

20-216

Kelleher & Associates
Environmental Management

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November 30, 2002

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

Alameda County
DEC 04 2002
Environmental Health

Site: TESORO STATION # 67106 (former Beacon # 3720), 1088 Marina Blvd, San Leandro, CA
Re: Technical report submittal

Dear Mr. Seery:

Please find enclosed herewith a copy of the following technical report prepared by RDM, Roseville, CA:

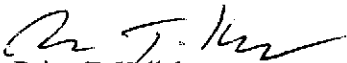
Quarterly Groundwater Monitoring and Remediation Status Report Third Quarter 2002 dated October 29, 2002.

As an authorized representative of Tesoro Petroleum and Refining Company (Tesoro), I have reviewed the enclosed report and declare under penalty of perjury that to the best of my knowledge the information contained in the report is true and correct.

The report covers the groundwater-monitoring event Doulas Environmental conducted on August 6, 2002 during which they sounded, purged and sampled nine wells and provided for certified analyses of total petroleum hydrocarbon constituents, BTEX, and MTBE using EPA Method 8260B. The next groundwater-monitoring event is scheduled for the fourth quarter 2002.

The report also covers operation of sparging-enhanced soil vapor extraction (SESVE) remedial processes during the third quarter 2002. During this period the SESVE system extracted 11 pounds of gasoline vapors. Tesoro has contracted RDM to continue operations through the end of the calendar year.

Sincerely,



Brian T. Kelleher
Project Coordinator

Enclosure: CC with enclosure: Robert Donovan, Tesoro; Glenn Dembroff, Ultramar; Richard Munsch, RDM (cover letter only).



Environmental

1704 Via Riata, Roseville, CA 95747

October 29, 2002

Alameda County

DEC 04 2002

Environmental Health

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

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

Subject: *Quarterly Ground Water Monitoring and
Remediation System Status Report, Third Quarter 2002*
Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California
RDM Project No. 00-3720

Dear Mr. Seery:

On Behalf of Tesoro Refining and Marketing Company, RDM Environmental (RDM) is submitting the following quarterly ground water monitoring and remediation system status report for the subject site. This report describes quarterly ground water monitoring and remediation system status for the **Third Quarter 2002**.

Work Performed During the Third Quarter 2002:

- Doulos Environmental Inc. performed ground water sampling on **August 6, 2002**.
- RDM continued operation and maintenance on the remediation system.

STATUS OF GROUND WATER MONITORING

Cumulative ground water sampling information is tabulated in Table 1. Historical analytical results from interim remediation are included in Table 2. A site topographic map, site map, and ground water elevation contour map are shown as Figures 1 through 3, respectively. Analytical isoconcentration maps are presented as Figures 4 through 6. The site history is included in Enclosure A, the quarterly monitoring data sheets are included in Enclosure B and the ground water analytical results are included in Enclosure C. Historical ground water monitoring data is included in Enclosure D.

- Historical ground water flow direction is to the southwest.

STATUS OF REMEDIATION SYSTEM

Operation and maintenance is performed bi-monthly by RDM on a remediation system consisting of ground water treatment, soil vapor extraction (SVE) and air sparging components. A process flow diagram showing details of the system is shown as Figure 5.

Operation & Maintenance Site Visits:

- Operation and maintenance site visits were conducted for the **Third Quarter 2002** on:
 - **July 6 and 22, 2002**
 - **August 6 and 21, 2002**
 - **September 14 and 23, 2002**

Ground Water Extraction System Performance:

- The ground water treatment system did not operate during the **Third Quarter 2002**.
- During the **Third Quarter 2002**, the ground water system processed **Zero (0)** gallons. The ground water treatment system was shut off in March 1998 at which time the ground water system had processed approximately **228,500** gallons.
- Due to the elevated concentrations reported in recent ground water sampling events, Tesoro may start-up the ground water system in the future. The sanitary sewer agency will be notified of system modification or system start-up.
- Monitoring wells MW-4, MW-5 and MW-9 are used as recovery wells.

Soil Vapor Extraction System Performance:

- The SVE system operated continuously during the **Third Quarter 2002**.
- During the **Third Quarter 2002**, the SVE system removed approximately **11.0** pounds of vapor equivalent gasoline.
- As of **September 23, 2002**, the SVE system has removed approximately **2,549** pounds (**418** gallons) of vapor equivalent gasoline.
- Soil vapor extraction is conducted on MW-1 through MW-5, MW-8, MW-9 and vapor well VW-1.
- The SVE analytical results are included in Table 3 and the SVE performance data is included in Table 4. Remediation system analytical results are included in Enclosure E.

Air Sparging System Performance:

- The air sparging system operated continuously during the **Third Quarter 2002**.
- Air sparging system is connected to sparge points SP-1 through SP-6.

CONCLUSIONS/RECOMMENDATIONS

RDM recommends continued operation of the remediation system and quarterly ground water monitoring.

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

Mr. Rob Donovan
Tesoro Petroleum
October 29, 2002
Page 3

RDM recommends a copy of this report be forward to the following people.


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


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

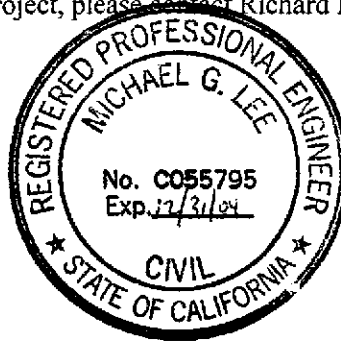
Case Worker
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

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

RDM ENVIRONMENTAL


Richard D. Munsch
Project Manager


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



RDM (3720 3Q GWM 8-6-02)

Enclosures:

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

TABLE 1
GROUND WATER MONITORING DATA

Tesoro Station No. 67107
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

| Monitoring Well | Date | Reference Elevation (ft) ^a | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as gasoline (µg/L) | MTBE (µg/L) | Comments |
|-----------------|----------|---------------------------------------|----------------------------|-----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|----------|
| MW-1 | 03/12/98 | 33.10 | 11.09 | 22.01 | <0.5 | <0.5 | 5.0 | 2.8 | 100 | <5.0 | No sheen |
| | 05/28/98 | | 11.36 | 21.74 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 08/31/98 | | 12.61 | 20.49 | <0.5 | <0.5 | 6.4 | 1.4 | 130 | <5.0 | No sheen |
| | 11/19/98 | | 13.84 | 19.26 | 0.75 | <0.5 | <0.5 | 3.0 | 120 | <5.0 | No sheen |
| | 03/15/99 | | 11.95 | 21.15 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 06/07/99 | | 13.45 | 19.65 | 1.6 | 1.9 | 230 | 110 | 5,200 | <5.0 | No sheen |
| | 09/07/99 | | 13.10 | 20.00 | 1.0 | <0.5 | 22 | 15 | 490 | <5.0 | No sheen |
| | 12/13/99 | | 14.29 | 18.81 | <2.5 | <2.5 | 170 | 110 | 4,100 | <25 | No sheen |
| | 03/08/00 | | 11.22 | 21.88 | <0.5 | <0.5 | 21 | 7.7 | 1,200 | 150 | No sheen |
| | 06/12/00 | | 12.85 | 20.25 | 1.5 | 0.9 | 160 | 98 | 3,000 | 34 | No sheen |
| | 11/15/00 | | 14.19 | 18.91 | <20 | <20 | 470 | 390 | 8,500 | 14,000 | No sheen |
| | 02/27/01 | | 12.35 | 20.75 | 5.4 | 2.6 | 260 | 190 | 6,100 | 4,300 | No sheen |
| | 05/22/01 | | 14.18 | 18.92 | 8.9 | 13 | 1,100 | 1,300 | 21,000 | 2,300 | No sheen |
| | 09/05/01 | | 13.70 | 19.10 | <2.0 | 3.6 | 600 | 850 | 12,000 | 93 | No sheen |
| | 11/07/01 | | 14.25 | 18.85 | <5.0 | <5.0 | 1,300 | 1,600 | 23,000 | 87 | No sheen |
| | 02/11/02 | 35.47 | 13.05 | 22.42 | <0.5 | <0.5 | 140 | 150 | 4,500 | 18 | No sheen |
| 06/03/02 | 13.31 | 22.16 | <2.5 | <2.5 | 520 | 460 | 12,000 | 12 | No sheen | | |
| 08/06/02 | 13.75 | 21.72 | <0.5 | <0.5 | 710 | 580 | 22,000 | 15 | No sheen | | |
| MW-2 | 03/12/98 | 32.80 | 10.92 | 21.88 | 32 | 1.0 | 12 | 6.5 | 440 | 20 | No sheen |
| | 05/28/98 | | 10.41 | 22.39 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | 27 | No sheen |
| | 08/31/98 | | 12.29 | 20.51 | 9.3 | 0.95 | 4.9 | 8.8 | 270 | 20 | No sheen |
| | 11/19/98 | | 13.47 | 19.33 | 16 | 0.72 | <0.5 | 4.3 | 180 | 7.4 | No sheen |
| | 03/15/99 | | 11.95 | 20.85 | 12 | 3.5 | 59 | 840 | 2,400 | 10 | No sheen |
| | 06/07/99 | | 13.11 | 19.69 | 21 | 0.99 | 6.9 | 10 | 690 | 6.1 | No sheen |
| | 09/07/99 | | 12.92 | 19.88 | 7.8 | 1.2 | 42 | 100 | 610 | <5.0 | No sheen |
| | 12/13/99 | | 13.96 | 18.84 | 26 | 0.93 | 52 | 96 | 3,000 | <5.0 | No sheen |
| | 03/08/00 | | 10.87 | 21.93 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 06/12/00 | | 12.53 | 20.27 | 51 | 17 | 170 | 320 | 5,500 | 18 | No sheen |
| | 11/15/00 | | 13.96 | 18.84 | 75 | 48 | 1,200 | 2,800 | 16,000 | 19,000 | No sheen |
| | 02/27/01 | | 12.29 | 20.51 | 54 | 24 | 320 | 870 | 10,000 | 6,000 | No sheen |
| | 05/22/01 | | 15.51 | 17.29 | 12 | 5.0 | 79 | 100 | 2,400 | 3,500 | No sheen |
| | 09/05/01 | | 13.75 | 19.05 | 120 | 180 | 1,500 | 5,100 | 34,000 | 400 | No sheen |
| | 11/07/01 | | 13.99 | 18.81 | 87 | 170 | 1,400 | 3,700 | 32,000 | 870 | No sheen |
| | 02/11/02 | 35.11 | 12.98 | 22.13 | 170 | 250 | 1,600 | 4,700 | 34,000 | 390 | No sheen |
| 06/03/02 | 13.24 | 21.87 | 130 | 260 | 1,700 | 5,100 | 29,000 | 110 | No sheen | | |
| 08/06/02 | 13.73 | 21.38 | 110 | 240 | 1,700 | 4,700 | 34,000 | 84 | No sheen | | |
| MW-3 | 03/12/98 | 32.30 | 10.81 | 21.49 | 0.67 | <0.5 | 7.1 | 3.4 | 1,200 | 7.3 | No sheen |
| | 05/28/98 | | 11.45 | 20.85 | <0.5 | 0.5 | <0.5 | <0.5 | 350 | <5.0 | No sheen |
| | 08/31/98 | | 12.21 | 20.09 | <0.5 | 0.89 | 0.69 | <0.5 | 240 | <5.0 | No sheen |
| | 11/19/98 | | 13.26 | 19.04 | 5.3 | 0.72 | 0.86 | 4.2 | 440 | <5.0 | No sheen |
| | 03/15/99 | | 11.89 | 20.41 | 3.3 | 1.3 | 0.77 | <0.5 | 410 | <5.0 | No sheen |
| | 06/07/99 | | 12.91 | 19.39 | <0.5 | 2.0 | <0.5 | 0.66 | 680 | <5.0 | No sheen |
| | 09/07/99 | | 12.81 | 19.49 | <0.5 | 0.62 | <0.5 | 8.7 | 150 | 12 | No sheen |
| | 12/13/99 | | 13.75 | 18.55 | <0.5 | 0.52 | <0.5 | 1.0 | 830 | <5.0 | No sheen |
| | 03/08/00 | | 11.39 | 20.91 | 0.58 | <0.5 | 0.77 | <0.5 | 960 | <5.0 | No sheen |
| | 06/12/00 | | 12.58 | 19.72 | 1.7 | <0.5 | 46 | 6.3 | 1,700 | <5.0 | No sheen |
| | 11/15/00 | | 13.85 | 18.45 | <200 | <200 | <200 | <200 | <20,000 | 84,000 | No sheen |
| | 02/27/01 | | 12.22 | 20.08 | 98 | <20 | 130 | 30 | 3,500 | 16,000 | No sheen |
| | 05/22/01 | | 13.66 | 18.64 | 41 | <20 | 20 | <20 | <2,000 | 5,800 | No sheen |
| | 09/05/01 | | 13.41 | 18.89 | 9.9 | 1.5 | 49 | 8.2 | 5,300 | 430 | No sheen |
| | 11/07/01 | | 13.85 | 18.45 | 9.4 | 1.8 | 47 | 8.8 | 6,500 | 1,600 | No sheen |
| | 02/11/02 | 34.84 | 12.86 | 21.98 | 8.9 | <2.0 | 14 | <2.0 | 2,400 | 530 | No sheen |
| 06/03/02 | 13.10 | 21.74 | 13 | 0.77 | 19 | 0.94 | 2,100 | 110 | No sheen | | |
| 08/06/02 | 13.52 | 21.32 | 25 | 2.5 | 12 | 1.1 | 2,800 | 120 | No sheen | | |

