CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

# TRANSMITTAL

**DATE:** April 13, 2011

**REFERENCE NO.:** 240734

**PROJECT NAME:** 285 Hegenberger Road, Oakland

**TO:** Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**RECEIVED**
11:24 am, Apr 19, 2011
Alameda County
Environmental Health

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| QUANTITY | DESCRIPTION |
|---|---|
| 1 | Groundwater Monitoring Report – First Quarter 2011 |
| | |
| | |

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

**COMMENTS:**
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US 9 (electronic copy)
Sam Anabi, CAR Enterprises, 1040 North Benson Avenue, Upland, CA 91786-2157
SF Data Room (electronic copy)

Completed by: Peter Schaefer Signed: Peter Schaefer

**Filing:** **Correspondence File**

**Denis L. Brown**
**Shell Oil Products US**
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Shell-branded Service Station
285 Hegenberger Road
Oakland, California
SAP Code 135691
Incident No. 98995749
ACEH Case No. RO0000220

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Senior Program Manager

# GROUNDWATER MONITORING REPORT - FIRST QUARTER 2011

## SHELL-BRANDED SERVICE STATION
## 285 HEGENBERGER ROAD
## OAKLAND, CALIFORNIA

| | |
|---|---|
| SAP CODE | 135691 |
| INCIDENT NO. | 98995749 |
| AGENCY NO. | RO0000220 |

**Prepared by:**
**Conestoga-Rovers & Associates**

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APRIL 13, 2011
REF. NO. 240734 (6)
This report is printed on recycled paper.

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# 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

## 1.1 SITE INFORMATION

| | |
|---|---|
| Site Address | 285 Hegenberger Road, Oakland |
| Site Use | Shell-branded Service Station |
| Shell Project Manager | Denis Brown |
| CRA Project Manager | Peter Schaefer |
| Lead Agency and Contact | ACEH, Jerry Wickham |
| Agency Case No. | RO0000220 |
| Shell SAP Code | 135691 |
| Shell Incident No. | 98995749 |

Date of most recent agency correspondence was May 25, 2010 (electronic correspondence).

# 2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

## 2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2), and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory report is presented in Appendix B.

On August 25, 2010, CRA submitted a *Feasibility Study and Corrective Action Plan* as requested in Alameda County Environmental Health's (ACEH's) March 4, 2010 letter. ACEH's May 25, 2010 electronic correspondence granted an extension of the May 25, 2010 due date for the feasibility study specified in their March 4, 2010 letter to August 25, 2010.

## 2.2 CURRENT QUARTER'S FINDINGS

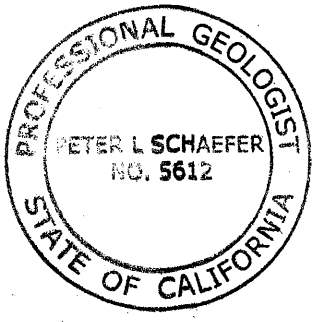
| | |
|---|---|
| Groundwater Flow Direction | Variable |
| Hydraulic Gradient | Variable |
| Depth to Water | 2.65 to 7.03 feet below top of well casing |

## 2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the established monitoring program for this site. This site will be monitored annually during the first quarter, and CRA will issue a groundwater monitoring report annually following the sampling event.

