



**CONESTOGA-ROVERS
& ASSOCIATES**

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October 30, 2008

Reference No. 120741

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Alameda County
Environmental Health

Mr. Jerry Wickham
Alameda County Department of Environmental Health
UST Local Oversight Program
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Dear Mr. Wickham:

Re: Groundwater Monitoring Report - Third Quarter 2008
Gatzke / Hooshi's Auto Service
1499 MacArthur Boulevard
Oakland, California 94602
Fuel Leak Case #RO0000516

On behalf of Ms. Naomi Gatzke, Conestoga-Rovers & Associates, Inc. (CRA) is submitting this *Third Quarter 2008 Monitoring Report* for the subject site. This report describes Third Quarter 2008 activities and results as well as anticipated Fourth Quarter 2008 activities.

If you have any questions or comments regarding this report or the project, please contact Mark Jonas at (510) 420-3307.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Mark Jonas, P.G.
Senior Project Manager

MJ/aw/1
Encl. *Third Quarter 2008 Monitoring Report*

c.c.: Ms. Naomi Gatzke

Equal
Employment
Opportunity Employer



GROUNDWATER MONITORING REPORT - THIRD QUARTER 2008

**GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA 94602**

AGENCY CASE NO. RO0000516

OCTOBER 29, 2008

REF. NO. 120741 (1)

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**Prepared by:
Conestoga-Rovers
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1.0 INTRODUCTION

On behalf of Ms. Naomi Gatzke, Conestoga-Rovers & Associates, Inc. (CRA) is submitting this *Third Quarter 2008 Monitoring Report* for the subject site. Presented are the third quarter 2008 groundwater monitoring activities and results and the anticipated fourth quarter 2008 activities.

Figure 1 is a vicinity map. Figure 2 is a recent groundwater elevation contour and hydrocarbon concentration map. Table 1 includes monitoring well construction details. Table 2 provides recent and historic groundwater level measurements, elevations, hydrochemical, and separate phase hydrocarbon (SPH) data. Appendix A contains field data sheets for this monitoring event. Appendix B presents the recent laboratory analytical report. Appendix C includes time-series plots with benzene and total petroleum hydrocarbons as gasoline (TPHg) concentrations and groundwater elevations

1.1 SITE INFORMATION

Site Address 1499 MacArthur Boulevard, Oakland

Site Use Auto Service Business

Client and Contact Naomi Gatzke

Consultant and Contact Person Conestoga-Rovers & Associates
Mark Jonas, P.G.

Lead Agency and Contact Person Alameda County Environmental Health
Mr. Jerry Wickham, P.G.

Agency Case No. RO0000516

2.0 SITE ACTIVITIES AND RESULTS

2.1 CURRENT QUARTER'S ACTIVITIES

2.1.1 FIELD ACTIVITIES

On July 9, 2008, Muskan Environmental Sampling (MES) conducted quarterly monitoring and sampling activities. MES measured well water levels in all wells and collected groundwater samples for monitoring wells MW-1, MW-2, and MW-5 (Figure 2). Groundwater depth measurements have been submitted to the GeoTracker database.

Prior to groundwater sampling, groundwater levels were measured in all monitoring wells. Each monitoring well was then purged before sampling. MES purged at least three well-casing volumes of groundwater from each monitoring well. Field measurements of pH, conductivity, and temperature of purged groundwater were measured after the extraction of each successive casing volume. Well purging continued until consecutive pH, specific conductance, and temperature measurements appeared to stabilize. Field measurements, purge volumes, and sample collection data were recorded on field sampling data forms, provided in Appendix A.

Groundwater samples were collected using new disposable bailers, decanted into appropriate sampling containers supplied by the analytical laboratory. Samples were labeled, placed in protective foam sleeves, stored on crushed, water-based ice at or below 4 degrees Celsius and transported under a chain-of-custody (COC) to the laboratory. The COC used for this monitoring event is provided in Appendix B.

2.1.2 SAMPLE ANALYSES

Groundwater samples were analyzed by McCampbell Analytical, Inc. of Pittsburgh, California, a California-certified laboratory (DHS License No. 1644). All groundwater samples were analyzed for TPHg by modified United States Environmental Protection Agency (EPA) Method SW8015C; and benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by EPA Method SW8021B. The analytical laboratory report is included in Appendix B. Groundwater analytical results are provided on Table 2 and summarized on Figure 2. Groundwater analytical results have been submitted to the GeoTracker database.

2.2 CURRENT QUARTER'S RESULTS

| | |
|---|--------------------|
| Groundwater Flow Direction | Southwest |
| Hydraulic Gradient | 0.073 |
| Range of Measured Water Depth from Top of Casing in Monitoring Wells | 7.79 to 10.08 feet |
| Were Measureable Separate Phase | No |
| Hydrocarbons Observed | |

Based on depth-to-water measurements collected during the monitoring event on July 9, 2008, groundwater appears to generally flow towards the southwest with an apparent gradient of 0.073 feet per foot (Figure 2). The gradient and flow direction are consistent with historical data. Depth-to-water and groundwater elevation data for the site are in Table 2.

Hydrocarbons were detected in all three of the sampled wells, MW-1, MW-2, and MW-5. TPHg concentrations ranged from 140 micrograms per liter ($\mu\text{g}/\text{L}$) to 30,000 $\mu\text{g}/\text{L}$. The highest concentration of TPHg was detected in monitoring well MW-5. BTEX was detected in well MW-2 at concentrations of 370 $\mu\text{g}/\text{L}$, 170 $\mu\text{g}/\text{L}$, 760 $\mu\text{g}/\text{L}$, and 2,200 $\mu\text{g}/\text{L}$ respectively. BTEX was also detected in MW-5 at concentrations of 130 $\mu\text{g}/\text{L}$, 600 $\mu\text{g}/\text{L}$, 290 $\mu\text{g}/\text{L}$, and 4,000 $\mu\text{g}/\text{L}$ respectively. No MTBE was detected in any of the sampled wells this quarter.

TPHg was detected in five of the twelve sampled wells at concentrations ranging from 500 to 2,200 micrograms per liter ($\mu\text{g}/\text{L}$). The maximum TPHg concentration was detected in well MW-12. Benzene was detected in four of the twelve sampled wells at concentrations ranging from 3.8 $\mu\text{g}/\text{L}$ to 110 $\mu\text{g}/\text{L}$. MTBE was detected in seven of the twelve sampled wells at concentrations ranging from 2.1 $\mu\text{g}/\text{L}$ to 7.7 $\mu\text{g}/\text{L}$. The maximum benzene and MTBE concentrations were detected in well MW-13.

2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER

During the fourth quarter 2008, CRA will measure water levels in all wells and collect groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and

MW-6 in accordance with the sampling schedule. CRA will then prepare a groundwater monitoring report summarizing the monitoring activities and results.

Based on the sampling schedule, monitoring wells MW-1, MW-2, and MW-5 are sampled on a quarterly basis and monitoring wells MW-3, MW-4, and MW-6 are sampled on an annual basis during the fourth quarter. Groundwater samples are analyzed for TPHg by modified EPA Method SW8015C, with BTEX and MTBE analyzed by EPA Method SW8021B.

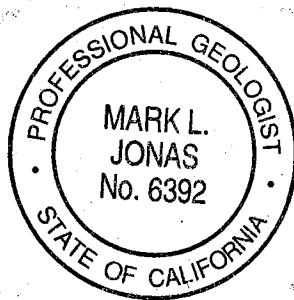
A Work Plan for additional characterization will also be presented in fourth quarter 2008.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Mark Werner

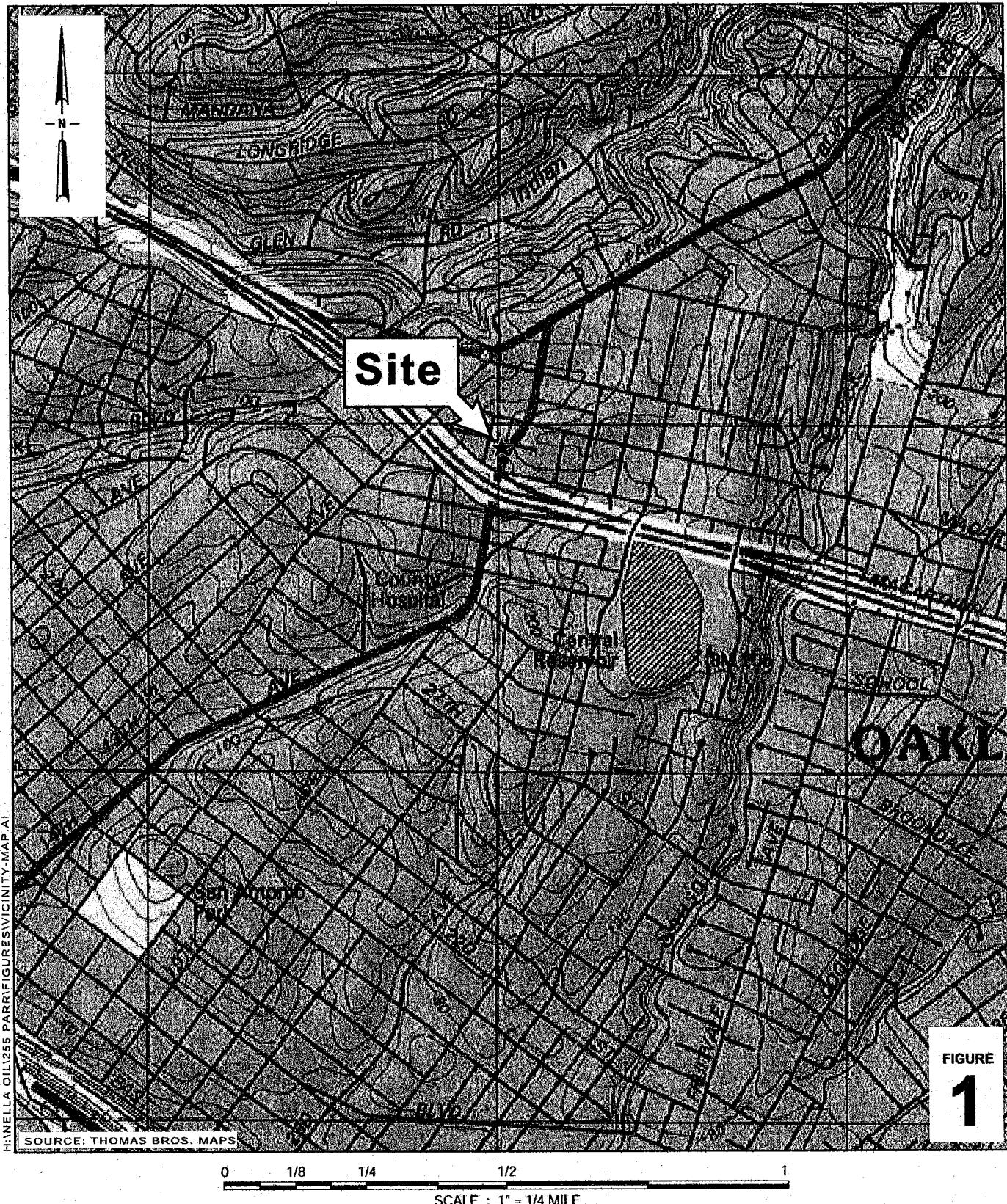
Michael Werner for
Bryan Fong
Staff Geologist

