

RO 484

# C A M B R I A

July 1, 2005

Mr. Don Hwang  
Alameda County Environmental Health Services  
UST Local Oversight Program  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Alameda County  
Environmental Health  
JUL 08 2005



Re: **Second Quarter 2005 Monitoring Report**  
Former ARCO Service Station  
706 Harrison Street  
Oakland, California  
STID 3749  
Fuel Leak Case RO0000484  
Cambria Project #230-0116

Dear Mr. Hwang:

On behalf of Mr. Bo K. Gin, Cambria Environmental Technology, Inc. is submitting this *Second Quarter 2005 Monitoring Report* for the subject site. The report describes the second quarter 2005 activities and results as well as the anticipated third quarter 2005 activities.

If you have any questions or comments regarding this report, please call me at (510) 420-3314.

Sincerely,  
**Cambria Environmental Technology, Inc.**

Matthew A. Meyers  
Project Geologist

Attachments: *Second Quarter 2005 Monitoring Report*

cc: Mr. Bo K. Gin, 342 Lester Avenue, Oakland, California 94606  
Mr. Robert Kitay, Aqua Science Engineering, 208 W. Pintado Road, Danville, California 94526

**Cambria  
Environmental  
Technology, Inc.**

5900 Hollis Street  
Suite A  
Emeryville, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

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## SECOND QUARTER 2005 MONITORING REPORT

Former ARCO Service Station  
706 Harrison Street  
Oakland, California  
STID 3749  
Fuel Leak Case RO0000484

July 1, 2005



*Prepared for:*

Mr. Bo K. Gin  
342 Lester Avenue  
Oakland, California 94606

Alameda County  
Environmental Health  
JUL 6 8 2005

*Prepared by:*

Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, California 94608

*Written by:*

  
Matthew A. Meyers  
Project Geologist



  
Brandon S. Wilken, P.G.  
Project Geologist

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## SECOND QUARTER 2005 MONITORING REPORT

**Former ARCO Service Station**

**706 Harrison Street**

**Oakland, California**

**STID 3749**

**Fuel Leak Case RO0000484**

**Cambria Project #230-0116**

**July 1, 2005**

### INTRODUCTION



On behalf of Mr. Bo K. Gin, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Second Quarter 2005 Monitoring Report* for the subject site. Presented below are the second quarter 2005 groundwater monitoring activities and results and the anticipated third quarter 2005 activities.

Figure 1 displays the groundwater elevation data and summarizes the hydrochemical data. Table 1 presents current and historical groundwater level measurements, calculated groundwater elevation data, and hydrochemical data. Appendix A contains the field data sheets for this monitoring event. Appendix B contains the laboratory analytical report. Appendix C contains benzene and MTBE concentration and groundwater elevation versus time graphs. Appendix D contains the GeoTracker electronic delivery confirmation documentation. Appendix E contains the joint monitoring groundwater elevation and analytical data for the neighboring former Shell Station.

### SECOND QUARTER 2005 ACTIVITIES

#### Monitoring Activities

**Field Activities:** On April 27, 2005, Muskan Environmental Sampling (MES) conducted quarterly monitoring and sampling activities. MES gauged water levels and collected groundwater samples from monitoring wells MW-1 through MW-7 (Figure 1) pursuant to the well sampling schedule. The groundwater depth measurements have been submitted to the GeoTracker database (Appendix D).

Prior to sampling, groundwater levels were gauged in the wells to evaluate groundwater elevation and flow patterns at the site. To facilitate groundwater sampling, MES purged approximately three well-casing volumes of groundwater prior to sampling. MES recorded groundwater pH, conductivity, temperature, and evaluated reading stabilization. Groundwater samples were collected using clean, disposable bailers and were decanted into the appropriate containers supplied by the analytical laboratory. Samples were labeled, placed in protective foam sleeves, stored on crushed ice at or below 4 degrees Celsius and transported under chain-of-custody protocol to the laboratory. Field data sheets are presented as Appendix A.

**Sample Analyses:** Groundwater samples from wells MW-1, MW-2, MW-4, MW-6, and MW-7 were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified United States Environmental Protection Agency (EPA) Method SW8015C; and benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by EPA Method SW8021B. Samples from wells MW-4, MW-6, and MW-7 were analyzed for MTBE by EPA Method SW8260B to confirm detections by EPA Method SW8021B, particularly, anomalous detections in wells MW-6 and MW-7. The analytical laboratory report is included as Appendix B. Groundwater analytical results are shown on Table 1 and summarized on Figure 1. The groundwater analytical results have been submitted to the GeoTracker database (Appendix D).



## Monitoring Results

**Groundwater Gradient:** Based on depth-to-water measurements collected during the monitoring event on April 27, 2005, groundwater generally flows towards the south-southwest with a gradient of 0.012 feet per foot (Figure 1). The gradient and flow direction is consistent with historical data. Depth-to-water and groundwater elevation data for the site are presented in Table 1.

**Hydrocarbon Distribution in Groundwater:** Hydrocarbons were detected in wells MW-2 and MW-4 during this sampling event (Table 1). The highest TPHg and BTEX concentrations were detected in well MW-2 at 61,000 micrograms per liter ( $\mu\text{g}/\text{L}$ ), 2,800  $\mu\text{g}/\text{L}$ , 11,000  $\mu\text{g}/\text{L}$ , 1,600  $\mu\text{g}/\text{L}$ , and 7,000  $\mu\text{g}/\text{L}$ , respectively.

Hydrocarbon concentrations in onsite well MW-1, downgradient well MW-6, and crossgradient well MW-7 remained at or near laboratory detection limits. Hydrocarbon concentrations in source area well MW-2 continued to decline. Hydrocarbon concentrations in upgradient well MW-4 (TPHg at 3,000  $\mu\text{g}/\text{L}$ ; benzene at 520  $\mu\text{g}/\text{L}$ ; toluene at 100  $\mu\text{g}/\text{L}$ ; xylenes at 86  $\mu\text{g}/\text{L}$ ) are increasing (Table 1 and Appendix C).

**MTBE Distribution in Groundwater:** MTBE was detected in upgradient well MW-4 and crossgradient well MW-7 during this sampling event. The highest MTBE concentration was detected in upgradient well MW-4 at 480  $\mu\text{g}/\text{L}$ .

MTBE concentrations in upgradient well MW-4 remained stable. Crossgradient well MW-7 contained 1.3  $\mu\text{g}/\text{L}$  MTBE, which is the third quarter out of the last four quarters that MTBE has been detected in this well. However, no MTBE was detected in well MW-6 this quarter (Table 1 and Appendix C).

## **CONCLUSIONS AND RECOMMENDATIONS**

No anomalous hydrocarbon concentrations were detected in down/crossgradient well MW-6 during this sampling event. MTBE concentrations were detected in crossgradient well MW-7 in three out of the last four quarters. No MTBE has been observed in these wells since sampling began in 1994. Due to the present and historic groundwater flow directions, proximity of these wells to the former Unocal Station, and previous analytical results, it is Cambria's opinion that the hydrocarbons detected recently in wells MW-6 and MW-7 may be due to an offsite source. Cambria recommends continued groundwater monitoring to establish concentration trends.

The subject site's former underground storage tanks (USTs) were used from 1963 to 1985 and removed in 1991. Since the USTs were removed prior to the addition of MTBE to gasoline (1988), the concentrations of MTBE observed in site wells are likely from an offsite source. Since initiating joint monitoring with the adjacent former Shell Service Station, groundwater flow directions have consistently been toward the south-southwest. It is Cambria's opinion that the neighboring property's hydrocarbon and MTBE plume is migrating on to the subject site, as seen in well MW-4 laboratory results. Cambria understands that the neighboring property has undergone a transfer of ownership, which has postponed the initiation of remedial work. Cambria also understands that the transfer of ownership is now complete and that the property now has a functioning business operating on it. Several letters (dated December 11, 2003, April 6, 2004, July 26, 2004, and March 21, 2005) have been issued by the Alameda County Health Care Services Agency (ACHCSA) to the neighboring site requesting further remedial action. It is Cambria's opinion that these continued delays are directly impacting the subject site. Thus it is strongly requested that prompt remedial action be initiated on the neighboring upgradient property. If no action is taken, Cambria will pursue closure with ACHCSA and/or the State Water Resources Control Board (SWRCB).

## **ANTICIPATED THIRD QUARTER 2005 ACTIVITIES**

### **Monitoring Activities**

Cambria will gauge water levels in wells MW-1 through MW-7 and collect groundwater samples from wells MW-1 through MW-7. Pursuant to ACHCSA's letter dated February 25, 2003, the well sampling schedule was revised so that wells MW-1, MW-2, and MW-4 are sampled on a quarterly basis and wells MW-3, MW-5, MW-6, and MW-7 are sampled on a semi-annual basis during the first and third quarters. However, due to recent detections of hydrocarbons and/or MTBE in wells MW-6 and MW-7, Cambria will resume quarterly sampling of these wells. Groundwater samples will be analyzed for TPHg by EPA Method SW8015C, and BTEX and MTBE by EPA Method SW8021B. Groundwater samples from wells MW-6 and MW-7 will be analyzed for MTBE by EPA Method SW8260B. Should MTBE be detected in other samples by EPA Method SW8021C, the detection

# C A M B R I A

Second Quarter 2005 Monitoring Report  
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706 Harrison Street, Oakland  
July 1, 2005

will be confirmed using EPA Method SW8260B. Cambria will prepare a groundwater monitoring report summarizing the monitoring activities and results.

## **Assessment Activities**

Cambria plans to submit a work plan that will propose the collection of post-remediation soil and groundwater samples from the former 6,000-gallon UST cavity and from the vicinity of MW-2.

## **ATTACHMENTS**



Figure 1 – Groundwater Elevation Contour and Hydrocarbon Concentration Map

Table 1 -- Groundwater Elevations and Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – Laboratory Analytical Report

Appendix C – Benzene and MTBE Concentration Graphs

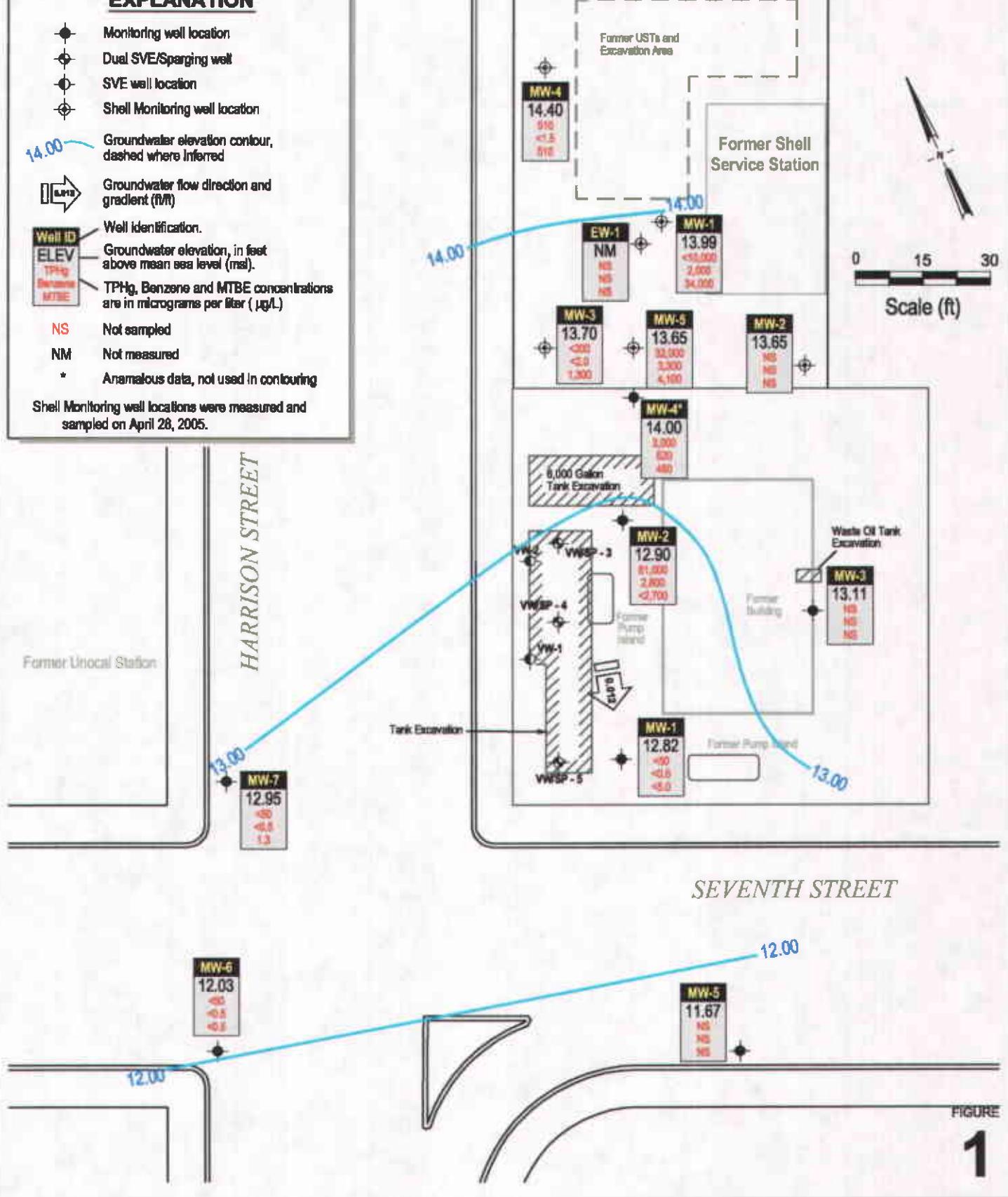
Appendix D – GeoTracker Electronic Delivery Confirmations

Appendix E – Former Shell Station Groundwater Monitoring and Analytical Results

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**EXPLANATION**

- Monitoring well location
  - Dual SVE/Sparging well
  - SVE well location
  - Shell Monitoring well location
  - Groundwater elevation contour, dashed where inferred
  - Groundwater flow direction and gradient (ft/ft)
  - Well identification.
  - Well ID: MW-4  
ELEV: 14.40  
TPHg: <1.5  
Benzene: <1.5  
MTBE: 34,000
  - Groundwater elevation, in feet above mean sea level (msl).
  - TPHg, Benzene and MTBE concentrations are in micrograms per liter ( $\mu\text{g/L}$ ).
  - NS: Not sampled
  - NM: Not measured
  - \*: Anomalous data, not used in contouring
- Shell Monitoring well locations were measured and sampled on April 28, 2005.



# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data:** Former ARCO Station - 706 Harrison Street, Oakland, California

| Well ID<br>TOC<br>Sampling Frequency | Date Sampled | Depth to Water (ft) | Groundwater Elevation (ft-msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE by 8021C (µg/L) | MTBE by 8260B (µg/L) | Notes         |
|--------------------------------------|--------------|---------------------|--------------------------------|-------------|----------------|----------------|---------------------|----------------|----------------------|----------------------|---------------|
| MW-1                                 | 8/13/1993    | 17.40               | 11.75                          | 20,000      | 8,500          | 640            | 280                 | 440            | -                    | -                    |               |
| 29.15                                | 12/14/1993   | 17.27               | 11.88                          | 17,000      | 9,200          | 1,200          | 4,400               | 540            | -                    | -                    |               |
| Quarterly                            | 4/15/1994    | 17.00               | 12.15                          | 9,500       | 3,600          | 530            | 160                 | 280            | -                    | -                    |               |
|                                      | 12/29/1994   | 16.40               | 12.75                          | -           | -              | -              | -                   | -              | -                    | -                    |               |
|                                      | 7/19/1996    | 15.83               | 13.32                          | 17,000      | 5,200          | 1,100          | 330                 | 530            | -                    | -                    | sheen/odor    |
|                                      | 1/27/1997    | 13.58               | 15.57                          | 30,000      | 9,800          | 1,300          | 790                 | 880            | 400                  | -                    | b, sheen/odor |
|                                      | 6/18/1997    | 16.11               | 13.04                          | 19,000      | 5,600          | 1,400          | 510                 | 770            | 1,200                | 800                  | a, b          |
|                                      | 9/18/1997    | 16.62               | 12.53                          | 48,000      | 18,000         | 4,400          | 1,000               | 1,700          | <640                 | -                    | b             |
|                                      | 12/10/1997   | 15.93               | 13.22                          | 22,000      | 4,900          | 1,300          | 580                 | 650            | 460                  | 260                  | a, b, odor    |
|                                      | 2/18/1998    | 11.56               | 17.59                          | 16,000      | 5,000          | 750            | 400                 | 780            | 1,800                | -                    | b             |
|                                      | 5/12/1998    | 13.53               | 15.62                          | 19,000      | 4,600          | 810            | 450                 | 770            | 5,500                | -                    | b, c          |
|                                      | 8/18/1998    | 15.19               | 13.96                          | 12,000      | 3,600          | 1,300          | 300                 | 570            | 5,100                | 3,700                | a, b          |
|                                      | 11/24/1998   | 15.67               | 13.48                          | 13,000      | 3,600          | 890            | 330                 | 380            | 6,100                | -                    | b             |
|                                      | 2/4/1999     | 15.31               | 13.84                          | 20,000      | 5,900          | 830            | 450                 | 500            | 4,900                | -                    | b             |
|                                      | 5/18/1999    | 14.95               | 14.20                          | 23,000      | 7,000          | 1,600          | 520                 | 830            | 6,100                | -                    | b             |
|                                      | 8/27/1999    | 15.84               | 13.31                          | 19,000      | 5,800          | 1,700          | 410                 | 710            | 1,800                | 2,100                | a, b          |
|                                      | 11/18/1999   | 16.39               | 12.76                          | 20,000      | 4,900          | 630            | 410                 | 580            | 4,900                | 3,600                | b             |
|                                      | 2/29/2000    | 13.43               | 15.72                          | 12,000      | 2,800          | 24             | 290                 | 170            | 3,100                | 3,400                | a             |
|                                      | 5/25/2000    | 15.08               | 14.07                          | 12,000      | 2,200          | 120            | 330                 | 260            | 9,100                | 12,000               | a, b          |
|                                      | 8/9/2000     | 16.09               | 13.06                          | 13,000      | 2,500          | 44             | 310                 | 140            | 16,000               | -                    | b             |
|                                      | 11/9/2000    | 15.90               | 13.25                          | 11,000      | 2,500          | 140            | 380                 | 150            | 11,000               | 12,000               | b             |
|                                      | 1/29/2001    | 16.05               | 13.10                          | 9,600       | 3,100          | 100            | 77                  | 200            | 2,600                | 2,400                | b             |
|                                      | 4/16/2001    | 16.90               | 12.25                          | 3,300       | 1,200          | 4.4            | 2.7                 | 28             | 900                  | 940                  | b             |
|                                      | 8/14/2001    | 17.13               | 12.02                          | 2,000       | 500            | 3.4            | 24                  | 7.8            | 68                   | 53                   | a             |
|                                      | 10/22/2001   | 16.11               | 13.04                          | 220         | 83             | 0.63           | 2.8                 | <0.5           | <10                  | 5.7                  | a             |
|                                      | 2/1/2002     | 16.93               | 12.22                          | 640         | 220            | 1.7            | 4.7                 | 0.57           | <10                  | -                    | a             |
|                                      | 5/10/2002    | 15.09               | 14.06                          | 230         | 26             | 0.97           | <0.5                | <0.5           | <5.0                 | -                    | a             |
|                                      | 7/8/2002     | 15.20               | 13.95                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | <0.5                 |               |
|                                      | 10/2/2002    | 15.70               | 13.45                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    |               |
|                                      | 1/23/2003    | 15.09               | 14.06                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    |               |
|                                      | 4/29/2003    | 13.02               | 16.13                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    |               |
| 26.17                                | 7/18/2003    | 14.50               | 11.67                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    |               |
|                                      | 10/9/2003    | 13.81               | 12.36                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    |               |
|                                      | 1/28/2004    | 13.09               | 13.08                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    |               |
|                                      | 4/7/2004     | 14.97               | 11.20                          | 180         | 60             | 0.56           | 1.9                 | <0.5           | <5.0                 | -                    | a             |
|                                      | 7/23/2004    | 14.15               | 12.02                          | 130         | 36             | <0.5           | 0.65                | <0.5           | <5.0                 | -                    | a             |
|                                      | 10/12/2004   | 16.30               | 9.87                           | <50         | 2.5            | 1.5            | <0.5                | 0.86           | <5.0                 | -                    |               |
|                                      | 2/14/2005    | 13.85               | 12.32                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    |               |
|                                      | 4/27/2005    | 13.35               | 12.82                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    |               |

# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data:** Former ARCO Station - 706 Harrison Street, Oakland, California

| Well ID<br>TOC<br>Sampling Frequency | Date Sampled | Depth to Water (ft) | Groundwater Elevation (ft-msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE by 8021C (µg/L) | MTBE by 8260B (µg/L) | Notes         |
|--------------------------------------|--------------|---------------------|--------------------------------|-------------|----------------|----------------|---------------------|----------------|----------------------|----------------------|---------------|
| MW-2                                 | 8/13/1993    | 17.05               | 13.46                          | 34,000      | 6,800          | 10,000         | 740                 | 3,900          | -                    | -                    |               |
| 30.51                                | 12/14/1993   | 18.28               | 12.23                          | 16,000      | 3,200          | 4,200          | 500                 | 1,700          | -                    | -                    |               |
| Quarterly                            | 4/15/1994    | 18.10               | 12.41                          | 23,000      | 2,500          | 4,200          | 470                 | 1,800          | -                    | -                    |               |
|                                      | 12/29/1994   | 17.40               | 13.11                          | -           | -              | -              | -                   | -              | -                    | -                    |               |
|                                      | 7/19/1996    | 16.72               | 13.79                          | 90,000      | 7,300          | 14,000         | 1,600               | 7,300          | -                    | -                    | odor          |
|                                      | 1/27/1997    | 14.89               | 15.62                          | 63,000      | 7,100          | 13,000         | 1,600               | 7,100          | 500                  | -                    | b, odor       |
|                                      | 6/18/1997    | 17.12               | 13.39                          | 52,000      | 5,100          | 10,000         | 1,400               | 6,000          | <200                 | -                    | b             |
|                                      | 9/18/1997    | 17.63               | 12.88                          | 110,000     | 9,400          | 23,000         | 2,600               | 13,000         | <890                 | -                    | b, sheen/odor |
|                                      | 12/10/1997   | 16.98               | 13.53                          | 39,000      | 2,600          | 5,300          | 940                 | 3,900          | 780                  | 320                  | b, odor       |
|                                      | 2/18/1998    | 12.61               | 17.90                          | 85,000      | 9,000          | 19,000         | 2,300               | 11,000         | 2,400                | -                    | b             |
|                                      | 5/12/1998    | 14.45               | 16.06                          | 110,000     | 9,500          | 21,000         | 2,500               | 12,000         | <1,200               | -                    | b             |
|                                      | 8/18/1998    | 16.14               | 14.37                          | 64,000      | 6,000          | 13,000         | 1,700               | 7,800          | 2,000                | 1,300                | a, b          |
|                                      | 11/24/1998   | 16.70               | 13.81                          | 78,000      | 5,300          | 14,000         | 2,300               | 11,000         | <2,000               | -                    | b, g          |
|                                      | 2/4/1999     | 18.39               | 12.12                          | 66,000      | 5,800          | 16,000         | 2,600               | 12,000         | 3,000                | -                    | b, g          |
|                                      | 5/18/1999    | 15.90               | 14.61                          | 78,000      | 6,700          | 17,000         | 2,400               | 10,000         | 4,300                | -                    | b             |
|                                      | 8/27/1999    | 16.79               | 13.72                          | 91,000      | 7,400          | 17,000         | 2,300               | 11,000         | 1,200                | 1,000                | a, b          |
|                                      | 11/18/1999   | 17.32               | 13.19                          | 180,000     | 7,000          | 20,000         | 3,300               | 16,000         | <6,000               | 1,700                | b,g           |
|                                      | 2/29/2000    | 14.37               | 16.14                          | 86,000      | 5,500          | 13,000         | 2,000               | 9,500          | 3,500                | 4,700                | a             |
|                                      | 5/25/2000    | 16.01               | 14.50                          | 110,000     | 6,300          | 14,000         | 2,400               | 10,000         | 7,500                | 6,500                | a, b, g       |
|                                      | 8/9/2000     | 17.02               | 13.49                          | 77,000      | 5,000          | 13,000         | 2,000               | 8,600          | 5,900                | -                    | b             |
|                                      | 11/9/2000    | 17.00               | 13.51                          | 70,000      | 4,800          | 12,000         | 1,900               | 8,000          | 9,400                | 8,300                | b             |
|                                      | 1/29/2001    | 18.31               | 12.20                          | 110,000     | 8,200          | 21,000         | 2,800               | 13,000         | 2,500                | 1,900                | b,g           |
|                                      | 4/16/2001    | 18.59               | 11.92                          | 97,000      | 7,400          | 15,000         | 2,500               | 12,000         | <3,000               | <50                  | b,g           |
|                                      | 8/14/2001    | 18.74               | 11.77                          | 97,000      | 6,200          | 14,000         | 2,400               | 13,000         | <250                 | <50                  | a,j           |
|                                      | 10/22/2001   | 18.27               | 12.24                          | 71,000      | 5,900          | 15,000         | 2,400               | 12,000         | <1,400               | 150                  | a             |
|                                      | 2/1/2002     | 18.05               | 12.46                          | 1,400       | 11             | 88             | 44                  | 210            | <5.0                 | -                    | a             |
|                                      | 5/10/2002    | 17.15               | 13.36                          | 97,000      | 4,500          | 15,000         | 2,500               | 12,000         | <3,000               | -                    | a,g           |
|                                      | 7/8/2002     | 15.30               | 15.21                          | 42,000      | 2,100          | 6,500          | 2,200               | 8,800          | <1,000               | 65                   | a             |
|                                      | 10/2/2002    | 15.89               | 14.62                          | 70,000      | 1,700          | 5,700          | 1,900               | 8,300          | <1,700               | -                    | a             |
|                                      | 1/23/2003    | 17.51               | 13.00                          | 40,000      | 1,900          | 7,800          | 1,200               | 5,600          | <1,000               | -                    | a             |
|                                      | 4/29/2003    | 15.31               | 15.20                          | 82,000      | 2,500          | 11,000         | 2,200               | 9,400          | <2,000               | -                    | a             |
| 27.53                                | 7/18/2003    | 16.84               | 10.69                          | 57,000      | 2,100          | 8,700          | 2,200               | 10,000         | -                    | <50                  | a             |
|                                      | 10/9/2003    | 16.05               | 11.48                          | 49,000      | 1,800          | 7,000          | 1,700               | 7,600          | <1,500               | 26                   | a             |
|                                      | 1/28/2004    | 15.39               | 12.14                          | 550         | 21             | 33             | 3.0                 | 61             | <100                 | -                    | a             |
|                                      | 4/7/2004     | 16.01               | 11.52                          | 41,000      | 2,500          | 11,000         | 1,900               | 8,000          | <2,000               | -                    | a             |
|                                      | 7/23/2004    | 15.30               | 12.23                          | 81,000      | 2,000          | 12,000         | 2,500               | 12,000         | <2,000               | -                    | a,h           |
|                                      | 10/12/2004   | 17.87               | 9.66                           | 75,000      | 2,600          | 13,000         | 2,300               | 11,000         | <1,300               | -                    | a             |
|                                      | 2/14/2005    | 14.80               | 12.73                          | 75,000      | 2,600          | 12,000         | 2,400               | 10,000         | <1,800               | -                    | a,h           |
|                                      | 4/27/2005    | 14.63               | 12.90                          | 61,000      | 2,800          | 11,000         | 1,600               | 7,000          | <2,700               | -                    | a             |

# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data:** Former ARCO Station - 706 Harrison Street, Oakland, California

| Well ID<br>TOC<br>Sampling<br>Frequency | Date Sampled | Depth to<br>Water<br>(ft) | Groundwater<br>Elevation<br>(ft-msl) | TPHg<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Xylenes<br>(µg/L) | MTBE by<br>8021C<br>(µg/L) | MTBE by<br>8260B<br>(µg/L) | Notes |
|---|--------------|---------------------------|--------------------------------------|----------------|-------------------|-------------------|------------------------|-------------------|----------------------------|----------------------------|-------|
| MW-3                                    | 8/13/1993    | 17.05                     | 12.72                                | <50            | <0.50             | <0.50             | <0.50                  | <1.5              | -                          | -                          |       |
| 29.77                                   | 12/14/1993   | 17.70                     | 12.07                                | <50            | <0.50             | <0.50             | <0.50                  | <1.5              | -                          | -                          |       |
| Semi-annually                           | 4/15/1994    | 17.40                     | 12.37                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | -                          | -                          |       |
|   | 12/29/1994   | 16.80                     | 12.97                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/19/1996    | 16.28                     | 13.49                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | -                          | -                          |       |
|   | 1/27/1997    | 13.83                     | 15.94                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 6/18/1997    | 16.53                     | 13.24                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 9/18/1997    | 17.07                     | 12.70                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 12/10/1997   | 16.15                     | 13.62                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 2/18/1998    | 11.80                     | 17.97                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/12/1998    | 13.85                     | 15.92                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 8/18/1998    | 15.57                     | 14.20                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/24/1998   | 16.04                     | 13.73                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 2/4/1999     | 17.80                     | 11.97                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/18/1999    | 15.29                     | 14.48                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 8/27/1999    | 16.15                     | 13.62                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/18/1999   | 16.77                     | 13.00                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/29/2000    | 13.71                     | 16.06                                | <50            | 2                 | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/25/2000    | 15.46                     | 14.31                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 8/9/2000     | 16.46                     | 13.31                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/9/2000    | 16.25                     | 13.52                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/29/2001    | 16.52                     | 13.25                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/16/2001    | 16.95                     | 12.82                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 8/14/2001    | 17.11                     | 12.66                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/22/2001   | 16.50                     | 13.27                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/1/2002     | 16.90                     | 12.87                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/10/2002    | 15.03                     | 14.74                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/8/2002     | 14.45                     | 15.32                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/2/2002    | 15.03                     | 14.74                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/23/2003    | 15.48                     | 14.29                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/29/2003    | 12.49                     | 17.28                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
| 26.79                                   | 7/18/2003    | 14.80                     | 11.99                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/9/2003    | 14.13                     | 12.66                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/28/2004    | 13.47                     | 13.32                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/7/2004     | 15.41                     | 11.38                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/23/2004    | 14.54                     | 12.25                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/12/2004   | 16.58                     | 10.21                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/14/2005    | 14.19                     | 12.60                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/27/2005    | 13.68                     | 13.11                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |

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**Table 1. Groundwater Elevations and Analytical Data:** Former ARCO Station - 706 Harrison Street, Oakland, California

| Well ID<br>TOC<br>Sampling Frequency | Date Sampled | Depth to Water (ft) | Groundwater Elevation (ft-msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE by 8021C (µg/L) | MTBE by 8260B (µg/L) | Notes |
|--------------------------------------|--------------|---------------------|--------------------------------|-------------|----------------|----------------|---------------------|----------------|----------------------|----------------------|-------|
| MW-4                                 | 12/16/1994   | 18.10               | 13.08                          | 2,500       | 32             | 6.5            | 4.5                 | 17             | -                    | -                    |       |
| 31.18                                | 12/29/1994   | 17.95               | 13.23                          | -           | -              | -              | -                   | -              | -                    | -                    |       |
| Quarterly                            | 7/19/1996    | 17.38               | 13.80                          | 3,300       | 520            | 39             | 67                  | 60             | -                    | -                    |       |
|                                      | 1/27/1997    | 15.25               | 15.93                          | 4,500       | 860            | 55             | 100                 | 91             | 1,100                | -                    | b     |
|                                      | 6/18/1997    | 17.61               | 13.57                          | 2,700       | 700            | 52             | 81                  | 76             | 2,200                | 2,300                | a, b  |
|                                      | 9/18/1997    | 18.01               | 13.17                          | 3,900       | 760            | 38             | 56                  | 64             | <170                 | -                    | b     |
|                                      | 12/10/1997   | 17.45               | 13.73                          | 12,000      | 1,800          | 120            | 210                 | 210            | 2,900                | 2,600                | a, b  |
|                                      | 2/18/1998    | 13.09               | 18.09                          | 1,700       | 210            | 8              | 6.7                 | 16             | 200                  | -                    | b     |
|                                      | 5/12/1998    | 14.78               | 16.40                          | 2,100       | 300            | 15             | 36                  | 34             | 920                  | -                    | b, c  |
|                                      | 8/18/1998    | 16.59               | 14.59                          | 4,700       | 1,000          | 130            | 110                 | 150            | 5,200                | 4,900                | a, b  |
|                                      | 11/24/1998   | 17.18               | 14.00                          | 3,000       | 810            | 44             | 76                  | 94             | 4,800                | -                    | b     |
|                                      | 2/4/1999     | 18.90               | 12.28                          | 2,800       | 770            | 50             | 69                  | 69             | 3,100                | -                    | b     |
|                                      | 5/18/1999    | 16.30               | 14.88                          | 4,000       | 780            | 57             | 7.7                 | 79             | 4,800                | -                    | b     |
|                                      | 8/27/1999    | 17.21               | 13.97                          | 4,100       | 870            | 51             | 74                  | 99             | 3,300                | 4,100                | a, b  |
|                                      | 11/18/1999   | 17.77               | 13.41                          | 3,000       | 760            | 43             | 67                  | 65             | 5,100                | 5,400                | b     |
|                                      | 2/29/2000    | 14.85               | 16.33                          | 4,600       | 1,000          | 64             | 94                  | 170            | 4,100                | 4,600                | a     |
|                                      | 5/25/2000    | 16.45               | 14.73                          | 2,600       | 540            | 39             | 59                  | 41             | 3,500                | 5,300                | b     |
|                                      | 8/9/2000     | 17.47               | 13.71                          | 4,400       | 930            | 66             | 98                  | 79             | 9,400                | -                    | b     |
|                                      | 11/9/2000    | 17.45               | 13.73                          | 4,200       | 630            | 34             | 54                  | 44             | 7,800                | 9,400                | b     |
|                                      | 1/29/2001    | 18.90               | 12.28                          | 3,100       | 710            | 34             | 66                  | 51             | 9,400                | 8,000                | b     |
|                                      | 4/16/2001    | 19.17               | 12.01                          | 160         | 1.2            | 1.3            | <0.5                | 12             | 22                   | 20                   | b     |
|                                      | 8/14/2001    | 19.20               | 11.98                          | 1,700       | 190            | 11             | 35                  | 13             | 300                  | 250                  | b     |
|                                      | 10/22/2001   | 18.95               | 12.23                          | 1,100       | 120            | 3.7            | 29                  | 7.9            | <25                  | 16                   | a     |
|                                      | 2/1/2002     | 19.05               | 12.13                          | 2,600       | 25             | 43             | 21                  | 280            | <5.0                 | -                    | a     |
|                                      | 5/10/2002    | 17.69               | 13.49                          | 490         | 3.5            | 2.0            | 2.1                 | 2.2            | <5.0                 | -                    | a     |
|                                      | 7/8/2002     | 15.75               | 15.43                          | 170         | 0.51           | 0.62           | 1.6                 | 1.2            | <5.0                 | 2.0                  | m     |
|                                      | 10/2/2002    | 16.30               | 14.88                          | 240         | 1.7            | 2.0            | 2.2                 | 0.88           | <5.0                 | -                    | a     |
|                                      | 1/23/2003    | 17.74               | 13.44                          | <50         | 0.52           | 4.1            | <0.5                | 1.9            | <5.0                 | -                    |       |
|                                      | 4/29/2003    | 15.47               | 15.71                          | 1,300       | 75             | 4.8            | 21                  | 7.3            | 130                  | 120                  | a     |
| 28.20                                | 7/18/2003    | 17.08               | 11.12                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | -                    | 0.74                 | a     |
|                                      | 10/9/2003    | 16.25               | 11.95                          | 210         | 4.7            | 0.57           | 1.6                 | 1.1            | <10                  | 10                   | a     |
|                                      | 1/28/2004    | 15.65               | 12.55                          | <50         | <0.5           | <0.5           | <0.5                | <0.5           | <5.0                 | -                    | a     |
|                                      | 4/7/2004     | 16.49               | 11.71                          | -           | -              | -              | -                   | -              | -                    | -                    |       |
|                                      | 4/12/2004    | -                   | -                              | 770         | 56             | 3.2            | 7.0                 | 6.5            | 120                  | 160                  | a     |
|                                      | 7/23/2004    | 15.86               | 12.34                          | 1,100       | 130            | 11             | 17                  | 17             | 790                  | 800                  | a     |
|                                      | 10/12/2004   | 18.05               | 10.15                          | 150         | 0.86           | <0.5           | <0.5                | 0.97           | <10                  | -                    | a     |
|                                      | 2/14/2005    | 15.30               | 12.90                          | 1,500       | 200            | 16             | 30                  | 31             | 420                  | 550                  | a     |
|                                      | 4/27/2005    | 14.20               | 14.00                          | 3,000       | 520            | 100            | 27                  | 86             | 600                  | 480                  | a     |

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**Table 1. Groundwater Elevations and Analytical Data:** Former ARCO Station - 706 Harrison Street, Oakland, California

| Well ID<br>TOC<br>Sampling<br>Frequency | Date Sampled | Depth to<br>Water<br>(ft) | Groundwater<br>Elevation<br>(ft-msl) | TPHg<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Xylenes<br>(µg/L) | MTBE by<br>8021C<br>(µg/L) | MTBE by<br>8260B<br>(µg/L) | Notes |
|---|--------------|---------------------------|--------------------------------------|----------------|-------------------|-------------------|------------------------|-------------------|----------------------------|----------------------------|-------|
| MW-5                                    | 12/16/1994   | 16.07                     | 11.97                                | <50            | 1.1               | <0.5              | <0.5                   | 2.4               | -                          | -                          |       |
| 28.04                                   | 12/29/1994   | 16.10                     | 11.94                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
| Semi-annually                           | 7/19/1996    | 15.49                     | 12.55                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | -                          | -                          |       |
|   | 1/27/1997    | 13.60                     | 14.44                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 6/18/1997    | 15.55                     | 12.49                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 9/18/1997    | 16.16                     | 11.88                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 12/10/1997   | 15.41                     | 12.63                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 2/18/1998    | 10.93                     | 17.11                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/12/1998    | 13.25                     | 14.79                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 8/18/1998    | 14.75                     | 13.29                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/24/1998   | 15.15                     | 12.89                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 2/4/1999     | 14.61                     | 13.43                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/18/1999    | 14.15                     | 13.89                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 8/27/1999    | 15.43                     | 12.61                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/18/1999   | 15.97                     | 12.07                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/29/2000    | 13.16                     | 14.88                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/25/2000    | 14.72                     | 13.32                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 8/9/2000     | 15.68                     | 12.36                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/9/2000    | 15.39                     | 12.65                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/29/2001    | 15.97                     | 12.07                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/16/2001    | 16.24                     | 11.80                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 8/14/2001    | 17.39                     | 10.65                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/22/2001   | 15.90                     | 12.14                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/1/2002     | 16.55                     | 11.49                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/10/2002    | 15.12                     | 12.92                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/8/2002     | 15.92                     | 12.12                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/2/2002    | 16.42                     | 11.62                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/23/2003    | 14.90                     | 13.14                                | <50            | 20                | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/29/2003    | 12.05                     | 15.99                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
| 25.07                                   | 7/18/2003    | 14.28                     | 10.79                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/9/2003    | 13.36                     | 11.71                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/28/2004    | 12.68                     | 12.39                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/7/2004     | 14.71                     | 10.36                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/23/2004    | 13.49                     | 11.58                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | i     |
|   | 10/12/2004   | 15.88                     | 9.19                                 | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/14/2005    | 13.22                     | 11.85                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | i     |
|   | 4/27/2005    | 13.40                     | 11.67                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |

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**Table 1. Groundwater Elevations and Analytical Data:** Former ARCO Station - 706 Harrison Street, Oakland, California

| Well ID<br>TOC<br>Sampling<br>Frequency | Date Sampled | Depth to<br>Water<br>(ft) | Groundwater<br>Elevation<br>(ft-msl) | TPHg<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Xylenes<br>(µg/L) | MTBE by<br>8021C<br>(µg/L) | MTBE by<br>8260B<br>(µg/L) | Notes |
|---|--------------|---------------------------|--------------------------------------|----------------|-------------------|-------------------|------------------------|-------------------|----------------------------|----------------------------|-------|
| MW-6                                    | 12/16/1994   | 17.74                     | 11.36                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
| 29.10                                   | 12/29/1994   | 17.40                     | 11.70                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
| Semi-annually                           | 7/19/1996    | 16.60                     | 12.50                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | -                          | -                          |       |
|   | 1/27/1997    | 14.88                     | 14.22                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 6/18/1997    | 16.73                     | 12.37                                | 51             | 22                | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | c     |
|   | 9/18/1997    | 17.24                     | 11.86                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 12/10/1997   | 16.56                     | 12.54                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 2/18/1998    | 12.93                     | 16.17                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/12/1998    | 14.35                     | 14.75                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 8/18/1998    | 15.94                     | 13.16                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/24/1998   | 16.46                     | 12.64                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 2/4/1999     | 18.25                     | 10.85                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/18/1999    | 15.73                     | 13.37                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 8/27/1999    | 15.64                     | 13.46                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/18/1999   | 17.04                     | 12.06                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/29/2000    | 14.55                     | 14.55                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/25/2000    | 15.86                     | 13.24                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 8/9/2000     | 16.80                     | 12.30                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/9/2000    | 16.60                     | 12.50                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/29/2001    | 17.00                     | 12.10                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/16/2001    | 17.15                     | 11.95                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 8/14/2001    | 17.30                     | 11.80                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/22/2001   | 17.13                     | 11.97                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/1/2002     | 16.57                     | 12.53                                | 70             | 37                | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | a     |
|   | 5/10/2002    | 15.25                     | 13.85                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/8/2002     | 15.79                     | 13.31                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/2/2002    | 16.38                     | 12.72                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/23/2003    | 16.03                     | 13.07                                | <50            | 21                | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/29/2003    | 14.19                     | 14.91                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
| 26.13                                   | 7/18/2003    | 15.47                     | 10.66                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/9/2003    | 14.73                     | 11.40                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/28/2004    | 14.05                     | 12.08                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/7/2004     | 14.41                     | 11.72                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/23/2004    | 15.15                     | 10.98                                | 3,300          | 1,300             | <5.0              | 52                     | 9.7               | <50                        | -                          | a     |
|   | 10/12/2004   | 17.29                     | 8.84                                 | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/14/2005    | 14.60                     | 11.53                                | 350            | 160               | <0.5              | <0.5                   | <0.5              | <25                        | 2.0                        | a,i   |
|   | 4/27/2005    | 14.10                     | 12.03                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | <0.5                       |       |

# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data:** Former ARCO Station - 706 Harrison Street, Oakland, California

| Well ID<br>TOC<br>Sampling<br>Frequency | Date Sampled | Depth to<br>Water<br>(ft) | Groundwater<br>Elevation<br>(ft-msl) | TPHg<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Xylenes<br>(µg/L) | MTBE by<br>8021C<br>(µg/L) | MTBE by<br>8260B<br>(µg/L) | Notes |
|---|--------------|---------------------------|--------------------------------------|----------------|-------------------|-------------------|------------------------|-------------------|----------------------------|----------------------------|-------|
| MW-7<br>29.67<br>Semi-annually          | 12/16/1994   | 17.07                     | 12.60                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 12/29/1994   | 17.65                     | 12.02                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/19/1996    | 16.44                     | 13.23                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 1/27/1997    | 15.09                     | 14.58                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 6/18/1997    | 16.59                     | 13.08                                | 73             | <0.5              | 0.55              | <0.5                   | <0.5              | <5.0                       | -                          | d     |
|   | 9/18/1997    | 17.06                     | 12.61                                | 94             | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | b, f  |
|   | 12/10/1997   | 16.58                     | 13.09                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 2/18/1998    | 12.60                     | 17.07                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/12/1998    | 14.81                     | 14.86                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 8/18/1998    | 15.67                     | 14.00                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/24/1998   | 16.30                     | 13.37                                | 200            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | d     |
|   | 2/4/1999     | 15.99                     | 13.68                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/18/1999    | 15.42                     | 14.25                                | 200            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | d     |
|   | 8/27/1999    | 16.35                     | 13.32                                | 140            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/18/1999   | 16.81                     | 12.86                                | --             | --                | --                | --                     | --                | -                          | -                          |       |
|   | 2/29/2000    | 14.16                     | 15.51                                | 100            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | f     |
|   | 5/25/2000    | 15.54                     | 14.13                                | -              | --                | --                | -                      | -                 | -                          | -                          |       |
|   | 8/9/2000     | 16.56                     | 13.11                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 11/9/2000    | 16.45                     | 13.22                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/29/2001    | 16.92                     | 12.75                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/16/2001    | 17.03                     | 12.64                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 8/14/2001    | 17.27                     | 12.40                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/22/2001   | 16.95                     | 12.72                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/1/2002     | 16.14                     | 13.53                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 5/10/2002    | 15.30                     | 14.37                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/8/2002     | 15.73                     | 13.94                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/2/2002    | 16.24                     | 13.43                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/23/2003    | 15.70                     | 13.97                                | <50            | 23                | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/29/2003    | 12.68                     | 16.99                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
| 26.70                                   | 7/18/2003    | 15.19                     | 11.51                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 10/9/2003    | 14.45                     | 12.25                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 1/28/2004    | 13.88                     | 12.82                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 4/7/2004     | 15.71                     | 10.99                                | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 7/23/2004    | 14.85                     | 11.85                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | 130                        | 120                        |       |
|   | 10/12/2004   | 16.90                     | 9.80                                 | -              | -                 | -                 | -                      | -                 | -                          | -                          |       |
|   | 2/14/2005    | 14.42                     | 12.28                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | 190                        | 200                        |       |
|   | 4/27/2005    | 13.75                     | 12.95                                | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | 1.3                        |       |

# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data:** Former ARCO Station - 706 Harrison Street, Oakland, California

| Well ID<br>TOC<br>Sampling<br>Frequency | Date Sampled | Depth to<br>Water<br>(ft) | Groundwater<br>Elevation<br>(ft-msl) | TPHg<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Xylenes<br>(µg/L) | MTBE by<br>8021C<br>(µg/L) | MTBE by<br>8260B<br>(µg/L) | Notes |
|---|--------------|---------------------------|--------------------------------------|----------------|-------------------|-------------------|------------------------|-------------------|----------------------------|----------------------------|-------|
| VW-3                                    | 3/6/2003     | -                         | -                                    | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | i     |
| -                                       | 3/25/2003    | -                         | -                                    | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          | i     |
| VW-4                                    | 3/6/2003     | -                         | -                                    | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
| -                                       | 3/25/2003    | -                         | -                                    | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
| Trip Blank                              | 11/9/2000    | -                         | -                                    | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |
|   | 2/14/2005    | -                         | -                                    | <50            | <0.5              | <0.5              | <0.5                   | <0.5              | <5.0                       | -                          |       |

**Abbreviations and Analyses:**

TOC = Top of casing elevation, measured in feet, relative to mean sea level

ft = Measured in feet

ft-msl = Measured in feet relative to mean sea level

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015C

Benzene, ethylbenzene, toluene and xylenes by EPA Method 8021B.