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

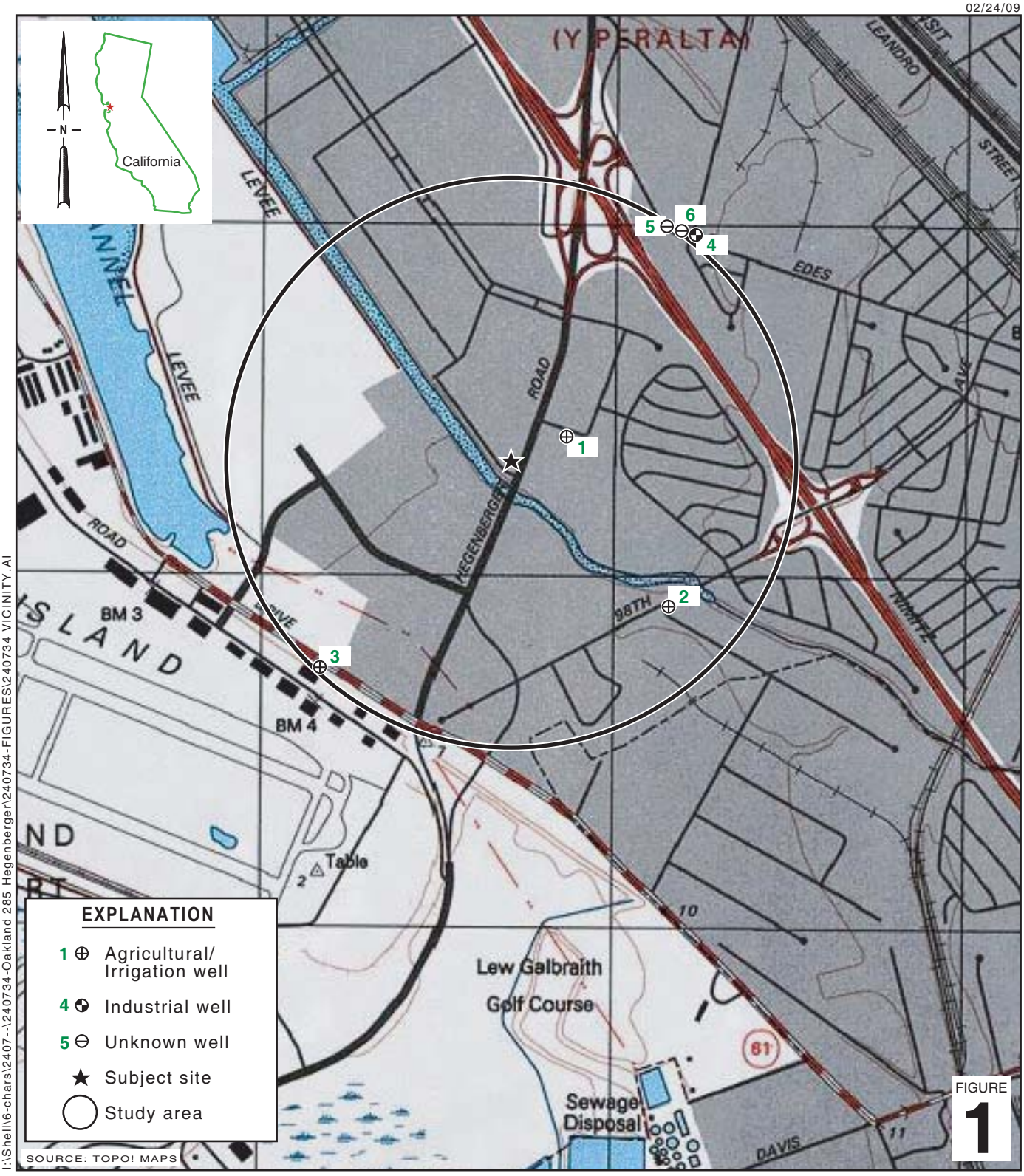
Peter Schaefer, CHG, CEG




for
Aubrey K. Cool, PG

# FIGURES

02/24/09




I:\Shell\6-chars\2407--\240734-Oakland 285 Hegenberger\240734-FIGURES\240734 VICINITY.AI

