					Matrix			Analysis Request								Date Due:	For Lab Use Only
Sample Designation	Date	Time	Glass Jar	Poly	Amber	Sleeve	Tedlar	H_2SO_4	HNO_3	ICE	HCl	$Na_2S_2O_3$	WATER	SOIL	AIR	Cu, Pb, Zn								December 2, 2004	
1. GW-Eff	11/22/04	5:15		1					X				X			X								X	

Relinquished by:	Date	Time	Received by:	Remarks:
[illegible] Kiff Analytical	112304	1900		
Relinquished by:	Date	Time	Received by:	
Relinquished by: [illegible]	Date 11-24-04	Time 8:15	Received by Laboratory: [illegible]	Bill to:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 04 - 11 - 1478

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff Analytical

DATE: 11/24/04

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- 3.6 °C IR thermometer.
- ____ Ambient temperature.

Initial: TL

CUSTODY SEAL INTACT:

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

Initial: TL

SAMPLE CONDITION:

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

Initial: TL

COMMENTS:

KIFF ANALYTICAL LLC

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

Lab No. 41135 Page ____ of ____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Munsch

Company/Address: RMM Environmental

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

Project Number: 67062 P.O. No: 67062

Project Name: Tesoro Station 67062

Project Address: Cotati CA

California EDF Report? ☐ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: - - -

Global ID: - - - - - - - - - - -

EDF Deliverable To (Email Address):

Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Container: Poly	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	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)	Cu, Pb, Zn				TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
GW Int	11/22/04	5:17	2			X				X							X													-01
GW Eff	11/22/04	5:15	2		1	X	X		X	X							X								X					-02

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 112304	Time 1005	Received by Laboratory: Robert C Pedley KIFF ANALYTICAL

Remarks: STAT

Bill to: Tesoro Petroleum / Rob Ransom

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

Report Number : 41735
Date : 1/4/2005

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 2 Water Samples
Project Name : Tesoro Station 67062
Project Number : 67062
P.O. Number : 67062

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

KIFF ANALYTICAL LLC

Analysis Summary

Report Number : 41735
Date : 1/4/2005

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

Project Name :Tesoro Station 67062
Project Number : 67062

		Sample Name	GW-Inf		GW-Eff	
		Sample Date	12/26/2004		12/26/2004	
Analyte	Method	Units	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	1.0	**28**	0.50	ND
Toluene	EPA 8260B	ug/L	1.0	**1.6**	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	1.0	**3.4**	0.50	ND
Total Xylenes	EPA 8260B	ug/L	1.0	**7.9**	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	1.0	**440**	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	1.0	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	1.0	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	1.0	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	10	**2400**	5.0	**8.0**
TPH as Gasoline	EPA 8260B	ug/L	100	**790**	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		101		101
4-Bromofluorobenzene (Surr)	EPA 8260B	%		101		101

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

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

Calscience
Environmental
Laboratories, Inc.

January 03, 2005

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

Subject: **Calscience Work Order No.: 04-12-1623**
Client Reference: Tesoro Station 67062

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/28/2004 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	12/28/04
2795 2nd Street, Suite 300		Work Order No:	04-12-1623
Davis, CA 95616-6593		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Tesoro Station 67062			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
GW-Eff	**04-12-1623-1**	**12/26/04**	**Aqueous**	**12/28/04**	**12/29/04**	**041228L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	0.0949	0.0100	1	
Lead	ND	0.0100	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-003-4,439**	**N/A**	**Aqueous**	**12/28/04**	**12/28/04**	**041228L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received:	12/28/04
Work Order No:	04-12-1623
Preparation:	EPA 3010A Total
Method:	EPA 6010B

Project Tesoro Station 67062

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW-Eff	Aqueous	ICP 3300	12/28/04	12/29/04	041228S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	100	98	80-120	3	0-20	
Lead	103	100	80-120	3	0-20	
Zinc	105	102	80-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received:	N/A
Work Order No:	04-12-1623
Preparation:	EPA 3010A Total
Method:	EPA 6010B

Project: Tesoro Station 67062

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-4,439	Aqueous	ICP 3300	12/28/04	12/28/04	041228L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	96	96	80-120	0	0-20	
Lead	99	98	80-120	1	0-20	
Zinc	97	97	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 04-12-1623

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

KIFF ANALYTICAL LLC

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. 1623

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff

Geotracker COELT EDD REPORT? __ YES _X__ NO

Company/Address: Kiff Analytical, LLC

Sampling Company Log Code:

Phone No.:

FAX No.:

Global ID:

Project Number: 67062

P.O. No.: 41735

EDF Deliverable to (Email Address):

Project Name: Tesoro Station 67062

E-mail address: inbox@kiffanalytical.com

Project Address:

Analysis Request

Date Due: January 4, 2005

For Lab Use Only

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Container: Tedlar	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Preservative: HCl	Preservative: $Na_2S_2O_3$	Matrix: WATER	Matrix: SOIL	Matrix: AIR	Cu, Pb, Zn								Date Due: January 4, 2005	For Lab Use Only
GW-Eff	12/26/04	09:58		1					X				X			X								X	

Relinquished by:	Date	Time	Received by:	Remarks:
[illegible] Kiff Analytical	12/28/04	1900		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 12/28/04	Time 0730	Received by Laboratory: [illegible]	Bill to:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 04-12-1623

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff

DATE: 12/28/04

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than Calscience Courier):

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

Initial: [illegible]

CUSTODY SEAL INTACT:

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

Initial: [illegible]

SAMPLE CONDITION:

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

Initial: [illegible]

COMMENTS:

KIFF ANALYTICAL LLC

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

Lab No. 41735 Page 1 of 1

Chain-of-Custody Record and Analysis Request

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) 771-7090
FAX No.: (916) 771-4580

Global ID: - - - - - - - - - -

Project Number: 67062
P.O. No: 67062

EDF Deliverable To (Email Address):

Project Name: Tesoro Station 67062

Sampler Signature:

Project Address: Cotati CA

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Container: Pb	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	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)	Pb, Zn, Cu				TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
GW-Inf	12/20/04	10:00	2			X				X							X													01
GW-Eff	12/20/04	9:58	2		1	X	X			X							X								X					02

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	122704	1220	Kiff Analytical

Remarks: STAT

Bill to: Tesoro Refining / Rob Donovan

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9