MTBE = Methyl tertiary butyl ether by EPA Method 8021B and/or 8260B.

µg/L = Micrograms per liter

- = Not sampled, not analyzed, or not applicable

Data prior to 12/16/94 provided by previous consultant.

Wells were re-surveyed on October 27, 2003 to City of Oakland benchmark 25A.

**Notes**

a = Analytical laboratory notes that unmodified or weakly modified gasoline is significant.

b = Analytical laboratory notes that heavier gasoline range compounds are significant.

c = Analytical laboratory notes that lighter gasoline range compounds are significant.

d = Analytical laboratory notes that isolated peaks are present.

f = Analytical laboratory notes hydrocarbons with no recognizable patterns are present.

g = Analytical laboratory notes lighter than water immiscible sheen is present.

h = Analytical laboratory notes lighter than water immiscible sheen/product is present

j = Analytical laboratory notes that sample was diluted due to high organic content.

i = Analytical laboratory notes that sample contains greater than ~1-2 vol. % sediment.

## **APPENDIX A**

### **Groundwater Monitoring Field Data Sheets**



MUSKAN  
ENVIRONMENTAL  
SAMPLING

## **WELL GAUGING SHEET**



MUSKAN  
ENVIRONMENTAL  
SAMPLING

## **WELL SAMPLING FORM**

| Date:                   | 4/27/2005                        |                |                     |              |                        |            |  |
|-------------------------|----------------------------------|----------------|---------------------|--------------|------------------------|------------|--|
| Client:                 | Cambria Environmental Technology |                |                     |              |                        |            |  |
| Site Address:           | 706 Harrisons Street Oakland, CA |                |                     |              |                        |            |  |
| Well ID:                | MW-1                             |                |                     |              |                        |            |  |
| Well Diameter:          | 2"                               |                |                     |              |                        |            |  |
| Purging Device:         | Disposable Bailer                |                |                     |              |                        |            |  |
| Sampling Method:        | Disposable Bailer                |                |                     |              |                        |            |  |
| Total Well Depth:       | 24.46                            |                | Fe=                 | mg/L         |                        |            |  |
| Depth to Water:         | 13.35                            |                | ORP=                | mV           |                        |            |  |
| Water Column Height:    | 11.11                            |                | DO=                 | mg/L         |                        |            |  |
| Gallons/ft:             | 0.16                             |                |                     |              |                        |            |  |
| 1 Casing Volume (gal):  | 1.78                             |                | COMMENTS:<br>Turbid |              |                        |            |  |
| 3 Casing Volumes (gal): | 5.33                             |                |                     |              |                        |            |  |
| TIME:                   | CASING VOLUME (gal)              | TEMP (Celsius) | pH                  | COND. (µS)   |                        |            |  |
| 4:05                    | 1.8                              | 21.3           | 7.09                | 1091         |                        |            |  |
| 4:10                    | 3.6                              | 21.6           | 7.03                | 975          |                        |            |  |
| 4:15                    | 5.3                              | 21.5           | 7.06                | 982          |                        |            |  |
|                         |                                  |                |                     |              |                        |            |  |
|                         |                                  |                |                     |              |                        |            |  |
| Sample ID:              | Date:                            | Time           | Container Type      | Preservative | Analytes               | Method     |  |
| MW-1                    | 4/27/2005                        | 4:20           | VOA                 | HCl, ICE     | TPHg,<br>BTEX,<br>MTBE | 8015, 8020 |  |
|                         |                                  |                |                     |              |                        |            |  |
|                         |                                  |                |                     |              |                        |            |  |
|                         |                                  |                |                     |              |                        |            |  |
|                         |                                  |                |                     |              |                        |            |  |



MUSKAN  
ENVIRONMENTAL  
SAMPLING

## **WELL SAMPLING FORM**

| Date:                   | 4/27/2005                        |                |                                      |              |                        |            |
|-------------------------|----------------------------------|----------------|--------------------------------------|--------------|------------------------|------------|
| Client:                 | Cambria Environmental Technology |                |                                      |              |                        |            |
| Site Address:           | 706 Harrison Street Oakland, CA  |                |                                      |              |                        |            |
| Well ID:                | MW-2                             |                |                                      |              |                        |            |
| Well Diameter:          | 2"                               |                |                                      |              |                        |            |
| Purging Device:         | Disposable Bailer                |                |                                      |              |                        |            |
| Sampling Method:        | Disposable Bailer                |                |                                      |              |                        |            |
| Total Well Depth:       | 25.39                            |                | Fe=                                  | mg/L         |                        |            |
| Depth to Water:         | 14.63                            |                | ORP=                                 | mV           |                        |            |
| Water Column Height:    | 10.76                            |                | DO=                                  | mg/L         |                        |            |
| Gallons/ft:             | 0.16                             |                |                                      |              |                        |            |
| 1 Casing Volume (gal):  | 1.72                             |                | COMMENTS:<br>Very turbid, black silt |              |                        |            |
| 3 Casing Volumes (gal): | 5.16                             |                |                                      |              |                        |            |
| TIME:                   | CASING VOLUME (gal)              | TEMP (Celsius) | pH                                   | COND. (µS)   |                        |            |
| 5:25                    | 1.7                              | 22.6           | 6.99                                 | 741          |                        |            |
| 5:30                    | 3.4                              | 22.6           | 7.02                                 | 729          |                        |            |
| 5:35                    | 5.2                              | 22.5           | 7.00                                 | 713          |                        |            |
|                         |                                  |                |                                      |              |                        |            |
|                         |                                  |                |                                      |              |                        |            |
| Sample ID:              | Date:                            | Time           | Container Type                       | Preservative | Analytes               | Method     |
| MW-2                    | 4/27/2005                        | 5:40           | VOA                                  | HCl, ICE     | TPHg,<br>BTEX,<br>MTBE | 8015, 8020 |
|                         |                                  |                |                                      |              |                        |            |
|                         |                                  |                |                                      |              |                        |            |
|                         |                                  |                |                                      |              |                        |            |
|                         |                                  |                |                                      |              |                        |            |



MUSKAN  
ENVIRONMENTAL  
SAMPLING

## **WELL SAMPLING FORM**

| Date:                   | 4/27/2005                        |                |                     |              |                        |                  |
|-------------------------|----------------------------------|----------------|---------------------|--------------|------------------------|------------------|
| Client:                 | Cambria Environmental Technology |                |                     |              |                        |                  |
| Site Address:           | 706 Harrisons Street Oakland, CA |                |                     |              |                        |                  |
| Well ID:                | MW-4                             |                |                     |              |                        |                  |
| Well Diameter:          | 2"                               |                |                     |              |                        |                  |
| Purging Device:         | Disposable Bailer                |                |                     |              |                        |                  |
| Sampling Method:        | Disposable Bailer                |                |                     |              |                        |                  |
| Total Well Depth:       | 25.61                            |                | Fe=                 | mg/L         |                        |                  |
| Depth to Water:         | 14.20                            |                | ORP=                | mV           |                        |                  |
| Water Column Height:    | 11.41                            |                | DO=                 | mg/L         |                        |                  |
| Gallons/ft:             | 0.16                             |                |                     |              |                        |                  |
| 1 Casing Volume (gal):  | 1.83                             |                | COMMENTS:<br>Turbid |              |                        |                  |
| 3 Casing Volumes (gal): | 5.48                             |                |                     |              |                        |                  |
| TIME:                   | CASING VOLUME (gal)              | TEMP (Celsius) | pH                  | COND. (µS)   |                        |                  |
| 4:40                    | 1.8                              | 22.9           | 7.03                | 638          |                        |                  |
| 4:50                    | 3.7                              | 22.6           | 7.07                | 671          |                        |                  |
| 4:55                    | 5.5                              | 22.4           | 7.05                | 651          |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
| Sample ID:              | Date:                            | Time           | Container Type      | Preservative | Analytes               | Method           |
| MW-4                    | 4/27/2005                        | 5:00           | VOA                 | HCl, ICE     | TPHg,<br>BTEX,<br>MTBE | 8015, 8020, 8260 |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |



## WELL SAMPLING FORM

| Date:                   | 4/27/2005                        |                |                     |              |                        |                  |
|-------------------------|----------------------------------|----------------|---------------------|--------------|------------------------|------------------|
| Client:                 | Cambria Environmental Technology |                |                     |              |                        |                  |
| Site Address:           | 706 Harrisons Street Oakland, CA |                |                     |              |                        |                  |
| Well ID:                | MW-6                             |                |                     |              |                        |                  |
| Well Diameter:          | 2"                               |                |                     |              |                        |                  |
| Purging Device:         | Disposable Bailer                |                |                     |              |                        |                  |
| Sampling Method:        | Disposable Bailer                |                |                     |              |                        |                  |
| Total Well Depth:       | 25.93                            |                | Fe=                 | mg/L         |                        |                  |
| Depth to Water:         | 14.10                            |                | ORP=                | mV           |                        |                  |
| Water Column Height:    | 11.83                            |                | DO=                 | mg/L         |                        |                  |
| Gallons/ft:             | 0.16                             |                |                     |              |                        |                  |
| 1 Casing Volume (gal):  | 1.89                             |                | COMMENTS:<br>Turbid |              |                        |                  |
| 3 Casing Volumes (gal): | 5.68                             |                |                     |              |                        |                  |
| TIME:                   | CASING VOLUME (gal)              | TEMP (Celsius) | pH                  | COND. (µS)   |                        |                  |
| 2:15                    | 1.9                              | 22.8           | 7.14                | 1130         |                        |                  |
| 2:20                    | 3.8                              | 22.9           | 7.19                | 1075         |                        |                  |
| 2:25                    | 5.7                              | 22.9           | 7.16                | 1092         |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
| Sample ID:              | Date:                            | Time           | Container Type      | Preservative | Analytes               | Method           |
| MW-6                    | 4/27/2005                        | 2:30           | VOA                 | HCl, ICE     | TPHg,<br>BTEX,<br>MTBE | 8015, 8020, 8260 |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        |                  |
|                         |                                  |                |                     |              |                        | Signature:       |



## WELL SAMPLING FORM

| Date:                   | 4/27/2005                        |                     |                |              |                        |                  |
|-------------------------|----------------------------------|---------------------|----------------|--------------|------------------------|------------------|
| Client:                 | Cambria Environmental Technology |                     |                |              |                        |                  |
| Site Address:           | 706 Harrisons Street Oakland, CA |                     |                |              |                        |                  |
| Well ID:                | MW-7                             |                     |                |              |                        |                  |
| Well Diameter:          | 2"                               |                     |                |              |                        |                  |
| Purging Device:         | Disposable Bailer                |                     |                |              |                        |                  |
| Sampling Method:        | Disposable Bailer                |                     |                |              |                        |                  |
| Total Well Depth:       | 27.74                            | Fe=                 | mg/L           |              |                        |                  |
| Depth to Water:         | 13.75                            | ORP=                | mV             |              |                        |                  |
| Water Column Height:    | 13.99                            | DO=                 | mg/L           |              |                        |                  |
| Gallons/ft:             | 0.16                             |                     |                |              |                        |                  |
| 1 Casing Volume (gal):  | 2.24                             | COMMENTS:<br>Turbid |                |              |                        |                  |
| 3 Casing Volumes (gal): | 6.72                             |                     |                |              |                        |                  |
| TIME:                   | CASING VOLUME (gal)              | TEMP (Celsius)      | pH             | COND. (µS)   |                        |                  |
| 3:25                    | 2.2                              | 22.6                | 7.29           | 633          |                        |                  |
| 3:30                    | 4.5                              | 22.9                | 7.24           | 679          |                        |                  |
| 3:35                    | 6.7                              | 22.8                | 7.21           | 674          |                        |                  |
|                         |                                  |                     |                |              |                        |                  |
|                         |                                  |                     |                |              |                        |                  |
| Sample ID:              | Date:                            | Time                | Container Type | Preservative | Analytes               | Method           |
| MW-7                    | 4/27/2005                        | 3:40                | VOA            | HCl, ICE     | TPHg,<br>BTEX,<br>MTBE | 8015, 8020, 8260 |
|                         |                                  |                     |                |              |                        |                  |
|                         |                                  |                     |                |              |                        |                  |
|                         |                                  |                     |                |              |                        |                  |
|                         |                                  |                     |                |              |                        |                  |
|                         |                                  |                     |                |              | Signature:             |                  |

## **APPENDIX B**

Laboratory Analytical Report



## McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: [www.mccampbell.com](http://www.mccampbell.com) E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

|  |                                      |                          |
|--|--------------------------------------|--------------------------|
| Cambria Env. Technology<br><br>5900 Hollis St, Suite A<br><br>Emeryville, CA 94608 | Client Project ID: #230-0116; Bo Gin | Date Sampled: 04/27/05   |
|  |                                      | Date Received: 04/28/05  |
|  | Client Contact: Matt Meyers          | Date Reported: 05/03/05  |
|  | Client P.O.:                         | Date Completed: 05/03/05 |

**WorkOrder: 0504419**

May 03, 2005

Dear Matt:

Enclosed are:

- 1). the results of 5 analyzed samples from your #230-0116; Bo Gin project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



## **McCampbell Analytical, Inc.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: [www.mccampbell.com](http://www.mccampbell.com) E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

|  |                                      |                          |
|--|--------------------------------------|--------------------------|
| Cambria Env. Technology<br>5900 Hollis St, Suite A<br>Emeryville, CA 94608 | Client Project ID: #230-0116; Bo Gin | Date Sampled: 04/27/05   |
|  |                                      | Date Received: 04/28/05  |
|  | Client Contact: Matt Meyers          | Date Extracted: 04/29/05 |
|  | Client P.O.:                         | Date Analyzed: 04/29/05  |