FIGURE 1

0 1/8 1/4 1/2 1

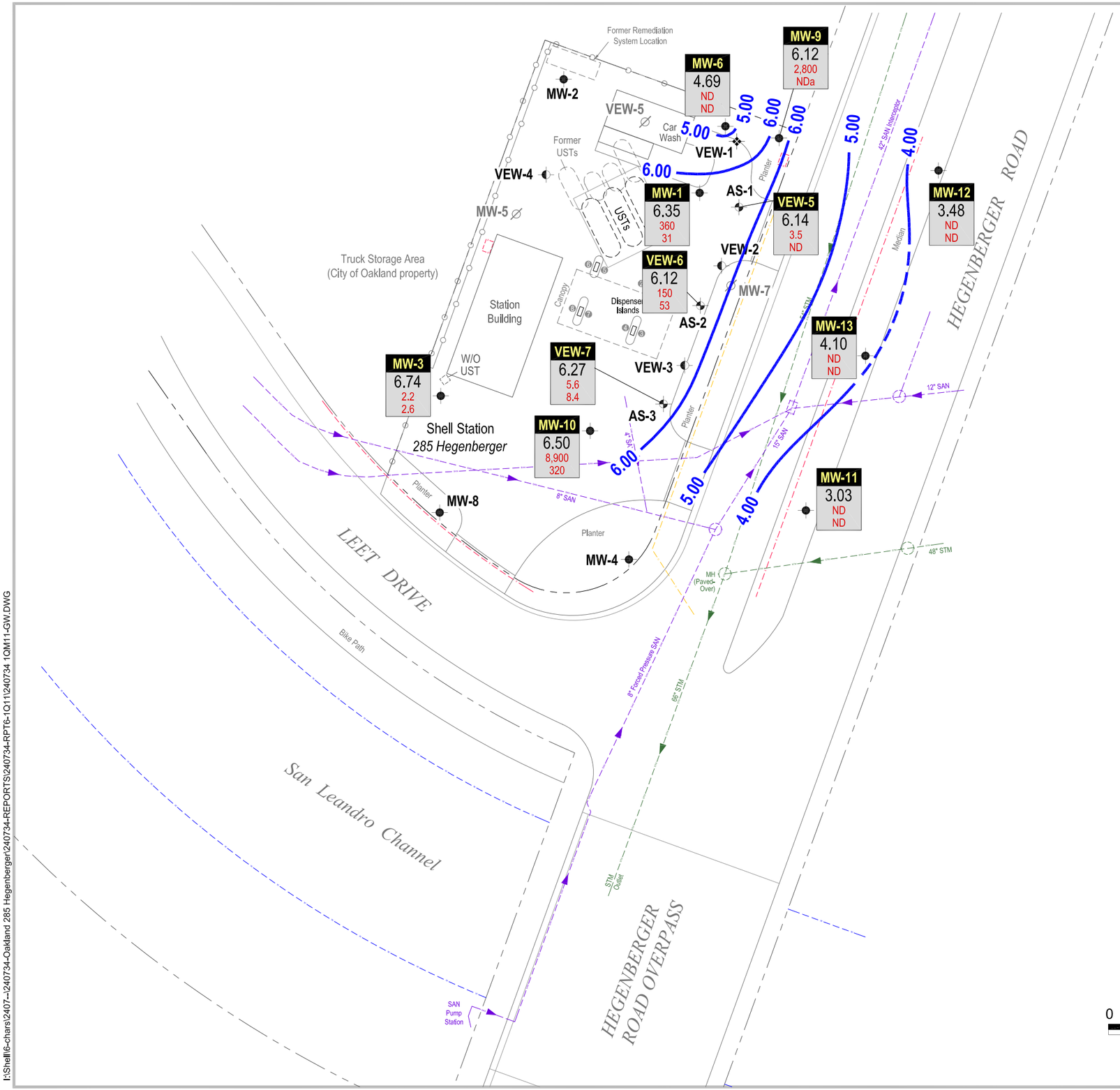
SCALE : 1" = 1/4 MILE

**Shell-branded Service Station**
285 Hegenberger Road
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

**Vicinity Map**

04/01/2011




## EXPLANATION

| | |
|---|---|
| VEW-5/ AS-1 | Co-axial vapor and sparge well; air-sparge well not monitored or sampled |
| MW-1 | Groundwater monitoring well location |
| VEW-1 | Soil vapor extraction well |
| VEW-2 | Dual completion air sparging/soil vapor extraction well |
| VEW-5 | Abandoned well location |
| 1 | Product dispenser number |
| | Electrical line (E) |
| | Gas line (G) |
| | Storm drain line (STM) |
| | Sanitary sewer line (SAN) |
| | Manhole (MH) |
| | Utility vault |
| XX.XX | Groundwater elevation contour, in feet above mean sea level (msl); dashed where inferred |

Well
ELEV.
Benzene
MTBE

- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in micrograms per liter

**Notes:**
**ND =** Not detected
**NDa =** Elevated reporting limit, see laboratory report for details

N

0 25 50 100
Scale (ft)

FIGURE
**2**

**Groundwater Contour and Chemical Concentration Map**

January 18, 2011

CONESTOGA-ROVERS & ASSOCIATES

**Shell-branded Service Station**
285 Hegenberger Road
Oakland, California

I:\Shell\6-chars\2407--\240734-Oakland 285 Hegenberger\240734-REPORTS\240734-RPT6-1Q11\240734 1QM11-GW.DWG