TABLE I
GROUND WATER MONITORING DATA

Tesoro Station No. 67107
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

| Monitoring Well | Date | Reference Elevation (ft) ^a | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as gasoline (µg/L) | MTBE (µg/L) | Comments |
|-----------------|----------|---------------------------------------|----------------------------|-----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|----------|
| MW-4 | 03/12/98 | 32.90 | 11.31 | 21.59 | 2,200 | 1,500 | 630 | 3,000 | 14,000 | 440 | No sheen |
| | 05/28/98 | | 10.40 | 22.50 | <0.5 | 0.75 | 0.68 | 6.9 | 67 | 26 | No sheen |
| | 08/31/98 | | 12.54 | 20.36 | 1.8 | 2.5 | 0.65 | 3.4 | <50 | <5.0 | No sheen |
| | 11/19/98 | | 13.99 | 18.91 | <0.5 | <0.5 | <0.5 | 0.61 | <50 | 17 | No sheen |
| | 03/15/99 | | 12.06 | 20.84 | 1.2 | 1.6 | 0.76 | 4.5 | 160 | 9.3 | No sheen |
| | 06/07/99 | | 13.57 | 19.33 | 210 | 370 | 350 | 2,000 | 5,800 | <20 | No sheen |
| | 09/07/99 | | 10.30 | 22.60 | 2.2 | 2.8 | 4.8 | 25 | 130 | 12 | No sheen |
| | 12/13/99 | | 14.18 | 18.72 | 1.3 | 1.0 | 1.2 | 4.8 | <50 | 12 | No sheen |
| | 03/08/00 | | 11.77 | 21.13 | 78 | 200 | 160 | 750 | 3,700 | 11 | No sheen |
| | 06/12/00 | | 13.47 | 19.43 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | 24 | No sheen |
| | 11/15/00 | | 14.33 | 18.57 | 12 | 38 | 28 | 130 | 710 | 1,300 | No sheen |
| | 02/27/01 | | 14.25 | 18.65 | 67 | 300 | 310 | 1,400 | 6,500 | 1,000 | No sheen |
| | 05/22/01 | | 13.99 | 18.91 | 2.1 | 5.6 | 4.8 | 20 | 130 | 350 | No sheen |
| | 09/05/01 | | 15.75 | 17.15 | 110 | 670 | 250 | 1,300 | 6,200 | 600 | No sheen |
| | 11/07/01 | | 16.10 | 16.80 | 40 | 270 | 180 | 940 | 4,100 | 110 | No sheen |
| | 02/11/02 | | 35.33 | 15.04 | 20.29 | 91 | 590 | 620 | 3,000 | 14,000 | 350 |
| 06/03/02 | 13.61 | 21.72 | 69 | 390 | 190 | 1,100 | 4,300 | 240 | No sheen | | |
| 08/06/02 | 15.01 | 20.32 | 100 | 690 | 570 | 2,900 | 13,000 | 170 | No sheen | | |
| MW-5 | 03/12/98 | 32.70 | 11.11 | 21.59 | 2,600 | 160 | 470 | 2,200 | 12,000 | <250 | No sheen |
| | 05/28/98 | | 10.92 | 21.78 | 480 | 99 | 160 | 730 | 4,700 | <250 | No sheen |
| | 08/31/98 | | 12.79 | 19.91 | 200 | 14 | 55 | 220 | 1,400 | 180 | No sheen |
| | 11/19/98 | | 13.39 | 19.31 | 1.4 | <0.5 | <0.5 | <0.5 | <50 | 39 | No sheen |
| | 03/15/99 | | 11.71 | 20.99 | 320 | 17 | 290 | 780 | 3,400 | 33 | No sheen |
| | 06/07/99 | | 13.26 | 19.44 | 220 | 8.9 | 240 | 290 | 3,200 | <25 | No sheen |
| | 09/07/99 | | 9.70 | 23.00 | 8.5 | <0.5 | 8.5 | 12 | 140 | 38 | No sheen |
| | 12/13/99 | | 14.06 | 18.64 | <0.5 | <0.5 | <0.5 | 13 | 140 | <5.0 | No sheen |
| | 03/08/00 | | 11.80 | 20.90 | 0.66 | <0.5 | 2.5 | 30 | 280 | <5.0 | No sheen |
| | 06/12/00 | | 12.99 | 19.71 | 22 | 1.2 | 79 | 170 | 2,700 | 6.4 | No sheen |
| | 11/15/00 | | 14.23 | 18.47 | 36 | 1.6 | 180 | 180 | 4,500 | 10 | No sheen |
| | 02/27/01 | | 12.66 | 20.04 | 33 | 1.6 | 160 | 220 | 2,800 | 110 | No sheen |
| | 05/22/01 | | 13.58 | 19.12 | 49 | 2.2 | 180 | 230 | 3,200 | 240 | No sheen |
| | 09/05/01 | | 14.05 | 18.65 | 28 | 1.0 | 100 | 100 | 2,400 | 560 | No sheen |
| | 11/07/01 | | 14.32 | 18.38 | <2.0 | <2.0 | 2.1 | 20 | 390 | 590 | No sheen |
| | 02/11/02 | | 35.09 | 13.31 | 21.78 | 19 | <5.0 | 59 | 52 | 1,200 | 1,800 |
| 06/03/02 | 13.55 | 21.54 | 44 | <2.0 | 150 | 210 | 3,200 | 610 | No sheen | | |
| 08/06/02 | 14.10 | 20.99 | 42 | <2.0 | 140 | 150 | 3,200 | 820 | No sheen | | |
| MW-6 | 03/12/98 | 30.40 | 10.49 | 19.91 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 05/28/98 | | 10.58 | 19.82 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 08/31/98 | | 10.85 | 19.55 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 11/19/98 | | 10.88 | 19.52 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 03/15/99 | | 10.83 | 19.57 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 06/07/99 | | 11.01 | 19.39 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 09/07/99 | | 11.89 | 18.51 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 12/13/99 | | 12.09 | 18.31 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 03/08/00 | | 10.02 | 20.38 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 06/12/00 | | 11.07 | 19.33 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 11/15/00 | | 12.34 | 18.06 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 02/27/01 | | 10.75 | 19.65 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 05/22/01 | | 11.55 | 18.85 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 09/05/01 | | 12.10 | 18.30 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 11/07/01 | | 12.31 | 18.09 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 02/11/02 | | 32.74 | 11.05 | 21.69 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 |
| 06/03/02 | 11.70 | 21.40 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen | | |
| 08/06/02 | 12.28 | 20.46 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen | | |

TABLE 1
GROUND WATER MONITORING DATA

Tesoro Station No. 67107
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

| Monitoring Well | Date | 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) | Comments |
|-----------------|----------|----------------------------|----------------------------|-----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|----------------|
| MW-7 | 03/12/98 | 31.20 | 10.14 | 21.06 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 05/28/98 | | 10.93 | 20.27 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 08/31/98 | | 12.01 | 19.19 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 11/19/98 | | 12.54 | 18.66 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 03/15/99 | | 10.94 | 20.26 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 06/07/99 | | 12.05 | 19.15 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 09/07/99 | | 12.67 | 18.53 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 12/13/99 | | 12.73 | 18.47 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 03/08/00 | | 10.90 | 20.30 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 06/12/00 | | 12.61 | 18.59 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 11/15/00 | | 13.06 | 18.14 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 02/27/01 | | 11.85 | 19.35 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 05/22/01 | | 12.31 | 18.89 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 09/05/01 | | 12.85 | 18.35 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 11/07/01 | | 12.75 | 18.45 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen |
| | 02/11/02 | | 33.64 | NM | NC | NS | NS | NS | NS | NS | NS |
| | 06/03/02 | 12.58 | 21.06 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | 0.95 | No sheen |
| 08/06/02 | 12.93 | 20.71 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | No sheen | |
| MW-8 | 03/12/98 | 33.80 | 11.81 | 21.99 | 1.4 | <0.5 | <0.5 | <0.5 | 72 | <5.0 | No sheen |
| | 05/28/98 | | 12.14 | 21.66 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 08/31/98 | | 13.16 | 20.64 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 11/19/98 | | 14.56 | 19.24 | 510 | 24 | 1,200 | 2,800 | 14,000 | <5.0 | No sheen |
| | 03/15/99 | | 12.40 | 21.40 | 160 | 16 | 910 | 2,100 | 14,000 | <50 | No sheen |
| | 06/07/99 | | 14.06 | 19.74 | 330 | 14 | 470 | 880 | 7,800 | <50 | No sheen |
| | 09/07/99 | | 14.01 | 19.79 | 150 | 2.6 | 260 | 370 | 3,200 | <5.0 | No sheen |
| | 12/13/99 | | 14.91 | 18.89 | 35 | <5.0 | 280 | 730 | 6,700 | <50 | No sheen |
| | 03/08/00 | | 11.85 | 21.95 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 06/12/00 | | 13.59 | 20.21 | 4.0 | <0.5 | 4.9 | 2.1 | 140 | <5.0 | No sheen |
| | 11/15/00 | | 14.94 | 18.86 | 2.0 | <0.5 | 3.1 | 2.6 | 100 | 110 | No sheen |
| | 02/27/01 | | NM | NC | NS | NS | NS | NS | NS | NS | Tank Over Well |
| | 05/22/01 | | NM | NC | NS | NS | NS | NS | NS | NS | Tank Over Well |
| | 09/05/01 | | 14.68 | 19.12 | 160 | <2.0 | 200 | 330 | 4,800 | 850 | No sheen |
| | 11/07/01 | | 15.10 | 18.70 | 1.1 | <1.0 | 2.0 | 6.1 | <100 | 590 | No sheen |
| | 02/11/02 | | 36.08 | 14.06 | 22.02 | 7.9 | <5.0 | 16 | 22 | <500 | 1,700 |
| | 06/03/02 | 14.25 | 21.83 | 20.0 | <2.0 | 19 | 35 | 550 | 650 | No sheen | |
| 08/06/02 | 14.55 | 21.53 | 220 | <2.0 | 170 | 280 | 4,800 | 1,000 | No sheen | | |
| MW-9 | 03/12/98 | 32.56 | 10.93 | 21.63 | 320 | 23 | 180 | 720 | 3,700 | 190 | No sheen |
| | 05/28/98 | | 11.31 | 21.25 | 110 | 6.4 | 87 | 300 | 2,200 | 220 | No sheen |
| | 08/31/98 | | 12.16 | 20.40 | 240 | 23 | 690 | 1,900 | 11,000 | <50 | No sheen |
| | 11/19/98 | | 11.04 | 21.52 | 7.7 | <0.5 | 10 | 22 | 280 | 67 | No sheen |
| | 03/15/99 | | 11.81 | 20.75 | <0.5 | <0.5 | <0.5 | 1.2 | <50 | <5.0 | No sheen |
| | 06/07/99 | | 12.21 | 20.35 | 9.3 | 0.86 | 9.7 | 12 | 340 | <5.0 | No sheen |
| | 09/07/99 | | 10.10 | 22.46 | 0.76 | <0.5 | 1.9 | 0.8 | 72 | 9.9 | No sheen |
| | 12/13/99 | | 13.64 | 18.92 | <0.5 | <0.5 | <0.5 | <0.5 | 60 | <5.0 | No sheen |
| | 03/08/00 | | 10.88 | 21.68 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <5.0 | No sheen |
| | 06/12/00 | | 12.50 | 20.06 | 0.9 | <0.5 | 2.7 | 1.3 | 640 | 10 | No sheen |
| | 11/15/00 | | 13.60 | 18.96 | <0.5 | <0.5 | 0.69 | <0.5 | 200 | 12 | No sheen |
| | 02/27/01 | | 12.15 | 20.41 | 0.61 | <0.5 | 2.2 | 1.2 | 360 | 42 | No sheen |
| | 05/22/01 | | 13.20 | 19.36 | 0.57 | <0.5 | 2.1 | 0.61 | 330 | 290 | No sheen |
| | 09/05/01 | | 13.10 | 19.46 | <2.0 | <2.0 | <2.0 | <2.0 | <200 | 1,100 | No sheen |
| | 11/07/01 | | 13.85 | 18.71 | 1.0 | <1.0 | <1.0 | <1.0 | 230 | 510 | No sheen |
| | 02/11/02 | | 34.63 | 12.98 | 21.65 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | 41 |
| | 06/03/02 | 12.48 | 22.15 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | 55 | No sheen | |