Mark J.
Mark Jonas, P.G.
Senior Project Manager



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FIGURES



Hooshi's Auto Service

1499 MacArthur Boulevard

Oakland, California

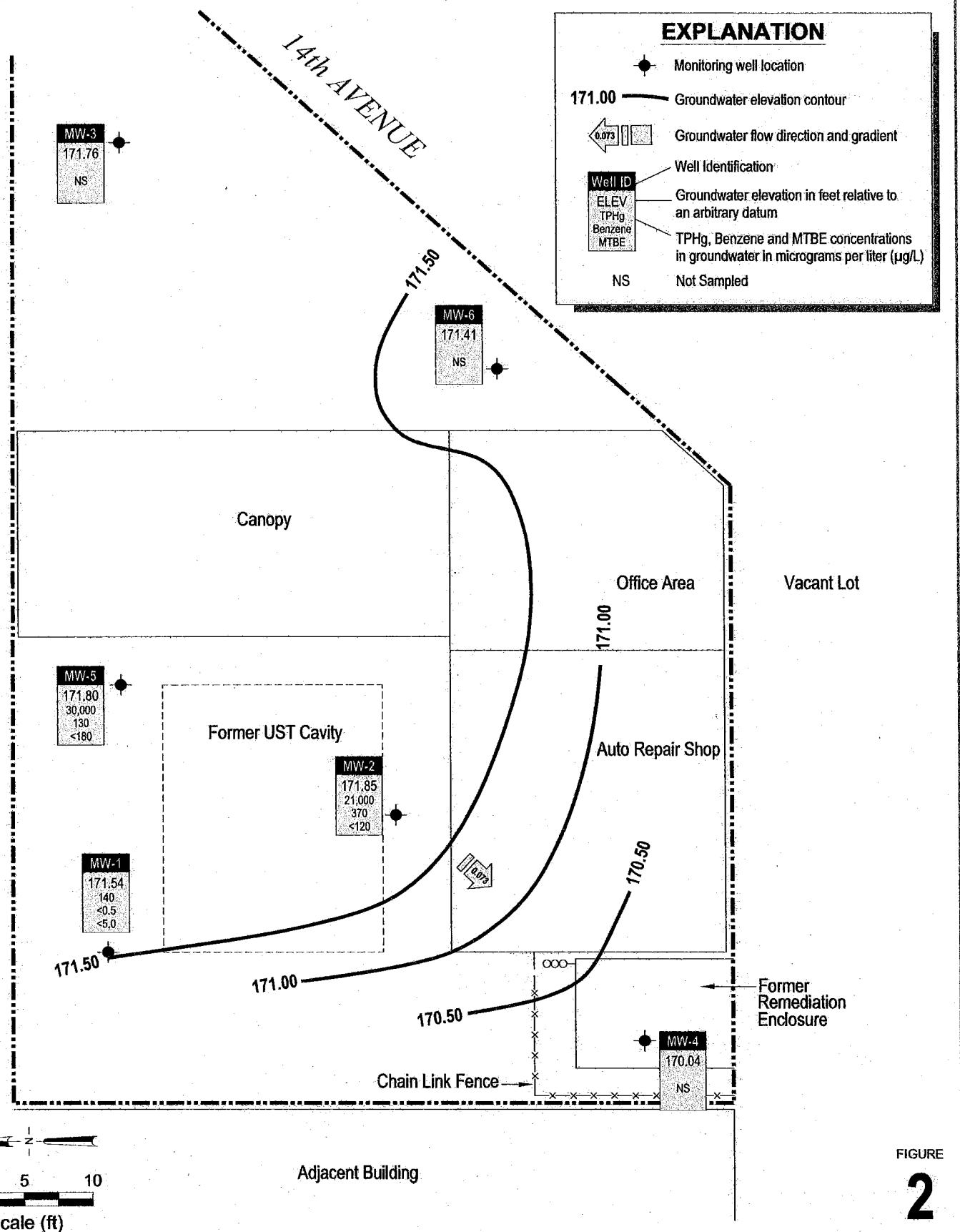


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Vicinity Map

MACARTHUR BLVD.

H. WIGATZKE (HOOSHI) OAKLAND FIGURE S20083QDM08-MF.DWG



Hooshi's Auto Service

1499 MacArthur Boulevard
Oakland, California



CONESTOGA-ROVERS
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**Groundwater Elevation Contour
and Hydrocarbon Concentration Map**

July 9, 2008

TABLES

TABLE 1

MONITORING WELL CONSTRUCTION DETAILS
GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

| Well ID | Former ID | Date Installed | Date Destroyed | Borehole diameter (in) | Depth of borehole (ft) | Casing diameter (in) | Screened interval (ft bgs) | Filter Pack (ft bgs) | Bentonite seal (ft bgs) | Cement (ft bgs) | TOC elevation (ft above msl) |
|---------|-----------|----------------|----------------|---------------------------|---------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|--------------------|---------------------------------|
| MW-1 | B1 | 1/7/1993 | - | | 20* | 2 | | | | | 180.83 |
| MW-2 | B2 | 1/7/1993 | - | | 20* | 2 | | | | | 180.24 |
| MW-3 | B3 | 1/7/1993 | - | | 20* | 2 | | | | | 179.55 |
| MW-4 | - | 6/27/1996 | - | | 20 | 2 | 4.5 - 19 | 3.5 - 19 | 2.5 - 3.5 | 1 - 2.5 | 180.12 |
| MW-5 | - | 6/27/1996 | - | | 20 | 2 | 4.5 - 19 | 3.5 - 19 | 2.5 - 3.5 | 1 - 2.5 | 180.09 |
| MW-6 | - | 6/27/1996 | - | | 20 | 2 | 4.5 - 19 | 3.5 - 19 | 2.5 - 3.5 | 1 - 2.5 | 179.63 |

Abbreviations / Notes

ft = feet

in = inches

ft bgs = feet below grade surface

ft above msl = feet above mean sea level

TOC = top of casing

Elevations surveyed by Virgil Chavez Land Surveying.

* = Depth assume by downhole measurement.

TABLE 2

GROUNDWATER ELEVATION AND ANALYTICAL DATA
GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

| Well ID | Date | TOC Depth to Groundwater | Groundwater Elevation | SPH Thickness | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Notes |
|--|------------|-----------------------------|--------------------------|---------------|--------|---------------|---------------|--------------|---------------|---------|-------|
| TOC (ft*) | | (ft) | (ft msl**) | (ft) | ← | | | (μg/L) | → | | |
| 2006 Grab Groundwater Analytical Data | | | | | | | | | | | |
| B-1* | 12/21/2006 | — | — | — | 13,000 | 37 / 28 | 32 / ND<17 | 380 / 520 | 1,100 / 1,300 | ND<17 | a,i |
| B-2* | 12/21/2006 | — | — | — | 40,000 | 1,100 / 1,100 | 1,300 / 1,300 | 990 / 840 | 6,400 / 5,900 | ND<50 | a,i |
| B-3* | 12/21/2006 | — | — | — | 300 | 1.9 / 3.2 | 1.0 / 0.98 | 0.76 / 1.4 | 0.62 / 1.2 | ND<0.5 | a,i |
| B-4* | 12/21/2006 | — | — | — | 7,600 | 110 / 87 | 32 / 22 | 470 / 520 | 520 / 450 | ND<10 | a,i |
| B-5* | 12/22/2006 | — | — | — | 72,000 | — / 850 | — / 3,100 | — / 2,800 | — / 16,000 | ND<100 | a,b |
| Monitoring Well Groundwater Analytical Data | | | | | | | | | | | |
| MW-1 | 1/4/1993 | — | — | — | 539 | 130 | 12 | 22 | 13 | — | |
| 181.00 | 4/22/1993 | — | — | — | 1,130 | 75 | 8.0 | 38 | 11 | — | |
| | 12/27/1994 | — | — | — | 770 | 22 | 6.6 | 14 | 21 | — | |
| | 6/27/1996 | 14.11 | 166.89 | — | 3,300 | 260 | 34 | 59 | 170 | 80 | |
| | 12/10/1996 | 13.71 | 167.29 | — | 1,500 | 84 | 11 | 22 | 32 | 34 | |
| | 5/8/1998 | 13.85 | 167.15 | — | 3,200 | 300 | 12 | 62 | 36 | ND<120 | a |
| | 8/17/1998 | 14.11 | 166.89 | — | 1,700 | 160 | 18 | 32 | 27 | 39 | a |
| | 11/4/1998 | 14.28 | 166.72 | — | 1,100 | 11 | 4.3 | 3.6 | 6.5 | ND<50 | a |
| | 2/17/1999 | 13.41 | 167.59 | — | 320 | 200 | 47 | 72 | 75 | 57 | a |
| | 5/27/1999 | 14.16 | 166.84 | — | 2,500 | 81 | 12 | 29 | 41 | ND<80 | a |
| | 8/19/1999 | 14.18 | 166.82 | — | 780 | 19 | ND<0.5 | 5.7 | 4.5 | 28 | a |
| 180.83 | 11/23/1999 | 14.43 | 166.40 | — | 1,300 | 24 | 0.64 | 1.8 | 3.3 | ND<100 | a |
| | 2/17/2000 | 13.85 | 166.98 | — | 1,300 | 60 | 9.1 | 22 | 19 | 22/16 | a,b |
| | 5/9/2000 | 14.01 | 166.82 | — | 2,700 | 55 | 13 | 19 | 25 | 34/29 | a |
| | 8/15/2000 | 14.24 | 166.59 | — | — | — | — | — | — | — | |
| | 12/1/2000 | 8.75 | 172.08 | — | 480 | 6.4 | 5.9 | 1.1 | 3.9 | 18 (21) | a |
| 180.63 | 2/8/2001 | 8.49 | 172.14 | — | 64 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 6.1/5.6 | a,c |
| | 4/9/2001 | 8.71 | 171.92 | — | — | — | — | — | — | — | |
| | 4/24/2001 | 7.90 | 172.73 | — | 77 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 5.6/3.7 | c |
| | 8/6/2001 | 8.83 | 171.80 | — | 140 | 1.7 | 0.55 | ND<0.5 | 0.63 | 5.8/4.0 | a |
| | 10/22/2001 | 8.91 | 171.72 | — | 120 | 0.92 | ND<0.5 | ND<0.5 | 0.59 | 11(10) | a |
| | 2/1/2002 | 8.15 | 172.48 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 4/19/2002 | 8.63 | 172.00 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 7/16/2002 | 8.79 | 171.84 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 10/3/2002 | 8.90 | 171.73 | — | 110 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | f |
| | 1/10/2003 | 7.93 | 172.70 | — | ND<50 | ND<0.5 | 0.74 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 4/21/2003 | 8.17 | 172.46 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 7/9/2003 | 8.92 | 171.71 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 10/7/2003 | 9.13 | 171.50 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/22/2004 | 8.20 | 172.43 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 4/2/2004 | 7.09 | 173.54 | — | 110 | 0.52 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | a |
| | 12/29/2004 | 6.15 | 174.48 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/27/2005 | 7.15 | 173.48 | — | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | |
| | 4/6/2005 | 6.84 | 173.79 | — | 140 | ND<0.5 | 0.55 | ND<0.5 | 0.70 | ND<5.0 | c |
| | 7/28/2005 | 7.36 | 173.27 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 10/14/2005 | 7.51 | 173.12 | — | 220 | 1.2 | ND<0.5 | 0.56 | 0.75 | ND<5.0 | a |
| | 1/30/2006 | 6.80 | 173.83 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 4/11/2006 | 6.60 | 174.03 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 7/14/2006 | 7.53 | 173.10 | — | 170 | 0.65 | 0.60 | ND<0.5 | ND<0.5 | ND<5.0 | a |
| | 10/13/2006 | 7.47 | 173.16 | — | 200 | 0.93 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | a |
| | 1/12/2007 | 7.40 | 173.23 | — | 92 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | c,i |
| | 4/20/2007 | 7.14 | 173.49 | — | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 7/30/2007 | 7.81 | 172.82 | — | 130 | 0.52 | ND<0.5 | ND<0.5 | 0.61 | ND<10 | a,c |
| | 10/24/2007 | 8.15 | 172.48 | — | 150 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | c |