## **Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\***

Extraction method: SWS030B

Analytical methods: SW8021B/8015Cm

Work Order: 0504419

|  |   |    |     |     |     |     |     |   |                 |
|--|---|----|-----|-----|-----|-----|-----|---|-----------------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 50 | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | $\mu\text{g/L}$ |
|  | S | NA | NA  | NA  | NA  | NA  | NA  | 1 | $\text{mg/Kg}$  |

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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Website: [www.mccampbell.com](http://www.mccampbell.com) E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

|  |                                      |                          |
|--|--------------------------------------|--------------------------|
| Cambria Env. Technology<br>5900 Hollis St, Suite A<br>Emeryville, CA 94608 | Client Project ID: #230-0116; Bo Gin | Date Sampled: 04/27/05   |
|  |                                      | Date Received: 04/28/05  |
|  | Client Contact: Matt Meyers          | Date Extracted: 04/29/05 |
|  | Client P.O.:                         | Date Analyzed: 04/29/05  |

## Methyl tert-Butyl Ether\*

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order - 0604410

|  |   |     |      |
|--|---|-----|------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 0.5 | µg/L |
|  | S | NA  | NA   |

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; o) see attached narrative



**McCampbell Analytical, Inc.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: www.mccampbell.com E-mail: main@mccampbell.com

## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0504419

| EPA Method: SW8021B/8015Cm |        | Extraction: SW5030B |        | BatchID: 16016 |        |        | Spiked Sample ID: 0504413-007A |          |                         |            |
|----------------------------|--------|---------------------|--------|----------------|--------|--------|--------------------------------|----------|-------------------------|------------|
| Analyte                    | Sample | Spiked              | MS     | MSD            | MS-MSD | LCS    | LCSD                           | LCS-LCSD | Acceptance Criteria (%) |            |
|                            | µg/L   | µg/L                | % Rec. | % Rec.         | % RPD  | % Rec. | % Rec.                         | % RPD    | MS / MSD                | LCS / LCSD |
| TPH(btex) <sup>E</sup>     | ND     | 60                  | 100    | 101            | 0.476  | 95.6   | 93.8                           | 1.87     | 70 - 130                | 70 - 130   |
| MTBE                       | ND     | 10                  | 96.3   | 91.8           | 4.74   | 94.5   | 88                             | 7.08     | 70 - 130                | 70 - 130   |
| Benzene                    | ND     | 10                  | 98.6   | 100            | 1.50   | 101    | 96.5                           | 4.94     | 70 - 130                | 70 - 130   |
| Toluene                    | ND     | 10                  | 106    | 105            | 0.840  | 100    | 95.4                           | 5.24     | 70 - 130                | 70 - 130   |
| Ethylbenzene               | ND     | 10                  | 112    | 115            | 2.55   | 107    | 102                            | 4.92     | 70 - 130                | 70 - 130   |
| Xylenes                    | ND     | 30                  | 100    | 100            | 0      | 95.3   | 90.7                           | 5.02     | 70 - 130                | 70 - 130   |
| %SS:                       | 97     | 10                  | 110    | 106            | 3.57   | 108    | 110                            | 1.84     | 70 - 130                | 70 - 130   |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

### BATCH 16016 SUMMARY

| Sample ID    | Date Sampled    | Date Extracted | Date Analyzed   | Sample ID    | Date Sampled    | Date Extracted | Date Analyzed   |
|--------------|-----------------|----------------|-----------------|--------------|-----------------|----------------|-----------------|
| 0504419-001A | 4/27/05 4:20 PM | 4/29/05        | 4/29/05 1:34 AM | 0504419-002A | 4/27/05 5:40 PM | 4/29/05        | 4/29/05 3:44 AM |
| 0504419-003A | 4/27/05 5:00 PM | 4/29/05        | 4/29/05 5:21 AM | 0504419-004A | 4/27/05 2:30 PM | 4/29/05        | 4/29/05 4:16 AM |
| 0504419-005A | 4/27/05 3:40 PM | 4/29/05        | 4/29/05 4:49 AM |              |                 |                |                 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

<sup>E</sup> TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**McCormick Analytical, Inc.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: www.mccormick.com E-mail: main@mccormick.com

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0504419

| EPA Method: SW8260B         |        | Extraction: SW5030B |        |        | BatchID: 16017 |        |        | Spiked Sample ID: 0504403-002A |                         |            |
|-----------------------------|--------|---------------------|--------|--------|----------------|--------|--------|--------------------------------|-------------------------|------------|
| Analyte                     | Sample | Spiked              | MS     | MSD    | MS-MSD         | LCS    | LCSD   | LCS-LCSD                       | Acceptance Criteria (%) |            |
|                             | µg/L   | µg/L                | % Rec. | % Rec. | % RPD          | % Rec. | % Rec. | % RPD                          | MS / MSD                | LCS / LCSD |
| Methyl-t-butyl ether (MTBE) | ND     | 10                  | 119    | 119    | 0              | 107    | 116    | 8.07                           | 70 - 130                | 70 - 130   |
| %SS1:                       | 107    | 10                  | 102    | 101    | 0.708          | 102    | 102    | 0                              | 70 - 130                | 70 - 130   |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

### BATCH 16017 SUMMARY

| Sample ID    | Date Sampled    | Date Extracted | Date Analyzed   | Sample ID    | Date Sampled    | Date Extracted | Date Analyzed   |
|--------------|-----------------|----------------|-----------------|--------------|-----------------|----------------|-----------------|
| 0504419-003B | 4/27/05 5:00 PM | 4/29/05        | 4/29/05 3:40 PM | 0504419-004B | 4/27/05 2:30 PM | 4/29/05        | 4/29/05 2:15 PM |
| 0504419-005B | 4/27/05 3:40 PM | 4/29/05        | 4/29/05 2:57 PM |              |                 |                |                 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (\text{MS-Sample}) / (\text{Amount Spiked})$ ; RPD =  $100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$ .

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

 QA/QC Officer

## McCAMPBELL ANALYTICAL, INC.



110 Second Avenue South, #D7  
Pacheco, CA 94553-5560  
(925) 798-1620

**CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0504419

ClientID: CETE

## Report to:

Matt Meyers                    TEL: (510) 420-0700  
 Cambria Env. Technology      FAX: (510) 420-9170  
 5900 Hollis St, Suite A      ProjectNo: #230-0116; Bo Gin  
 Emeryville, CA 94608           PO:

## Bill to:

Accounts Payable  
 Cambria Env. Technology  
 5900 Hollis St, Ste. A  
 Emeryville, CA 94608

Requested TAT: 5 days

Date Received: 04/28/2005

Date Printed: 04/28/2005

| Sample ID   | ClientSampID | Matrix | Collection Date    | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-------------|--------------|--------|--------------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|             |              |        |                    |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 0504419-001 | MW-1         | Water  | 4/27/05 4:20:00 PM | <input type="checkbox"/> | A                                  |   | A |   |   |   |   |   |   |    |    |    |    |    |    |
| 0504419-002 | MW-2         | Water  | 4/27/05 5:40:00 PM | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 0504419-003 | MW-4         | Water  | 4/27/05 5:00:00 PM | <input type="checkbox"/> | A                                  | B |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 0504419-004 | MW-6         | Water  | 4/27/05 2:30:00 PM | <input type="checkbox"/> | A                                  | B |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 0504419-005 | MW-7         | Water  | 4/27/05 3:40:00 PM | <input type="checkbox"/> | A                                  | B |   |   |   |   |   |   |   |    |    |    |    |    |    |

Test Legend:

|    |           |
|----|-----------|
| 1  | G-MBTEX_W |
| 6  |           |
| 11 |           |

|    |        |
|----|--------|
| 2  | MTBE_W |
| 7  |        |
| 12 |        |

|    |              |
|----|--------------|
| 3  | PREDF REPORT |
| 8  |              |
| 13 |              |

|    |  |
|----|--|
| 4  |  |
| 9  |  |
| 14 |  |

|    |  |
|----|--|
| 5  |  |
| 10 |  |
| 15 |  |

Prepared by: Melissa Valles

## Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

"cete

0504419

McCAMPBELL ANALYTICAL, INC.

110 2<sup>nd</sup> AVENUE SOUTH, #D  
PACHECO, CA 94553-5560

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: main@mccampbell.com  
Telephone: (925) 798-1620 Fax: (925) 798-1622