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67107
 Former Beacon Station No. 3720
 1088 Marina Boulevard
 San Leandro, California

| Monitoring Well | Date | Reference Elevation (ft) ^a | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as gasoline (µg/L) | MTBE (µg/L) | Comments |
|-----------------|----------|---------------------------------------|----------------------------|-----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|----------|
| MW-9 | 08/06/02 | 34.63 | 13.16 | 21.47 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | 65 | No sheen |

(Cont.)

^a = Referenced to mean sea level.

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.

TABLE 2

ADDITIONAL GROUND WATER MONITORING DATA

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

| Monitoring Well | Date | Sample I.D. | Time | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH ^a as gasoline (µg/L) | MTBE ^b (µg/L) | DIPE ^c (µg/L) | ETBE ^d (µg/L) | TAME ^e (µg/L) | TBA ^f (µg/L) | Comments |
|-----------------|----------|-------------|----------|----------------|----------------|----------------------|----------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|----------|
| MW-2 | 10/04/00 | MW-2-IN | 5:58 AM | 150 | <100 | 180 | 390 | <10,000 | 91,000 | NA | NA | NA | NA | |
| | 10/04/00 | MW-2-FI | 8:50 AM | 78 | 54 | 420 | 1,100 | 8,000 | 27,000 | NA | NA | NA | NA | |
| | 10/17/00 | MW-2 | 9:45 AM | 160 | 140 | 2,200 | 6,100 | 86,000 | 26,000 | NA | NA | NA | NA | |
| | 11/29/00 | MW-2-IN | 7:30 AM | 62 | 66 | 1,000 | 3,800 | 19,000 | 12,000 | NA | NA | NA | NA | |
| | 11/29/00 | MW-2-FI | 2:20 PM | 41 | 5.9 | 110 | 240 | 3,600 | 16,000 | NA | NA | NA | NA | |
| | 12/04/00 | MW-2-IN | 10:35 AM | 87 | 82 | 1,300 | 4,400 | 22,000 | 7,900 | <20 | <20 | <20 | 580 | |
| | 12/04/00 | MW-2-FI | 5:30 PM | 51 | <20 | 92 | 190 | 3,300 | 12,000 | <20 | <20 | <20 | 990 | |
| | 05/21/01 | MW-2 | 7:30 AM | 74 | 85 | 500 | 2,000 | 13,000 | 930 | NA | NA | NA | NA | |
| MW-3 | 10/04/00 | MW-3-IN | 8:40 AM | <200 | <200 | <200 | <200 | <20,000 | 150,000 | NA | NA | NA | NA | |
| | 10/04/00 | MW-3-FI | 9:20 AM | 60 | 12 | 54 | 23 | 2,600 | 100,000 | NA | NA | NA | NA | |
| | 10/17/00 | MW-3 | 10:20 AM | 57 | <50 | 50 | <50 | 5,200 | 110,000 | NA | NA | NA | NA | |
| | 11/29/00 | MW-3-IN | 9:30 AM | 94 | <50 | 77 | <50 | <5,000 | 68,000 | NA | NA | NA | NA | |
| | 11/29/00 | MW-3-FI | 4:05 PM | <100 | <100 | <100 | <100 | <10,000 | 61,000 | NA | NA | NA | NA | |
| | 12/04/00 | MW-3-IN | 10:35 AM | 93 | <50 | 74 | <50 | <5,000 | 65,000 | <50 | <50 | 96 | 6,000 | |
| | 12/04/00 | MW-3-FI | 7:10 PM | <100 | <100 | <100 | <100 | <10,000 | 47,000 | <100 | <100 | 100 | 2,700 | |

a) Total Petroleum Hydrocarbon as gasoline

b) Methyl-t-butyl ether

c) Diisopropyl ether

d) Ethyl-t-butyl ether

e) Tert-amyl methyl ether

f) Tert Butanol

µg/L = Micrograms per liter.

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

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

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

| Sample ID | Date | Benzene (ppmv) | Toluene (ppmv) | Ethyl-benzene (ppmv) | Total Xylenes (ppmv) | TPH as gasoline (ppmv) | MTBE (ppmv) |
|------------|----------|----------------|----------------|----------------------|----------------------|------------------------|-------------|
| Mid-Carbon | 07/21/98 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 08/11/98 | <0.05 | 0.06 | <0.05 | 0.071 | <5.0 | NA |
| Mid-Carbon | 08/11/98 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 08/11/98 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 09/10/98 | 0.16 | 0.46 | 0.062 | 0.20 | 16 | NA |
| Mid-Carbon | 09/10/98 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 09/10/98 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 09/23/98 | 0.16 | 0.32 | <0.05 | 0.20 | 9.4 | NA |
| Mid-Carbon | 09/23/98 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 10/20/98 | 0.63 | 0.19 | 0.062 | 0.17 | 28 | NA |
| Mid-Carbon | 10/20/98 | 0.79 | 0.37 | <0.05 | 0.088 | 48 | NA |
| Effluent | 10/20/98 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 11/26/97 | 0.13 | 0.43 | 0.072 | 0.35 | 9.2 | NA |
| Influent | 12/08/99 | 0.73 | 2.2 | 0.15 | 0.71 | 43 | NA |
| Mid-Carbon | 12/08/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 12/08/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 01/13/99 | 0.068 | 0.057 | <0.05 | 0.095 | 6.5 | NA |
| Mid-Carbon | 01/13/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 01/13/99 | <0.05 | <0.05 | <0.05 | <0.05 | 5.4 | NA |
| Effluent | 01/28/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 02/10/99 | 1.1 | 1.2 | 0.071 | 0.28 | 56 | NA |
| Mid-Carbon | 02/10/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 02/10/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 03/10/99 | 0.070 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Mid-Carbon | 03/10/99 | 0.069 | <0.05 | <0.05 | <0.05 | 28 | NA |
| Effluent | 03/10/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 04/07/99 | 0.22 | 0.078 | <0.05 | 0.060 | 17 | NA |
| Influent | 06/08/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Mid-Carbon | 06/08/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 06/08/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

| Sample ID | Date | Benzene (ppmv) | Toluene (ppmv) | Ethyl- benzene (ppmv) | Total Xylenes (ppmv) | TPH as gasoline (ppmv) | MTBE (ppmv) |
|------------|----------|-------------------|-------------------|-----------------------------|----------------------------|------------------------------|----------------|
| Influent | 07/12/99 | 0.16 | 0.77 | <0.05 | 0.18 | 11 | NA |
| Mid-Carbon | 07/12/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 07/12/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 08/09/99 | 0.092 | 1.0 | 0.20 | 0.94 | 12 | NA |
| Mid-Carbon | 08/09/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 08/09/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 09/07/99 | 0.069 | 0.41 | 0.07 | 0.38 | 16 | NA |
| Mid-Carbon | 09/07/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 09/07/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 10/12/99 | 0.96 | 8.6 | 1.1 | 4.7 | 150 | NA |
| Mid-Carbon | 10/12/99 | <0.05 | <0.05 | <0.05 | 0.064 | <5.0 | NA |
| Effluent | 10/12/99 | <0.05 | <0.05 | <0.05 | 0.063 | <5.0 | NA |
| Influent | 11/17/99 | 0.22 | 1.9 | 0.32 | 1.7 | 21 | NA |
| Mid-Carbon | 11/17/99 | 0.067 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 11/17/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 12/28/99 | 1.2 | 22 | 2.4 | 12 | 570 | NA |
| Mid-Carbon | 12/28/99 | 0.052 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 12/28/99 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 01/12/00 | 0.45 | 1.7 | 0.18 | 1.0 | 110 | NA |
| Mid-Carbon | 01/12/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 01/12/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 01/26/00 | 0.059 | 0.77 | 0.19 | 1.1 | 14 | NA |
| Mid-Carbon | 01/26/00 | 0.20 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 01/26/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 02/06/00 | 0.095 | 1.4 | 0.18 | 0.87 | 22 | NA |
| Mid-Carbon | 02/06/00 | 0.20 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 02/06/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

| Sample ID | Date | Benzene (ppmv) | Toluene (ppmv) | Ethyl- benzene (ppmv) | Total Xylenes (ppmv) | TPH as gasoline (ppmv) | MTBE (ppmv) |
|------------|----------|-------------------|-------------------|-----------------------------|----------------------------|------------------------------|----------------|
| Influent | 02/09/00 | 0.45 | 3.1 | 0.52 | 2.8 | 59 | NA |
| Mid-Carbon | 02/09/00 | 0.18 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 02/09/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 03/16/00 | 0.10 | 3.5 | 0.54 | 4.1 | 46 | NA |
| Mid-Carbon | 03/16/00 | 0.83 | 0.31 | <0.05 | <0.05 | 22 | NA |
| Effluent | 03/16/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 04/04/00 | 0.17 | 1.9 | 0.29 | 2.0 | 23 | NA |
| Mid | 04/04/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 04/04/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 05/12/00 | <0.05 | 0.059 | <0.05 | 0.091 | <5.0 | NA |
| Mid | 05/12/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 05/12/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 06/19/00 | <0.05 | 0.12 | <0.05 | <0.05 | <5.0 | NA |
| Mid | 06/19/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 06/19/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 07/25/00 | 2.4 | 8.1 | 0.80 | 3.5 | 140 | NA |
| Mid | 07/25/00 | <0.050 | 0.07 | <0.050 | <0.050 | 12 | NA |
| Effluent | 07/25/00 | <0.05 | <0.05 | <0.05 | <0.05 | 5.4 | NA |
| Influent | 07/25/00 | 2.4 | 8.1 | 0.80 | 3.5 | 140 | NA |
| Mid | 07/25/00 | <0.050 | 0.07 | <0.050 | <0.050 | 12 | NA |
| Effluent | 07/25/00 | <0.05 | <0.05 | <0.05 | <0.05 | 5.4 | NA |
| Influent | 08/09/00 | 2.4 | 8.1 | 0.80 | 3.5 | 140 | NA |
| Mid | 08/09/00 | <0.050 | 0.07 | <0.050 | <0.050 | 12 | NA |
| Effluent | 08/09/00 | <0.05 | <0.05 | <0.05 | <0.05 | 5.4 | NA |
| Influent | 09/06/00 | 2.4 | 8.1 | 0.80 | 3.5 | 140 | NA |
| Mid | 09/06/00 | <0.050 | 0.07 | <0.050 | <0.050 | 12 | NA |
| Effluent | 09/06/00 | <0.05 | <0.05 | <0.05 | <0.05 | 5.4 | NA |
| Influent | 10/17/00 | <0.05 | 0.075 | <0.05 | 0.14 | <5.0 | NA |
| Mid | 10/17/00 | <0.050 | 0.07 | <0.050 | <0.050 | <5.0 | NA |
| Effluent | 10/17/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