TABLE 2

GROUNDWATER ELEVATION AND ANALYTICAL DATA
GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

| Well ID | Date | TOC Depth to Groundwater | Groundwater | | TPHg | Benzene | Toluene | Ethylbenzene ($\mu\text{g/L}$) | Xylenes | MTBE | Notes |
|-------------|------------|-----------------------------|-------------|----------------------------------|---------|---------|---------|-------------------------------------|---------|--------------|-------|
| | | | Elevation | SPH Thickness | | | | | | | |
| MW-1 cont'd | 1/15/2008 | 7.79 | 172.84 | — | 86 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | c |
| | 4/17/2008 | 8.64 | 171.99 | — | 100 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | c |
| | 7/9/2008 | 9.09 | 171.54 | — | 140 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | c |
| MW-2 | 1/4/1993 | — | — | — | 149,000 | 21,700 | 25,000 | ND | 7,760 | — | |
| 180.45 | 4/22/1993 | — | — | — | 136,300 | 9,900 | 15,870 | 15,300 | 2,190 | — | |
| | 12/27/1994 | — | — | — | 94,000 | 11,000 | 18,000 | 2,700 | 16,000 | — | |
| | 6/27/1996 | 12.61 | 168.64 | 1.00 | — | — | — | — | — | — | |
| | 12/10/1996 | 11.10 | 169.55 | 0.25 | — | — | — | — | — | — | |
| | 5/8/1998 | 10.81 | 169.66 | 0.03 | — | — | — | — | — | — | |
| | 8/17/1998 | 12.16 | 168.31 | 0.02 | — | — | — | — | — | — | |
| | 11/4/1998 | 12.61 | 167.86 | 0.02 | — | — | — | — | — | — | |
| | 2/17/1999 | 9.82 | 170.66 | 0.04 | — | — | — | — | — | — | |
| | 5/27/1999 | 11.07 | 169.48 | 0.13 | — | — | — | — | — | — | |
| | 8/19/1999 | 12.79 | 167.68 | 0.02 | — | — | — | — | — | — | |
| 180.24 | 11/23/1999 | 12.14 | 168.20 | 0.12 | — | — | — | — | — | — | |
| | 2/17/2000 | 10.01 | 170.37 | 0.18 | — | — | — | — | — | — | |
| | 5/9/2000 | 10.88 | 169.38 | 0.03 | — | — | — | — | — | — | |
| | 8/15/2000 | 12.28 | 167.97 | 0.01 | — | — | — | — | — | — | |
| | 12/1/2000 | 8.03 | 172.21 | Sheen ^{Field} | 260,000 | 1,100 | 5,000 | 1,900 | 17,000 | ND<100 | a |
| | 2/8/2001 | 7.86 | 172.38 | Sheen ^{Field} | 2,900 | 1.7 | 14 | 5.0 | 140 | ND<5.0 | c,d |
| | 4/9/2001 | 7.95 | 172.29 | Sheen ^{Field} | — | — | — | — | — | — | |
| | 4/24/2001 | 6.90 | 173.34 | Sheen ^{Lab} | 56,000 | 360 | 980 | 1,000 | 4,700 | ND<5.0 | a,b |
| | 8/6/2001 | 8.15 | 172.09 | Sheen ^{Field & Lab} | 54,000 | 680 | 1,900 | 1,500 | 7,800 | ND<200/ND<10 | a,b,j |
| | 10/22/2001 | 8.22 | 172.02 | Sheen ^{Field & Lab} | 32,000 | 420 | 770 | 1,100 | 4,100 | ND<250 | a,b |
| | 2/1/2002 | 8.07 | 172.17 | — | 26,000 | 310 | 490 | 920 | 1,600 | ND<1,000 | a |
| | 4/19/2002 | 8.60 | 171.64 | — | 16,000 | 300 | 240 | 1,000 | 990 | ND<100 | a |
| | 7/16/2002 | 8.21 | 172.03 | — | 5,700 | 120 | 18 | 340 | 15 | ND<50 | a |
| | 10/3/2002 | 8.14 | 172.10 | — | 4,400 | 44 | 16 | 68 | 20 | ND<25 | a |
| | 1/10/2003 | 6.98 | 173.26 | Sheen ^{Lab} | 16,000 | 300 | 320 | 580 | 830 | ND<100 | a,b |
| | 4/21/2003 | 7.25 | 172.99 | — | 12,000 | 350 | 260 | 610 | 380 | ND<50 | a |
| | 7/9/2003 | 7.99 | 172.25 | — | 3,300 | 51 | 7.4 | 47 | 2.8 | ND<17 | a |
| | 10/7/2003 | 8.21 | 172.03 | — | 2,400 | 93 | 11 | 34 | 22 | ND<50 | a |
| | 1/22/2004 | 7.24 | 173.00 | — | 5,900 | 240 | 130 | 350 | 200 | ND<50 | a |
| | 4/2/2004 | 6.29 | 173.95 | — | 37,000 | 840 | 1,500 | 1,300 | 5,900 | ND<500 | a |
| | 12/29/2004 | 5.37 | 174.87 | — | 9,300 | 240 | 230 | 330 | 880 | ND<50 | a |
| | 1/27/2005 | 6.38 | 173.86 | Sheen ^{Field} | 37,000 | 1,200 | 1,400 | 1,300 | 5,200 | <250 | a |
| | 4/6/2005 | 5.88 | 174.36 | — | 21,000 | 400 | 340 | 780 | 1,700 | ND<100 | a |
| | 7/28/2005 | 6.61 | 173.63 | — | 35,000 | 690 | 1,200 | 1,200 | 5,200 | ND<500 | a |
| | 10/14/2005 | 6.80 | 173.44 | Sheen ^{Field & Lab} | 14,000 | 380 | 120 | 780 | 1,200 | ND<100 | a, b |
| | 1/30/2006 | 5.91 | 174.33 | Sheen ^{Field & Lab} | 22,000 | 310 | 140 | 1,300 | 2,800 | ND<50 | a,b,i |
| | 4/11/2006 | 5.65 | 174.59 | Sheen ^{Field & Lab} | 18,000 | 280 | 170 | 780 | 1,400 | ND<250 | a,b,i |
| | 7/14/2006 | 6.76 | 173.48 | Sheen ^{Field & Lab} | 49,000 | 340 | 140 | 1,600 | 4,800 | ND<500 | a,b |
| | 10/13/2006 | 6.74 | 173.50 | Sheen ^{Field & Lab} | 21,000 | 490 | 73 | 600 | 1,100 | ND<110 | a,b,i |
| | 1/12/2007 | 6.55 | 173.69 | Sheen ^{Field} | 16,000 | 320 | 170 | 600 | 2,100 | ND<250 | a,i |
| | 4/20/2007 | 6.39 | 173.85 | Sheen ^{Field & Lab} | 15,000 | 340 | 160 | 420 | 1,700 | ND<120 | a,b |
| | 7/30/2007 | 7.09 | 173.15 | Sheen ^{Field} | 17,000 | 430 | 170 | 740 | 2,100 | ND<100 | a |
| | 10/24/2007 | 7.40 | 172.84 | Sheen ^{Field & Lab} | 14,000 | 370 | 40 | 240 | 490 | ND<100 (8.3) | a,b |
| | 1/15/2008 | 6.90 | 173.34 | Sheen ^{Field} | 13,000 | 440 | 180 | 510 | 1,700 | ND<250 | a,i |
| | 4/17/2008 | 7.89 | 172.35 | Sheen ^{Field} | 29,000 | 410 | 200 | 830 | 2,700 | ND<130 | a |
| | 7/9/2008 | 8.39 | 171.85 | Sheen ^{Field} | 21,000 | 370 | 170 | 760 | 2,200 | ND<120 | a |

