

R0266

C A M B R I A

October 18, 2005

Mr. Mark Borsuk
1626 Vallejo St.
San Francisco, CA 94123-5116

Re: **Groundwater Monitoring Report
Third Quarter 2005**
Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

Alameda County
OCT 23 2005
Environmental Health



Dear Mr. Borsuk:

As requested, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring Report - Third Quarter 2005*. Presented in the report are the third quarter 2005 activities and results, and the anticipated fourth quarter 2005 activities. Attached are two copies for submittal to Mr. Don Hwang with the Alameda County Health Care Service Agency (ACHCSA) and for your file.

If you have any questions or comments regarding this report, please call me at (510) 420-3361.

Sincerely,

Cambria Environmental Technology, Inc.

Subbarao Nagulapaty
Project Engineer

Attachments: *Groundwater Monitoring Report - Third Quarter 2005* (2 copies)

**Cambria
Environmental
Technology, Inc.**

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GROUNDWATER MONITORING REPORT

THIRD QUARTER 2005

Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

October 18, 2005

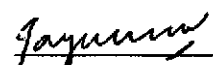
Prepared for:

Mr. Mark Borsuk
1626 Vallejo Street
San Francisco, California 94123-5116

Prepared by:

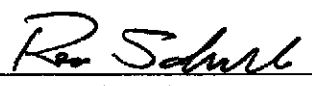
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
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Written by:



Jayakrishna Nidamarthi
Staff Engineer





Ron Scheele, P.G.
Senior Geologist


GROUNDWATER MONITORING REPORT

THIRD QUARTER 2005

Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

October 18, 2005

INTRODUCTION



On behalf of Mr. Mark Borsuk, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring Report – Third Quarter 2005* for the above-referenced site (see Figure 1). Presented in this report are the third quarter 2005 groundwater monitoring activities and results, and the anticipated fourth quarter 2005 activities.

THIRD QUARTER 2005 ACTIVITIES AND RESULTS


Monitoring Activities

Field Activities: On September 9, 2005, Cambria coordinated with Muskan Environmental Sampling (MES) to conduct quarterly monitoring activities. MES gauged and inspected for separate-phase hydrocarbons (SPH) in all monitoring wells. SPH was not detected in any of the wells and groundwater samples were collected from wells MW-2, MW-4, and MW-5. A sample from well MW-1 was not collected due to insufficient water in the well. Wells MW-3 and MW-6 are sampled on an annual basis. Groundwater monitoring field data sheets are presented as Appendix A. The groundwater monitoring data has been submitted to the GeoTracker database. See Appendix B for the GeoTracker electronic delivery confirmation.

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method 8021B. All analyses were performed by McCampbell Analytical, Inc. of Pacheco, California. The laboratory analytical report is included as Appendix C. Hydrocarbon concentrations are shown on Figure 1 and Table 1. The analytical data was submitted to the GeoTracker database. See Appendix B for the GeoTracker electronic delivery confirmation.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during the September 9, 2005 site visit, groundwater beneath the site flows toward the northeast at a gradient of 0.005 feet/foot. The overall gradient is consistent with previous three quarters. Groundwater elevation data is presented in Figure 1 and Table 1.



Hydrocarbon Distribution in Groundwater: Hydrocarbon concentrations were detected in all three sampled wells this quarter. TPHg concentrations ranged from 2,000 micrograms per liter ($\mu\text{g/L}$) to 17,000 $\mu\text{g/L}$, with the highest concentration detected in well MW-4. Benzene concentrations ranged from 390 $\mu\text{g/L}$ to 6,400 $\mu\text{g/L}$, with the highest concentration detected in well MW-4. MTBE was not detected above laboratory reporting limits in any of the wells. Wells continued to exhibit an overall stable or decreasing trend in TPHg and BTEX concentrations, except for well MW-5. Please refer to Figure 1 and Table 1 for dissolved hydrocarbon concentrations, and Appendix A for benzene concentration and depth to water versus time trend graphs for wells MW-1 through MW-6. Please note that the unshaded symbols on the graphs represent results below laboratory detection limits.

ANTICIPATED FOURTH QUARTER 2005 ACTIVITIES

Monitoring Activities

Cambria will coordinate with MES to perform quarterly monitoring activities. MES will gauge all monitoring wells; check wells for SPH; and collect groundwater samples from wells not containing SPH. As per the sampling schedule, wells MW-1 through MW-6 will be sampled during the fourth quarter event. Groundwater samples will be analyzed for TPHg by modified EPA Method 8015, and BTEX and MTBE by EPA Method 8021B. If MTBE is detected above laboratory detection limits in any sample, confirmation analysis by EPA Method 8260 will be performed. Groundwater monitoring and sampling results will be submitted to the State's GeoTracker database. Cambria will summarize groundwater monitoring activities and results in the *Groundwater Monitoring Report - Fourth Quarter 2005*.

Corrective Action Activities

Cambria proposed to conduct a risk-based corrective action (RBCA) analysis to evaluate the site as a low-risk case closure candidate. The RBCA analysis was proposed in Cambria's *Groundwater monitoring and System Progress Report – First Quarter 2005* dated April 13, 2005. Cambria is waiting for agency approval to initiate the RBCA analysis.



ATTACHMENTS

Figure 1 - Groundwater Elevation and Hydrocarbon Concentration Map

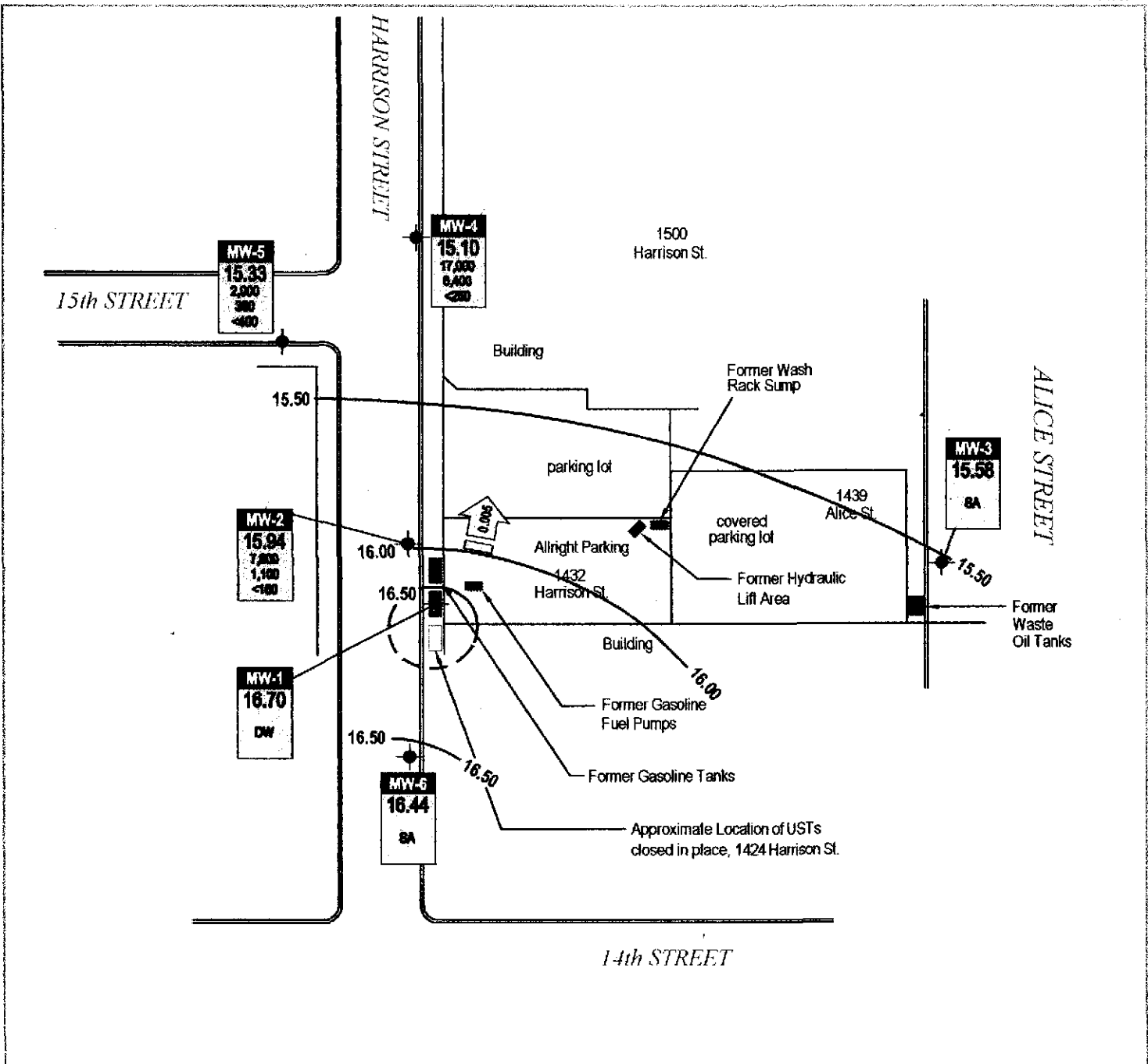
Table 1 - Groundwater Elevations and Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – GeoTracker Electronic Delivery Confirmations

Appendix C – Analytical Results for Groundwater Sampling

Appendix D – Benzene Concentration and Depth to Water versus Time Trend Graphs



EXPLANATION

| | | | | | | | | |
|---------|---|---|---|------|-----|---------|------|------------------|
| | Groundwater monitoring well | <table border="1"><tr><td>Well ID</td></tr><tr><td>ELEV</td></tr><tr><td>TPH</td></tr><tr><td>Benzene</td></tr><tr><td>MTBE</td></tr></table> | Well ID | ELEV | TPH | Benzene | MTBE | Well designation |
| Well ID | | | | | | | | |
| ELEV | | | | | | | | |
| TPH | | | | | | | | |
| Benzene | | | | | | | | |
| MTBE | | | | | | | | |
| | Groundwater elevation contour, in feet above mean sea level (dashed where inferred) | | Groundwater elevation, in feet above mean sea level | | | | | |
| | Groundwater flow direction and gradient | | Hydrocarbons and MTBE in groundwater, in micrograms per liter | | | | | |
| | | DW | Well dewatered during purging activities, no sample collected | | | | | |
| | | SA | Sampled Annually | | | | | |