| Sample ID | Date | Benzene (ppmv) | Toluene (ppmv) | Ethyl-benzene (ppmv) | Total Xylenes (ppmv) | TPH as gasoline (ppmv) | MTBE (ppmv) |
|------------|----------|----------------|----------------|----------------------|----------------------|------------------------|-------------|
| Influent | 11/29/00 | <0.05 | 0.24 | 0.08 | 0.29 | <5.0 | NA |
| Mid | 11/29/00 | <0.05 | 0.07 | <0.05 | 0.18 | <5.0 | NA |
| Effluent | 11/29/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 12/07/00 | <0.05 | 0.13 | <0.05 | 0.064 | <5.0 | NA |
| Mid | 12/07/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 12/07/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 01/07/01 | 0.12 | 0.85 | 0.16 | 0.92 | 17 | NA |
| Mid | 01/07/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 01/07/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 02/23/01 | 0.19 | 1.6 | 0.19 | 1.1 | 32 | NA |
| Mid | 02/23/01 | <0.05 | 0.07 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 02/23/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 03/01/01 | 0.97 | 1.2 | 0.13 | 0.64 | 18 | NA |
| Mid | 03/01/01 | <0.05 | 0.053 | <0.05 | <0.098 | <5.0 | NA |
| Effluent | 03/01/01 | <0.05 | 0.053 | <0.05 | 0.13 | <5.0 | NA |
| Influent | 10/17/00 | <0.05 | 0.075 | <0.05 | 0.14 | <5.0 | NA |
| Mid-Carbon | 10/17/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 10/17/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 11/29/00 | <0.05 | 0.24 | 0.08 | 0.29 | <5.0 | NA |
| Mid-Carbon | 11/29/00 | <0.05 | 0.07 | <0.05 | 0.18 | <5.0 | NA |
| Effluent | 11/29/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 12/07/00 | <0.05 | 0.13 | <0.05 | 0.064 | <5.0 | NA |
| Mid-Carbon | 12/07/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 12/07/00 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 01/07/01 | 0.12 | 0.85 | 0.16 | 0.92 | 17 | NA |
| Mid-Carbon | 01/07/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 01/07/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 02/23/01 | 0.19 | 1.6 | 0.19 | 1.1 | 32 | NA |
| Mid-Carbon | 02/23/01 | <0.05 | 0.07 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 02/23/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

| Sample ID | Date | Benzene (ppmv) | Toluene (ppmv) | Ethyl- benzene (ppmv) | Total Xylenes (ppmv) | TPH as gasoline (ppmv) | MTBE (ppmv) |
|------------|----------|-------------------|-------------------|-----------------------------|----------------------------|------------------------------|----------------|
| Influent | 03/01/01 | 0.97 | 1.2 | 0.13 | 0.64 | 18 | NA |
| Mid-Carbon | 03/01/01 | <0.05 | 0.053 | <0.05 | 0.098 | <5.0 | NA |
| Effluent | 03/01/01 | <0.05 | 0.11 | <0.05 | 0.13 | <5.0 | NA |
| Influent | 04/18/01 | 0.1 | 0.63 | 0.12 | 0.56 | 18 | NA |
| Mid-Carbon | 04/18/01 | <0.05 | <0.05 | <0.05 | 0.078 | <5.0 | NA |
| Effluent | 04/18/01 | <0.05 | <0.05 | <0.05 | 0.11 | <5.0 | NA |
| Influent | 05/21/01 | 0.088 | 1.0 | 0.31 | 1.5 | 20 | NA |
| Mid-Carbon | 05/21/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 05/21/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 06/05/01 | 0.15 | 1.5 | 0.36 | 1.6 | 24 | NA |
| Mid-Carbon | 06/05/01 | <0.05 | 0.053 | <0.05 | 0.098 | 9.1 | NA |
| Effluent | 06/05/01 | <0.05 | <0.05 | <0.05 | <0.05 | 5.6 | NA |
| Influent | 07/16/01 | <0.05 | 0.11 | <0.05 | 0.14 | <5.0 | NA |
| Mid-Carbon | 07/16/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 07/16/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 08/24/01 | 0.15 | 1.1 | 0.16 | 0.71 | 19 | NA |
| Mid-Carbon | 08/24/01 | <0.05 | 0.055 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 08/24/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 09/06/01 | 0.28 | 1.8 | 0.38 | 1.6 | 37 | NA |
| Mid-Carbon | 09/06/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 09/06/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 11/23/01 | 0.11 | 0.17 | <0.05 | 0.10 | <5.0 | NA |
| Mid-Carbon | 11/23/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 11/23/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 12/13/01 | 0.076 | 0.16 | <0.05 | 0.063 | <5.0 | NA |
| Mid-Carbon | 12/13/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 12/13/01 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 01/29/02 | <0.05 | 0.12 | <0.05 | 0.067 | <5.0 | NA |
| Mid-Carbon | 01/29/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 01/29/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

| Sample ID | Date | Benzene (ppmv) | Toluene (ppmv) | Ethyl- benzene (ppmv) | Total Xylenes (ppmv) | TPH as gasoline (ppmv) | MTBE (ppmv) |
|------------|----------|-------------------|-------------------|-----------------------------|----------------------------|------------------------------|----------------|
| Influent | 03/20/02 | 0.054 | 0.12 | <0.05 | <0.05 | <5.0 | NA |
| Mid-Carbon | 03/20/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 03/20/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 04/18/02 | <0.05 | 0.076 | <0.05 | 0.092 | <5.0 | 0.16 |
| Mid-Carbon | 04/18/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | 2.1 |
| Effluent | 04/18/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | 0.32 |
| Influent | 05/13/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Mid-Carbon | 05/13/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 05/13/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 06/13/02 | <0.05 | 0.07 | <0.05 | <0.05 | <5.0 | NA |
| Mid-Carbon | 06/13/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 06/13/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 07/22/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Mid-Carbon | 07/22/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Effluent | 07/22/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA |
| Influent | 08/21/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | 0.2 |
| Mid-Carbon | 08/21/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | 0.94 |
| Effluent | 08/21/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | 1.5 |
| Influent | 09/23/02 | <0.05 | 0.19 | <0.05 | 0.12 | <5.0 | 1.2 |
| Mid-Carbon | 09/23/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | 1.9 |
| Effluent | 09/23/02 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | 2.0 |

TPH = Total petroleum hydrocarbons.

MTBE = methyl -t-butyl ether

mg/L = Micrograms per liter.

ppmv = parts per million by volume.

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

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

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

**TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS**

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

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

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

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

NC = Not Calculated



R.3 W.

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



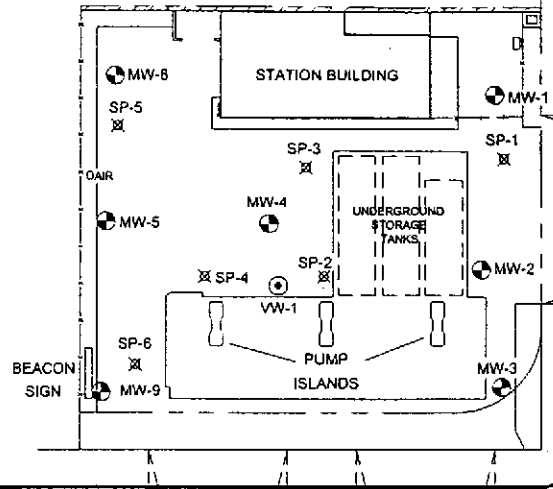
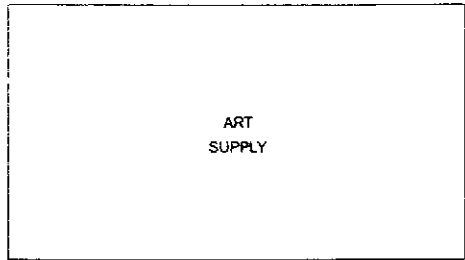
QUADRANGLE LOCATION



| | | |
|--|---------------------------|--|
| FIGURE 1 SITE LOCATION MAP TESORO STATION NO. 67106 (FORMER BEACON STATION NO. 3720) 1088 MARINA BOULEVARD SAN LEANDRO, CA. | | |
| PROJECT NO. 00-3720 | DRAWN BY M.L. 12/18/01 | |
| FILE NO. 00-3720-1A | PREPARED BY ROM | |
| REVISION NO. 1 | REVIEWED BY | |

WAYNE AVENUE

MW-7



MARINA BOULEVARD

MW-6

LEGEND:

- PROPERTY LINE
- FENCE
- MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
- ⊗ SP-1 AIR SPARGING WELL LOCATION



NOTES:

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

FIGURE 2
SITE MAP

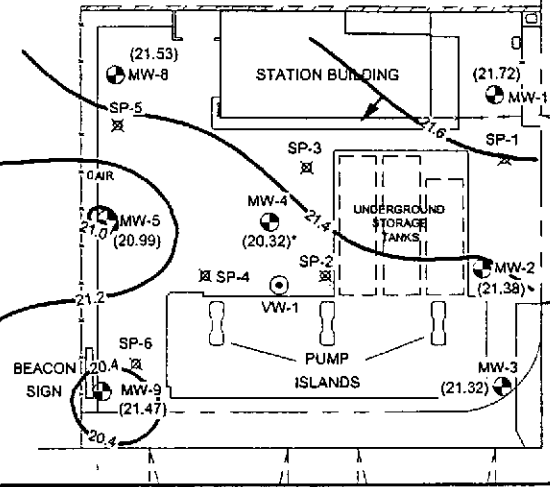
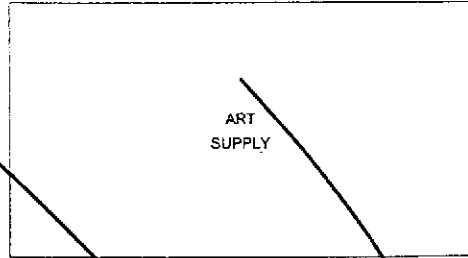
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

| | |
|------------------------|---------------------------|
| PROJECT NO. 00-3720 | DRAWN BY M.L. 12/18/01 |
| FILE NO. 00-3720-6 | PREPARED BY RDM |
| REVISION NO. 1 | REVIEWED BY |



WAYNE AVENUE

MW-7
(20.71)



MARINA BOULEVARD

MW-6
(20.46)

LEGEND:

- PROPERTY LINE
- - - - - FENCE
- ⊙ MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
- ⊗ SP-1 AIR SPARGING WELL LOCATION
- (21.72) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
- 21.2- WATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
- ← GROUND WATER FLOW DIRECTION
- * MW-4 NOT USED FOR CONTOUR CONSTRUCTION