TABLE 2

**GROUNDWATER ELEVATION AND ANALYTICAL DATA
GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

| Well ID | Date | TOC Depth to Groundwater (ft*) | Groundwater | | TPHg ← | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE | Notes |
|------------------|------------|-----------------------------------|-------------------------|-----------------------|-----------|---------|---------|------------------------|---------|--------|---------|
| | | | Elevation (ft msl**) | SPH Thickness (ft) | | | | | | | |
| MW-3 | 1/4/1993 | -- | -- | -- | 1,610 | 772 | 14 | 11 | ND | -- | |
| 179.94 | 4/22/1993 | -- | -- | -- | 3,040 | 980 | 34 | 19 | 16 | -- | |
| | 12/27/1994 | -- | -- | -- | 2,600 | 180 | 9.0 | 7.2 | 13 | -- | |
| | 6/27/1996 | 13.20 | 166.74 | -- | 2,000 | 22 | 2.9 | 11 | 7.4 | 56 | |
| | 12/10/1996 | 13.13 | 166.81 | -- | 970 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 24 | |
| | 5/8/1998 | 13.03 | 166.91 | -- | 780 | 3.7 | 2.1 | 1.1 | 2.4 | ND<32 | a |
| | 8/17/1998 | 13.22 | 166.72 | -- | 870 | 2.8 | ND<0.5 | ND<0.5 | 3.7 | ND<5.0 | b,c |
| | 11/4/1998 | 13.31 | 166.63 | -- | 770 | 1.6 | 4.4 | 2.0 | 6.9 | ND<30 | c |
| | 2/17/1999 | 12.89 | 167.05 | -- | 650 | 6.2 | 3.4 | 1.5 | 2.6 | ND<5.0 | b,c |
| | 5/27/1999 | 12.32 | 167.62 | -- | 570 | 1.5 | 1.2 | 0.72 | 1.1 | ND<20 | a |
| | 8/19/1999 | 13.19 | 166.75 | -- | 830 | ND<0.5 | 1.9 | ND<0.5 | 1.3 | ND<20 | c,d |
| 179.55 | 11/23/1999 | 13.26 | 166.29 | -- | 900 | ND<0.5 | 1.8 | 0.56 | 1.4 | ND<20 | c,d |
| | 2/17/2000 | 12.78 | 166.77 | -- | 250 | ND<0.5 | 1.5 | ND<0.5 | 0.62 | ND<5.0 | d |
| | 5/9/2000 | 12.92 | 166.63 | -- | 690 | ND<0.5 | 2.1 | 0.85 | 1.6 | ND<5.0 | a |
| | 8/15/2000 | 13.19 | 166.36 | -- | 610 | ND<0.5 | 2.3 | 0.75 | 1.2 | ND<5.0 | c,d |
| | 12/1/2000 | 7.50 | 172.05 | -- | 120 | ND<0.5 | 0.90 | 0.65 | 0.62 | ND<5.0 | c,d |
| | 2/8/2001 | 7.20 | 172.35 | -- | 87 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | c,d |
| | 4/9/2001 | 7.33 | 172.22 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 8/6/2001 | 7.61 | 171.94 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 10/22/2001 | 7.58 | 171.97 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 2/1/2002 | 7.53 | 172.02 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | 8.5/8.5 |
| | 4/19/2002 | 7.95 | 171.60 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | 9.0/11 |
| | 7/16/2002 | 7.68 | 171.87 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | 20/30 |
| | 10/3/2002 | 7.78 | 171.77 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/10/2003 | 6.91 | 172.64 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | 19/16 |
| sampled annually | 4/21/2003 | 7.21 | 172.34 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/9/2003 | 8.05 | 171.50 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/7/2003 | 8.19 | 171.36 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/22/2004 | 7.13 | 172.42 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/2/2004 | 5.73 | 173.82 | -- | -- | -- | -- | -- | -- | -- | |
| | 12/29/2004 | 4.88 | 174.67 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/27/2005 | 5.80 | 173.75 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/6/2005 | 5.49 | 174.06 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/28/2005 | 6.02 | 173.53 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/14/2005 | 6.11 | 173.44 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/30/2006 | 5.45 | 174.10 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/11/2006 | 5.22 | 174.33 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/14/2006 | 6.15 | 173.40 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/13/2006 | 6.03 | 173.52 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/12/2007 | 5.98 | 173.57 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/20/2007 | 5.76 | 173.79 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/30/2007 | 6.44 | 173.11 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/24/2007 | 6.82 | 172.73 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/15/2008 | 6.45 | 173.10 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/17/2008 | 7.30 | 172.25 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/8/2008 | 7.79 | 171.76 | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 6/27/1996 | 17.03 | 163.51 | -- | 720 | 2 | 0.5 | 2.5 | 23 | 3.2 | |
| 180.54 | 12/10/1996 | 8.50 | 172.04 | -- | 80 | 2.4 | ND<0.5 | ND<0.5 | 6.6 | ND<2.0 | |

TABLE 2

GROUNDWATER ELEVATION AND ANALYTICAL DATA
GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

| Well ID | Date | TOC Depth to | Groundwater | | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Notes |
|------------------|------------|--------------|------------------|---------------------------|-------|---------|---------|--------------|---------|--------|-------|
| | | TOC (ft*) | Groundwater (ft) | Elevation (ft msl**) (ft) | | | | | | | |
| MW-4 cont'd | 5/8/1998 | 11.46 | 169.08 | -- | ND<50 | 0.60 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 8/17/1998 | 13.98 | 166.56 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | 0.5 | ND<5.0 | |
| | 11/4/1998 | 14.36 | 166.18 | -- | 96 | 9.7 | 8.1 | 4.8 | 18 | ND<5.0 | a |
| | 2/17/1999 | 8.39 | 172.15 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | 0.5 | ND<5.0 | |
| | 5/27/1999 | 12.80 | 167.74 | -- | ND<50 | ND<0.5 | 1.0 | ND<0.5 | 2.9 | ND<5.0 | |
| | 8/19/1999 | 14.42 | 166.12 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| 180.12 | 11/23/1999 | 14.63 | 165.49 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 2/17/2000 | 8.15 | 171.97 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 5/9/2000 | 12.81 | 167.31 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 8/15/2000 | 14.29 | 165.83 | -- | ND<50 | 2.1 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 12/1/2000 | 12.80 | 167.32 | -- | 81 | 6.0 | 8.4 | 1.0 | 5.6 | ND<5.0 | a |
| | 2/8/2001 | 12.57 | 167.55 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 4/9/2001 | 12.50 | 167.62 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 8/6/2001 | 14.00 | 166.12 | -- | 59 | 1.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | a |
| | 10/22/2001 | 14.05 | 166.07 | -- | 130 | 6.3 | ND<0.5 | 0.88 | ND<0.5 | ND<5.0 | a |
| | 2/1/2002 | 13.47 | 166.65 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 4/19/2002 | 13.55 | 166.57 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 7/16/2002 | 14.05 | 166.07 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 10/3/2002 | 13.09 | 167.03 | -- | 77 | 2.1 | 0.51 | ND<0.5 | ND<0.5 | ND<5.0 | a |
| | 1/10/2003 | 12.04 | 168.08 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 20/15 | a |
| sampled annually | 4/21/2003 | 12.15 | 167.97 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/9/2003 | 12.90 | 167.22 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/7/2003 | 13.15 | 166.97 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/22/2004 | 12.09 | 168.03 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/2/2004 | 8.97 | 171.15 | -- | -- | -- | -- | -- | -- | -- | |
| | 12/29/2004 | 7.85 | 172.27 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/27/2005 | 8.28 | 171.84 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/6/2005 | 8.07 | 172.05 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/28/2005 | 10.83 | 169.29 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/14/2005 | 11.49 | 168.63 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/30/2006 | 8.04 | 172.08 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/11/2006 | 8.03 | 172.09 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/14/2006 | 10.72 | 169.40 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/13/2006 | 11.25 | 168.87 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/12/2007 | 8.89 | 171.23 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/20/2007 | 9.22 | 170.90 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/30/2007 | 11.29 | 168.83 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/24/2007 | 10.08 | 170.04 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/15/2008 | 8.26 | 171.86 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/17/2008 | 10.84 | 169.28 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/9/2008 | 10.08 | 170.04 | -- | -- | -- | -- | -- | -- | -- | |
| MW-5 | 6/27/1996 | 13.62 | 166.74 | 0.16 | -- | -- | -- | -- | -- | -- | |
| 180.23 | 12/10/1996 | 13.26 | 167.77 | 1.00 | -- | -- | -- | -- | -- | -- | |
| | 5/8/1998 | 13.15 | 167.11 | 0.04 | -- | -- | -- | -- | -- | -- | |
| | 8/17/1998 | 13.36 | 166.89 | 0.02 | -- | -- | -- | -- | -- | -- | |
| | 11/4/1998 | 13.52 | 166.73 | 0.02 | -- | -- | -- | -- | -- | -- | |
| | 2/17/1999 | 13.02 | 167.23 | 0.02 | -- | -- | -- | -- | -- | -- | |
| | 5/27/1999 | 13.80 | 166.71 | 0.35 | -- | -- | -- | -- | -- | -- | |