FIGURE 1

H:\MORIS\KVF\GURE\1001805.DWG

Allright Parking
 1432 Harrison Street
 Oakland, California



**Groundwater Elevation and
 Hydrocarbon Concentration Map**
 September 9, 2005

CAMBRIA

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

| Well ID | Date | Depth to Groundwater (ft amsl) | SPH Thickness (feet) | Groundwater Elevation (feet) | TPHg | Benzene | Toluene | Ethylbenzene Xylenes | | | MTBE | Notes |
|------------|------------|-----------------------------------|-------------------------|---------------------------------|-----------|---------|---------|----------------------|---------|-------------|-------|-------|
| | | | | | | | | (µg/L) | | | | |
| MW-1 | 8/1/1994 | -- | -- | -- | 170,000 | 35,000 | 51,000 | 2,400 | 13,000 | -- | -- | |
| 34.95 | 12/21/1994 | 19.53 | -- | 15.42 | 180,000 | 41,000 | 64,000 | 3,100 | 100,000 | -- | -- | |
| | 3/13/1995 | 18.66 | -- | 16.29 | 150,000 | 31,000 | 45,000 | 2,500 | 17,000 | -- | -- | |
| | 6/27/1995 | 18.20 | -- | 16.75 | 71,000 | 17,000 | 18,000 | 1,600 | 7,700 | -- | -- | |
| | 7/7/1995 | 18.35 | -- | 16.60 | 71,000 | 17,000 | 18,000 | 1,600 | 7,700 | -- | -- | |
| | 9/28/1995 | 18.20 | -- | 16.75 | 110,000 | 27,000 | 34,000 | 1,700 | 14,000 | -- | -- | |
| | 12/20/1995 | 19.96 | -- | 14.99 | 120,000 | 33,000 | 43,000 | 2,300 | 15,000 | -- | -- | |
| | 3/26/1996 | 19.27 | -- | 15.68 | 140,000 | 29,000 | 36,000 | 1,900 | 13,000 | <200* | d | |
| | 6/20/1996 | 18.64 | -- | 16.31 | 110,000 | 30,000 | 38,000 | 2,200 | 13,000 | <200* | -- | |
| | 9/26/1996 | 19.35 | -- | 15.60 | 170,000 | 28,000 | 40,000 | 2,200 | 15,000 | ND** | -- | |
| | 10/28/1996 | 19.58 | -- | 15.37 | -- | -- | -- | -- | -- | -- | -- | |
| | 12/12/1996 | 19.68 | -- | 15.27 | 110,000 | 36,000 | 47,000 | 2,500 | 16,000 | ND* | -- | |
| | 3/31/1997 | 18.80 | -- | 16.15 | 160,000 | 24,000 | 39,000 | 1,900 | 13,000 | ND* | -- | |
| | 6/27/1997 | 19.26 | -- | 15.69 | 130,000 | 25,000 | 36,000 | 2,000 | 14,000 | ND* | -- | |
| | 9/9/1997 | 19.70 | -- | 15.25 | 99,000 | 22,000 | 27,000 | 1,600 | 13,000 | 270* | -- | |
| | 12/18/1997 | 19.25 | -- | 15.70 | 160,000 | 30,000 | 44,000 | 2,200 | 15,000 | ND*** | -- | |
| | 3/12/1998 | 17.52 | -- | 17.43 | 190,000 | 20,000 | 49,000 | 2,500 | 18,000 | ND*** | -- | |
| | 6/22/1998 | 18.63 | -- | 16.32 | 90,000 | 19,000 | 40,000 | 2,100 | 16,000 | -- | -- | |
| | 9/18/1998 | 18.60 | -- | 16.35 | 190,000 | 29,000 | 48,000 | 2,400 | 17,000 | -- | -- | |
| | 12/23/1998 | 19.18 | -- | 15.77 | 140,000 | 24,000 | 44,000 | 2,000 | 8,200 | -- | -- | |
| | 3/29/1999 | 18.52 | -- | 16.43 | 181,000 | 22,200 | 40,100 | 1,844 | 12,200 | -- | -- | |
| | 6/23/1999 | 18.60 | -- | 16.35 | 80,000 | 20,000 | 33,000 | 1,600 | 11,000 | -- | -- | |
| | 9/24/1999 | 19.05 | -- | 15.90 | 117,000 | 15,100 | 20,700 | 1,550 | 11,800 | -- | -- | |
| | 12/23/1999 | 19.95 | -- | 15.00 | 186,000 | 25,900 | 39,000 | 1,990 | 12,400 | -- | -- | |
| | 3/21/2000 | 18.48 | -- | 16.47 | 210,000 | 35,000 | 42,000 | 2,200 | 13,000 | <3,000 | a | |
| | 7/3/2000 | 18.95 | -- | 16.00 | 200,000 | 33,000 | 46,000 | 2,200 | 15,000 | <200* | a | |
| | 9/7/2000 | 19.45 | Sheen | 15.50 | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2000 | 19.90 | -- | 15.05 | 220,000 | 42,000 | 57,000 | 2,700 | 17,000 | <200 | a | |
| | 3/6/2001 | 18.20 | -- | 16.75 | 180,000 | 27,000 | 39,000 | 2,000 | 13,000 | <1200 (<20) | a,l | |
| | 6/8/2001 | 20.14 | -- | 14.81 | 170,000 | 28,000 | 40,000 | 1,900 | 13,000 | <200 | a | |
| | 8/27/2001 | 21.19 | -- | 13.76 | 130,000 | 24,000 | 33,000 | 1,600 | 11,000 | <350 | a | |
| 10/25/2001 | 21.74 | -- | 13.21 | 160,000 | 22,000 | 28,000 | 1,500 | 10,000 | <350 | a | | |
| 3/1/2002 | 21.39 | 0.41 | 13.84* | -- | -- | -- | -- | -- | -- | -- | | |
| 6/10/2002 | 22.30 | -- | 12.65 | 210,000 | 30,000 | 51,000 | 3,100 | 22,000 | <1,000* | a | | |
| 34.96 | 9/3/2002 | 21.40 | -- | 13.56 | 2,500,000 | 31,000 | 170,000 | 29,000 | 170,000 | 2,500,000 | a | |
| | 12/22/2002 | 20.50 | -- | 14.46 | 89,000 | 2,600 | 9,300 | 530 | 28,000 | <1,700 | a,m | |
| | 1/23/2003 | 18.57 | -- | 16.39 | 130,000 | 600 | 1,600 | <100 | 41,000 | <50*** | a,b,l | |
| | 6/12/2003 | 19.10 | 0.07 | 15.91* | -- | -- | -- | -- | -- | -- | -- | |
| | 7/23/2003 | 19.42 | 0.07 | 15.59* | -- | -- | -- | -- | -- | -- | -- | |
| 35.37# | 12/22/2003 | 17.09 | 0.01 | 18.29* | -- | -- | -- | -- | -- | -- | -- | |
| | 3/10/2004 | 13.82 | -- | 21.55 | 22,000 | 190 | 250 | <10 | 5,100 | <100 | a,c | |
| | 6/16/2004 | 14.75 | -- | 20.62 | 2,700 | 23 | 160 | 13 | 520 | <25 | a | |
| | 9/27/2004 | 18.02 | -- | 17.35 | 27,000 | 580 | 2,000 | 56 | 6,800 | <10*** | a,m | |
| | 12/22/2004 | 11.25 | -- | 24.12 | 250 | 3.5 | 18 | <0.5 | 47 | <0.5*** | a,m | |
| 34.96## | 3/3/2005 | 14.42 | -- | 20.95 | 320 | 5.2 | 13 | 3.2 | 46 | <5.0 | a | |
| | 6/9/2005 | 17.80 | -- | 17.16 | -- | -- | -- | -- | -- | -- | -- | |
| 9/9/2005 | 18.26 | -- | 16.70 | -- | -- | -- | -- | -- | -- | -- | | |
| MW-2 | 8/1/1994 | -- | -- | -- | 130,000 | 28,000 | 35,000 | 3,000 | 12,000 | -- | -- | |
| 35.18 | 12/21/1994 | 19.91 | -- | 15.27 | 200 | 140,000 | 200,000 | 3,500 | 22,000 | -- | -- | |
| | 3/13/1995 | 19.15 | -- | 16.03 | 500 | 9,200 | 23,000 | 7,000 | 36,000 | -- | -- | |
| | 6/27/1995 | 18.74 | -- | 16.44 | 120,000 | 23,000 | 30,000 | 2,700 | 13,000 | -- | -- | |
| | 7/7/1995 | 18.80 | -- | 16.38 | 120,000 | 23,000 | 30,000 | 2,700 | 13,000 | -- | -- | |
| | 9/28/1995 | 19.30 | -- | 15.88 | 110,000 | 23,000 | 29,000 | 2,500 | 11,000 | -- | -- | |
| | 12/20/1995 | 20.24 | -- | 14.94 | 83,000 | 980 | 1,800 | 2,200 | 10,000 | -- | -- | |
| | 3/26/1996 | 19.69 | -- | 15.49 | 150,000 | 23,000 | 32,000 | 2,800 | 12,000 | <200* | d | |
| | 6/20/1996 | 19.20 | -- | 15.98 | 94,000 | 15,000 | 23,000 | 2,400 | 12,000 | <200* | -- | |
| | 9/26/1996 | 19.80 | -- | 15.38 | 150,000 | 20,000 | 29,000 | 2,800 | 12,000 | ND** | -- | |
| | 10/28/1996 | 20.18 | -- | 15.00 | -- | -- | -- | -- | -- | -- | -- | |
| | 12/12/1996 | 20.17 | -- | 15.01 | 58,000 | 3,100 | 11,000 | 1,700 | 8,100 | 220* | -- | |
| | 3/31/1997 | 19.67 | -- | 15.51 | 38,000 | 6,000 | 7,900 | 690 | 3,300 | ND* | -- | |
| | 6/27/1997 | 19.68 | -- | 15.50 | 62,000 | 13,000 | 16,000 | 1,300 | 6,000 | ND* | -- | |
| | 9/9/1997 | 20.20 | -- | 14.98 | 81,000 | 16,000 | 18,000 | 1,800 | 8,600 | ND*** | -- | |
| | 12/18/1997 | 19.80 | -- | 15.38 | 110,000 | 18,000 | 26,000 | 2,200 | 9,500 | ND*** | -- | |
| | 3/12/1998 | 18.07 | -- | 17.11 | 120,000 | 16,000 | 26,000 | 2,200 | 9,400 | ND*** | -- | |
| | 6/22/1998 | 18.29 | -- | 16.89 | 38,000 | 9,800 | 9,500 | 1,500 | 6,000 | -- | -- | |
| | 9/18/1998 | 19.09 | -- | 16.09 | 68,000 | 12,000 | 16,000 | 1,400 | 5,900 | -- | -- | |
| | 12/23/1998 | 19.67 | -- | 15.51 | 180,000 | 16,000 | 22,000 | 2,200 | 8,300 | -- | -- | |
| | 3/29/1999 | 18.97 | -- | 16.21 | 16,600 | 1,380 | 1,920 | 373 | 1,840 | -- | -- | |
| | 6/23/1999 | 18.25 | -- | 16.93 | 41,000 | 10,000 | 9,400 | 1,100 | 5,000 | -- | -- | |
| | 9/24/1999 | 19.60 | -- | 15.58 | 40,600 | 4,880 | 3,490 | 1,090 | 4,560 | -- | -- | |
| | 12/23/1999 | 20.21 | -- | 14.97 | 61,900 | 6,710 | 9,320 | 1,150 | 5,360 | -- | -- | |
| | 3/21/2000 | 18.93 | -- | 16.25 | 98,000 | 14,000 | 21,000 | 1,600 | 6,900 | <1600 | a | |
| | 7/3/2000 | 19.38 | -- | 15.80 | 140,000 | 18,000 | 33,000 | 2,600 | 11,000 | <200* | a | |
| | 9/7/2000 | 19.83 | -- | 15.35 | 110,000 | 17,000 | 21,000 | 2,200 | 9,700 | <100*** | a,l | |