# TABLES

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 2/16/1989 | 99,000 | — | — | 20,000 | 23,000 | 5,700 | 2,300 | — | — | — | — | — | — | 6.64 | 3.83 | 2.81 | — |
| MW-1 | 5/23/1989 | 48,000 | 11,000 | — | 4,200 | 5,200 | 1,200 | 7,700 | — | — | — | — | — | — | 6.64 | 3.59 | 3.05 | — |
| MW-1 | 8/3/1989 | 63,000 | 11,000 | — | 5,500 | 5,500 | 3,200 | 9,500 | — | — | — | — | — | — | 6.64 | 4.04 | 2.60 | — |
| MW-1 | 12/15/1989 | 30,000 | 11,000 | — | ND | ND | ND | ND | — | — | — | — | — | — | 6.64 | 4.22 | 2.42 | — |
| MW-1 | 2/7/1990 | 93,000 | 10,000 | — | 13,000 | 9,600 | 2,400 | 14,000 | — | — | — | — | — | — | 6.64 | 4.60 | 2.04 | — |
| MW-1 | 4/18/1990 | 55,000 | 8,700 | — | 14,000 | 8,400 | 3,200 | 13,000 | — | — | — | — | — | — | 6.64 | 4.02 | 2.62 | — |
| MW-1 | 7/23/1990 | 73,000 | 3,600 | — | 16,000 | 7,400 | 2,800 | 15,000 | — | — | — | — | — | — | 6.64 | 4.17 | 2.47 | — |
| MW-1 | 9/27/1990 | 45,000 | 1,700 | — | 8,000 | 4,300 | 2,000 | 11,000 | — | — | — | — | — | — | 6.64 | 4.60 | 2.04 | — |
| MW-1 | 1/3/1991 | 43,000 | 3,100 | — | 10,000 | 3,400 | 1,900 | 11,000 | — | — | — | — | — | — | 6.64 | 4.88 | 1.76 | — |
| MW-1 | 4/10/1991 | 67,000 | 1,800 | — | 20,000 | 9,600 | 3,500 | 16,000 | — | — | — | — | — | — | 6.64 | 3.55 | 3.09 | — |
| MW-1 | 7/12/1991 | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.64 | 3.97 | 2.67 | — |
| MW-1 | 10/8/1991 | 55,000 | 7,400 | — | 18,000 | 3,500 | 2,300 | 8,600 | — | — | — | — | — | — | 6.64 | 4.26 | 2.38 | — |
| MW-1 | 2/6/1992 | 48,000 | 15,000 a | — | 12,000 | 2,800 | 1,900 | 7,400 | — | — | — | — | — | — | 6.64 | 4.94 | 1.70 | — |
| MW-1 | 5/4/1992 | 71,000 | 10,000 a | — | 16,000 | 6,000 | 3,100 | 14,000 | — | — | — | — | — | — | 6.64 | 3.58 | 3.06 | — |
| MW-1 | 7/28/1992 | 68,000 | 18,000 a | — | 21,000 | 5,500 | 3,400 | 15,000 | — | — | — | — | — | — | 6.64 | 3.91 | 2.73 | — |
| MW-1 (D) | 7/28/1992 | 70,000 | 19,000 a | — | 17,000 | 5,000 | 2,700 | 13,000 | — | — | — | — | — | — | 6.64 | 3.91 | 2.73 | — |
| MW-1 | 10/27/1992 | 53,000 | 1,300 | — | 18,000 | 3,700 | 3,400 | 11,000 | — | — | — | — | — | — | 6.64 | 4.79 | 1.85 | — |
| MW-1 (D) | 10/27/1992 | 48,000 | 2,500 a | — | 17,000 | 3,600 | 3,100 | 9,900 | — | — | — | — | — | — | 6.64 | 4.79 | 1.85 | — |
| MW-1 | 1/14/1993 | 84,000 | 2,200 a | — | 17,000 | 5,400 | 3,000 | 13,000 | — | — | — | — | — | — | 6.64 | 3.39 | 3.25 | — |
| MW-1 | 4/23/1993 | 100,000 | 2,300 a | — | 18,000 | 7,800 | 4,700 | 20,000 | — | — | — | — | — | — | 6.64 | 2.67 | 3.97 | — |
| MW-1 | 7/20/1993 | 41 a | 3,100 a | — | 12,000 | 870 | 1,500 | 4,400 | — | — | — | — | — | — | 9.50 | 3.48 | 6.02 | — |