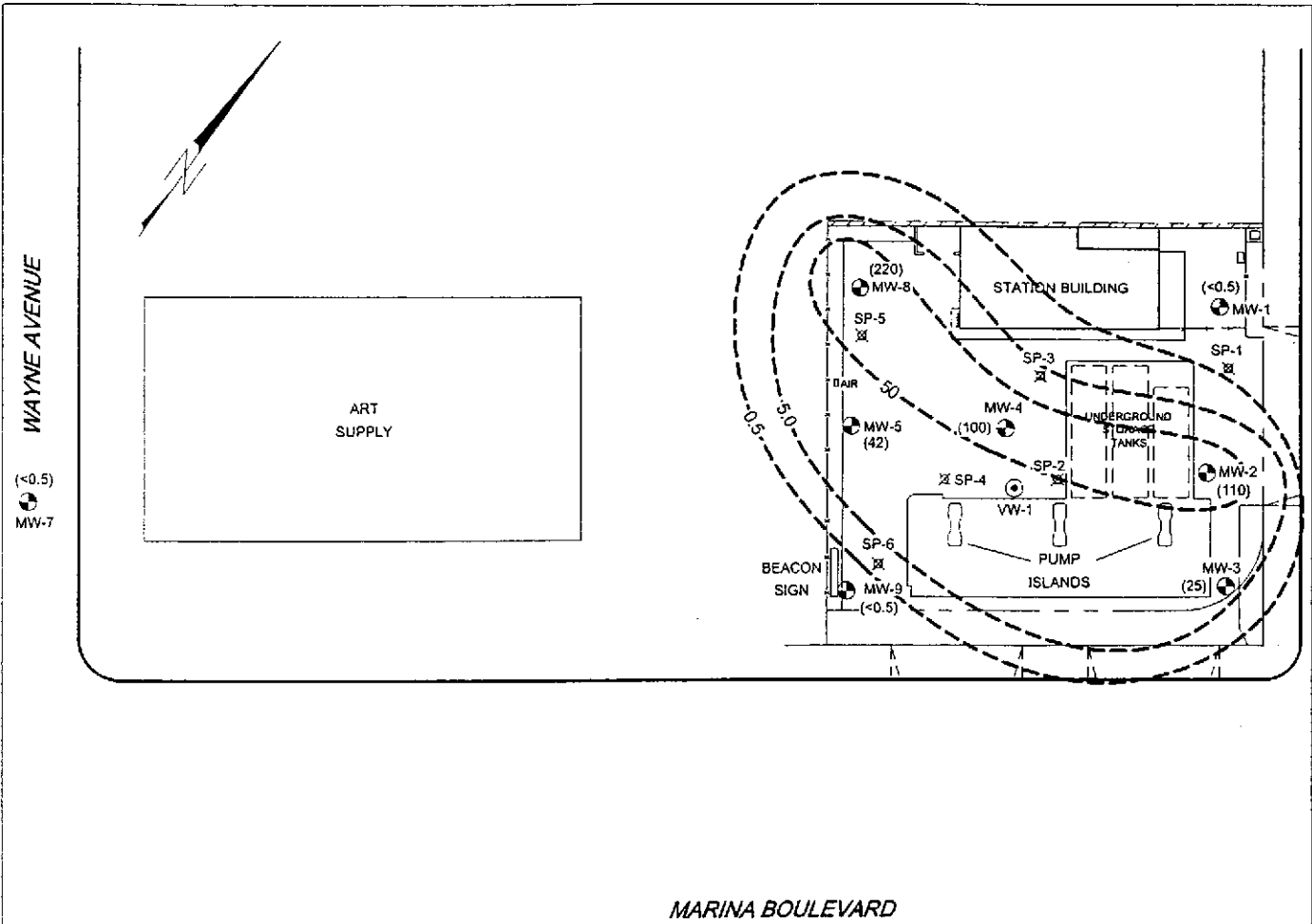
NOTES:

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

FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
8/6/02
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

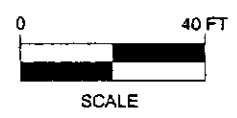
| | |
|------------------------|--------------------------|
| PROJECT NO. 00-3720 | DRAWN BY M.L. 10/3/02 |
| FILE NO. 00-3720-6 | PREPARED BY RDM |
| REVISION NO. 1 | REVIEWED BY |





MARINA BOULEVARD

- LEGEND:
- PROPERTY LINE
 - x-x- FENCE
 - MW-1 MONITORING WELL LOCATION
 - VW-1 VAPOR EXTRACTION WELL LOCATION
 - ⊗ SP-1 AIR SPARGING WELL LOCATION
 - (<math><0.5</math>) BENZENE CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
 - 5.0— BENZENE ISOCONCENTRATION CONTOUR



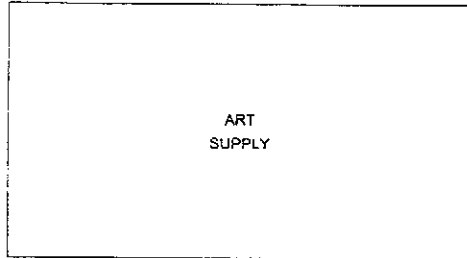
- NOTES:
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
 2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

FIGURE 4
BENZENE ISOCONCENTRATION MAP
 8/6/02
 TESORO STATION NO. 67106
 (FORMER BEACON STATION NO. 3720)
 1088 MARINA BOULEVARD
 SAN LEANDRO, CA.

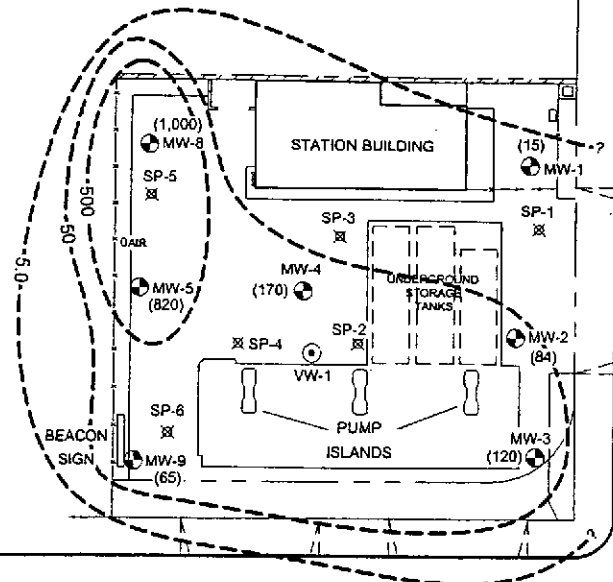
| | |
|------------------------|--------------------------|
| PROJECT NO. 00-3720 | DRAWN BY M.L. 10/3/02 |
| FILE NO. 00-3720-6 | PREPARED BY RDM |
| REVISION NO. 1 | REVIEWED BY |



WAYNE AVENUE



(<0.5)
MW-7



MARINA BOULEVARD

MW-6
(<0.5)

LEGEND:

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



FIGURE 6
MTBE ISOCONCENTRATION MAP
 8/6/02
 TESORO STATION NO. 67106
 (FORMER BEACON STATION NO. 3720)
 1088 MARINA BOULEVARD
 SAN LEANDRO, CA.

NOTES:

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

| | |
|------------------------|--------------------------|
| PROJECT NO. 00-3720 | DRAWN BY M.L. 10/3/02 |
| FILE NO. 00-3720-6 | PREPARED BY RDM |
| REVISION NO. 1 | REVIEWED BY |



HISTORICAL BACKGROUND INFORMATION

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

PREVIOUS OWNER

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

ULTRAMAR INC.

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

HISTORICAL BACKGROUND INFORMATION

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

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

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

Project Address: 1088 Marina Blvd.

Date: 8-6-02

San Leandro

Project No.: 67106

Recorded by: _____

| Well No. | Time | Well Elev. TOC | Depth to Groundwater | Measured Total Depth | Groundwater Elevation | Depth to Product | Product Thickness | Comments |
|----------|------|-------------------|-------------------------|-------------------------|--------------------------|---------------------|----------------------|----------|
| MW-1 | 7:43 | | 13.75 | 17.74 | | | | |
| MW-2 | 7:40 | | 13.73 | 22.71 | | | | |
| MW-3 | 7:37 | | 13.52 | 28.40 | | | | |
| MW-4 | 7:54 | | 15.01 | 27.45 | | | | |
| MW-5 | 7:59 | | 14.10 | 28.80 | | | | |
| MW-6 | 7:33 | | 12.98 | 14.86 | | | | |
| MW-7 | 7:30 | | 12.93 | 25.45 | | | | |
| MW-8 | 7:50 | | 14.55 | 28.05 | | | | |
| MW-9 | 8:03 | | 13.16 | 24.60 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Notes:

Client: Tesoro 67106

Sampling Date: 8-6-09

Site: 1088 Marina Blvd.

Project No.: _____

San Leandro, Ca.

Well Designation: MW-1

Is setup of traffic control devices required? NO YES

Is there standing water in the well box? NO YES

Is top of casing cut level? NO YES

Is well cap sealed and locked? NO YES

Height of well casing riser (in inches): 1

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

12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____

12" CNI 36" CNI _____ 12" Pomeco _____ Other: _____

General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

time: _____ hours
 Above TOC _____ Below TOC
 If no, see remarks
 If no, see remarks

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump

_____ 2" PVC bailer _____ Dedicated bailer

_____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

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

Initial Measurement

Time: 7:43

Depth of well: 17.74

Depth to water: 13.75

Recharge Measurement

Time: 9:34

Depth to water: 14.18

Calculated purge: 9.6

Actual purge: 9.6

Start purge: 9:20

Sampling time: 9:35

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|------|-------------|------|------|-----------|--------|
| 9:21 | 73.6 | 912 | 7.53 | | 1 |
| 9:22 | 74.1 | 906 | 7.50 | | 2 |
| 9:23 | 74.2 | 893 | 7.41 | | 3 |
| 9:24 | 74.5 | 851 | 7.40 | | 4 |
| | | | | | |

Sample appearance: Clear

Lock: Dolphin

Equipment replaced: (check all that apply)

2" Locking Cap: _____

4" Locking Cap: _____

6" Locking Cap: _____

Lock: _____

Lock-Dolphin: _____

Note condition of replaced item(s)

7/32 Allenhead: _____

9/16 Bolt: _____

Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC.

SAMPLING INFORMATION SHEET

Client: Tesoro 67106

Sampling Date: 8-6-08

Site: 1088 Marina Blvd.

Project No.: _____

San Leandro, Ca.

Well Designation: MW-2

Is setup of traffic control devices required? NO YES

time: _____ hours

Is there standing water in the well box? NO YES

Above TOC _____ Below TOC _____

Is top of casing cut level? NO YES

If no, see remarks

Is well cap sealed and locked? NO YES

If no, see remarks

Height of well casing riser (in inches): 3

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

12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____

12" CNI 36" CNI _____ 12" Pomeco _____ Other: _____

General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump

_____ 2" PVC bailer _____ Dedicated bailer

_____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

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

Initial Measurement _____ Recharge Measurement _____

Time: 7:40 _____ Time: 9:14 _____ Calculated purge: 5.7

Depth of well: 22.71 _____ Depth to water: 13.96 _____ Actual purge: 5.7

Depth to water: 13.73

Start purge: 9:06

Sampling time: 9:15

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|------|-------------|------|------|-----------|--------|
| 9:07 | 74.5 | 741 | 7.33 | | 1 |
| 9:08 | 74.6 | 699 | 7.27 | | 2 |
| 9:10 | 74.1 | 690 | 7.20 | | 3 |
| 9:10 | 74.2 | 681 | 7.21 | | 4 |
| | | | | | |

Sample appearance: Clear

Lock: Dolphin

Equipment replaced: (check all that apply)

Note condition of replaced item(s)

2" Locking Cap: _____

Lock: _____ 7/32 Allenhead: _____

4" Locking Cap: _____

Lock-Dolphin: _____ 9/16 Bolt: _____

6" Locking Cap: _____

Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Tesoro 67106

Sampling Date: 8-6-09

Site: 1088 Marina Blvd.

Project No.: _____

San Leandro, Ca.