Report To: Matt Meyers Bill To: Cambria Environmental Tech

Company: Cambria Environmental Technology

5900 Hollis Street

Emeryville, CA 94608

Tele: 510-4702314

E-Mail: mmwerts@camhsia-env.co.uk

Tele: 510-420-3314 Fax: 510-420-9170

Project #: 230-011b

Project Name: GoGrip

Project Location: 706 Harrison Street Oakland, CA

Sampler Signature

**SAMPLING**      **8**      **MATRIX**      **METHOD**

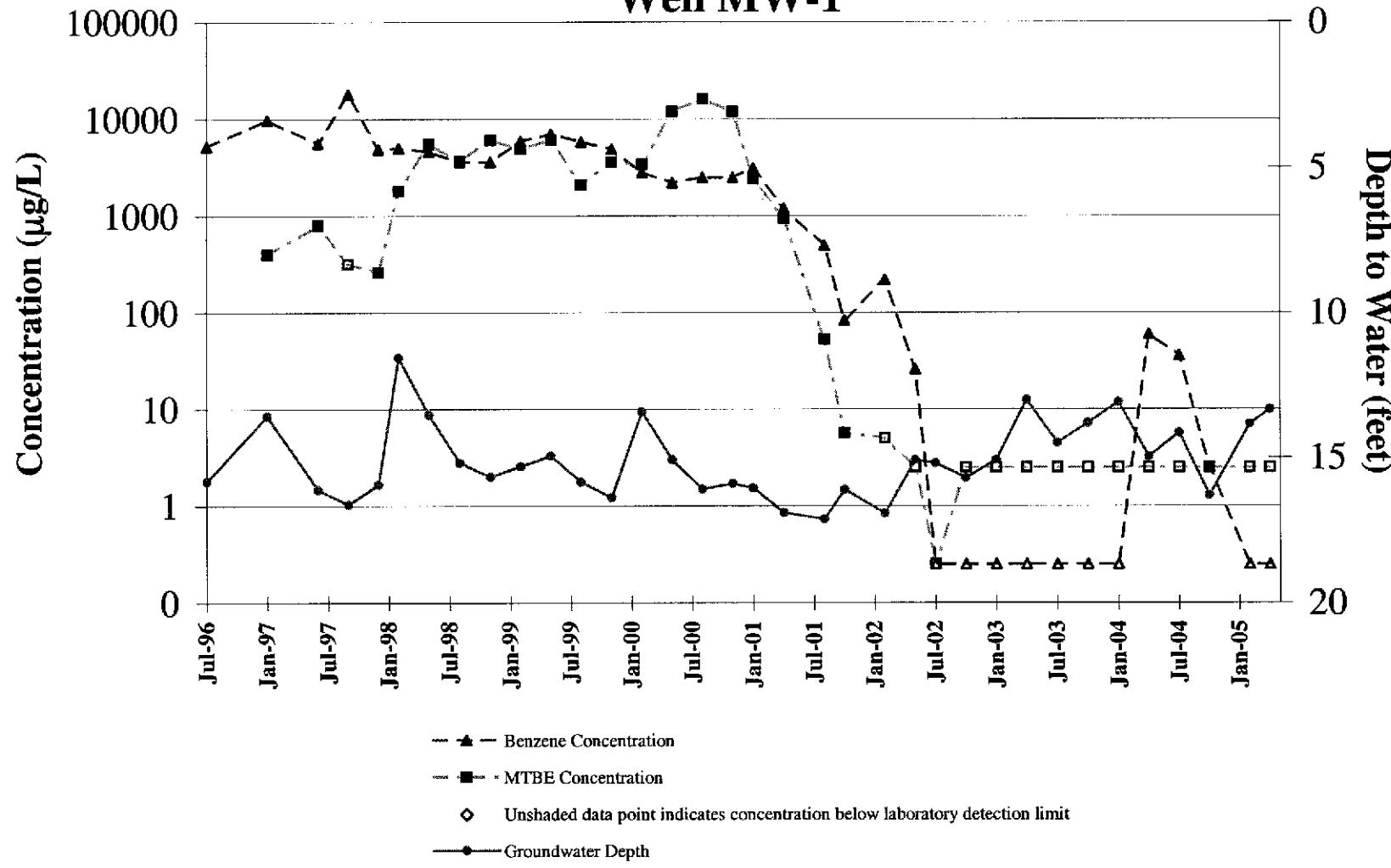
Digitized by srujanika@gmail.com

SAMPLE ID

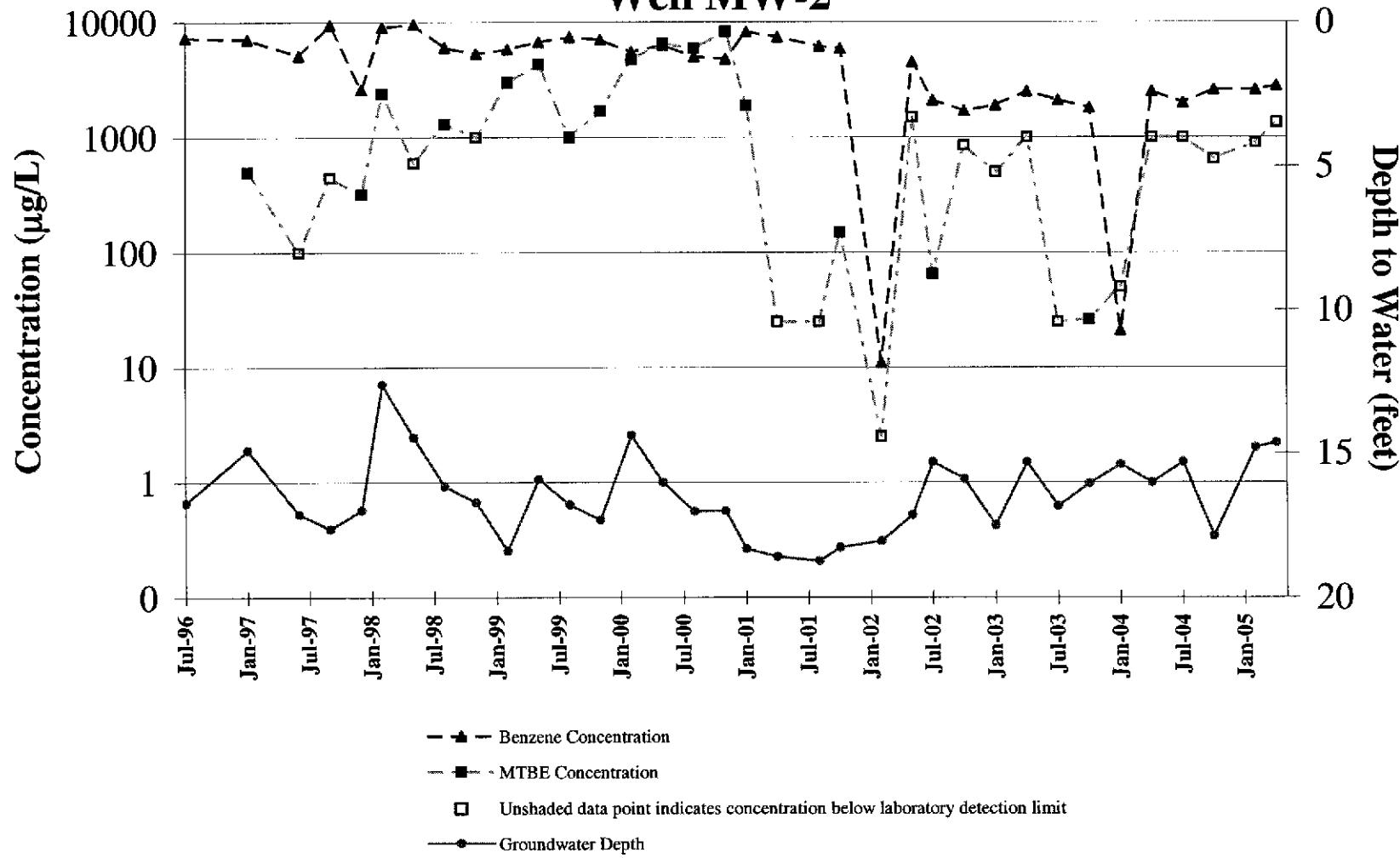
## **APPENDIX C**

### Benzene and MTBE Concentration Graphs

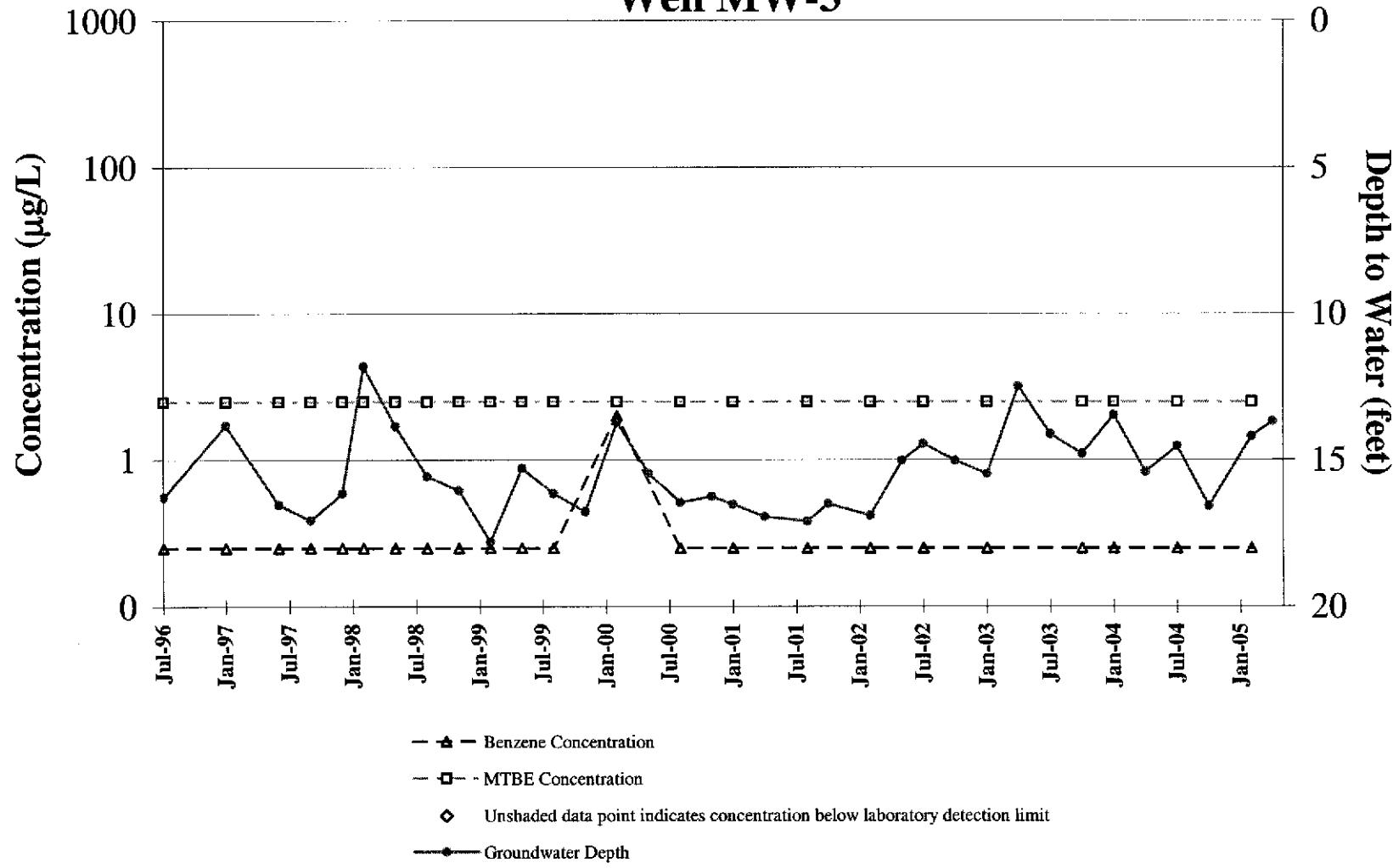
## Benzene and MTBE Concentration Trends Well MW-1



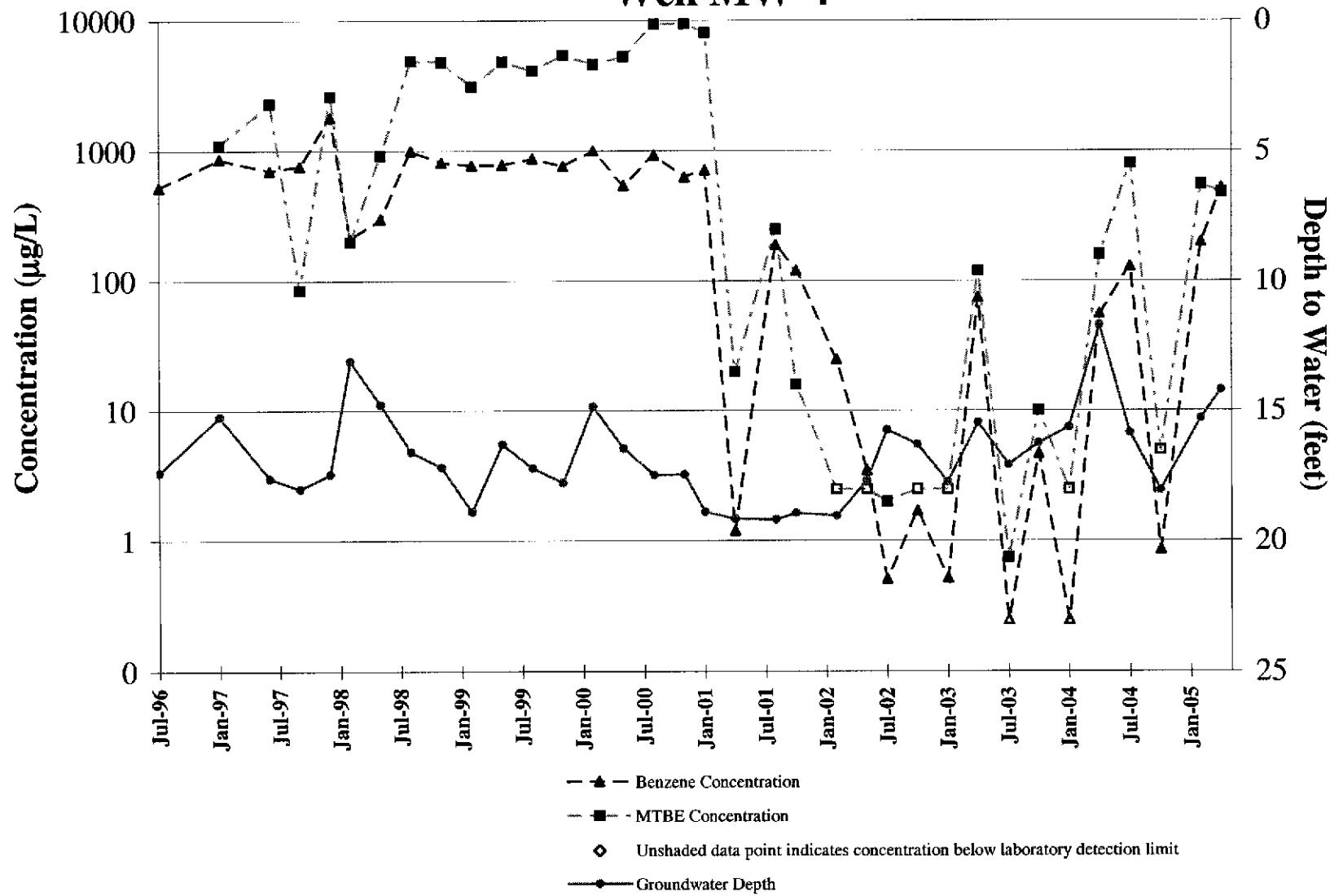
## Benzene and MTBE Concentration Trends Well MW-2



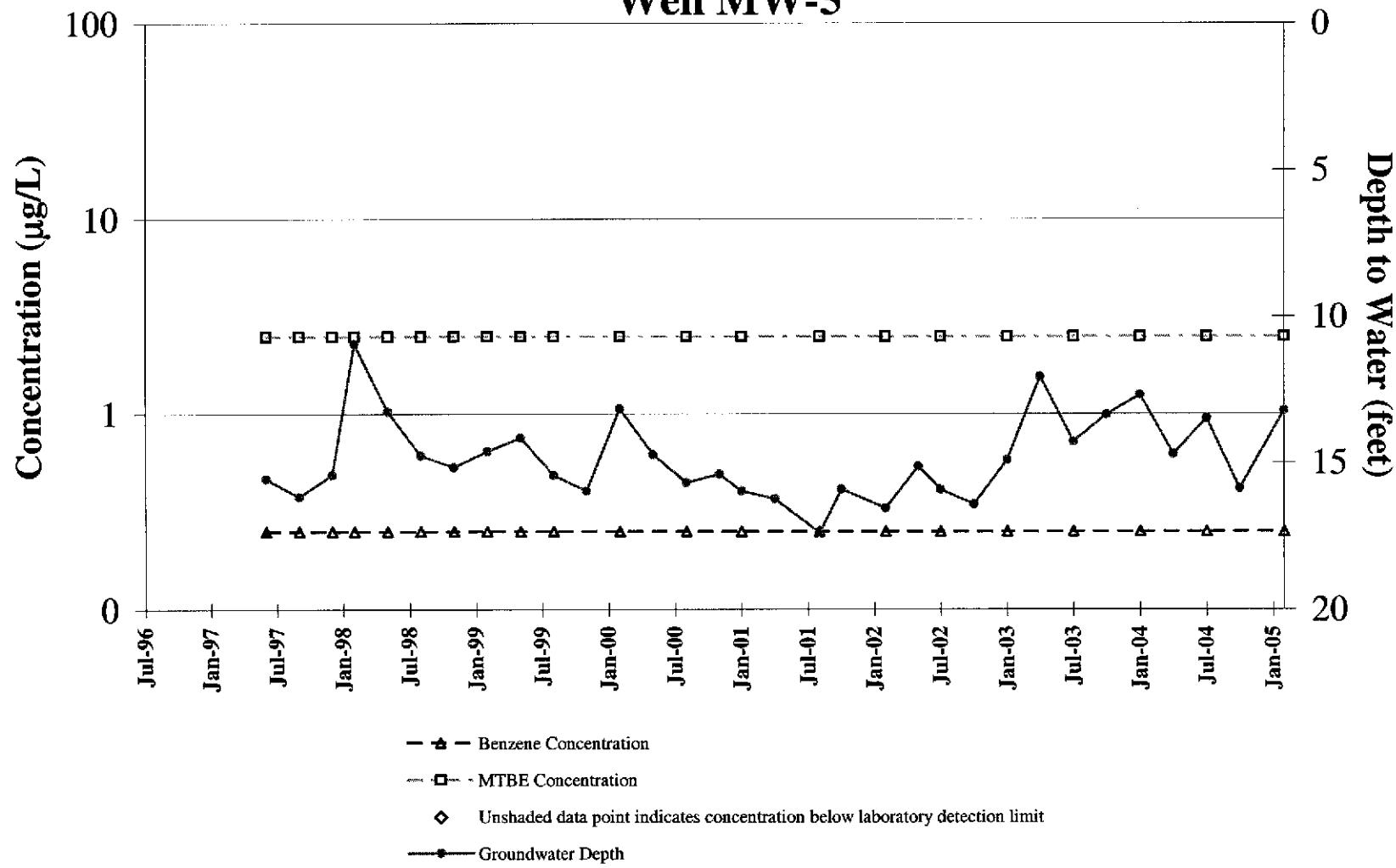
## Benzene and MTBE Concentration Trends Well MW-3



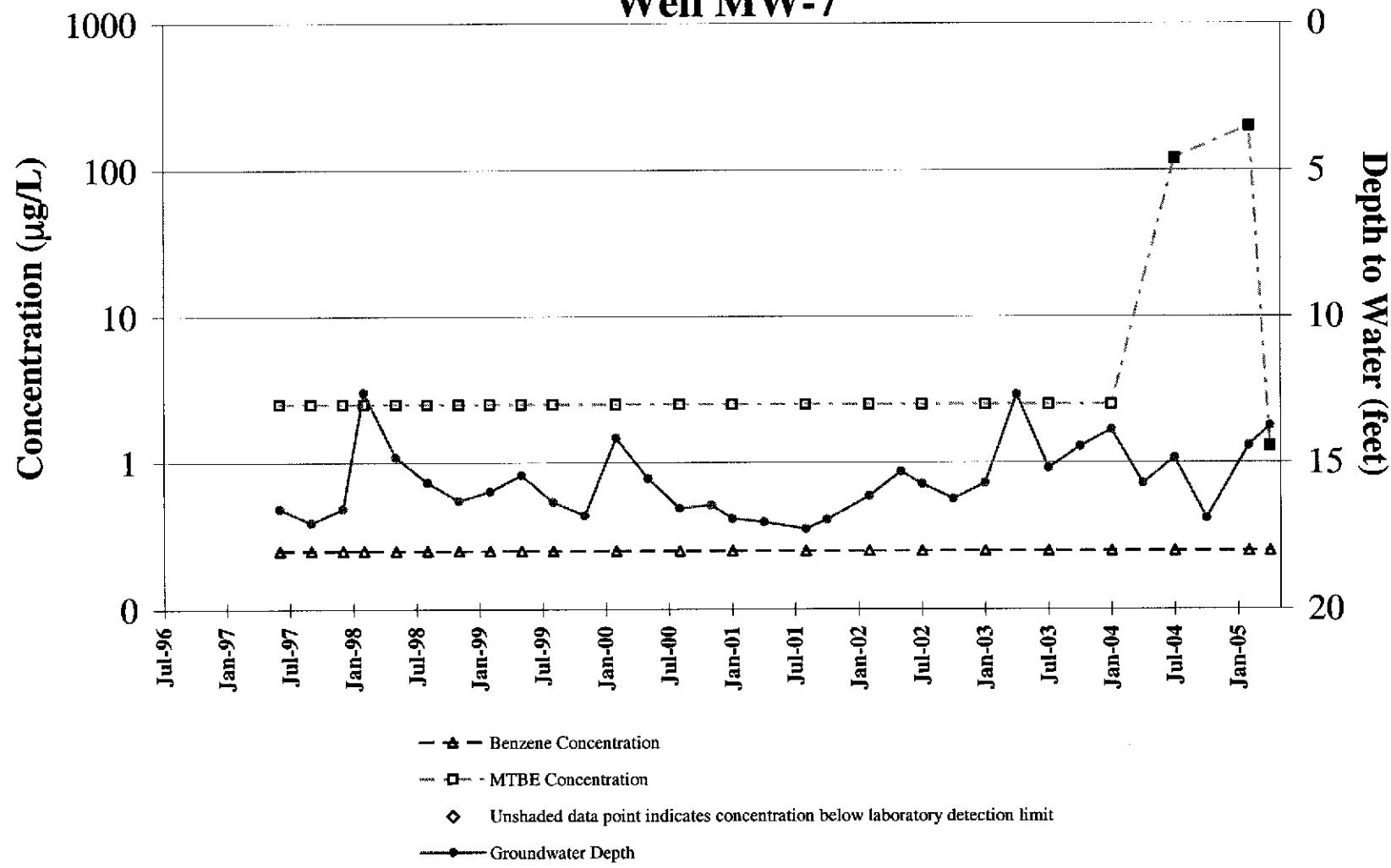
## Benzene and MTBE Concentration Trends Well MW-4