TABLE 2

**GROUNDWATER ELEVATION AND ANALYTICAL DATA
GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

| Well ID TOC (ft*) | Date | TOC Depth to Groundwater (ft) | Groundwater | | TPHg ← | Benzene | Toluene | Ethylbenzene (µg/L) | Xylenes | MTBE | Notes |
|----------------------|------------|-------------------------------------|-------------------------|----------------------------------|-----------|---------|---------|------------------------|---------|-----------------|-------|
| | | | Elevation (ft msl**) | SPH Thickness (ft) | | | | | | | |
| MW-5 cont'd | 8/19/1999 | 13.45 | 166.86 | 0.10 | -- | -- | -- | -- | -- | -- | -- |
| 180.09 | 11/23/1999 | 14.03 | 166.35 | 0.36 | -- | -- | -- | -- | -- | -- | -- |
| | 2/17/2000 | 13.28 | 167.02 | 0.26 | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/2000 | 13.55 | 166.77 | 0.29 | -- | -- | -- | -- | -- | -- | -- |
| | 8/15/2000 | 13.58 | 166.54 | 0.04 | -- | -- | -- | -- | -- | -- | -- |
| | 12/1/2000 | 8.00 | 172.09 | 0.00 | 54,000 | 240 | 1,700 | 870 | 1,000 | ND<300 | c,d |
| 180.04 | 2/8/2001 | 7.88 | 172.16 | Sheen ^{Lab} | 33,000 | 63 | 420 | 120 | 4,500 | ND<50 | a,b |
| | 4/9/2001 | 7.97 | 172.07 | 0.00 | -- | -- | -- | -- | -- | -- | -- |
| | 4/24/2001 | 7.00 | 173.04 | 0.00 | 3,200 | ND<1.0 | 11 | 7 | 260 | ND<5.0 | c,d |
| | 8/6/2001 | 8.17 | 171.87 | -- | 2,700 | 11 | 40 | 21 | 240 | ND<5.0 | a |
| | 10/22/2001 | 8.15 | 171.89 | Sheen ^{Lab} | 20,000 | 200 | 1,200 | 330 | 2,900 | ND<100 | a,b |
| | 2/1/2002 | 8.07 | 171.97 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 4/19/2002 | 8.51 | 171.53 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 7/16/2002 | 8.40 | 171.64 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | 1.7 | ND<5.0 | -- |
| | 10/3/2002 | 8.18 | 171.86 | -- | 15,000 | 94 | 830 | 460 | 2,200 | ND<500 | a |
| | 1/10/2003 | 6.95 | 173.09 | -- | 290 | ND<0.5 | 1.8 | ND<0.5 | 17 | ND<5.0 | a |
| | 4/21/2003 | 7.18 | 172.86 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 7/9/2003 | 7.95 | 172.09 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | 2.7 | ND<5.0 | -- |
| | 10/7/2003 | 8.22 | 171.82 | -- | 9,800 | 120 | 340 | 180 | 2,000 | ND<50 | a |
| | 1/22/2004 | 7.18 | 172.86 | -- | 250 | ND<0.5 | 0.82 | ND<0.5 | 29 | ND<5.0 | d |
| | 4/2/2004 | 6.23 | 173.81 | -- | 4,300 | 6.3 | 18 | 59 | 750 | ND<25 | a |
| | 12/29/2004 | 5.27 | 174.77 | -- | 72 | ND<0.5 | 0.78 | ND<0.5 | 6.5 | ND<5.0 | d |
| | 1/27/2005 | 6.25 | 173.79 | -- | 3,300 | <5.0 | 22 | 18 | 320 | <50 | a |
| | 4/6/2005 | 5.90 | 174.14 | Sheen ^{Field} | 3,100 | 1.3 | 6.9 | 7.2 | 100 | ND<10 | c,d |
| | 7/28/2005 | 6.50 | 173.54 | -- | 18,000 | 53 | 230 | 130 | 2,100 | ND<500 | a |
| | 10/14/2005 | 6.65 | 173.39 | Sheen ^{Field & Lab} | 23,000 | 140 | 370 | 240 | 2,100 | ND<500 | a, b |
| | 1/30/2006 | 5.96 | 174.08 | Sheen ^{Field & Lab} | 2,500 | 1.0 | 8.7 | ND<1.0 | 130 | ND<10 | b,c,d |
| | 4/11/2006 | 5.63 | 174.41 | Sheen ^{Field} | 1,200 | 1.3 | 3.1 | 1.7 | 54 | ND<5.0 | a |
| | 7/14/2006 | 6.65 | 173.39 | Sheen ^{Field & Lab} | 13,000 | 27 | 66 | 30 | 480 | ND<50 | a,b |
| | 10/13/2006 | 6.60 | 173.44 | Sheen ^{Field & Lab} | 23,000 | 170 | 390 | 260 | 2,500 | ND<250 | a,b |
| | 1/12/2007 | 6.50 | 173.54 | Sheen ^{Field & Lab} | 17,000 | 72 | 130 | 70 | 1,600 | ND<250 | a,b,i |
| | 4/20/2007 | 6.22 | 173.82 | Sheen ^{Field & Lab} | 10,000 | 55 | 120 | 37 | 620 | ND<50 | a,b |
| | 7/30/2007 | 6.95 | 173.09 | Sheen ^{Field} | 41,000 | 120 | 580 | 270 | 3,100 | ND<250 | a |
| | 10/24/2007 | 7.27 | 172.77 | Sheen ^{Field & Lab} | 31,000 | 210 | 440 | 300 | 2,500 | ND<200 (ND<5.0) | a,b,j |
| | 1/15/2008 | 6.89 | 173.15 | Sheen ^{Field & Lab} | 14,000 | 87 | 120 | 39 | 1,400 | ND<100 | a,b |
| | 4/17/2008 | 7.80 | 172.24 | Sheen ^{Field & Lab} | 21,000 | 35 | 150 | 71 | 1,100 | ND<80 | a,b |
| | 7/9/2008 | 8.24 | 171.80 | Sheen ^{Field & Lab} | 30,000 | 130 | 600 | 290 | 4,000 | ND<180 | a,b |
| MW-6 | 6/27/1996 | 18.55 | 161.48 | -- | ND | ND | ND | ND | ND | -- | -- |
| 180.03 | 12/10/1996 | 11.79 | 168.24 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | -- |
| | 5/8/1998 | 11.62 | 168.41 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 8/17/1998 | 12.66 | 167.37 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 11/4/1998 | 13.56 | 166.47 | -- | 68 | 3.8 | 3.7 | 2.8 | 11 | ND<5.0 | a |
| | 2/17/1999 | 12.91 | 167.12 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 5/27/1999 | 13.03 | 167.00 | -- | ND<50 | 1.0 | 1.7 | 0.82 | 4.9 | ND<5.0 | -- |
| | 8/19/1999 | 13.10 | 166.93 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| 179.63 | 11/23/1999 | 13.58 | 166.05 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 2/17/2000 | 10.72 | 168.91 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 5/9/2000 | 11.71 | 167.92 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | 8/15/2000 | 12.49 | 167.14 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |

TABLE 2

**GROUNDWATER ELEVATION AND ANALYTICAL DATA
GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA**

| Well ID TOC (ft*) | Date | TOC Depth to Groundwater (ft) | Groundwater | | TPHg | Benzene | Toluene | Ethylbenzene ($\mu\text{g/L}$) | Xylenes | MTBE | Notes |
|----------------------|------------|-------------------------------------|-------------------------|-----------------------|-------|---------|---------|-------------------------------------|---------|---------|-------|
| | | | Elevation (ft msl**) | SPH Thickness (ft) | | | | | | | |
| MW-6 cont'd | 12/1/2000 | 8.64 | 170.99 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 2/8/2001 | 8.20 | 171.43 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 4/9/2001 | 8.53 | 171.10 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 8/6/2001 | 8.69 | 170.94 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 10/22/2001 | 8.75 | 170.88 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 2/1/2002 | 8.31 | 171.32 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 4/19/2002 | 8.62 | 171.01 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 7/16/2002 | 8.84 | 170.79 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 10/3/2002 | 8.71 | 170.92 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/10/2003 | 6.99 | 172.64 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 19 (16) | |
| sampled annually | 4/21/2003 | 7.15 | 172.48 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/9/2003 | 7.98 | 171.65 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/7/2003 | 8.28 | 171.35 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/22/2004 | 7.15 | 172.48 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/2/2004 | 6.56 | 173.07 | -- | -- | -- | -- | -- | -- | -- | |
| | 12/29/2004 | 5.63 | 174.00 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/27/2005 | 6.66 | 172.97 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/6/2005 | 6.25 | 173.38 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/28/2005 | 6.71 | 172.92 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/14/2005 | 6.86 | 172.77 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/30/2006 | 6.35 | 173.28 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/11/2006 | 5.89 | 173.74 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/14/2006 | 6.80 | 172.83 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/13/2006 | 6.75 | 172.88 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/12/2007 | 6.61 | 173.02 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/20/2007 | 6.45 | 173.18 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/30/2007 | 6.98 | 172.65 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/24/2007 | 7.30 | 172.33 | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 1/15/2008 | 6.93 | 172.70 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/17/2008 | 7.78 | 171.85 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/9/2008 | 8.22 | 171.41 | -- | -- | -- | -- | -- | -- | -- | |
| Trip Blank | 5/8/1998 | -- | -- | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 11/4/1998 | -- | -- | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 5/27/1999 | -- | -- | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 11/23/1999 | -- | -- | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |
| | 12/1/2000 | -- | -- | -- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | |

TABLE 2

GROUNDWATER ELEVATION AND ANALYTICAL DATA
GATZKE/HOOSHI'S AUTO SERVICE
1499 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

| Well ID | Date | TOC Depth to Groundwater | Groundwater Elevation | SPH Thickness | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Notes |
|-----------|------|-----------------------------|--------------------------|---------------|------|---------|---------|--------------|---------|------|-------|
| TOC (ft*) | | (ft) | (ft msl**) | (ft) | | | | (μ g/L) | | | |

Abbreviations and Methods:

TOC = Top of casing elevation

ft = Measured in feet

ft msl = elevation in feet 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 SW8021B

MTBE = Methyl tertiary butyl ether by EPA Method SW8021B or SW8260B in parenthesis.

 μ g/L = Micrograms per liter

-- = Not sampled, not analyzed, not applicable, or no SPH measured or observed.

ND<0.5 = Not Detected (ND) above Detection Limit.

x.x/y.y = Result of EPA Method SW8021B / Result of EPA Method SW8260B

TOC Depth to Groundwater = Groundwater depth measured in feet below TOC

Sheen = A sheen was observed on the water's surface.

Field = Observed in the field

Lab = Observed in analytical laboratory

* = 2006 grab groundwater samples collected from 20 ft bgs.

** = Calculated groundwater elevation corrected for SPH by the relation: Groundwater Elevation = Well Elevation - Depth to Water + (0.8xSPH thickness (ft))

*** = Due to the air sparge system running during sampling, samples collected on 4/9/01 were anomalous. Well was resampled on 4/24/01 with the air sparge system off.

Analytical Laboratory Notes:

a - Unmodified or weakly modified gasoline is significant.

b - Lighter than water immiscible sheen is present.

c - No recognizable pattern on laboratory chromatogram.

d - Heavier gasoline range compounds are significant (aged gasoline?).

f - One to a few isolated non-target peaks present on laboratory chromatogram.

i - Liquid sample contains greater than ~1 vol. % sediment

j - Sample diluted due to high organic content.