Well Designation: mw-3

Is setup of traffic control devices required? NO YES

Is there standing water in the well box? NO YES

Is top of casing cut level? NO YES

Is well cap sealed and locked? NO YES

Height of well casing riser (in inches): 1

time: _____ hours

Above TOC _____ Below TOC _____

If no, see remarks

If no, see remarks

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

12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____

12" CNI 36" CNI _____ 12" Pomeco _____ Other: _____

General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump

_____ 2" PVC bailer _____ Dedicated bailer

_____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

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

Initial Measurement

Recharge Measurement

Time: 7:37

Time: 8:50

Calculated purge: 9.5

Depth of well: 28.40

Depth to water: 14.06

Actual purge: 9.5

Depth to water: 13.52

Start purge: 8:41

Sampling time: 8:52

| Time | Temperature. | E.C. | pH | Turbidity | Volume |
|------|--------------|------|------|-----------|--------|
| 8:42 | 73.6 | 712 | 7.34 | | 1 |
| 8:43 | 73.7 | 708 | 7.26 | | 2 |
| 8:44 | 74.1 | 690 | 7.20 | | 3 |
| 8:45 | 74.1 | 656 | 7.18 | | 4 |
| | | | | | |

Sample appearance: clear

Lock: Dolphin

Equipment replaced: (check all that apply)

Note condition of replaced item(s)

2" Locking Cap: _____

Lock: _____ 7/32 Allenhead: _____

4" Locking Cap: _____

Lock-Dolphin: _____ 9/16 Bolt: _____

6" Locking Cap: _____

Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Tesoro 67106

Sampling Date: 8-6-09

Site: 1088 Marina Blvd.

Project No.: _____

San Leandro, Ca.

Well Designation: MW-4

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 2
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

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

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 7:54 Time: 9:53 Calculated purge: 7.9
 Depth of well: 27.45 Depth to water: 16.33 Actual purge: 7.9
 Depth to water: 19.01

Start purge: 9:44 Sampling time: 9:54

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|------|-------------|------|------|-----------|--------|
| 9:45 | 73.6 | 1006 | 7.34 | | 1 |
| 9:46 | 73.7 | 1000 | 7.26 | | 2 |
| 9:47 | 74.1 | 980 | 7.20 | | 3 |
| 9:48 | 74.2 | 960 | 7.16 | | 4 |
| | | | | | |

Sample appearance: Clear Lock: Dolphin

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

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC.

SAMPLING INFORMATION SHEET

Client: Tesoro 67106

Sampling Date: 8-6-02

Site: 1088 Marina Blvd.

Project No.: _____

San Leandro, Ca.

Well Designation: MW-5

Is setup of traffic control devices required? NO YES

Is there standing water in the well box? NO YES

Is top of casing cur level? NO YES

Is well cap sealed and locked? NO YES

time: _____ hours

Above TOC _____ Below TOC _____

If no, see remarks

If no, see remarks

Height of well casing riser (in inches): 6

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

12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____

12" CNI 36" CNI _____ 12" Pomeco _____ Other: _____

General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump

_____ 2" PVC bailer _____ Dedicated bailer

_____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

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

Initial Measurement

Recharge Measurement

Time: 7:59

Time: 10:30

Calculated purge: 9.4

Depth of well: 28.80

Depth to water: 14.96

Actual purge: 9.4

Depth to water: 14.10

Start purge: 10:22

Sampling time: 10:31

| Time | Temperature. | E.C. | pH | Turbidity | Volume |
|-------|--------------|------|------|-----------|--------|
| 10:23 | 72.6 | 806 | 7.33 | | 1 |
| 10:24 | 72.7 | 791 | 7.25 | | 2 |
| 10:25 | 73.1 | 760 | 7.20 | | 3 |
| 10:26 | 73.2 | 756 | 7.18 | | 4 |
| | | | | | |

Sample appearance: Clear

Lock: Delg...

Equipment replaced: (check all that apply)

Note condition of replaced item(s)

2" Locking Cap: _____

Lock: _____ 7/32 Allenhead: _____

4" Locking Cap: _____

Lock-Dolphin: _____ 9/16 Bolt: _____

6" Locking Cap: _____

Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

Client: Tesoro 67106

Sampling Date: 8-6-02

Site: 1088 Marina Blvd.

Project No.:

San Leandro, Ca.

Well Designation: MW-6

Is setup of traffic control devices required? NO YES

Is there standing water in the well box? NO YES

Is top of casing cut level? NO YES

Is well cap sealed and locked? NO YES

time: _____ hours

Above TOC Below TOC

If no, see remarks

If no, see remarks

Height of well casing riser (in inches): 6

Well cover type: 8" or 12" UV

12" EMCO

8" or 12" BK

8" Christy

12" Christy

8" M&D

12" M&D

12" DWP

12" CNI

36" CNI

12" Pomeco

Other:

General condition of wellhead assembly:

Excellent

Good

Fair

Poor

Purging Equipment:

2" disposable bailer

Submersible pump

2" PVC bailer

Dedicated bailer

4" PVC bailer

Centrifugal pump

Sampled with: Disposable bailer

Teflon bailer

Disposable Tubing

Well Diameter: 2"

4"

6"

8"

Purge Vol. Multiplier:

0.16

0.65

1.47

2.61 gal/ft.

Initial Measurement

Recharge Measurement

Time: 7:33

Time: 8:37

Calculated purge: 1.6

Depth of well: 14.86

Depth to water: 12.41

Actual purge: 1.6

Depth to water: 12.28

Start purge: 8:28

Sampling time: 8:38

| Time | Temperature. | E.C. | pH | Turbidity | Volume |
|------|--------------|------|------|-----------|--------|
| 8:29 | 72.8 | 811 | 7.20 | | 1 |
| 8:29 | 73.1 | 806 | 7.16 | | 2 |
| 8:30 | 73.2 | 796 | 7.11 | | 3 |
| 8:31 | 73.9 | 793 | 7.09 | | 4 |
| | | | | | |

Sample appearance: Clear

Lock: *[Signature]*

Equipment replaced: (check all that apply)

Note condition of replaced item(s)

2" Locking Cap: _____

Lock: _____

7/32 Allenhead: _____

4" Locking Cap: _____

Lock-Dolphin: _____

9/16 Bolt: _____

6" Locking Cap: _____

Pinned Allenhead (DWP): _____

Remarks:

Signature:

Client: Tesoro 67106

Sampling Date: 8-6-09

Site: 1088 Marina Blvd.

Project No.: _____

San Leandro, Ca.

Well Designation: MW-7

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 6
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK _____ 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

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

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 7:30 Time: 8:20 Calculated purge: 8.0
 Depth of well: 25.45 Depth to water: 13.46 Actual purge: 8.0
 Depth to water: 12.93

Start purge: 8:10 Sampling time: 8:22

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|------|-------------|------|------|-----------|--------|
| 8:11 | 72.6 | 993 | 7.34 | | 1 |
| 8:11 | 72.7 | 981 | 7.24 | | 2 |
| 8:12 | 73.1 | 960 | 7.19 | | 3 |
| 8:13 | 73.4 | 950 | 7.18 | | 4 |

Sample appearance: Clear Lock: Dolphin

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

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC.

SAMPLING INFORMATION SHEET

Client: Tesoro 67106

Sampling Date: 8-6-02

Site: 1088 Marina Blvd.

Project No.: _____

San Leandro, Ca.

Well Designation: MW-8

Is setup of traffic control devices required? NO YES

Is there standing water in the well box? NO YES

Is top of casing cut level? NO YES

Is well cap sealed and locked? NO YES

time: _____ hours

Above TOC _____ Below TOC _____

If no, see remarks

If no, see remarks

Height of well casing riser (in inches): 6

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

12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____

12" CNI 36" CNI _____ 12" Pomeco _____ Other: _____

General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump

_____ 2" PVC bailer _____ Dedicated bailer

_____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

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

Initial Measurement

Recharge Measurement

Time: 7:50

Time: 10:15

Calculated purge: 8.6

Depth of well: 28.05

Depth to water: 16.08

Actual purge: 8.6

Depth to water: 14.55

Start purge: 10:06

Sampling time: 10:16

| Time | Temperature. | E.C. | pH | Turbidity | Volume |
|-------|--------------|------|------|-----------|--------|
| 10:07 | 72.8 | 1008 | 7.31 | | 1 |
| 10:08 | 73.1 | 968 | 7.22 | | 2 |
| 10:09 | 74.0 | 960 | 7.19 | | 3 |
| 10:10 | 74.6 | 950 | 7.17 | | 4 |
| | | | | | |

Sample appearance: clear

Lock: Dolphin

Equipment replaced: (check all that apply)

Note condition of replaced item(s)

2" Locking Cap: _____

Lock: _____ 7/32 Allenhead: _____

4" Locking Cap: _____

Lock-Dolphin: _____ 9/16 Bolt: _____

6" Locking Cap: _____

Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC.

SAMPLING INFORMATION SHEET

Client: Tesoro 67106

Sampling Date: 8-6-02

Site: 1088 Marina Blvd.

Project No.: _____

San Leandro, Ca.

Well Designation: MW-9

Is setup of traffic control devices required? NO YES

time: _____ hours

Is there standing water in the well box? NO YES

Above TOC _____ Below TOC _____

Is top of casing cut level? NO YES

If no, see remarks

Is well cap sealed and locked? NO YES

If no, see remarks

Height of well casing riser (in inches): 6

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

12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____

12" CNI _____ 36" CNI _____ 12" Pomoco _____ Other: _____

General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump

_____ 2" PVC bailer _____ Dedicated bailer

_____ 4" PVC bailer _____ Centrifugal pump

Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____

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

Initial Measurement

Recharge Measurement

Time: 8:03

Time: 10:51

Calculated purge: 29.7

Depth of well: 24.60

Depth to water: 15.08

Actual purge: 29.7

Depth to water: 13.16

Start purge: 10:40

Sampling time: 10:53

| Time | Temperature | E.C. | pH | Turbidity | Volume |
|-------|-------------|------|------|-----------|--------|
| 10:41 | 74.4 | 1160 | 7.08 | | 1 |
| 10:42 | 74.0 | 1145 | 7.01 | | 2 |
| 10:43 | 73.1 | 1131 | 6.99 | | 3 |
| 10:44 | 73.5 | 1120 | 6.98 | | 4 |
| | | | | | |

Sample appearance: clear

Lock: NA

Equipment replaced: (check all that apply)

Note condition of replaced item(s)

2" Locking Cap: _____

Lock: _____ 7/32 Allenhead: _____

4" Locking Cap: _____

Lock-Dolphin: _____ 9/16 Bolt: _____

6" Locking Cap: _____

Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____



Report Number : 27970

Date : 8/19/02

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 9 Water Samples
Project Name : Tesoro
Project Number : 67106 San Leandro
P.O. Number : AFE23139622

Dear Mr. Munsch,

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

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

Sincerely,



Joel Kiff



Report Number : 27970

Date : 8/19/02

Project Name : Tesoro

Project Number : 67106 San Leandro

Sample : MW-1

Matrix : Water

Lab Number : 27970-01

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 5.0 | 5.0 | ug/L | EPA 8260B | 8/16/02 |
| Toluene | < 5.0 | 5.0 | ug/L | EPA 8260B | 8/16/02 |
| Ethylbenzene | 710 | 5.0 | ug/L | EPA 8260B | 8/16/02 |
| Total Xylenes | 580 | 5.0 | ug/L | EPA 8260B | 8/16/02 |
| Methyl-t-butyl ether (MTBE) | 15 | 5.0 | ug/L | EPA 8260B | 8/16/02 |
| TPH as Gasoline | 22000 | 500 | ug/L | EPA 8260B | 8/16/02 |
| Toluene - d8 (Surr) | 102 | | % Recovery | EPA 8260B | 8/16/02 |
| 4-Bromofluorobenzene (Surr) | 92.6 | | % Recovery | EPA 8260B | 8/16/02 |