CAMBRIA

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

| Well ID TOC (# amsl) | Date | Depth to Groundwater (ft amsl) | SPH Thickness (feet) | Groundwater Elevation (feet) | TPHg ← | Benzene | Toluene | Ethylbenzene Xylenes → | | | MTBE | Notes |
|------------------------------------|------------|--------------------------------------|----------------------------|------------------------------------|-----------|---------|---------|------------------------|--------|-------|------|-------|
| | | | | | | | | (µg/L) | | | | |
| MW-2 Continued 35.21 | 12/5/2000 | 20.30 | -- | 14.88 | 130,000 | 19,000 | 28,000 | 2,500 | 11,000 | <200 | a | |
| | 3/6/2001 | 19.57 | -- | 15.61 | 32,000 | 3,400 | 3,400 | 580 | 2,500 | <200 | a | |
| | 6/8/2001 | 20.59 | -- | 14.59 | 72,000 | 9,400 | 9,200 | 1,300 | 5,800 | <200 | a | |
| | 8/27/2001 | 21.79 | -- | 13.39 | 110,000 | 17,000 | 28,000 | 2,600 | 11,000 | <950 | a | |
| | 10/25/2001 | 22.05 | -- | 13.13 | 110,000 | 15,000 | 18,000 | 2,000 | 8,700 | <350 | a | |
| | 3/1/2002 | 21.80 | -- | 13.38 | 3,100 | 370 | 180 | 62 | 330 | <5.0* | a | |
| | 6/10/2002 | 22.83 | -- | 12.35 | 7,800 | 2,000 | 1,100 | 76 | 570 | <100* | a | |
| | 9/3/2002 | 22.03 | -- | 13.18 | 21,000 | 2,400 | 2,900 | 320 | 1,400 | <500 | a | |
| | 12/22/2002 | 22.70 | -- | 12.51 | 630 | 48 | 56 | 19 | 82 | <5.0 | a | |
| | 1/23/2003 | 20.49 | -- | 14.72 | 1,100 | 27 | 32 | 19 | 150 | <25 | a | |
| | 6/12/2003 | 21.03 | -- | 14.18 | 10,000 | 2,100 | 1,600 | 150 | 660 | <250 | a | |
| | 7/23/2003 | 21.40 | -- | 13.81 | 28,000 | 4,800 | 4,800 | 380 | 1,700 | <500 | a | |
| | 12/22/2003 | 19.33 | -- | 15.88 | <50 | <5 | <5 | <0.5 | <0.5 | <5.0 | -- | |
| | 3/10/2004 | 19.33 | -- | 15.88 | 3,100 | 460 | 290 | 38 | 240 | <50 | a | |
| | 6/16/2004 | 19.90 | -- | 15.31 | 9,100 | 1,600 | 1,200 | 220 | 830 | <400 | a | |
| | 9/27/2004 | 22.08 | -- | 13.13 | 14,000 | 2,800 | 490 | 340 | 1,600 | <350 | a | |
| | 12/22/2004 | 21.74 | -- | 13.47 | 1,100 | 300 | 28 | 22 | 71 | <15 | a | |
| 3/3/2005 | 19.60 | -- | 15.61 | 340 | 12 | 4.4 | 9.1 | 28 | <10 | a | | |
| 6/9/2005 | 18.65 | -- | 16.56 | 240 | 22 | 2.7 | 6.4 | 27 | <10 | a | | |
| 9/9/2005 | 19.27 | -- | 15.94 | 7,800 | 1,100 | 170 | 380 | 690 | <160 | a | | |
| MW-3 33.97 (annual sampling) | 8/1/1994 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <2.0 | -- | -- | |
| 12/21/1994 | 18.82 | -- | 15.15 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | |
| 3/13/1995 | 17.86 | -- | 16.11 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | e | |
| 7/7/1995 | 18.25 | -- | 15.72 | -- | -- | -- | -- | -- | -- | -- | f,g | |
| 9/28/1995 | 18.00 | -- | 15.97 | -- | -- | -- | -- | -- | -- | -- | h | |
| 12/20/1995 | 18.74 | -- | 15.23 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/26/1996 | 18.25 | -- | 15.72 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/20/1996 | 18.35 | -- | 15.62 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/26/1996 | 19.12 | -- | 14.85 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 10/28/1996 | 19.11 | -- | 14.86 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/12/1996 | 18.61 | -- | 15.36 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/31/1997 | 18.35 | -- | 15.62 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/27/1997 | 18.81 | -- | 15.16 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/9/1997 | 19.18 | -- | 14.79 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/18/1997 | 18.64 | -- | 15.33 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/12/1998 | 17.56 | -- | 16.41 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/22/1998 | 18.64 | -- | 15.33 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/18/1998 | 18.33 | -- | 15.64 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/23/1998 | 18.60 | -- | 15.37 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/29/1999 | 17.85 | -- | 16.12 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/23/1999 | 18.67 | -- | 15.30 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/24/1999 | 18.64 | -- | 15.33 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/23/1999 | 19.32 | -- | 14.65 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/21/2000 | 17.89 | -- | 16.08 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 7/3/2000 | 18.40 | -- | 15.57 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/7/2000 | 18.75 | -- | 15.22 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/5/2000 | 19.03 | -- | 14.94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 3/6/2001 | 18.12 | -- | 15.85 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 6/8/2001 | 20.02 | -- | 13.95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 8/27/2001 | 21.09 | -- | 12.88 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 10/25/2001 | 21.29 | -- | 12.68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 3/1/2002 | 21.14 | -- | 12.83 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0* | -- | |
| 6/10/2002 | 21.99 | -- | 11.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0* | -- | |
| 9/3/2002 | 21.17 | -- | 12.84 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/22/2002 | 21.94 | -- | 12.07 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 1/23/2003 | 20.08 | -- | 13.93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 6/12/2003 | 20.95 | -- | 13.06 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 7/23/2003 | 21.28 | -- | 12.73 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/22/2003 | 19.05 | -- | 14.96 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/10/2004 | 18.22 | -- | 15.79 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 6/16/2004 | 18.82 | -- | 15.19 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/27/2004 | 21.03 | -- | 12.98 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/22/2004 | 20.69 | -- | 13.32 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/3/2005 | 17.94 | -- | 16.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 6/9/2005 | 18.00 | -- | 16.01 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/9/2005 | 18.43 | -- | 15.58 | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 33.75 | 10/28/1996 | 19.32 | -- | 14.43 | 10,000 | 3,900 | 420 | 400 | 360 | <200* | n | |
| 12/12/1996 | 19.42 | -- | 14.33 | 11,000 | 4,200 | 410 | 420 | 260 | 32* | -- | -- | |
| 3/31/1997 | 18.67 | -- | 15.08 | ND | ND | ND | ND | ND | ND* | ND* | -- | |
| 6/27/1997 | 19.08 | -- | 14.67 | 160 | 49 | 1.2 | ND | 5.9 | ND* | ND* | -- | |
| 9/9/1997 | 19.33 | -- | 14.42 | 7,400 | 5,000 | 410 | 230 | 470 | 33* | -- | -- | |
| 12/18/1997 | 19.17 | -- | 14.58 | 710 | 170 | 8.0 | ND | 39 | ND*** | ND*** | -- | |
| 3/12/1998 | 17.68 | -- | 16.07 | 1,300 | 410 | 21 | ND | 57 | ND*** | ND*** | -- | |