APPENDIX A

GROUNDWATER MONITORING FIELD DATA SHEETS



MUSKAN
ENVIRONMENTAL
SAMPLING

WELL GAUGING SHEET

| Client: Conestoga-Rovers and Associates | | | | | | |
|--|------|--------------|---|---------------|-----------------|----------|
| Site | | | | | | |
| Address: 1499 MacArthur Boulevard, Oakland, CA | | | | | | |
| Date: 7/9/2008 | | | Signature:  | | | |
| Well ID | Time | Depth to SPH | Depth to Water | SPH Thickness | Depth to Bottom | Comments |
| MW-1 | 9:15 | | 9.09 | | 20.05 | |
| MW-2 | 9:25 | | 8.39 | | 19.90 | |
| MW-3 | 9:10 | | 7.79 | | 19.95 | |
| MW-4 | 9:00 | | 10.08 | | 19.95 | |
| MW-5 | 9:20 | | 8.24 | | 14.70 | |
| MW-6 | 9:05 | | 8.22 | | 20.08 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM



MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

| Date: | 7/9/2008 | | | | | | | |
|-------------------------|---------------------------------------|----------------|---|--------------|----------------------|------------------|------|------------|
| Client: | Conestoga-Rovers and Associates | | | | | | | |
| Site Address: | 1499 MacArthur Boulevard, Oakland, CA | | | | | | | |
| Well ID: | MW-2 | | | | | | | |
| Well Diameter: | 2" | | | | | | | |
| Purging Device: | Disposable Bailer | | | | | | | |
| Sampling Method: | Disposable Bailer | | | | | | | |
| Total Well Depth: | 19.90 | | Fe= | mg/L | | | | |
| Depth to Water: | 8.39 | | ORP= | mV | | | | |
| Water Column Height: | 11.51 | | DO= | mg/L | | | | |
| Gallons/ft: | 0.16 | | COMMENTS: very turbid, silty, heavy sheen | | | | | |
| 1 Casing Volume (gal): | 1.84 | | | | | | | |
| 3 Casing Volumes (gal): | 5.52 | | | | | | | |
| TIME: | CASING VOLUME (gal) | TEMP (Celsius) | | | | | pH | COND. (µS) |
| 10:30 | 1.8 | 19.1 | | | | | 6.79 | 660 |
| 10:35 | 3.7 | 19.0 | 6.81 | 665 | | | | |
| 10:40 | 5.5 | 18.8 | 6.81 | 677 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Sample ID: | Sample Date: | Sample Time: | Container Type | Preservative | Analytes | Method | | |
| MW-2 | 7/9/2008 | 10:45 | 40 ml VOA | HCl, ICE | TPHg BTEX MTBE | 8015, 8021, 8260 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

| Date: | 7/9/2008 | | | | | |
|-------------------------|---------------------------------------|-------------------|--|---------------------|----------------------|------------------|
| Client: | Conestoga-Rovers and Associates | | | | | |
| Site Address: | 1499 MacArthur Boulevard, Oakland, CA | | | | | |
| Well ID: | MW-5 | | | | | |
| Well Diameter: | 2" | | | | | |
| Purging Device: | Disposable Bailer | | | | | |
| Sampling Method: | Disposable Bailer | | | | | |
| Total Well Depth: | 14.70 | | Fe= | mg/L | | |
| Depth to Water: | 8.24 | | ORP= | mV | | |
| Water Column Height: | 6.46 | | DO= | mg/L | | |
| Gallons/ft: | 0.16 | | | | | |
| 1 Casing Volume (gal): | 1.03 | | COMMENTS: very turbid, silty, light sheen | | | |
| 3 Casing Volumes (gal): | 3.10 | | | | | |
| TIME: | CASING VOLUME (gal) | TEMP (Celsius) | pH | COND. (μ S) | | |
| 10:05 | 1.0 | 20.9 | 7.05 | 533 | | |
| 10:10 | 2.1 | 20.2 | 6.96 | 536 | | |
| 10:15 | 3.1 | 20.2 | 6.96 | 548 | | |
| | | | | | | |
| | | | | | | |
| Sample ID: | Sample Date: | Sample Time: | Container Type | Preservative | Analytes | Method |
| MW-5 | 7/9/2008 | 10:20 | 40 ml VOA | HCl, ICE | TPHg BTEX MTBE | 8015, 8021, 8260 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

APPENDIX B

LABORATORY ANALYTICAL REPORT



McCampbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|--------------------------------------|--------------------------|
| Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608 | Client Project ID: #120741; Hooshi's | Date Sampled: 07/09/08 |
| | | Date Received: 07/10/08 |
| | Client Contact: Mark Jonas | Date Reported: 07/17/08 |
| | Client P.O.: | Date Completed: 07/15/08 |

WorkOrder: 0807266

July 17, 2008

Dear Mark:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: #120741; Hooshi's,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

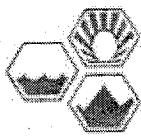
All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com **Email:** main@mccampbell.com
Telephone: (877) 252-9262 **Fax:** (925) 252-9261

Fax: (925) 252-9169

0807266

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

□ □ □ □ □

RUSH 24 HR 48 HR 72 HR 5 DAY

PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Check if sample is effluent and "J" flag is required

Report To: Mark Jones
Bill To: Chesapeake Environmental Services
Company: Chesapeake Environmental Services
900 Hollis St., Ste A
Emeryville, CA
Tele: (510) 420-3307
Project #: 120741
Project Location: 1409 McArthur Blvd, Oakland, CA
Sampler Signature: Muska Environmental Sampling

| SAMPLE ID | LOCATION/ Field Point Name | SAMPLING | | # Containers | Type Containers | MATRIX | METHOD PRESERVED | TESTS |
|-----------|----------------------------------|----------|-------|--------------|-----------------|-------------------------------|---------------------|-------|
| | | Date | Time | | | | | |
| MN-1 | | 7-9-08 | 9:55 | 4 | Vials | Water | | |
| MN-2 | | | 10:15 | 1 | X | Soil | | |
| MN-3 | | | 10:20 | 1 | X | Air | | |
| MN-5 | | X | | 1 | X | Sludge | | |
| | | | | | X | Other | | |
| | | | | | X | ICE | | |
| | | | | | X | HCL | | |
| | | | | | X | HNO ₃ | | |
| | | | | | X | Other | | |
| | | | | | X | BTEX & TPH in Gas (6) | | |
| | | | | | X | TPH as Diesel (3B15) | | |
| | | | | | X | Total Petroleum Oil & Grease | | |
| | | | | | X | Total Petroleum Hydrocarbons | | |
| | | | | | X | EPA 502.2 / 601 / 8000 / 6000 | | |
| | | | | | X | MTBE / ETEN ONLY | | |
| | | | | | X | EPA 505 / 608 / 8001 (CP) | | |
| | | | | | X | EPA 608 / 8002 PCB's | | |
| | | | | | X | EPA 507 / 841 / 858 / 860 | | |
| | | | | | X | EPA 515 / 8531 Acetone | | |
| | | | | | X | EPA 524.2 / 624 / 8260 | | |
| | | | | | X | EPA 525.2 / 625 / 8270 | | |
| | | | | | X | EPA 8270 SEM / 8310 | | |
| | | | | | X | CAM 17 Metals (2007) | | |
| | | | | | X | LHFT 5 Metals (2007) | | |
| | | | | | X | Lent (2007) 200.8 / 600 | | |
| | | | | | X | Confidence % 110 | | |

Martinus Nijhoff Publishing

Date: Time:

7/1/18 4:36 PM

Received By: *LeVelle*

ICE/5°C
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ✓
APPROPRIATE CONTAINERS ✓
SUSPENDED IN LAB ✓

COMMENTS:

Kritik und Praxis

Date: Time:

10. The following table shows the number of hours worked by each employee.

Received By:

Relinquished By:

Date: Time:

10. The following table gives the number of hours per week spent by students in various activities.

Received By:

VOAS O&G METALS OTHER
PRESERVATION pH<2

McCAMPBELL ANALYTICAL, INC.


1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0807266

ClientCode: CETE

 WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag
Report to:

Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com
cc:
PO:
ProjectNo: #120741; Hoash's

Bill to:

Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days**Date Received:** 07/10/2008**Date Printed:** 07/10/2008

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 0807266-001 | MW-1 | Water | 7/9/2008 9:55 | <input type="checkbox"/> | A | B | A | | | | | | | | | |
| 0807266-002 | MW-2 | Water | 7/9/2008 10:45 | <input type="checkbox"/> | A | B | | | | | | | | | | |
| 0807266-003 | MW-5 | Water | 7/9/2008 10:20 | <input type="checkbox"/> | A | B | | | | | | | | | | |

Test Legend:

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

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

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

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

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

Prepared by: Samantha Arbuckle**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.



McCampbell Analytical, Inc.

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **7/10/08 6:32:46 PM**

Project Name: **#120741; Hoash's**

Checklist completed and reviewed by: **Samantha Arbuckle**

WorkOrder N°: **0807266** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

- | | | |
|---|---|-----------------------------|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

Sample Receipt Information

- | | | | |
|--|---|-----------------------------|-----------------------------|
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

- | | | | |
|---|---|-----------------------------|---|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature | Cooler Temp: | 6.7°C | NA <input type="checkbox"/> |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Sample labels checked for correct preservation? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| TTLC Metal - pH acceptable upon receipt (pH<2)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



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| | | |
|--|--------------------------------------|-----------------------------------|
| Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608 | Client Project ID: #120741; Hooshi's | Date Sampled: 07/09/08 |
| | | Date Received: 07/10/08 |
| | Client Contact: Mark Jonas | Date Extracted: 07/13/08-07/15/08 |
| | Client P.O.: | Date Analyzed 07/13/08-07/15/08 |

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0807266

| | | | | | | | | |
|--|---|-----|------|-------|-------|-------|-------|-------|
| Reporting Limit for DF =1; ND means not detected at or | W | 50 | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | µg/L |
| | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 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 µg/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:

- b6) lighter than water immiscible sheen/product is present
- d1) weakly modified or unmodified gasoline is significant
- d9) no recognizable pattern



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 Web: www.mccampbell.com E-mail: main@mccampbell.com
 Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0807266

| EPA Method SW8021B/8015Cm | | Extraction SW5030B | | BatchID: 36872 | | | | Spiked Sample ID: 0807260-001A | | | | |
|---------------------------|--------|--------------------|--------|----------------|--------|--------|--------|--------------------------------|-------------------------|-----|----------|-----|
| 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 | RPD | LCS/LCSD | RPD |
| TPH(btex) ^f | ND | 60 | 97.1 | 82.9 | 15.8 | 92.3 | 91.7 | 0.653 | 70 - 130 | 20 | 70 - 130 | 20 |
| MTBE | ND | 10 | 92.9 | 94.4 | 1.51 | 79.5 | 93.7 | 16.3 | 70 - 130 | 20 | 70 - 130 | 20 |
| Benzene | ND | 10 | 83.6 | 77.5 | 7.27 | 81.7 | 85.6 | 4.73 | 70 - 130 | 20 | 70 - 130 | 20 |
| Toluene | ND | 10 | 79.3 | 75.6 | 4.80 | 81.4 | 83.7 | 2.76 | 70 - 130 | 20 | 70 - 130 | 20 |
| Ethylbenzene | ND | 10 | 88.5 | 82.8 | 6.72 | 81.7 | 84.3 | 3.07 | 70 - 130 | 20 | 70 - 130 | 20 |
| Xylenes | ND | 30 | 85.3 | 80.2 | 6.15 | 75.6 | 80 | 5.66 | 70 - 130 | 20 | 70 - 130 | 20 |
| %SS: | 92 | 10 | 98 | 96 | 1.88 | 105 | 99 | 5.45 | 70 - 130 | 20 | 70 - 130 | 20 |

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

BATCH 36872 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0807266-001A | 07/09/08 9:55 AM | 07/15/08 | 07/15/08 6:51 PM | 0807266-002A | 07/09/08 10:45 AM | 07/13/08 | 07/13/08 4:09 AM |
| 0807266-003A | 07/09/08 10:20 AM | 07/13/08 | 07/13/08 4:41 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.