Sample : MW-2

Matrix : Water

Lab Number : 27970-02

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 110 | 10 | ug/L | EPA 8260B | 8/16/02 |
| Toluene | 240 | 10 | ug/L | EPA 8260B | 8/16/02 |
| Ethylbenzene | 1700 | 10 | ug/L | EPA 8260B | 8/16/02 |
| Total Xylenes | 4700 | 10 | ug/L | EPA 8260B | 8/16/02 |
| Methyl-t-butyl ether (MTBE) | 84 | 10 | ug/L | EPA 8260B | 8/16/02 |
| TPH as Gasoline | 34000 | 1000 | ug/L | EPA 8260B | 8/16/02 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 8/16/02 |
| 4-Bromofluorobenzene (Surr) | 93.0 | | % Recovery | EPA 8260B | 8/16/02 |

Approved By:  Joel Kiff



Report Number : 27970

Date : 8/19/02

Project Name : Tesoro

Project Number : 67106 San Leandro

Sample : MW-3

Matrix : Water

Lab Number : 27970-03

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 25 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| Toluene | 2.5 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| Ethylbenzene | 12 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| Total Xylenes | 1.1 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| Methyl-t-butyl ether (MTBE) | 120 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| TPH as Gasoline | 2800 | 50 | ug/L | EPA 8260B | 8/16/02 |
| Toluene - d8 (Surr) | 98.2 | | % Recovery | EPA 8260B | 8/16/02 |
| 4-Bromofluorobenzene (Surr) | 97.5 | | % Recovery | EPA 8260B | 8/16/02 |

Sample : MW-4

Matrix : Water

Lab Number : 27970-04

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 100 | 5.0 | ug/L | EPA 8260B | 8/17/02 |
| Toluene | 690 | 5.0 | ug/L | EPA 8260B | 8/17/02 |
| Ethylbenzene | 570 | 5.0 | ug/L | EPA 8260B | 8/17/02 |
| Total Xylenes | 2900 | 5.0 | ug/L | EPA 8260B | 8/17/02 |
| Methyl-t-butyl ether (MTBE) | 170 | 5.0 | ug/L | EPA 8260B | 8/17/02 |
| TPH as Gasoline | 13000 | 500 | ug/L | EPA 8260B | 8/17/02 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 8/17/02 |
| 4-Bromofluorobenzene (Surr) | 92.9 | | % Recovery | EPA 8260B | 8/17/02 |

Approved By:  Joel Kiff



Report Number : 27970

Date : 8/19/02

Project Name : Tesoro

Project Number : 67106 San Leandro

Sample : MW-5

Matrix : Water

Lab Number : 27970-05

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 42 | 2.0 | ug/L | EPA 8260B | 8/16/02 |
| Toluene | < 2.0 | 2.0 | ug/L | EPA 8260B | 8/16/02 |
| Ethylbenzene | 140 | 2.0 | ug/L | EPA 8260B | 8/16/02 |
| Total Xylenes | 150 | 2.0 | ug/L | EPA 8260B | 8/16/02 |
| Methyl-t-butyl ether (MTBE) | 820 | 2.0 | ug/L | EPA 8260B | 8/16/02 |
| TPH as Gasoline | 3200 | 200 | ug/L | EPA 8260B | 8/16/02 |
| Toluene - d8 (Surr) | 98.1 | | % Recovery | EPA 8260B | 8/16/02 |
| 4-Bromofluorobenzene (Surr) | 97.2 | | % Recovery | EPA 8260B | 8/16/02 |

Sample : MW-6

Matrix : Water

Lab Number : 27970-06

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/14/02 |
| Toluene - d8 (Surr) | 93.2 | | % Recovery | EPA 8260B | 8/14/02 |
| 4-Bromofluorobenzene (Surr) | 102 | | % Recovery | EPA 8260B | 8/14/02 |

Approved By:  Joel Kiff



Report Number : 27970

Date : 8/19/02

Project Name : Tesoro

Project Number : 67106 San Leandro

Sample : MW-7

Matrix : Water

Lab Number : 27970-07

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/14/02 |
| Toluene - d8 (Surr) | 92.0 | | % Recovery | EPA 8260B | 8/14/02 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 8/14/02 |

Sample : MW-8

Matrix : Water

Lab Number : 27970-08

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | 220 | 2.0 | ug/L | EPA 8260B | 8/15/02 |
| Toluene | < 2.0 | 2.0 | ug/L | EPA 8260B | 8/15/02 |
| Ethylbenzene | 170 | 2.0 | ug/L | EPA 8260B | 8/15/02 |
| Total Xylenes | 280 | 2.0 | ug/L | EPA 8260B | 8/15/02 |
| Methyl-t-butyl ether (MTBE) | 1000 | 2.0 | ug/L | EPA 8260B | 8/15/02 |
| TPH as Gasoline | 4800 | 200 | ug/L | EPA 8260B | 8/15/02 |
| Toluene - d8 (Surr) | 99.7 | | % Recovery | EPA 8260B | 8/15/02 |
| 4-Bromofluorobenzene (Surr) | 99.8 | | % Recovery | EPA 8260B | 8/15/02 |

Approved By:  Joel Kiff



Report Number : 27970

Date : 8/19/02

Project Name : Tesoro

Project Number : 67106 San Leandro

Sample : MW-9

Matrix : Water

Lab Number : 27970-09

Sample Date :8/6/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| Methyl-t-butyl ether (MTBE) | 65 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/15/02 |
| Toluene - d8 (Surr) | 94.5 | | % Recovery | EPA 8260B | 8/15/02 |
| 4-Bromofluorobenzene (Surr) | 99.5 | | % Recovery | EPA 8260B | 8/15/02 |

Approved By:  Joel Kiff

Report Number : 27970

Date : 8/19/02

QC Report : Method Blank Data

Project Name : Tesoro

Project Number : 67106 San Leandro

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|-------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/14/02 |
| Toluene - dB (Surr) | 99.0 | | % | EPA 8260B | 8/14/02 |
| 4-Bromofluorobenzene (Surr) | 101 | | % | EPA 8260B | 8/14/02 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/14/02 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/14/02 |
| Toluene - dB (Surr) | 97.7 | | % | EPA 8260B | 8/14/02 |
| 4-Bromofluorobenzene (Surr) | 98.9 | | % | EPA 8260B | 8/14/02 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/15/02 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/15/02 |
| Toluene - dB (Surr) | 96.0 | | % | EPA 8260B | 8/15/02 |
| 4-Bromofluorobenzene (Surr) | 99.5 | | % | EPA 8260B | 8/15/02 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|-------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/16/02 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/16/02 |
| Toluene - dB (Surr) | 97.9 | | % | EPA 8260B | 8/16/02 |
| 4-Bromofluorobenzene (Surr) | 98.8 | | % | EPA 8260B | 8/16/02 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 27970

Date : 8/19/02

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

| 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 | 28002-01 | <0.50 | 19.8 | 20.0 | 20.7 | 20.5 | ug/L | EPA 8260B | 8/14/02 | 104 | 103 | 1.81 | 70-130 | 25 |
| Toluene | 28002-01 | <0.50 | 19.8 | 20.0 | 20.1 | 20.0 | ug/L | EPA 8260B | 8/14/02 | 102 | 100 | 1.59 | 70-130 | 25 |
| Tert-Butanol | 28002-01 | 19 | 99.2 | 99.8 | 123 | 124 | ug/L | EPA 8260B | 8/14/02 | 104 | 105 | 0.139 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 28002-01 | <0.50 | 19.8 | 20.0 | 19.2 | 19.4 | ug/L | EPA 8260B | 8/14/02 | 96.9 | 97.3 | 0.360 | 70-130 | 25 |
| Benzene | 28014-02 | <0.50 | 40.0 | 40.0 | 42.7 | 42.1 | ug/L | EPA 8260B | 8/14/02 | 107 | 105 | 1.34 | 70-130 | 25 |
| Toluene | 28014-02 | <0.50 | 40.0 | 40.0 | 38.6 | 35.8 | ug/L | EPA 8260B | 8/14/02 | 96.5 | 89.5 | 7.58 | 70-130 | 25 |
| Tert-Butanol | 28014-02 | <5.0 | 200 | 200 | 188 | 189 | ug/L | EPA 8260B | 8/14/02 | 94.1 | 94.6 | 0.551 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 28014-02 | <0.50 | 40.0 | 40.0 | 42.9 | 42.6 | ug/L | EPA 8260B | 8/14/02 | 107 | 106 | 0.748 | 70-130 | 25 |
| Benzene | 27970-09 | <0.50 | 40.0 | 40.0 | 43.3 | 41.8 | ug/L | EPA 8260B | 8/15/02 | 108 | 104 | 3.62 | 70-130 | 25 |
| Toluene | 27970-09 | <0.50 | 40.0 | 40.0 | 38.7 | 38.2 | ug/L | EPA 8260B | 8/15/02 | 96.8 | 95.5 | 1.27 | 70-130 | 25 |
| Tert-Butanol | 27970-09 | <5.0 | 200 | 200 | 194 | 194 | ug/L | EPA 8260B | 8/15/02 | 96.8 | 96.9 | 0.0878 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 27970-09 | 65 | 40.0 | 40.0 | 107 | 104 | ug/L | EPA 8260B | 8/15/02 | 105 | 97.5 | 7.60 | 70-130 | 25 |
| Benzene | 28039-01 | <0.50 | 40.0 | 40.0 | 41.1 | 40.2 | ug/L | EPA 8260B | 8/16/02 | 103 | 100 | 2.29 | 70-130 | 25 |
| Toluene | 28039-01 | <0.50 | 40.0 | 40.0 | 39.9 | 39.3 | ug/L | EPA 8260B | 8/16/02 | 99.8 | 98.4 | 1.44 | 70-130 | 25 |
| Tert-Butanol | 28039-01 | <5.0 | 200 | 200 | 194 | 197 | ug/L | EPA 8260B | 8/16/02 | 97.2 | 98.5 | 1.26 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 28039-01 | 4.5 | 40.0 | 40.0 | 43.2 | 43.5 | ug/L | EPA 8260B | 8/16/02 | 96.9 | 97.6 | 0.745 | 70-130 | 25 |

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 27970

Date : 8/19/02

QC Report : Laboratory Control Sample (LCS)

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|----------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Benzene | 20.0 | ug/L | EPA 8260B | 8/14/02 | 104 | 70-130 |
| Toluene | 20.0 | ug/L | EPA 8260B | 8/14/02 | 102 | 70-130 |
| Tert-Butanol | 100 | ug/L | EPA 8260B | 8/14/02 | 101 | 70-130 |
| Methyl-t-Butyl Ether | 20.0 | ug/L | EPA 8260B | 8/14/02 | 95.8 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 8/14/02 | 104 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 8/14/02 | 99.6 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 8/14/02 | 94.2 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 8/14/02 | 97.8 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 8/15/02 | 101 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 8/15/02 | 94.2 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 8/15/02 | 91.0 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 8/15/02 | 96.7 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 8/16/02 | 104 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 8/16/02 | 97.5 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 8/16/02 | 94.2 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 8/16/02 | 96.8 | 70-130 |

KIFF ANALYTICAL, LLC

Approved By:


Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

ENCLOSURE D

Historical Ground Water Monitoring Data

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ENCLOSURE E

Remediation System Analytical Results



Report Number : 27616

Date : 7/24/2002

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Air Samples
Project Name : Former 3720
Project Number : 67106
P.O. Number : 67106

Dear Mr. Munsch,

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

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

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 27616

Date : 7/24/2002

Project Name : Former 3720

Project Number : 67106

Sample : SVE-Inf

Matrix : Air

Lab Number : 27616-01

Sample Date :7/22/2002

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Toluene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Total Xylenes | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 7/24/2002 |
| Toluene - d8 (Surr) | 96.6 | | % Recovery | EPA 8260B | 7/24/2002 |
| 4-Bromofluorobenzene (Surr) | 106 | | % Recovery | EPA 8260B | 7/24/2002 |

Sample : SVE-MID

Matrix : Air

Lab Number : 27616-02

Sample Date :7/22/2002

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Toluene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Total Xylenes | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 7/24/2002 |
| Toluene - d8 (Surr) | 96.5 | | % Recovery | EPA 8260B | 7/24/2002 |
| 4-Bromofluorobenzene (Surr) | 105 | | % Recovery | EPA 8260B | 7/24/2002 |

Approved By:  Joel Kiff



Report Number : 27616

Date : 7/24/2002

Project Name : Former 3720

Project Number : 67106


Sample : SVE-Eff

Matrix : Air

Lab Number : 27616-03

Sample Date : 7/22/2002

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Toluene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| Total Xylenes | < 0.050 | 0.050 | ppmv | EPA 8260B | 7/24/2002 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 7/24/2002 |
| Toluene - d8 (Surr) | 95.0 | | % Recovery | EPA 8260B | 7/24/2002 |
| 4-Bromofluorobenzene (Surr) | 104 | | % Recovery | EPA 8260B | 7/24/2002 |

Approved By:  Joel Kiff



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4803

Lab No. 27616 Page 1 of 1

Project Contact (Hardcopy or PDF To):
Richard Munsch

EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Company/Address:
RDM Environmental

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

Phone No.: (916) 771-7098 FAX No.: (916) 771-4584
 Project Number: 67106 P.O. No.: 67106

Global ID:
 EDF Deliverable To (Email Address):

Project Address:
1088 Marina Blvd.