| MW-1 | 10/18/1993 | 33,000 | 8,100 a | — | 14,000 | 1,200 | 2,000 | 4,900 | — | — | — | — | — | — | 9.50 | 4.20 | 5.30 | — |
| MW-1 (D) | 10/18/1993 | 44,000 | 3,700 a | — | 14,000 | 1,200 | 2,000 | 4,900 | — | — | — | — | — | — | 9.50 | 4.20 | 5.30 | — |
| MW-1 | 1/6/1994 | 71,000 | 9,000 a | — | 9,000 | 870 | 1,600 | 5,100 | — | — | — | — | — | — | 9.50 | 4.13 | 5.37 | — |
| MW-1 | 4/12/1994 | 42,000 | 5,900 | — | 6,600 | 170 | 2,300 | 4,700 | — | — | — | — | — | — | 9.50 | 2.42 | 7.08 | — |
| MW-1 (D) | 4/12/1994 | 40,000 | 4,700 | — | 6,300 | 180 | 2,000 | 4,400 | — | — | — | — | — | — | 9.50 | 2.42 | 7.08 | — |
| MW-1 | 7/25/1994 | 13,000 | 7,000 a | — | 4,400 | 110 | 460 | 1,400 | — | — | — | — | — | — | 9.50 | 3.37 | 6.13 | — |
| MW-1 | 10/25/1994 | 19,000 | 3,900 | — | 5,500 | 210 | 880 | 2,000 | — | — | — | — | — | — | 9.50 | 4.07 | 5.43 | — |
| MW-1 | 1/9/1995 | 37,000 | 8,600 a | — | 6,700 | 800 | 2,800 | 8,900 | — | — | — | — | — | — | 9.50 | 2.65 | 6.85 | — |
| MW-1 | 4/11/1995 | 26,000 | 5,500 | — | 4,700 | 270 | 1,800 | 3,400 | — | — | — | — | — | — | 9.50 | 2.38 | 7.12 | — |
| MW-1 | 7/18/1995 | 57,000 | 7,000 | — | 7,500 | 880 | 4,100 | 11,000 | — | — | — | — | — | — | 9.50 | 3.49 | 6.01 | — |
| MW-1 (D) | 7/19/1995 | 46,000 | 6,600 | — | 6,000 | 670 | 3,200 | 7,500 | — | — | — | — | — | — | 9.50 | 3.49 | 6.01 | — |
| MW-1 | 10/18/1995b | 37,000 | 3,200 | — | 5,400 | 450 | 2,600 | 7,400 | 10,000 | — | — | — | — | — | 9.50 | — | — | — |
| MW-1 | 1/9/1996 | 32,000 | — | — | 3,000 | 240 | 1,900 | 3,500 | 6,100 | — | — | — | — | — | 9.50 | 2.95 | 6.55 | — |
| MW-1 | 4/2/1996 | 30,000 | — | — | 3,100 | 260 | 2.0 | 3,900 | 8.0 | — | — | — | — | — | 9.50 | 2.00 | 7.50 | — |
| MW-1 | 10/3/1996 | 18,000 | 2,800 | — | 3,000 | 120 | 1,200 | 1,700 | 7,500 | — | — | — | — | — | 9.50 | 3.21 | 6.29 | 2.2 |
| MW-1 | 4/3/1997 | 29,000 | 3,000 | — | 2,300 | 170 | 2,300 | 2,900 | 4,300 | — | — | — | — | — | 9.50 | 2.84 | 6.66 | 2.2 |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 10/8/1997 | 22,000 | 3,600 | — | 920 | 71 | 2,400 | 2,200 | 820 | — | — | — | — | — | 9.50 | 2.58 | 6.92 | 1.5 |
| MW-1 | 6/10/1998 | 13,000 | 2,900 | — | 860 | <100 | 1,300 | 500 | 29,000 | 32,000 | — | — | — | — | 9.50 | 2.67 | 6.83 | 0.5/0.5 |
| MW-1 (D) | 6/10/1998 | 9,400 | 2,100 | — | 870 | <50 | 1,300 | 520 | 28,000 | — | — | — | — | — | 9.50 | 2.67 | 6.83 | 0.5/0.5 |
| MW-1 | 12/30/1998 | 6,930 | 1,540 | — | 714 | 52.7 | 243 | <25.0 | 9,000 | — | — | — | — | — | 9.50 | 4.68 | 4.82 | 1.6/1.4 |
| MW-1 * | 6/25/1999 | 12,600 | — | — | 1,110 | 44.7 | 1,340 | 710 | 6,080 | — | — | — | — | — | 9.50 | 2.86 | 6.64 | 1.2/2.1 |