CAMBRIA

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

| Well ID TOC (ft amsl) | Date | Depth to Groundwater (ft amsl) | SPH Thickness (feet) | Groundwater Elevation (feet) | ← (µg/L) → | | | | | | | Notes |
|------------------------------------|------------|--------------------------------------|----------------------------|------------------------------------|------------|---------|---------|--------------|---------|----------------|-------|-------|
| | | | | | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | | |
| MW-4 Continued | 6/22/1998 | 17.63 | -- | 16.12 | ND | ND | ND | ND | ND | -- | -- | |
| | 9/18/1998 | 18.58 | -- | 15.17 | ND | 42 | 1.6 | ND | 4.8 | -- | -- | |
| | 12/23/1998 | 19.01 | -- | 14.74 | 1,900 | 1,000 | 76 | 50 | 120 | -- | -- | |
| | 3/29/1999 | 18.35 | -- | 15.40 | ND | ND | ND | ND | ND | -- | -- | |
| | 6/23/1999 | 17.58 | -- | 16.17 | ND | ND | ND | ND | ND | -- | -- | |
| | 9/24/1999 | 19.05 | -- | 14.70 | 9,150 | 3,270 | 131 | 34 | 537 | -- | -- | |
| | 12/23/1999 | 19.41 | -- | 14.34 | 12,200 | 5,360 | 275 | 424 | 592 | -- | -- | |
| | 3/21/2000 | 18.42 | -- | 15.33 | 45,000 | 16,000 | 1,100 | 1,400 | 1,900 | 1400* (-35)*** | a,l | |
| | 7/3/2000 | 18.82 | -- | 14.93 | 33,000 | 10,000 | 720 | 840 | 1,800 | <200* | a | |
| | 9/7/2000 | 19.21 | -- | 14.54 | 26,000 | 8,800 | 800 | 740 | 1,500 | <50*** | a,c,l | |
| | 12/5/2000 | 19.60 | -- | 14.15 | 41,000 | 11,000 | 840 | 930 | 1,900 | <200 | a | |
| | 3/6/2001 | 18.24 | -- | 15.51 | 1,100 | 400 | 5.7 | <0.5 | 20 | <5.0 | a | |
| | 6/8/2001 | 20.91 | -- | 12.84 | 92 | 19 | <0.5 | <0.5 | 1 | <5.0 | a | |
| | 8/27/2001 | 21.63 | -- | 12.12 | 49,000 | 17,000 | 1700 | 1,700 | 3,200 | <260 | a | |
| | 10/25/2001 | 21.70 | -- | 12.05 | 57,000 | 16,000 | 1,500 | 1,600 | 2,600 | <300 | a | |
| | 3/1/2002 | 21.53 | -- | 12.22 | 400 | 140 | 2.3 | <0.5 | 12 | <5.0* | a | |
| | 6/10/2002 | 22.23 | -- | 11.52 | <50 | 2.5 | <0.5 | <0.5 | <0.5 | <5.0* | -- | |
| | 9/3/2002 | 21.85 | -- | 11.90 | 31,000 | 9,700 | 300 | 650 | 1,100 | <1,000 | a | |
| | 12/22/2002 | 22.39 | -- | 11.36 | 35,000 | 13,000 | 310 | 1,100 | 1,800 | <1,500 | a | |
| | 1/23/2003 | 20.61 | -- | 13.14 | 51,000 | 18,000 | 430 | 1,500 | 2,200 | <5.0*** | a,l | |
| | 6/12/2003 | 21.20 | -- | 12.55 | 80 | 12 | <0.5 | <0.5 | 1.0 | <10 | a | |
| | 7/23/2003 | 21.51 | -- | 12.24 | 20,000 | 7,600 | 100 | 65 | 660 | <250 | a | |
| | 12/22/2003 | 19.60 | -- | 14.15 | 26,000 | 9,500 | 200 | 380 | 1,100 | <150 | a | |
| 3/10/2004 | 18.81 | -- | 14.94 | 14,000 | 4,800 | 150 | 320 | 530 | <400 | a | | |
| 6/16/2004 | 19.32 | -- | 14.43 | 2,800 | 1,100 | 24 | 17 | 100 | <50 | a | | |
| 9/27/2004 | 21.45 | -- | 12.30 | 45,000 | 16,000 | 260 | 1,700 | 2,000 | <25*** | a | | |
| 12/22/2004 | 21.15 | -- | 12.60 | 29,000 | 10,000 | 160 | 890 | 1,200 | <5.0*** | a,j | | |
| 3/3/2005 | 18.60 | -- | 15.15 | 18,000 | 6,400 | 98 | 500 | 610 | <600 | a | | |
| 6/9/2005 | 18.11 | -- | 15.64 | 20,000 | 6,100 | 110 | 460 | 580 | <500 | a | | |
| 9/9/2005 | 18.65 | -- | 15.10 | 17,000 | 6,400 | 100 | 470 | 730 | <250 | a | | |
| MW-5 34.63 | 10/28/1996 | 19.88 | -- | 14.75 | 90 | 4.0 | 0.6 | <0.50 | <0.50 | 16* | -- | |
| | 12/12/1996 | 20.09 | -- | 14.54 | 230 | 5.6 | 0.9 | ND | 0.9 | 3.6* | n | |
| | 3/31/1997 | 19.24 | -- | 15.39 | 90 | 3.1 | ND | ND | ND | ND* | -- | |
| | 6/27/1997 | 19.16 | -- | 15.47 | ND | ND | ND | ND | ND | ND* | -- | |
| | 9/9/1997 | 19.93 | -- | 14.70 | ND | ND | ND | ND | ND | ND* | -- | |
| | 12/18/1997 | 19.77 | -- | 14.86 | ND | ND | ND | ND | ND | ND*** | -- | |
| | 3/12/1998 | 19.77 | -- | 14.86 | 79 | 2.3 | ND | 0.8 | ND | ND* | -- | |
| | 6/22/1998 | 18.08 | -- | 16.55 | ND | ND | ND | ND | ND | -- | -- | |
| | 9/18/1998 | 19.12 | -- | 15.51 | ND | ND | ND | ND | ND | -- | -- | |
| | 12/23/1998 | 19.60 | -- | 15.03 | ND | 0.8 | 0.9 | ND | ND | -- | -- | |
| | 3/29/1999 | 18.88 | -- | 15.75 | ND | ND | ND | ND | ND | -- | -- | |
| | 6/23/1999 | 18.05 | -- | 16.58 | ND | ND | ND | ND | ND | -- | -- | |
| | 9/24/1999 | 19.61 | -- | 15.02 | ND | ND | ND | ND | ND | -- | -- | |
| | 12/23/1999 | 20.01 | -- | 14.62 | ND | ND | ND | ND | ND | -- | -- | |
| | 3/21/2000 | 19.05 | -- | 15.58 | 140 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| | 7/3/2000 | 19.40 | -- | 15.23 | 85 | 8.1 | 3.1 | 1.6 | 7.8 | <5.0* | k | |
| | 9/7/2000 | 19.62 | -- | 15.01 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0* | a | |
| | 12/5/2000 | 20.25 | -- | 14.38 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| | 3/6/2001 | 19.07 | -- | 15.56 | 91 | 5.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| | 6/8/2001 | 20.77 | -- | 13.86 | 290 | 22.0 | 0.8 | <0.5 | <0.5 | <5.0 | -- | |
| | 8/27/2001 | 21.33 | -- | 13.30 | 660 | 24.0 | 2.2 | 1.3 | 4.0 | <25 | a | |
| | 10/25/2001 | 21.62 | -- | 13.01 | 55 | 3.5 | <0.5 | <0.5 | <0.5 | <5.0 | a | |
| | 3/1/2002 | 21.49 | -- | 13.14 | 200 | 1.9 | 0.69 | <0.5 | <0.5 | <5.0* | a | |
| | 6/10/2002 | 22.15 | -- | 12.48 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0* | a | |
| | 9/3/2002 | 21.50 | -- | 13.13 | 60 | 1.9 | <0.5 | <0.5 | 0.77 | <5.0 | -- | |
| | 12/22/2002 | 22.19 | -- | 12.44 | 82 | 0.57 | <0.5 | 0.68 | <0.5 | <5.0 | a | |
| | 1/23/2003 | 20.27 | -- | 14.36 | <50 | 2.1 | <0.5 | <0.5 | <0.5 | <5.0 | a | |
| | 6/12/2003 | 21.10 | -- | 13.53 | <50 | 0.88 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| | 7/23/2003 | 21.47 | -- | 13.16 | <50 | 4.0 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| | 12/22/2003 | 19.57 | -- | 15.06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| | 3/10/2004 | 19.61 | -- | 15.02 | 990 | 200 | 2.9 | 4.0 | 20 | <70 | -- | |
| | 6/16/2004 | 20.15 | -- | 14.48 | 250 | 42 | <0.5 | 0.88 | <0.5 | <35 | a | |
| | 9/27/2004 | 22.14 | -- | 12.49 | 1,600 | 140 | 4.8 | 45 | 18 | <110 | a | |
| | 12/22/2004 | 21.81 | -- | 12.82 | <50 | 5.3 | <0.5 | <0.5 | 0.66 | <5.0 | -- | |
| | 3/3/2005 | 19.35 | -- | 15.28 | 2,000 | 330 | 4.4 | 63 | 39 | <150 | a | |
| | 6/9/2005 | 18.73 | -- | 15.90 | 250 | 42 | 1.4 | 14 | 3.2 | <5.0 | a | |
| | 9/9/2005 | 19.30 | -- | 15.33 | 2,000 | 390 | 5.0 | 71 | 38 | <400 | a | |
| MW-6 35.89 (annual sampling) | 10/28/1996 | 20.02 | -- | 15.87 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.0* | -- | |
| | 12/12/1996 | 20.18 | -- | 15.71 | ND | ND | ND | ND | ND | ND* | n | |
| | 3/31/1997 | 19.81 | -- | 16.08 | -- | -- | -- | -- | -- | -- | -- | |
| | 6/27/1997 | 19.76 | -- | 16.13 | -- | -- | -- | -- | -- | -- | -- | |
| | 9/9/1997 | 20.06 | -- | 15.83 | ND | ND | ND | ND | ND | ND* | -- | |
| | 12/18/1997 | 19.90 | -- | 15.99 | ND | ND | ND | ND | ND | -- | -- | |