## Benzene and MTBE Concentration Trends Well MW-5



## Benzene and MTBE Concentration Trends Well MW-7



## **APPENDIX D**

GeoTracker Electronic Delivery Confirmations

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**Confirmation Number:** 9047117888

**Date/Time of Submittal:** 6/27/2005 6:36:30 PM

**Facility Global ID:** T0600100985

**Facility Name:** OAKLAND AUTO PARTS

**Submittal Title:** 2nd Qtr 2005 GW Analytical Data

**Submittal Type:** GW Monitoring Report

[Click here to view the detections report for this upload.](#)

|   |   |
|---|---|
| <b>OAKLAND AUTO PARTS</b><br>706 HARRISON ST<br>OAKLAND, CA 94607 | <b>Regional Board - Case #:</b> <u>01-1068</u><br>SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) |
|   | <b>Local Agency</b><br>UNKNOWN - (DH)   |

| <b>CONF #</b>       | <b>TITLE</b>                    | <b>QUARTER</b> |
|---------------------|---------------------------------|----------------|
| 9047117888          | 2nd Qtr 2005 GW Analytical Data | Q2 2005        |
| <b>SUBMITTED BY</b> | <b>SUBMIT DATE</b>              | <b>STATUS</b>  |
| Matt Meyers         | 6/27/2005                       | PENDING REVIEW |

### **SAMPLE DETECTIONS REPORT**

|   |       |
|---|-------|
| # FIELD POINTS SAMPLED                                | 5     |
| # FIELD POINTS WITH DETECTIONS                        | 3     |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 2     |
| SAMPLE MATRIX TYPES                                   | WATER |

### **METHOD QA/QC REPORT**

|                               |                 |
|-------------------------------|-----------------|
| METHODS USED                  | SW8021F,SW8260B |
| TESTED FOR REQUIRED ANALYTES? | Y               |
| LAB NOTE DATA QUALIFIERS      | N               |

### **QA/QC FOR 8021/8260 SERIES SAMPLES**

|   |   |
|---|---|
| TECHNICAL HOLDING TIME VIOLATIONS                               | 0 |
| METHOD HOLDING TIME VIOLATIONS                                  | 0 |
| LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT            | 0 |
| LAB BLANK DETECTIONS  | 0 |
| DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? |   |
| - LAB METHOD BLANK  | Y |
| - MATRIX SPIKE  | Y |
| - MATRIX SPIKE DUPLICATE  | Y |
| - BLANK SPIKE   | Y |
| - SURROGATE SPIKE - NON-STANDARD SURROGATE USED                 | Y |

### **WATER SAMPLES FOR 8021/8260 SERIES**

|   |   |
|---|---|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | Y |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%          | Y |
| SURROGATE SPIKES % RECOVERY BETWEEN 85-115%                         | Y |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%     | Y |

**SOIL SAMPLES FOR 8021/8260 SERIES**

|   |     |
|---|-----|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%          | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 70-125%                         | n/a |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%     | n/a |

**FIELD QC SAMPLES**

| <u>SAMPLE</u> | <u>COLLECTED</u> | <u>DETECTIONS &gt; REPDL</u> |
|---------------|------------------|------------------------------|
| QCTB SAMPLES  | N                | 0                            |
| QCEB SAMPLES  | N                | 0                            |
| QCAB SAMPLES  | N                | 0                            |

Logged in as CAMBRIA-EM (AUTH\_RP)

CONTACT SITE ADMINISTRATOR.

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Your file has been successfully submitted!

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Oakland  
**Submittal Date/Time:** 5/4/2005 6:17:09 PM  
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Title: Second Quarter 2005 Monitoring Report  
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## **APPENDIX E**

**Former Shell Station Groundwater Monitoring and Analytical Results**

**TABLE ONE**  
**Groundwater Elevation Data**  
**Yee Property**  
**726 Harrison St., Oakland, CA**

| Well ID     | Date of Measurement | Top of Casing Elevation<br>(Relative to Mean Sea Level) | Depth to Water (feet) | Groundwater Elevation (project data) |
|-------------|---------------------|---|-----------------------|--------------------------------------|
| <b>MW-1</b> | 12/15/98            | 31.95*  | 17.32                 | 14.63                                |
|             | 3/4/99              |   | 15.52                 | 16.43                                |
|             | 6/17/99             |   | 16.9                  | 15.05                                |
|             | 8/27/99             |   | 17.39                 | 14.56                                |
|             | 12/9/99             |   | 18.03                 | 13.92                                |
|             | 3/7/00              |   | 15.11                 | 16.84                                |
|             | 6/7/00              |   | 16.66                 | 15.29                                |
|             | 10/11/00            |   | 18.08                 | 13.87                                |
|             | 1/18/01             |   | 17.96                 | 13.99                                |
|             | 4/5/01              |   | 16.35                 | 15.60                                |
|             | 7/17/01             |   | 16.94                 | 15.01                                |
|             | 10/5/01             |   | 17.35                 | 11.63                                |
|             | 1/18/02             |   | 15.40                 | 13.58                                |
|             | 4/11/02             |   | 15.76                 | 13.22                                |
|             | 7/8/02              |   | 16.17                 | 12.81                                |
|             | 10/9/02             |   | 16.72                 | 12.26                                |
|             | 1/29/03             |   | 16.26                 | 12.72                                |
|             | 4/11/03             |   | 16.56                 | 12.42                                |
|             | 7/18/03             |   | 16.42                 | 12.56                                |
|             | 10/9/03             |   | 16.88                 | 12.10                                |
|             | 1/28/04             |   | 16.10                 | 12.88                                |
|             | 4/7/04              |   | 15.43                 | 13.55                                |
|             | 7/23/04             |   | 16.41                 | 12.57                                |
|             | 10/12/04            |   | 17.73                 | 11.25                                |
|             | 1/29/05             |   | 15.02                 | 13.96                                |
|             | <b>4/28/05</b>      |   | <b>14.99</b>          | <b>13.99</b>                         |
| <b>MW-2</b> | 12/15/98            | 32.40*  | 18.03                 | 14.37                                |
|             | 3/4/99              |   | 16.11                 | 16.29                                |
|             | 6/17/99             |   | 17.72                 | 14.68                                |
|             | 8/27/99             |   | Inaccessible          |                                      |
|             | 12/9/99             |   | Inaccessible          |                                      |
|             | 3/7/00              |   | Inaccessible          |                                      |
|             | 6/7/00              |   | 17.67                 | 14.73                                |
|             | 10/11/00            |   | 18.91                 | 13.49                                |
|             | 1/18/01             |   | 18.66                 | 13.74                                |
|             | 4/5/01              |   | 16.97                 | 15.43                                |
|             | 7/17/01             |   | 17.54                 | 14.86                                |
|             | 10/5/01             |   | 17.98                 | 11.46                                |
|             | 1/18/02             |   | 15.87                 | 13.57                                |
|             | 4/11/02             |   | 16.36                 | 13.08                                |
|             | 7/8/02              |   | 16.72                 | 12.72                                |
|             | 10/9/02             |   | 17.33                 | 12.11                                |
|             | 1/29/03             |   | 16.82                 | 12.62                                |
|             | 4/11/03             |   | 17.15                 | 12.29                                |
|             | 7/18/03             |   | 17.05                 | 12.39                                |
|             | 10/9/03             |   | 17.52                 | 11.92                                |
|             | 1/28/04             |   | 16.70                 | 12.74                                |
|             | 4/7/04              |   | 16.02                 | 13.42                                |
|             | 7/23/04             |   | Inaccessible          |                                      |
|             | 10/12/04            |   | 17.31                 | 12.13                                |
|             | 1/29/05             |   | 15.46                 | 13.98                                |
|             | <b>4/28/05</b>      |   | <b>15.79</b>          | <b>13.65</b>                         |

**TABLE ONE**  
**Groundwater Elevation Data**  
**Yee Property**  
**726 Harrison St., Oakland, CA**

| Well ID     | Date of Measurement | Top of Casing Elevation<br>(Relative to Mean Sea Level) | Depth to Water (feet) | Groundwater Elevation<br>(project data) |
|-------------|---------------------|---|-----------------------|---|
| <b>MW-3</b> | 12/15/98            | 31.61*  | 17.26                 | 14.35                                   |
|             | 3/4/99              |   | 15.47                 | 16.14                                   |
|             | 6/17/99             |   | 16.92                 | 14.69                                   |
|             | 8/27/99             |   | 17.40                 | 14.21                                   |
|             | 12/9/99             |   | 18.01                 | 13.60                                   |
|             | 3/7/00              |   | 16.15                 | 15.46                                   |
|             | 6/7/00              |   | 16.85                 | 14.76                                   |
|             | 10/11/00            |   | 18.07                 | 13.54                                   |
|             | 1/18/01             |   | 17.89                 | 13.72                                   |
|             | 4/5/01              |   | 16.21                 | 15.40                                   |
|             | 7/17/01             |   | 16.90                 | 14.71                                   |
|             | 10/5/01             |   | 17.32                 | 11.32                                   |
|             | 1/18/02             |   | 15.35                 | 13.29                                   |
|             | 4/11/02             |   | 15.82                 | 12.82                                   |
|             | 7/8/02              |   | 16.15                 | 12.49                                   |
|             | 10/9/02             |   | 16.67                 | 11.97                                   |
|             | 1/29/03             |   | 16.19                 | 12.45                                   |
|             | 4/11/03             |   | 16.49                 | 12.15                                   |
|             | 7/18/03             |   | 16.42                 | 12.22                                   |
|             | 10/9/03             |   | 16.80                 | 11.84                                   |
|             | 1/28/03             |   | 15.94                 | 12.70                                   |
|             | 4/7/04              |   | 15.28                 | 13.36                                   |
|             | 7/23/04             |   | 16.15                 | 12.49                                   |
|             | 10/12/04            |   | 16.63                 | 12.01                                   |
|             | 1/29/05             |   | 16.15                 | 12.49                                   |
|             | <b>4/28/05</b>      |   | <b>14.94</b>          | <b>13.70</b>                            |
| <b>MW-4</b> | 12/15/98            | 32.53*  | 17.59                 | 14.94                                   |
|             | 3/4/99              |   | 15.88                 | 16.65                                   |
|             | 6/17/99             |   | 17.14                 | 15.39                                   |
|             | 8/27/99             |   | 17.65                 | 14.88                                   |
|             | 12/9/99             |   | 18.28                 | 14.25                                   |
|             | 3/7/00              |   | 15.41                 | 17.12                                   |
|             | 6/7/00              |   | 17.09                 | 15.44                                   |
|             | 10/11/00            |   | 18.33                 | 14.20                                   |
|             | 1/18/01             |   | 18.23                 | 14.30                                   |
|             | 4/5/01              |   | 16.69                 | 15.84                                   |
|             | 7/17/01             |   | 17.32                 | 15.21                                   |
|             | 10/5/01             |   | 17.71                 | 11.87                                   |
|             | 1/18/02             |   | 15.85                 | 13.73                                   |
|             | 4/11/02             |   | 16.14                 | 13.44                                   |
|             | 7/8/02              |   | 16.56                 | 13.02                                   |
|             | 10/9/02             |   | 17.09                 | 12.49                                   |
|             | 1/29/03             |   | 16.65                 | 12.93                                   |
|             | 4/11/03             |   | 16.93                 | 12.65                                   |
|             | 7/18/03             |   | 16.78                 | 12.80                                   |
|             | 10/9/03             |   | 17.26                 | 12.32                                   |
|             | 1/28/04             |   | 16.38                 | 13.20                                   |
|             | 4/7/04              |   | 15.64                 | 13.94                                   |
|             | 7/23/04             |   | 16.58                 | 13.00                                   |
|             | 10/12/04            |   | 14.90                 | 14.68                                   |
|             | 1/29/05             |   | <b>15.18</b>          | <b>14.40</b>                            |
|             | <b>4/28/05</b>      |   |                       |   |
|             |                     | Inaccessible  |                       |   |

**TABLE ONE**  
**Groundwater Elevation Data**  
**Yee Property**  
**726 Harrison St., Oakland, CA**

| Well ID     | Date of Measurement | Top of Casing Elevation<br>(Relative to Mean Sea Level) | Depth to Water (feet) | Groundwater Elevation (project data) |
|-------------|---------------------|---|-----------------------|--------------------------------------|
| <b>MW-5</b> | 8/29/01             | 29.06   | 17.42                 | 11.64                                |
|             | 1/18/02             |   | 15.68                 | 13.38                                |
|             | 4/11/02             |   | 16.17                 | 12.89                                |
|             | 7/8/02              |   | 16.51                 | 12.55                                |
|             | 10/9/02             |   | 17.10                 | 11.96                                |
|             | 1/29/03             |   | 16.58                 | 12.48                                |
|             | 4/11/03             |   | 16.87                 | 12.19                                |
|             | 7/18/03             |   | 16.77                 | 12.29                                |
|             | 10/9/03             |   | 17.21                 | 11.85                                |
|             | 1/28/04             |   | 16.34                 | 12.72                                |
|             | 4/7/04              |   | 15.38                 | 13.68                                |
|             | 7/23/04             |   | 16.55                 | 12.51                                |
|             | 10/12/04            |   | 17.02                 | 12.04                                |
|             | 1/29/05             |   | 15.23                 | 13.83                                |
|             | <b>4/28/05</b>      |   | <b>15.41</b>          | <b>13.65</b>                         |
| <b>EW-1</b> | 1/18/02             | <b>28.89</b>  | 15.35                 | 13.54                                |
|             | 4/11/02             |   | 15.73                 | 13.16                                |
|             | 7/8/02              |   | 16.13                 | 12.76                                |
|             | 10/9/02             |   | 16.70                 | 12.19                                |
|             | 1/29/03             |   | 16.20                 | 12.69                                |
|             | 4/11/03             |   | 16.52                 | 12.37                                |
|             | 7/18/03             |   | 16.38                 | 12.51                                |
|             | 10/9/03             |   | 16.84                 | 12.05                                |
|             | 1/28/04             |   | 15.94                 | 12.95                                |
|             | 4/7/04              |   | 15.02                 | 13.87                                |
|             | 7/23/04             |   | 16.01                 | 12.88                                |
|             | 10/12/04            |   | 16.46                 | 12.43                                |
|             | 1/29/05             |   | 14.91                 | 13.98                                |
|             | <b>4/28/05</b>      | <b>Not measured</b>                                     |                       |                                      |