^f TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

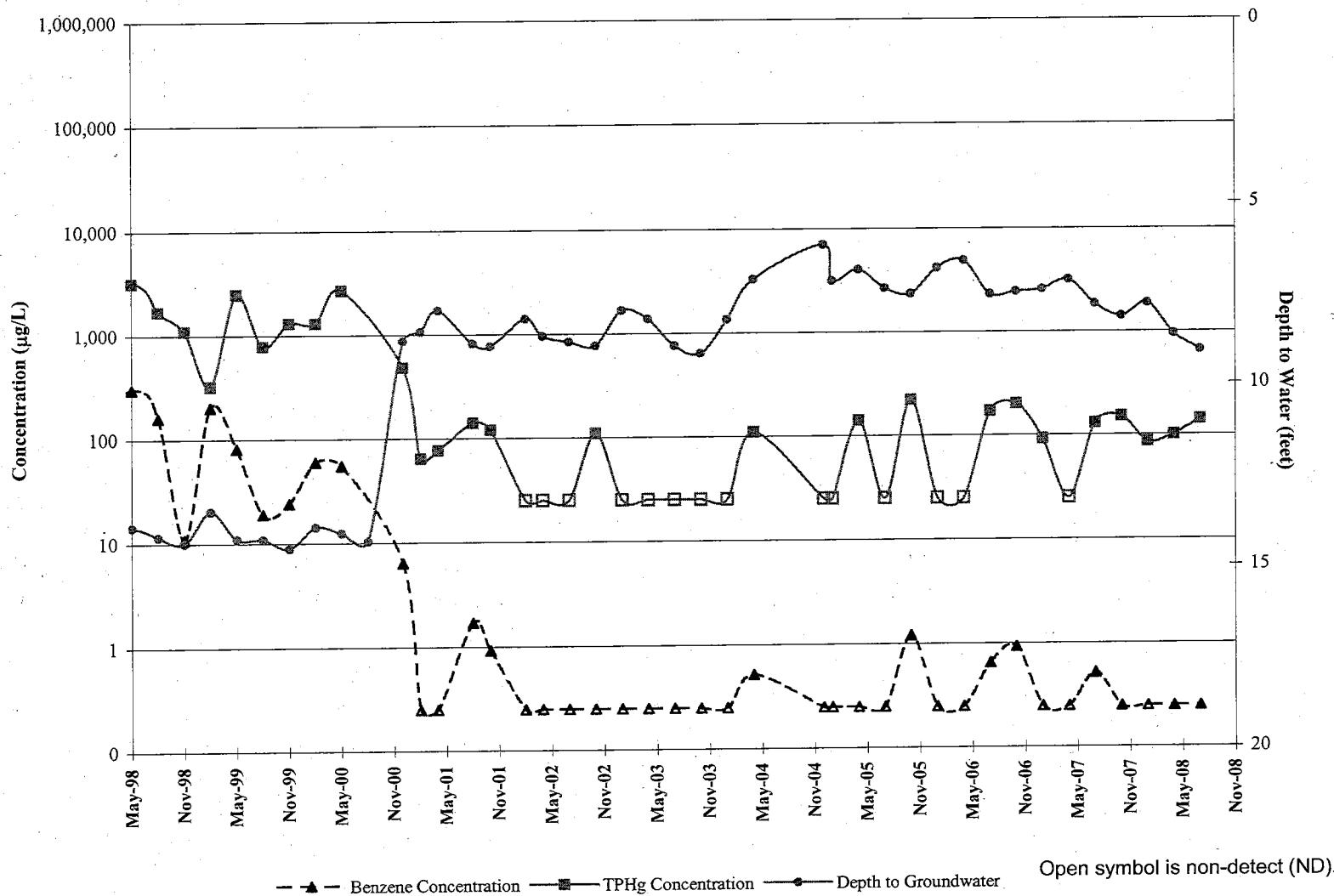
N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.