CAMBRIA

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

| Well ID | Date | Depth to Groundwater (ft amsl) | SPH Thickness (feet) | Groundwater Elevation (feet) | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Notes |
|-------------------|------------|-----------------------------------|----------------------------|------------------------------------|------|---------|---------|--------------|---------|-------|-------|
| | | | | | | | | | | | |
| MW-6 Continued | 3/12/1998 | 18.00 | -- | 17.89 | ND | ND | ND | ND | ND | ND* | -- |
| | 6/22/1998 | 18.43 | -- | 17.46 | ND | ND | ND | ND | ND | -- | -- |
| | 9/18/1998 | 19.10 | -- | 16.79 | ND | ND | ND | ND | ND | -- | -- |
| | 12/23/1998 | 19.61 | -- | 16.28 | ND | ND | ND | ND | ND | -- | -- |
| | 3/29/1999 | 18.92 | -- | 16.97 | ND | ND | ND | ND | ND | -- | -- |
| | 6/23/1999 | 18.41 | -- | 17.48 | ND | ND | ND | ND | ND | -- | -- |
| | 9/24/1999 | 19.61 | -- | 16.28 | ND | ND | ND | ND | ND | -- | -- |
| | 12/23/1999 | 20.30 | -- | 15.59 | ND | ND | ND | ND | ND | -- | -- |
| | 3/21/2000 | 18.97 | -- | 16.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| | 7/3/2000 | 19.46 | -- | 16.43 | 59 | 5.1 | 2.3 | 1.1 | 5.3 | <5.0* | -- |
| | 9/7/2000 | 19.95 | -- | 15.94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0* | a |
| | 12/5/2000 | 20.50 | -- | 15.39 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| | 3/6/2001 | 19.54 | -- | 16.35 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| | 6/8/2001 | 20.92 | -- | 14.97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.1 | -- |
| | 8/27/2001 | 21.37 | -- | 14.52 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| | 10/25/2001 | 21.59 | -- | 14.30 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| | 3/1/2002 | 21.33 | -- | 14.56 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0* | -- |
| | 6/10/2002 | 21.97 | -- | 13.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0* | -- |
| | 9/3/2002 | 21.55 | -- | 14.34 | -- | -- | -- | -- | -- | -- | -- |
| | 12/22/2002 | 22.25 | -- | 13.64 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| | 1/23/2003 | 20.47 | -- | 15.42 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| | 6/12/2003 | 21.09 | -- | 14.80 | -- | -- | -- | -- | -- | -- | -- |
| | 7/23/2003 | 21.42 | -- | 14.47 | -- | -- | -- | -- | -- | -- | -- |
| 12/22/2003 | 19.49 | -- | 16.40 | -- | -- | -- | -- | -- | -- | -- | |
| 3/10/2004 | 20.20 | -- | 15.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 6/16/2004 | 20.73 | -- | 15.16 | -- | -- | -- | -- | -- | -- | -- | |
| 9/27/2004 | 22.88 | -- | 13.01 | -- | -- | -- | -- | -- | -- | -- | |
| 12/22/2004 | 22.53 | -- | 13.36 | -- | -- | -- | -- | -- | -- | -- | |
| 3/3/2005 | 19.87 | -- | 16.02 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | |
| 6/9/2005 | 18.95 | -- | 16.94 | -- | -- | -- | -- | -- | -- | -- | |
| 9/9/2005 | 19.45 | -- | 16.44 | -- | -- | -- | -- | -- | -- | -- | |
| Trip Blank | 3/21/2000 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| | 9/7/2000 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |

Abbreviations, Methods, & Notes

TOC = Top of casing elevation

ft amsl = feet above mean sea level

SPH = Separate-phase hydrocarbons

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method SW8015C

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

MTBE = Methyl tert-butyl ether * = MTBE by EPA Method SW8021B

** = MTBE by EPA Method SW8240

*** = MTBE by EPA Method SW8260

mg/L = micrograms per liter, equivalent to parts per billion

-- = Not sampled, not analyzed, or not applicable

<n = Not detected in sample above n mg/L

ND = Not detected above laboratory detection limit

x = Groundwater elevation adjusted for SPH by the relation:

Groundwater Elevation = TOC Elevation - Depth to Groundwater + (0.7 x SPH thickness)

= The wellhead elevation was raised by 0.41 feet when well MW-1 was connected to the SVE system on October 31, 2003.

= The wellhead elevation was lowered by 0.41 feet when well MW-1 was disconnected from the SVE system on April 30, 2005.

+ = Well de-watered during purging, no measurable water to sample.

a = Unmodified or weakly modified gasoline is significant.

b = Lighter than water immiscible sheen is present.

c = Liquid sample that contains greater than -2 vol. % sediment.

d = MTBE result confirmed by secondary column or GC/MS analysis.

e = Sample analyzed for purgeable hydrocarbons by EPA Method SW8010, no purgeable hydrocarbons were detected.

f = Sample analyzed for VOCs by EPA Method SW8240, no non-BTEX compounds were detected.

g = Sample analyzed for Total Petroleum Hydrocarbons as motor oil (TPHmo) by Modified EPA Method SW8015, no TPHmo was detected.

h = Analytic sampling discontinued. Approved by Alameda County Department of Environmental Health.

i = Lighter than gasoline range compounds are significant.

j = Gasoline range compounds having broad chromatographic peaks are significant.

k = No recognizable pattern.

l = Sample diluted due to high organic content.

m = Liquid sample that contains greater than -1 vol. % sediment.


n = TOC well elevation was increased by 3 ft based on a benchmark discrepancy discovered during a well survey performed on September 11, 2002

APPENDIX A

Groundwater Monitoring Field Data Sheets



WELL GAUGING SHEET

| Client: Cambria Environmental Technology Inc. | | | | | | |
|---|------|--------------|---|---------------|-----------------|-----------------------|
| Site Address: 1432 Harrison Street Oakland, CA | | | | | | |
| Date: 9/9/2005 | | | Signature:  | | | |
| Well ID | Time | Depth to SPH | Depth to Water | SPH Thickness | Depth to Bottom | Comments |
| MW-1 | 4:50 | | 18.26 | | 21.05 | MW-1 very soft bottom |
| MW-2 | 4:55 | | 19.27 | | 25.63 | |
| MW-3 | 4:35 | | 18.43 | | 23.92 | |
| MW-4 | 5:00 | | 18.65 | | 24.71 | |
| MW-5 | 4:45 | | 19.30 | | 28.38 | |
| MW-6 | 4:40 | | 19.45 | | 28.22 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



WELL SAMPLING FORM

| | | | | | | |
|--------------------------------|----------------------------|---------------------------------------|---------------------------------|---------------------|------------------------|----------------------------------|
| Date: | | 9/9/2005 | | | | |
| Client: | | Cambria Environmental Technology Inc. | | | | |
| Site Address: | | 1432 Harrison Street Oakland, CA | | | | |
| Well ID: | | MW-5 | | | | |
| Well Diameter: | | 2" | | | | |
| Purging Device: | | Disposable Bailer | | | | |
| Sampling Method: | | Disposable Bailer | | | | |
| Total Well Depth: | | 28.38 | Fe= mg/L | | | |
| Depth to Water: | | 19.30 | ORP= mV | | | |
| Water Column Height: | | 9.08 | DO= mg/L | | | |
| Gallons/ft: | | 0.16 | | | | |
| 1 Casing Volume (gal): | | 1.45 | COMMENTS: Very Turbid | | | |
| 3 Casing Volumes (gal): | | 4.36 | | | | |
| TIME: | CASING VOLUME (gal) | TEMP (Celsius) | | | pH | COND. (µS) |
| 5:15 | 1.5 | 23.8 | | | 6.95 | 490 |
| 5:20 | 2.9 | 23.2 | | | 6.99 | 512 |
| 5:25 | 4.4 | 23.5 | 7.02 | 507 | | |
| | | | | | | |
| | | | | | | |
| Sample ID: | Date: | Time | Container Type | Preservative | Analytes | Method |
| MW-5 | 9/9/2005 | 5:30 | Voa | HCl, ICE | TPHg, BTEX, MTBE | 8015, 8020, confirmation by 8260 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Signature: | | | | | | |

APPENDIX B

Geotracker Electronic Delivery Confirmations

Electronic Submittal Information

[Main Menu](#) |
 [View/Add Facilities](#) |
 [Upload EDD](#) |
 [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 6053266227
Date/Time of Submittal: 10/14/2005 2:16:33 PM
Facility Global ID: T0600100682
Facility Name: A BACHARACH TR & B BORSUK
Submittal Title: 3rd Qtr 2005 Groundwater Analytical Data
Submittal Type: GW Monitoring Report

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

| | |
|---|--|
| A BACHARACH TR & B BORSUK 1432 HARRISON ST OAKLAND, CA 94612 | Regional Board - Case #: 01-0739 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 498 ALAMEDA COUNTY LOP - (AG) |
|---|--|

| CONF # | TITLE | QUARTER |
|--------------|--|----------------|
| 6053266227 | 3rd Qtr 2005 Groundwater Analytical Data | Q3 2005 |
| SUBMITTED BY | SUBMIT DATE | STATUS |
| Matt Meyers | 10/14/2005 | PENDING REVIEW |

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

| | |
|---------------------------------------|---------|
| METHODS USED | SW8021F |
| TESTED FOR REQUIRED ANALYTES? | N |
| MISSING PARAMETERS NOT TESTED: | |
| - SW8021F REQUIRES ETBE TO BE TESTED | |
| - SW8021F REQUIRES TAME TO BE TESTED | |
| - SW8021F REQUIRES DIPE TO BE TESTED | |
| - SW8021F REQUIRES TBA TO BE TESTED | |
| - SW8021F REQUIRES DCA12 TO BE TESTED | |
| - SW8021F REQUIRES EDB TO BE TESTED | |
| 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 > REPD</u> |
|---------------|------------------|-----------------------------|
| QCTB SAMPLES | N | 0 |
| QCEB SAMPLES | N | 0 |
| QCAB SAMPLES | N | 0 |

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CONTACT SITE ADMINISTRATOR.