\* Top of casing elevation relative to arbitrary project datum

**TABLE THREE**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Yee Property**  
**726 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

| Well ID<br>& Dates<br>Sampled | TPH-G              | Benzene                                  | Toluene         | Ethyl-<br>benzene | Total<br>Xylenes | MTBE          |
|-------------------------------|--------------------|--|-----------------|-------------------|------------------|---------------|
| <b>MW-1</b>                   |                    |  |                 |                   |                  |               |
| 7/3/97                        | 18,000             | 2,700                                    | 350             | 450               | 900              | 7,400         |
| 12/5/98                       | 18,000             | 1,500                                    | 270             | 260               | 560              | 14,000        |
| 3/4/99                        | 44,000             | 2,800                                    | 400             | 440               | 960              | 43,000        |
| 6/17/99                       | 33,000             | 2,200                                    | 250             | 460               | 660              | 25,000        |
| 8/27/99                       | 6,000              | 1,000                                    | 97              | 190               | 230              | 14,000/       |
|                               |                    |  |                 |                   |                  | 16,000*       |
| 12/9/99                       | 15,000             | 1,500                                    | 160             | 220               | 420              | 17,000        |
| 3/7/00                        | 9,300              | 1,500                                    | 210             | 66                | 530              | 12,000        |
| 6/7/00                        | 26,000**           | 1,700                                    | < 250           | 360               | 580              | 30,000        |
| 10/1/00                       | 13,000**           | 1,600                                    | < 100           | 140               | 160              | 19,000        |
| 1/18/01                       | 14,000**           | 450                                      | < 100           | 110               | 230              | 9,600         |
| 4/5/01                        | 38,000             | 2,200                                    | 180             | 290               | 590              | 35,000        |
| 7/17/01                       | 35,000**           | 1,800                                    | < 100           | 300               | 170              | 35,000        |
| 10/5/01                       | 17,000             | 1,500                                    | 210             | 420               | 790              | 27,000        |
| 1/18/02                       | 18,000             | 1,500                                    | 120             | 160               | 220              | 22,000        |
| 4/11/02                       | 41,000             | 2,700                                    | 210             | 340               | 380              | 30,000        |
| 7/8/02                        | 36,000             | 2,800                                    | 140             | 360               | 300              | 31,000        |
| 10/9/02                       | 30,000             | 1,700                                    | 310             | < 100             | < 100            | 19,000        |
| 1/29/03                       | 26,000             | 2,400                                    | < 100           | 310               | 520              | 20,000        |
| 4/11/03                       | 22,000             | 1,700                                    | < 100           | 270               | 580              | 16,000        |
| 7/18/03                       | 40,000             | 3,200                                    | 290             | 480               | 830              | 39,000        |
| 10/9/03                       | 54,000**           | 3,300                                    | < 130           | 350               | 310              | 49,000        |
| 1/28/04                       | 26,000**           | 3,000                                    | 310             | 420               | 800              | 31,000        |
| 4/7/04                        | 33,000**           | 2,800                                    | 130             | 310               | 310              | 39,000        |
| 7/23/04                       | 56,000**           | 4,500                                    | < 250           | 390               | < 500            | 53,000        |
| 10/12/04                      | 25,000**           | 1,400                                    | < 250           | < 250             | < 500            | 25,000        |
| 1/29/05                       | 24,000             | 1,600                                    | < 100           | 160               | < 200            | 19,000        |
| <b>4/28/05</b>                | <b>&lt; 10,000</b> | <b>2,000</b>                             | <b>&lt; 100</b> | <b>160</b>        | <b>100</b>       | <b>34,000</b> |
| <b>MW-2</b>                   |                    |  |                 |                   |                  |               |
| 12/5/98                       | < 50               | < 0.5                                    | < 0.5           | < 0.5             | < 0.5            | < 5           |
| 3/4/99                        |                    | Inaccessible due to car parked over well |                 |                   |                  |               |
| 6/17/99                       | < 50               | < 0.5                                    | < 0.5           | < 0.5             | < 0.5            | < 5           |
| 8/27/99                       |                    | Inaccessible due to car parked over well |                 |                   |                  |               |
| 12/9/99                       |                    | Inaccessible due to car parked over well |                 |                   |                  |               |
| 3/7/00                        |                    | Inaccessible due to car parked over well |                 |                   |                  |               |
| 6/7/00                        | < 50               | < 0.5                                    | < 0.5           | < 0.5             | < 0.5            | < 5.0         |
| 10/1/00                       | < 50               | < 0.5                                    | < 0.5           | < 0.5             | < 0.5            | < 5.0         |
| 1/18/01                       | < 50               | < 0.5                                    | < 0.5           | < 0.5             | < 0.5            | < 5.0         |
| 4/5/01                        | < 50               | < 0.5                                    | < 0.5           | < 0.5             | < 0.5            | < 5.0         |
| 7/17/01                       |                    | No longer sampled                        |                 |                   |                  |               |
| <b>MW-3</b>                   |                    |  |                 |                   |                  |               |
| 12/5/98                       | 6,500***           | < 50                                     | 50              | 60                | 50               | 3,900         |
| 3/4/99                        | 2,800              | < 25                                     | < 25            | < 25              | < 25             | 1,600         |
| 6/17/99                       | 1,000              | < 10                                     | < 10            | < 10              | < 10             | 1,400         |
| 8/27/99                       | 230                | < 0.5                                    | 0.51            | 0.5               | 1                | 1,500/        |
|                               |                    |  |                 |                   |                  | 1,600*        |
| 12/9/99                       | 870**              | < 0.5                                    | < 0.5           | < 0.5             | < 0.5            | 2,100         |
| 3/7/00                        | 150**              | 4  | < 0.5           | < 0.5             | < 0.5            | 830           |
| 6/7/00                        | 140**              | < 0.5                                    | < 0.5           | < 0.5             | < 0.5            | 1,100         |
| 10/1/00                       | 620**              | < 5.0                                    | < 5.0           | < 5.0             | < 5.0            | 1,500         |
| 1/18/01                       | 1,200**            | < 5.0                                    | < 5.0           | < 5.0             | < 5.0            | 1,000         |
| 4/5/01                        | 1,700**            | < 5.0                                    | < 5.0           | < 5.0             | < 5.0            | 1,900         |
| 7/17/01                       | 1,400**            | < 10                                     | < 10            | < 10              | < 10             | 1,700         |
| 10/5/01                       | < 1,000            | < 10                                     | < 10            | < 10              | < 10             | 1,700         |
| 1/18/02                       | 1,600              | 26                                       | 20              | 16                | 54               | 2,100         |
| 4/11/02                       | 2,600              | 21                                       | 16              | < 10              | 21               | 2,300         |
| 7/8/02                        | 2,800              | < 10                                     | < 10            | < 10              | < 10             | 3,800         |
| 10/9/02                       | 6,000              | < 50                                     | < 50            | < 50              | < 50             | 4,900         |
| 1/29/03                       | 1,800              | < 10                                     | < 10            | < 10              | < 10             | 2,300         |
| 4/11/03                       | 2,900              | < 25                                     | < 25            | < 25              | < 25             | 3,100         |
| 7/18/03                       | 3,400              | < 10                                     | < 10            | < 10              | < 10             | 3,200         |
| 10/9/03                       | 2,300              | < 10                                     | < 10            | < 10              | < 10             | 2,700         |
| 1/28/03                       | 1,700**            | < 10                                     | < 10            | < 10              | < 10             | 2,900         |
| 4/7/04                        | 2,700**            | < 10                                     | < 10            | < 10              | < 20             | 3,600         |
| 7/23/04                       | 4,200**            | < 25                                     | < 25            | < 25              | < 50             | 4,900         |
| 10/12/04                      | 5,000**            | < 50                                     | < 50            | < 50              | < 100            | 5,900         |
| 1/29/05                       | < 1,000            | < 10                                     | < 10            | < 10              | < 20             | 3,100         |
| <b>4/28/05</b>                | <b>&lt; 200</b>    | <b>&lt; 2.0</b>                          | <b>&lt; 2.0</b> | <b>&lt; 2.0</b>   | <b>&lt; 2.0</b>  | <b>1,300</b>  |

**TABLE THREE**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Yee Property**  
**726 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

| Well ID<br>& Dates<br>Sampled | TPH-G                                    | Benzene         | Toluene         | Ethyl-<br>benzene | Total<br>Xylenes | MTBE         |
|-------------------------------|--|-----------------|-----------------|-------------------|------------------|--------------|
| <b>MW-4</b>                   |  |                 |                 |                   |                  |              |
| 12/5/98                       | 880                                      | 3               | < 0.5           | < 0.5             | < 0.5            | 950          |
| 3/4/99                        | 3,800                                    | < 25            | < 25            | < 25              | < 25             | 3,700        |
| 6/17/99                       | 2,700                                    | < 25            | < 25            | < 25              | < 25             | 2,700        |
| 8/27/99                       | 440                                      | 4.7             | 1.1             | 0.58              | 1.3              | 1,600/       |
|                               |  |                 |                 |                   |                  | 1,700*       |
| 12/9/99                       | 1,100**                                  | < 2.5           | < 2.5           | < 2.5             | < 2.5            | 1,700        |
| 3/7/00                        | < 250                                    | < 2.5           | < 2.5           | < 2.5             | < 2.5            | 1,700        |
| 6/7/00                        | 530**                                    | 8.8             | < 2.5           | < 2.5             | < 2.5            | 440          |
| 10/11/00                      | 700**                                    | 3.9             | < 2.5           | < 2.5             | < 2.5            | 680          |
| 1/18/01                       | 2,000**                                  | < 2.5           | < 2.5           | < 2.5             | < 2.5            | 780          |
| 4/5/01                        | 810**                                    | < 2.5           | < 2.5           | < 2.5             | < 2.5            | 620          |
| 7/17/01                       | 880**                                    | < 2.5           | < 2.5           | < 2.5             | < 2.5            | 570          |
| 10/5/01                       | 550**                                    | < 2.5           | < 2.5           | < 2.5             | < 2.5            | 710          |
| 1/18/02                       | 960**                                    | < 5.0           | < 5.0           | < 5.0             | < 5.0            | 1,300        |
| 4/11/02                       | 1,100**                                  | < 5.0           | < 5.0           | < 5.0             | < 5.0            | 550          |
| 7/8/02                        | 1,200**                                  | < 5.0           | < 5.0           | < 5.0             | < 5.0            | 890          |
| 10/9/02                       | 1,300**                                  | < 5.0           | < 5.0           | < 5.0             | < 5.0            | 880          |
| 1/29/03                       | 530**                                    | < 1.0           | < 1.0           | < 1.0             | < 1.0            | 190          |
| 4/11/03                       | 690**                                    | < 2.5           | < 2.5           | < 2.5             | < 2.5            | 310          |
| 7/18/03                       | 1,600**                                  | < 10            | < 10            | < 10              | < 10             | 1,300        |
| 10/9/03                       | 1,500***                                 | < 10            | < 10            | < 10              | < 10             | 1,400        |
| 1/28/04                       | 1,200**                                  | < 10            | < 10            | < 10              | < 10             | 1,900        |
| 4/7/04                        | 1,900**                                  | < 10            | < 10            | < 10              | < 20             | 2,200        |
| 7/23/04                       | 1,800**                                  | < 10            | < 10            | < 10              | < 20             | 1,600        |
| 10/12/04                      | Inaccessible due to car parked over well |                 |                 |                   |                  |              |
| 1/29/05                       | < 1,300                                  | < 13            | < 13            | < 13              | < 25             | 3,900        |
| <b>4/28/05</b>                | <b>510</b>                               | <b>&lt; 1.5</b> | <b>&lt; 1.5</b> | <b>&lt; 1.5</b>   | <b>&lt; 1.5</b>  | <b>510</b>   |
| <b>MW-5</b>                   |  |                 |                 |                   |                  |              |
| 8/29/01                       | 14,000                                   | 1,300           | 470             | 230               | 800              | 14,000       |
| 1/18/02                       | 24,000                                   | 3,200           | 1,300           | 390               | 1,500            | 5,700        |
| 4/11/02                       | 23,000                                   | 2,700           | 980             | 38                | 950              | 4,300        |
| 7/8/02                        | 19,000                                   | 3,300           | 25              | 360               | 1,100            | 2,100        |
| 10/9/02                       | 24,000                                   | 2,800           | 990             | 360               | 820              | 2,400        |
| 1/29/03                       | 17,000                                   | 2,100           | 1,400           | 380               | 1,400            | < 250        |
| 4/11/03                       | 26,000                                   | 2,900           | 2,200           | 590               | 2,200            | 630          |
| 7/18/03                       | 26,000                                   | 3,500           | 1,700           | 480               | 1,300            | 1,300        |
| 10/9/03                       | 27,000                                   | 3,800           | 1,900           | 510               | 1,700            | 1,200        |
| 1/28/04                       | 29,000                                   | 4,800           | 2,900           | 770               | 2,300            | 3,300        |
| 4/7/04                        | 23,000                                   | 4,400           | 2,700           | 720               | 2,200            | 1,700        |
| 7/23/04                       | 29,000                                   | 5,200           | 2,200           | 810               | 1,400            | 2,200        |
| 10/12/04                      | 26,000                                   | 4,300           | 2,000           | 670               | 1,300            | 2,200        |
| 1/29/05                       | 29,000                                   | 4,600           | 2,500           | 750               | 1,400            | 2,200        |
| <b>4/28/05</b>                | <b>32,000</b>                            | <b>3,300</b>    | <b>2,300</b>    | <b>530</b>        | <b>2,100</b>     | <b>4,100</b> |
| <b>EW-1</b>                   |  |                 |                 |                   |                  |              |
| 1/18/02                       | 11,000                                   | 1,000           | < 100           | 220               | 350              | 6,700        |
| 4/11/02                       | 17,000                                   | 1,000           | < 100           | 120               | 140              | 9,700        |
| 7/8/02                        | 21,000                                   | 1,300           | < 100           | < 100             | 200              | 12,000       |
| 10/9/02                       | 12,000                                   | 900             | < 25            | < 25              | 200              | 9,200        |
| 1/29/03                       | 12,000                                   | 860             | 73              | 130               | 500              | 4,500        |
| 4/11/03                       | 8,700                                    | 890             | < 25            | < 25              | 82               | 5,400        |
| 7/18/03                       | 8,200                                    | 650             | 77              | 99                | 140              | 4,300        |
| 10/9/03                       | 5,700**                                  | 500             | 28              | 53                | 35               | 3,600        |
| 1/28/04                       | 17,800***                                | 1,600           | 90              | 250               | 280              | 9,700        |
| 4/7/04                        | No longer sampled                        |                 |                 |                   |                  |              |
| <b>ESL</b>                    | <b>400</b>                               | <b>46</b>       | <b>130</b>      | <b>290</b>        | <b>13</b>        | <b>1,800</b> |

**Notes:**

\* EPA Method 8020/EPA Method 8260 (MTBE confirmation)

\*\* Hydrocarbon reported in the gasoline range does not match the laboratory gasoline standard

\*\*\* Sample contains a discrete peak in addition to gasoline

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

Most current data is in **Bold**

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory method reporting limit.