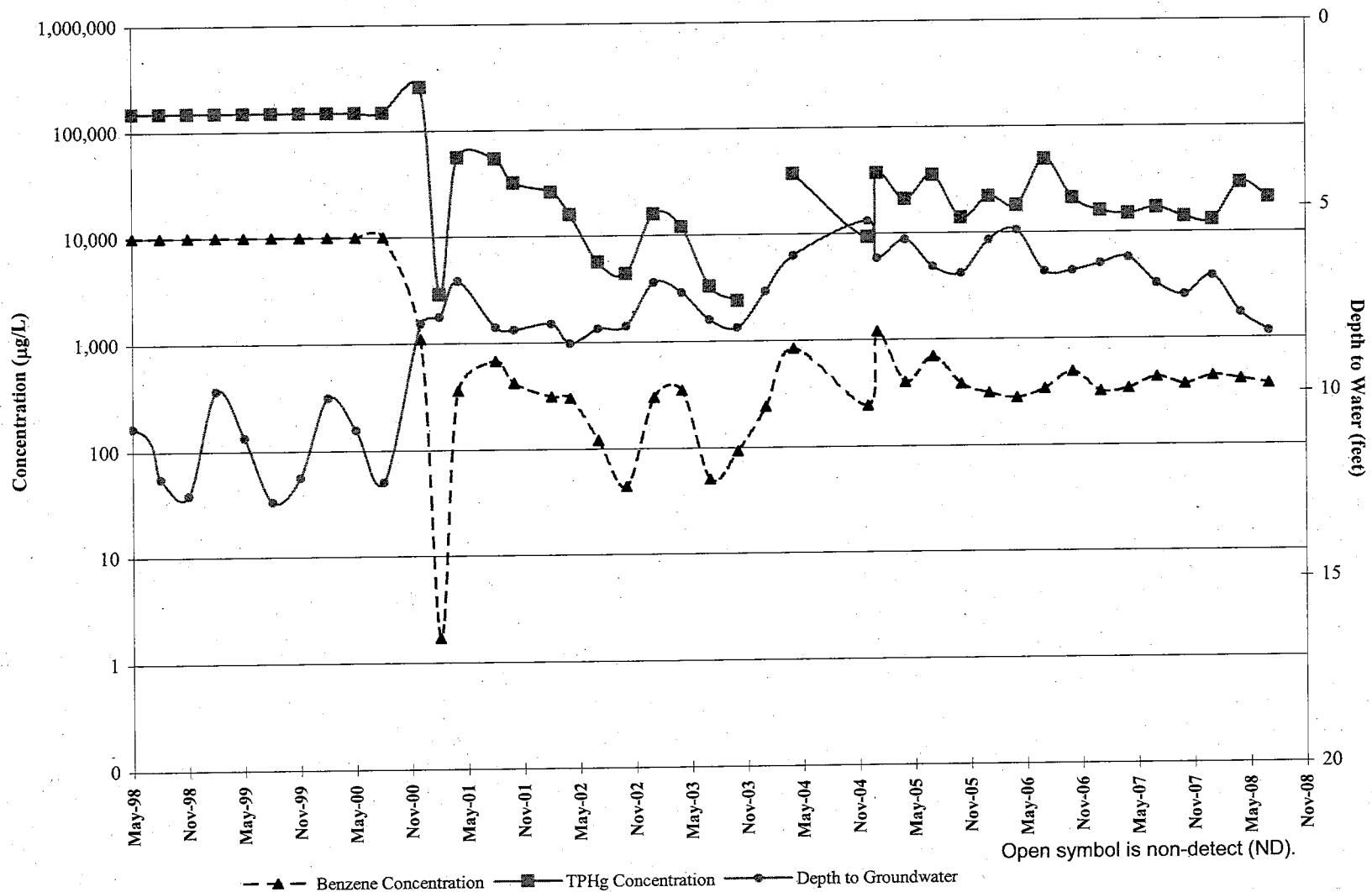
APPENDIX C

TPH_g AND BENZENE CONCENTRATION TREND GRAPHS

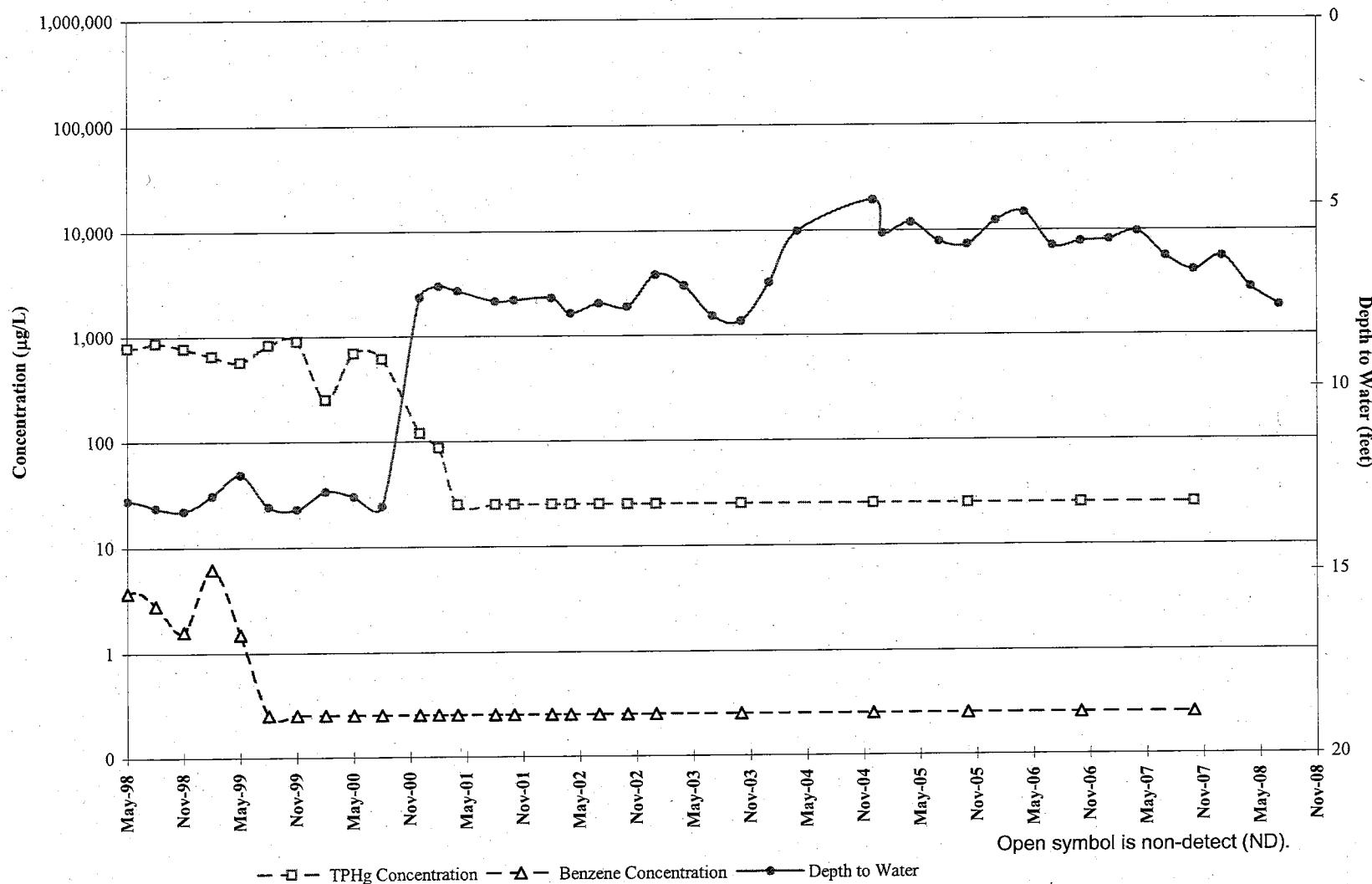
Monitoring Well MW-1
TPHg and Benzene Concentration Trend
Hooshi's Auto Service, 1499 MacArthur Boulevard, Oakland, CA



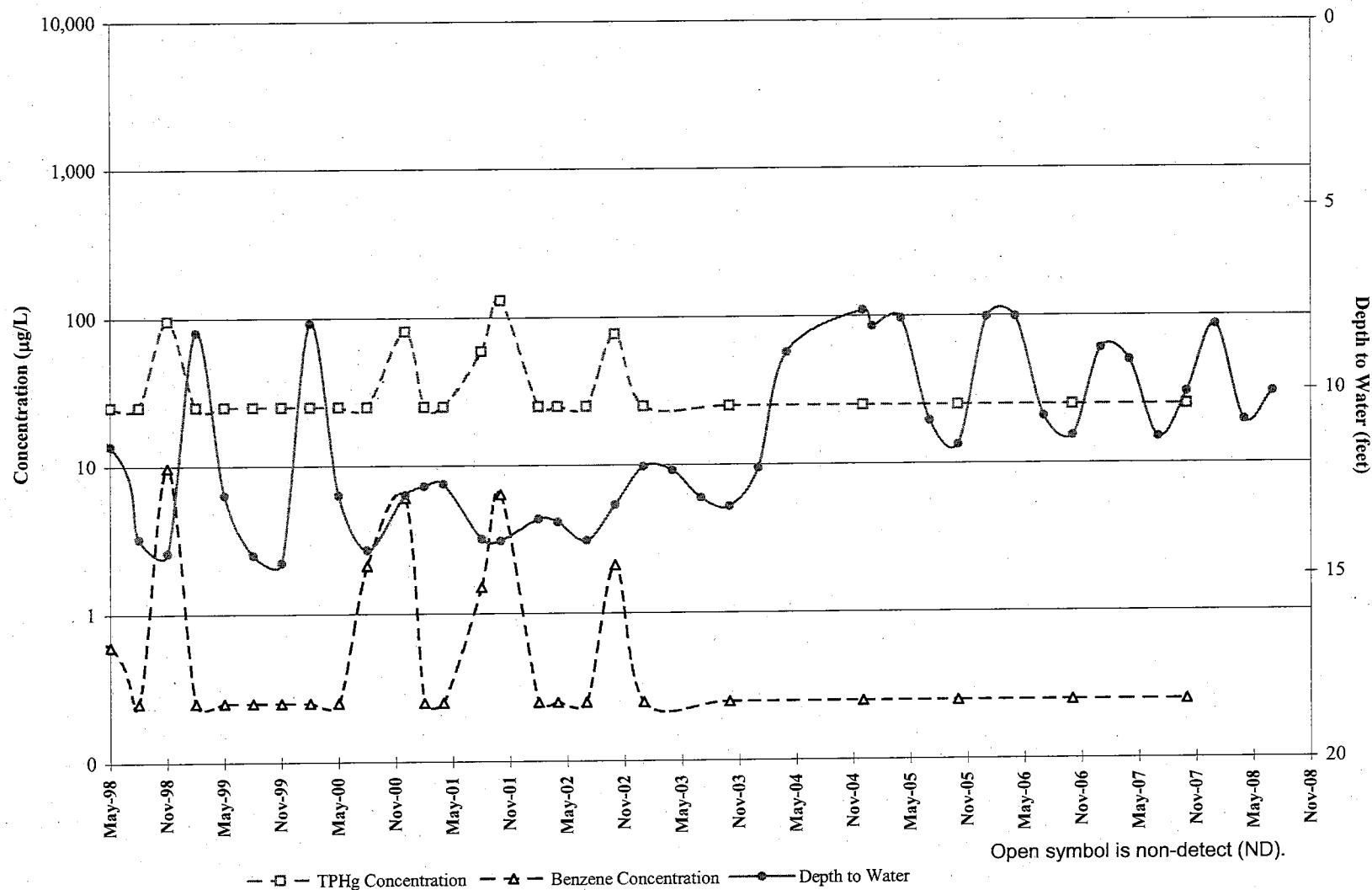
Monitoring Well MW-2
TPHg and Benzene Concentration Trend
Hooshi's Auto Service, 1499 MacArthur Boulevard, Oakland, CA



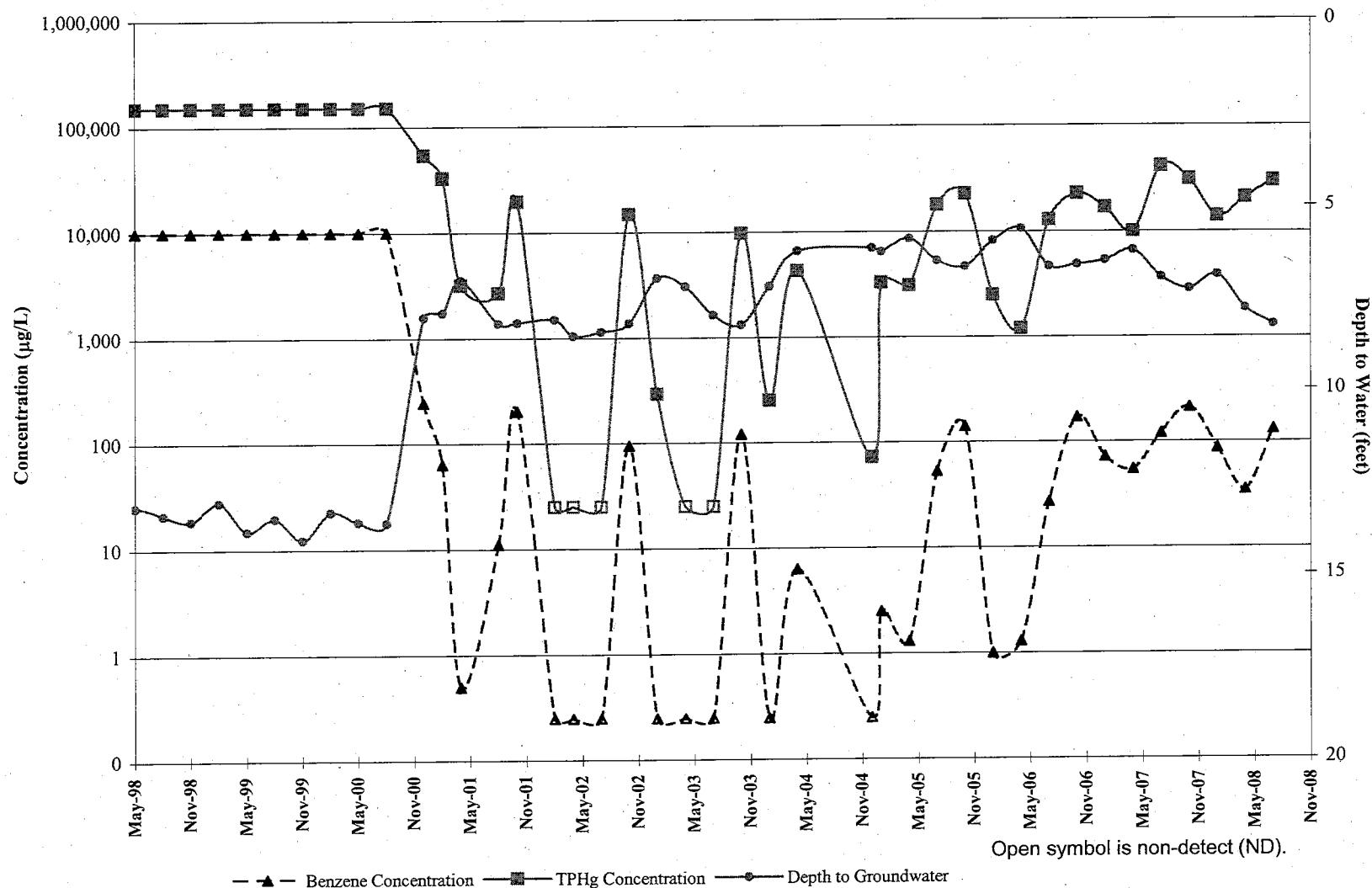
Monitoring Well MW-3
TPHg and Benzene Concentration Trend
Hooshi's Auto Service, 1499 MacArthur Boulevard, Oakland, CA



Monitoring Well MW-4
TPHg and Benzene Concentration Trend
Hooshi's Auto Service, 1499 MacArthur Boulevard, Oakland, CA



Monitoring Well MW-5
TPHg and Benzene Concentration Trend
Hooshi's Auto Service, 1499 MacArthur Boulevard, Oakland, CA



Monitoring Well MW-6
TPHg and Benzene Concentration Trend
Hooshi's Auto Service, 1499 MacArthur Boulevard, Oakland, CA