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**Submittal Title: 3rd Quarter 2005 GeoWell
Data**

Submittal Date/Time: 10/14/2005 2:17:48 PM

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Facility Name: A BACHARACH TR & B BORSUK
Global ID: T0600100682
Title: Groundwater Monitoring Report Third Quarter 2005
Document Type: Monitoring Report - Quarterly
Submittal Type: GEO_REPORT
Submittal Date/Time: 10/19/2005 2:30:17 PM
Confirmation Number: 1059156119

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APPENDIX C

Analytical Results for Groundwater Sampling



McC Campbell 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

| | | |
|--|--------------------------------------|--------------------------|
| Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608 | Client Project ID: #540-0188; Borsuk | Date Sampled: 09/09/05 |
| | | Date Received: 09/09/05 |
| | Client Contact: Subbarao Nagulapaty | Date Reported: 09/15/05 |
| | Client P.O.: | Date Completed: 09/15/05 |

WorkOrder: 0509193

September 15, 2005

Dear Subbarao:

Enclosed are:

- 1). the results of 3 analyzed samples from your **#540-0188; Borsuk 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. McC Campbell 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



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509193

| EPA Method: SW8021B/8015Cm | | Extraction: SW5030B | | | BatchID: 17924 | | | Spiked Sample ID: 0509192-002A | | |
|----------------------------|--------|---------------------|--------|--------|----------------|--------|--------|--------------------------------|-------------------------|------------|
| 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 |
| TPH(btex) [£] | ND | 60 | 105 | 106 | 0.588 | 108 | 106 | 1.36 | 70 - 130 | 70 - 130 |
| MTBE | ND | 10 | 88.7 | 97.2 | 9.13 | 93 | 95.4 | 2.56 | 70 - 130 | 70 - 130 |
| Benzene | ND | 10 | 90.1 | 92.3 | 2.42 | 92.5 | 95.8 | 3.52 | 70 - 130 | 70 - 130 |
| Toluene | ND | 10 | 91.8 | 93.5 | 1.92 | 93.8 | 96.5 | 2.86 | 70 - 130 | 70 - 130 |
| Ethylbenzene | ND | 10 | 92.3 | 94.5 | 2.37 | 94.9 | 96 | 1.16 | 70 - 130 | 70 - 130 |
| Xylenes | ND | 30 | 94.7 | 94.7 | 0 | 95.3 | 99.3 | 4.11 | 70 - 130 | 70 - 130 |
| %SS: | 112 | 10 | 97 | 96 | 1.26 | 96 | 96 | 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 17924 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-----------------|----------------|-----------------|--------------|-----------------|----------------|-----------------|
| 0509193-001A | 9/09/05 5:50 AM | 9/11/05 | 9/11/05 2:19 AM | 0509193-002A | 9/09/05 6:15 AM | 9/12/05 | 9/12/05 8:45 PM |

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.

£ 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.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0509193

| EPA Method: SW8021B/8015Cm | | Extraction: SW5030B | | | BatchID: 17926 | | | Spiked Sample ID: 0509195-001A | | |
|----------------------------|--------|---------------------|--------|--------|----------------|--------|--------|--------------------------------|-------------------------|------------|
| 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) [£] | ND | 60 | 105 | 107 | 1.42 | 109 | 109 | 0 | 70 - 130 | 70 - 130 |
| MTBE | ND | 10 | 92.4 | 95.9 | 3.75 | 103 | 93.6 | 9.95 | 70 - 130 | 70 - 130 |
| Benzene | ND | 10 | 91 | 93.6 | 2.79 | 101 | 93.6 | 7.27 | 70 - 130 | 70 - 130 |
| Toluene | ND | 10 | 92.2 | 94.9 | 2.86 | 102 | 95 | 6.99 | 70 - 130 | 70 - 130 |
| Ethylbenzene | ND | 10 | 92.7 | 95.8 | 3.25 | 98.8 | 95.5 | 3.41 | 70 - 130 | 70 - 130 |
| Xylenes | ND | 30 | 94.7 | 99.3 | 4.81 | 100 | 99 | 1.01 | 70 - 130 | 70 - 130 |
| %SS: | 113 | 10 | 96 | 95 | 1.53 | 99 | 97 | 1.85 | 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 17926 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-----------------|----------------|-----------------|-----------|--------------|----------------|---------------|
| 0509193-003A | 9/09/05 5:30 AM | 9/11/05 | 9/11/05 6:46 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.

£ 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.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0509193

ClientID: CETE

EDF: YES

Report to:

Subbarao Nagulapaty
 Cambria Env. Technology
 5900 Hollis St, Suite A
 Emeryville, CA 94608

TEL: (510) 420-0700
 FAX: (510) 420-9170
 ProjectNo: #540-0188; Borsuk
 PO:

Bill to:

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

Requested TAT:

5 days

Date Received: 09/09/2005

Date Printed: 09/09/2005

| 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 | | |
| 0509193-001 | MW-2 | Water | 9/9/05 5:50:00 AM | <input type="checkbox"/> | A | A | | | | | | | | | | | | | | | |
| 0509193-002 | MW-4 | Water | 9/9/05 6:15:00 AM | <input type="checkbox"/> | A | | | | | | | | | | | | | | | | |
| 0509193-003 | MW-5 | Water | 9/9/05 5:30:00 AM | <input type="checkbox"/> | A | | | | | | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|----------|----|--------------|----|--|----|--|----|--|
| 1 | G-MBTX_W | 2 | PREDF REPORT | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | 13 | | 14 | | 15 | |

Prepared by: Maria Venegas

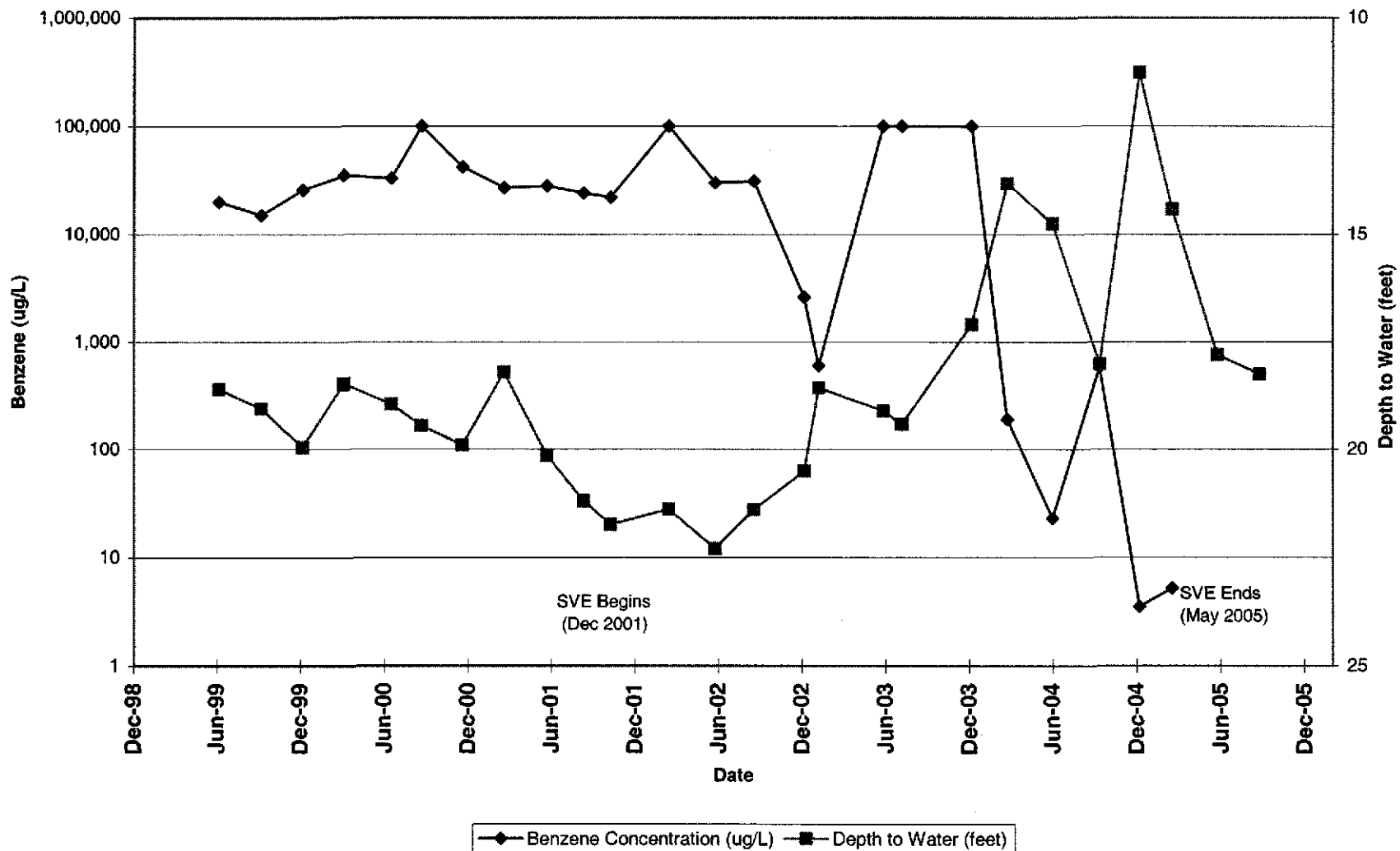
Comments:

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.