Sampler Signature:

Project Name:
Farmer 3720

Sample Designation

| Date | Time | Container | | | | Preservative | | | | Matrix | |
|---------|------|-----------|--------|--------|--|--------------|------------------|-----|------|--------|------|
| | | 40 ml VOA | SLEEVE | Tedlar | | HCl | HNO ₃ | ICE | NONE | WATER | SOIL |
| 6/22/02 | 2:02 | | X | | | | | | X | | |
| 6/24/02 | 2:01 | | X | | | | | | X | | |
| 6/22/01 | 2:00 | | X | | | | | | X | | |

| Analysis Request | | | | | | | | | | TAT | | |
|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|-----|---|------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | 12 hr/24 hr/48 hr/72 hr <i>12 hr</i> | For Lab Use Only |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | |
| | | | | | | | | | | | | |

Relinquished by:

Date: _____ Time: _____ Received by: _____

Remarks: STAT

Relinquished by: _____

Date: _____ Time: _____ Received by: _____

Relinquished by: _____

Date: 07/02 Time: 0810 Received by Laboratory: Munsch/KIFF

Billed to: Tesoro Petroleum
Mr. Rob Romano



Report Number : 28169

Date : 8/28/02

Project Name : 67106

Project Number : 67106

Sample : SVE-Inf

Matrix : Air

Lab Number : 28169-01

Sample Date :8/21/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Toluene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Total Xylenes | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Methyl-t-butyl ether | 0.20 | 0.10 | ppmv | EPA 8260B | 8/23/02 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 8/23/02 |
| Toluene - d8 (Surr) | 100 | | % Recovery | EPA 8260B | 8/23/02 |
| 4-Bromofluorobenzene (Surr) | 104 | | % Recovery | EPA 8260B | 8/23/02 |

Sample : SVE-MID

Matrix : Air

Lab Number : 28169-02

Sample Date :8/21/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Toluene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Total Xylenes | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Methyl-t-butyl ether | 0.94 | 0.10 | ppmv | EPA 8260B | 8/23/02 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 8/23/02 |
| Toluene - d8 (Surr) | 99.1 | | % Recovery | EPA 8260B | 8/23/02 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 8/23/02 |

Approved By:  Joel Kiff



Report Number : 28169

Date : 8/28/02

Project Name : 67106

Project Number : 67106


Sample : SVE-Eff

Matrix : Air

Lab Number : 28169-03

Sample Date :8/21/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Toluene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Total Xylenes | < 0.050 | 0.050 | ppmv | EPA 8260B | 8/23/02 |
| Methyl-t-butyl ether | 1.5 | 0.10 | ppmv | EPA 8260B | 8/23/02 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 8/23/02 |
| Toluene - d8 (Surr) | 99.8 | | % Recovery | EPA 8260B | 8/23/02 |
| 4-Bromofluorobenzene (Surr) | 104 | | % Recovery | EPA 8260B | 8/23/02 |

Approved By:  Joel Kiff



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 28169 Page 1 of 1

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

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

Phone No.: (916) 774-7698 FAX No.: (916) 771-4584
 Project Number: 67106 P.O. No.: 67106
 Global ID: _____

Project Name: 67106
 EDF Deliverable To (Email Address): _____

Project Address: 1088 Marina Blvd
San Leandro
 Sample Signature: [Signature]

Chain-of-Custody Record and Analysis Request

Analysis Request

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

| Sample Designation | Sampling | | Container | | Preservative | | | | Matrix | |
|--------------------|----------|------|-----------|---------|--------------|------------------|-----|------|--------|------|
| | Date | Time | 40 ml VOA | SLEEVE | HCl | HNO ₃ | ICE | NONE | WATER | SOIL |
| SVE-Luf | 8/21/02 | 8:10 | | FF Tech | | | | | | |
| SVE-MID | 8/21/02 | 8:08 | | FF Tech | | | | | | |
| SVE-SFF | 8/21/02 | 8:06 | | FF Tech | | | | | | |

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

Remarks: STAT

Bill to: Teresa Petalena
Rob Fishburn



Report Number : 28818

Date : 10/1/02

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

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

Dear Mr. Munsch,

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

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

Sincerely,


Joel Kiff



Report Number : 28818

Date : 10/1/02

Project Name : 67106

Project Number : 67106

Sample : SVE-INF

Matrix : Air

Lab Number : 28818-01

Sample Date :9/23/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Toluene | 0.19 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Total Xylenes | 0.12 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Methyl-t-butyl ether | 1.2 | 0.10 | ppmv | EPA 8260B | 9/25/02 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 9/25/02 |
| Toluene - d8 (Surr) | 97.0 | | % Recovery | EPA 8260B | 9/25/02 |
| 4-Bromofluorobenzene (Surr) | 109 | | % Recovery | EPA 8260B | 9/25/02 |

Sample : SVE-MID

Matrix : Air

Lab Number : 28818-02

Sample Date :9/23/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Toluene | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Total Xylenes | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Methyl-t-butyl ether | 1.9 | 0.10 | ppmv | EPA 8260B | 9/25/02 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 9/25/02 |
| Toluene - d8 (Surr) | 97.2 | | % Recovery | EPA 8260B | 9/25/02 |
| 4-Bromofluorobenzene (Surr) | 108 | | % Recovery | EPA 8260B | 9/25/02 |

Approved By:  Joel Kiff



Report Number : 28818

Date : 10/1/02

Project Name : 67106

Project Number : 67106

Sample : SVE-EFF

Matrix : Air

Lab Number : 28818-03

Sample Date :9/23/02

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|------------|-----------------|---------------|
| Benzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Toluene | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Ethylbenzene | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Total Xylenes | < 0.050 | 0.050 | ppmv | EPA 8260B | 9/25/02 |
| Methyl-t-butyl ether | 2.0 | 0.10 | ppmv | EPA 8260B | 9/25/02 |
| TPH as Gasoline | < 5.0 | 5.0 | ppmv | EPA 8260B | 9/25/02 |
| Toluene - d8 (Surr) | 100 | | % Recovery | EPA 8260B | 9/25/02 |
| 4-Bromofluorobenzene (Surr) | 102 | | % Recovery | EPA 8260B | 9/25/02 |

Approved By:  Joel Kiff



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

Lab No. 28818

Page 1 of 1

Project Contact (Hardcopy or PDF To): Richard Munsel

California EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Company/Address: RM Environmental

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

Phone No.: (916) 771-7098 FAX No.: (916) 771-1584
Project Number: 67106 P.O. No.: 67106

Global ID: _____
EDF Deliverable To (Email Address): _____

Project Name: 67106 Sampler Signature: [Signature]

Project Address: 1088 Marina Blvd. San Leandro

| Sample Designation | Sampling | | Container | | | | Preservative | | | | Matrix | | |
|--------------------|----------|-------|-----------|--------|--------|-----|------------------|-----|------|-------|--------|-----|--|
| | Date | Time | 40 ml VOA | SLEEVE | Tedlar | HCl | HNO ₃ | ICE | NONE | WATER | SOIL | AIR | |
| SVE - Inf | 9/23/01 | 11:00 | | | | | | | X | | | f | |
| SVE - MID | 9/23/01 | 12:58 | | | | | | | X | | | f | |
| SVE - Eff | 9/23/01 | 12:56 | | | | | | | X | | | f | |

| Analysis Request | | | | | | | | | | | | | | TAT |
|------------------|---------------------------------|-----------------------|--------------------------|---------------------------|-----------------------------------|-----------------------------------|----------------------|----------------------|--|-----------------------|----------------------------------|------------------|----------------------|------------------------------|
| BTEX (8021B) | BTEX/TPH Gas/MTBE (8021B/M8015) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | TPH Gas/BTEX/MTBE (8280B) | 5 Oxygenates/TPH Gas/BTEX (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 8280B) | Lead (7421239-2) | TOTAL (X) W.E.T. (X) | 12 hr/24 hr/48 hr/72 hr/1 wk |
| X | X | | | | | | | | | | | | | |

For Lab Use Only

| | | | |
|-------------------------------------|---------------------|-------------------|--|
| Relinquished by: <u>[Signature]</u> | Date: _____ | Time: _____ | Received by: _____ |
| Relinquished by: _____ | Date: _____ | Time: _____ | Received by: _____ |
| Relinquished by: _____ | Date: <u>092402</u> | Time: <u>1515</u> | Received by Laboratory: <u>[Signature]</u> |

Remarks: STAT

Bill to: Teson Petroleum
Rob Donovan



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 27970

Page 1 of 1

Project Contact (Hardcopy or PDF to):
 Richard Munsch

EDF Report? Yes No

Company/Address:
 RDM

771-7098 771-4584

Project Number: 67106 San Leandro P.O. No.: AFE 23139622

Project Name: Tesoro

Sampler Signature (below):
Edgar Obando

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

Global ID: T0600101409

EDF Deliverable to (Email Address):
 rmunsch@rcsls.com

Project Address:
 San Leandro

Chain-of-Custody Record and Analysis Request

Analysis Request

| Analysis Request | TAT |
|--|--|
| BTEX (8021B) | 12 hr/24 hr/48 hr/72 hr/1 wk For Lab Use Only |
| 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) | |

| Sample Designation | Date | Time | Sampling | | Container | | Preservative | | | | Matrix | |
|--------------------|--------|-------|-----------|--------|-----------|------------------|--------------|------|-------|------|--------|--|
| | | | 40 ml VOA | SLEEVE | HCl | HNO ₃ | ICE | NONE | WATER | SOIL | | |
| MW-1 | 8-6-09 | 9:35 | ✓ | | X | | X | | | X | | |
| MW-2 | | 9:15 | | | | | | | | | | |
| MW-3 | | 8:59 | | | | | | | | | | |
| MW-4 | | 9:54 | | | | | | | | | | |
| MW-5 | | 10:31 | | | | | | | | | | |
| MW-6 | | 8:38 | | | | | | | | | | |
| MW-7 | | 8:22 | | | | | | | | | | |
| MW-8 | | 10:16 | | | | | | | | | | |
| MW-9 | | 10:53 | ✓ | | ✓ | | ✓ | | | ✓ | | |

| | | | | |
|-------------------------------------|------|------|-------------------------|----------|
| Relinquished by: <i>[Signature]</i> | Date | Time | Received by: | Remarks: |
| Relinquished by: <i>[Signature]</i> | Date | Time | Received by: | |
| Relinquished by: | Date | Time | Received by Laboratory: | |

080902 1805 *Osama Albulaini* / KIFF Analytical

Bill to: *Rob Donovan*