APPENDIX D

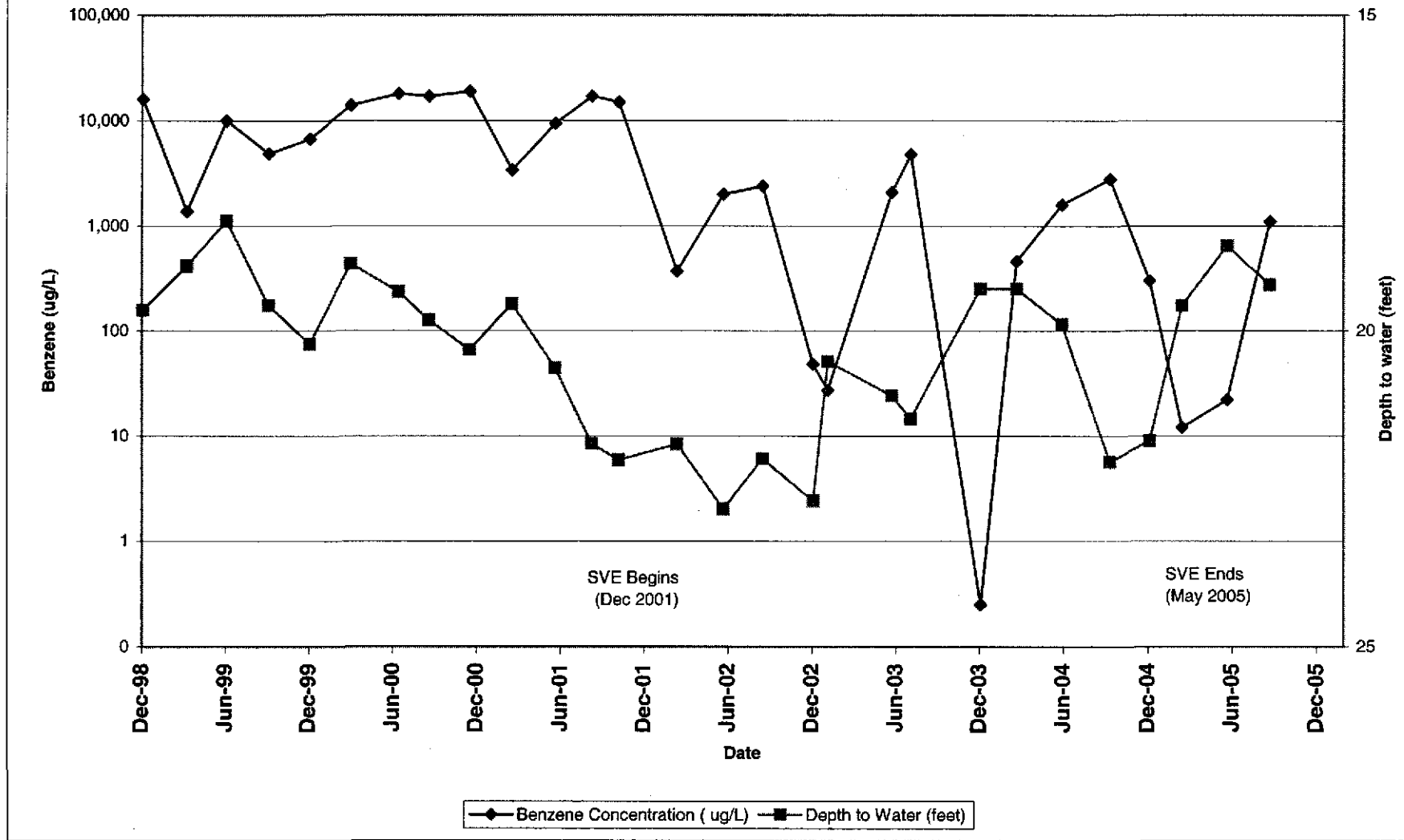
Benzene Concentration and Depth to Water versus Time Trend Graphs

MW-1: Benzene Concentration and Depth to Water vs. Time
 Allright Parking, 1432 Harrison Street, Oakland, California



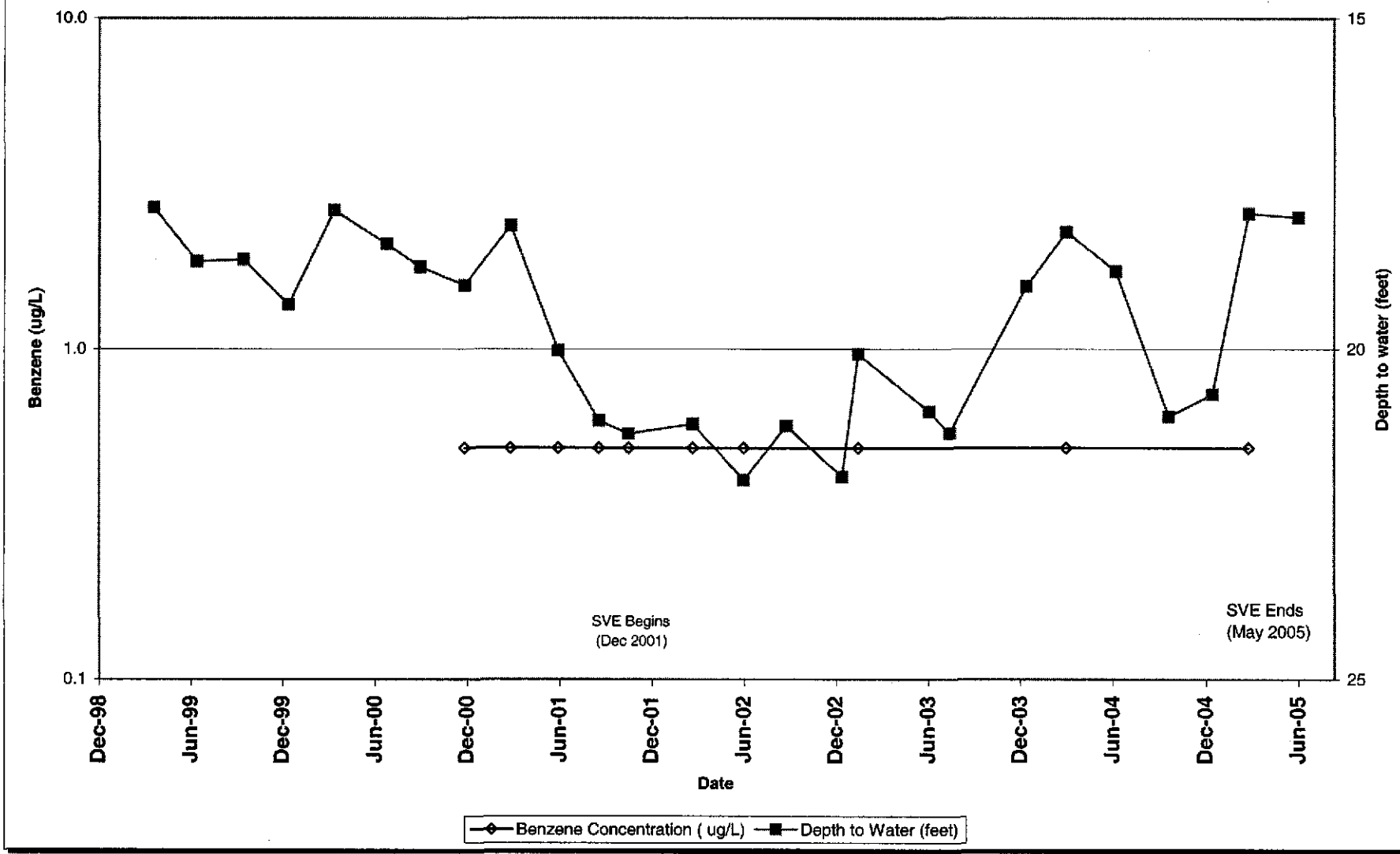
MW-2: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



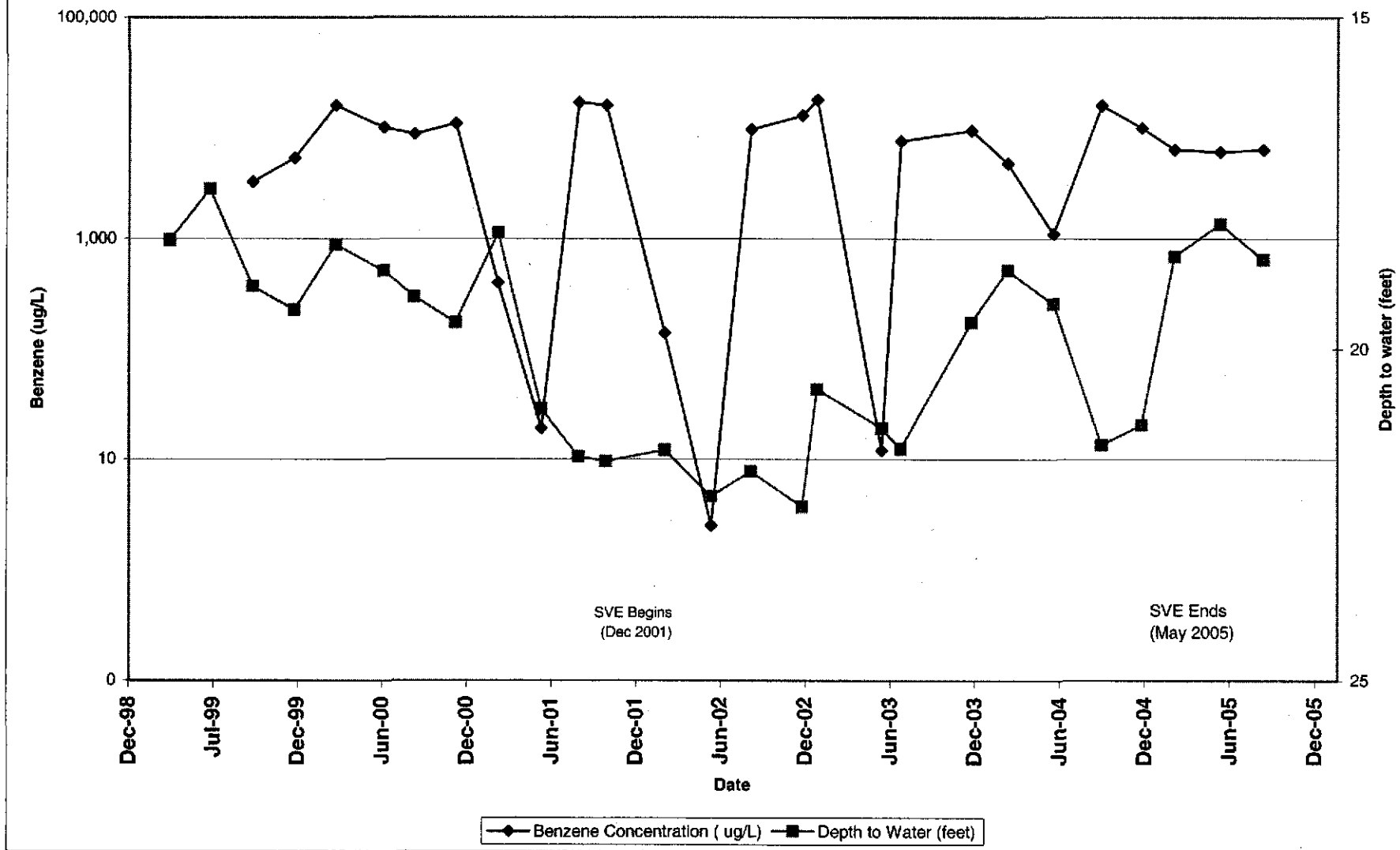
MW-3: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California

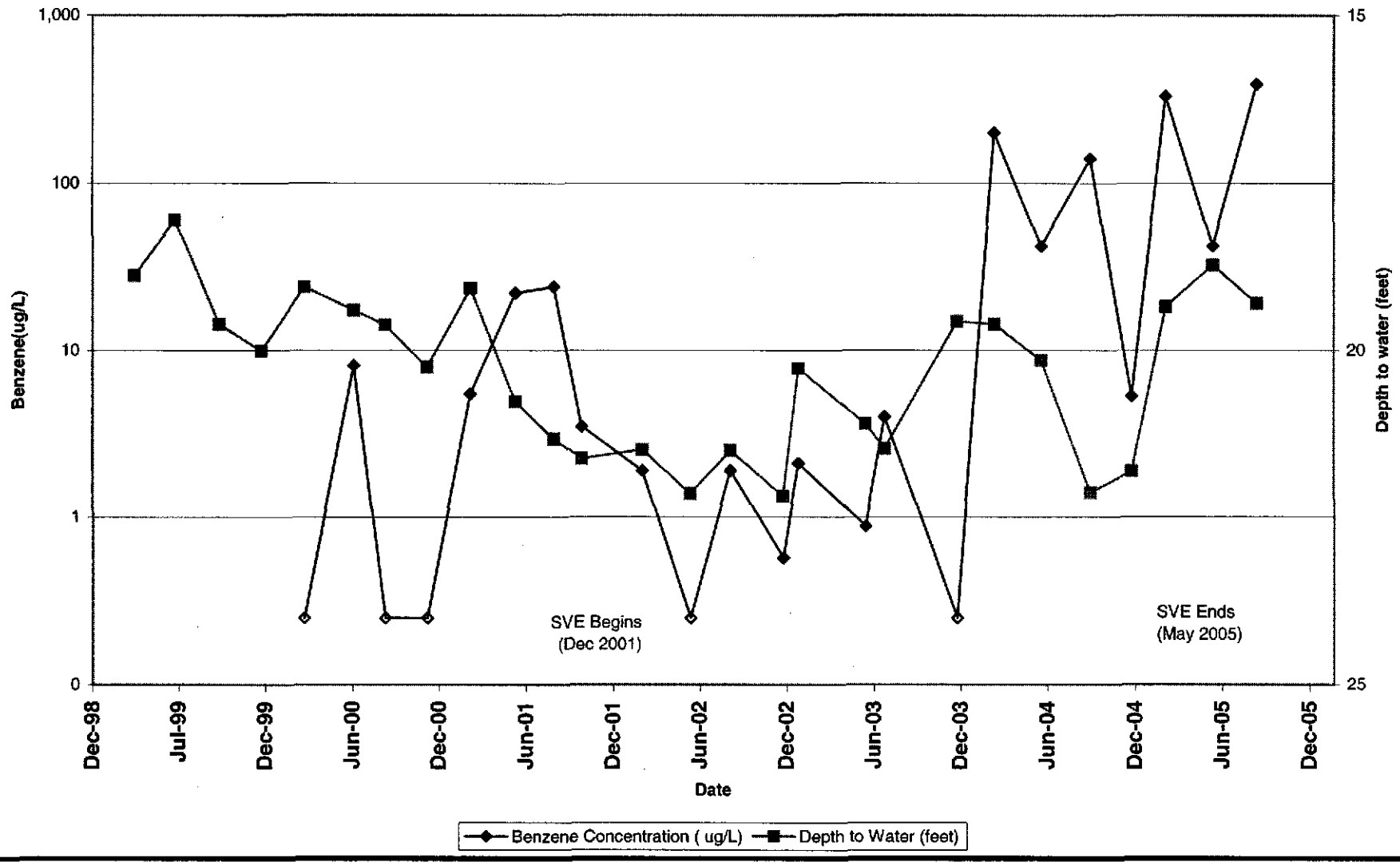


MW-4: Benzene Concentration and Depth to Water vs. Time

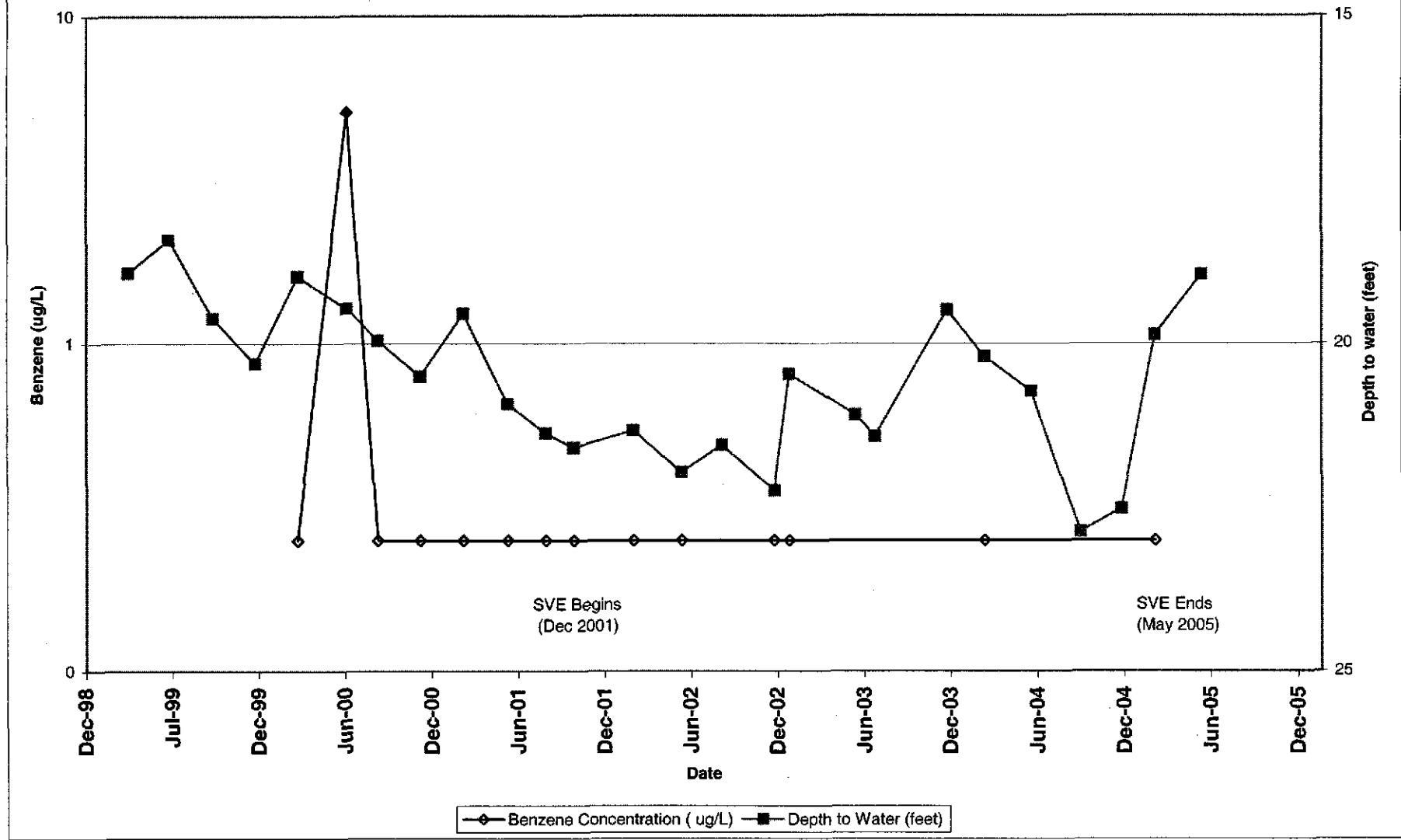
Allright Parking, 1432 Harrison Street, Oakland, California



MW-5: Benzene Concentration and Depth to Water vs. Time
 Allright Parking, 1432 Harrison Street, Oakland, California



MW-6: Benzene Concentration and Depth to Water vs. Time
 Allright Parking, 1432 Harrison Street, Oakland, California



MARK BORSUK
Attorney at Law
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(415) 922-4740 / FAX 922-1485 / CELL 264-8364
1626 Vallejo Street, San Francisco, CA 94123-5116

October 23, 2005

Mr. Don Hwang
Hazardous Materials Specialist
ACHCSA
Suite 250
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700 / FAX 337-9335

Alameda County
OCT 26 2005
Environmental Health

SUBJECT: IIIQ05 Groundwater Monitoring Report
1432 Harrison St., Oakland, CA 94612
Site ID: 498

Dear Mr. Hwang:

Attached is the IIIQ05 Groundwater Monitoring Report for the above site. If you have a question, please call me.

Sincerely yours,



Mark Borsuk