| MW-1 | 12/28/1999 | 3,260 | 1,170 | — | 527 | 14.0 | 50.7 | 40.3 | 5,430 | 7,060 b | — | — | — | — | 9.50 | 3.23 | 6.27 | 1.4/1.8 |
| MW-1 | 5/31/2000 | 6,820 | 2,050 | — | 1,620 | <50.0 | 116 | <50.0 | 6,070 | 4,710 | — | — | — | — | 9.50 | 2.39 | 7.11 | 0.98/2.27 |
| MW-1 | 10/17/2000 | 2,530 | 995 a | — | 388 | <10.0 | 16.4 | 22.1 | 917 | — | — | — | — | — | 9.50 | 2.05 | 7.45 | 4.0/3.1 |
| MW-1 | 5/1/2001 | 12,300 | 1,510 | — | 1,480 | 19.5 | 205 | 111 | 4,160 | — | — | — | — | — | 9.50 | 3.55 | 5.95 | 1.6/1.3 |
| MW-1 | 11/5/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.85 e | 4.43 | 5.42 | 0.4 |
| MW-1 | 11/7/2001 | 3,000 | <1,000 | — | 290 | 6.0 | 11 | 15 | — | 870 | — | — | — | — | 9.85 | 4.00 | 5.85 | 2.1/1.4 |
| MW-1 | 5/1/2002 | 11,000 | <2,000 | — | 2,100 | 29 | 180 | 68 | — | 1,500 | — | — | — | — | 9.85 | 3.14 | 6.71 | 3.4/2.3 |
| MW-1 | 7/16/2002 | 7,400 | <1,500 | — | 1,200 | 22 | 37 | 24 | — | 1,900 | — | — | — | — | 9.85 | 3.69 | 6.16 | 0.9/0.8 |
| MW-1 | 10/17/2002 | 4,600 | <2,000 | — | 810 | 16 | 68 | 31 | — | 1,600 | — | — | — | — | 9.44 | 4.76 | 4.68 | 0.8/1.2 |
| MW-1 | 1/21/2003 | 11,000 | <7,000 | — | 1,100 | 28 | 210 | 53 | — | 1,100 | — | — | — | — | 9.44 | 3.50 | 5.94 | 0.3/0.7 |
| MW-1 | 5/1/2003 | 13,000 | 4,900 a | — | 1,500 | 33 | 260 | 68 | — | 1,700 | — | — | — | — | 9.44 | 3.04 | 6.40 | — |
| MW-1 | 7/17/2003 | 10,000 | 3,200 a,f | — | 2,400 | <50 | 250 | <100 | — | 3,100 | — | — | — | — | 9.44 | 3.92 | 5.52 | — |
| MW-1 | 10/2/2003 | Well inaccessible | | — | — | — | — | — | — | — | — | — | — | — | 9.44 | — | — | — |
| MW-1 | 10/16/2003 | 8,500 | 3,700 a | — | 1,100 | 26 | 140 | 41 | — | 1,700 | — | — | — | — | 9.44 | 4.65 | 4.79 | — |
| MW-1 | 1/5/2004 | 11,000 | 4,300 a | — | 1,600 | 29 | 200 | 45 | — | 1,400 | — | — | — | — | 9.44 | 2.39 | 7.05 | — |
| MW-1 | 4/1/2004 | 10,000 | 3,700 a | — | 1,500 | 28 | 330 | 59 | — | 630 | — | — | — | — | 9.44 | 3.06 | 6.38 | — |
| MW-1 | 8/2/2004 | 9,100 | 4,600 a | <1,000 | 1,700 | 17 | 200 | 24 | — | 1,700 | <40 | <40 | <40 | 2,900 | 9.44 | 4.50 | 4.94 | — |
| MW-1 | 11/2/2004 | 9,100 | 3,100 g | <500 | 2,100 | 50 | 140 | 70 | — | 680 | NA | — | — | — | 9.44 | 3.08 | 6.36 | — |
| MW-1 | 1/10/2005 | 21,000 | 3,600 g | <500 | 2,700 | 31 | 1,000 | 880 | — | 1,000 | — | — | — | — | 9.44 | 2.43 | 7.01 | — |
| MW-1 | 4/13/2005 | 8,800 | 2,500 a | 740 | 1,500 | 20 | 180 | 130 | — | 430 | — | — | — | — | 9.44 | 2.44 | 7.00 | — |
| MW-1 | 7/20/2005 | 11,000 | 5,900 g | 530 | 880 | 23 | 150 | 99 | — | 570 | <40 | <40 | <40 | 2,100 | 9.44 | 4.65 | 4.79 | — |
| MW-1 | 10/24/2005 | 8,900 | 5,100 a | 1,100 l | 2,100 | 23 | 68 | 37 | — | 780 | — | — | — | 760 | 9.37 | 3.70 | 5.67 | — |
| MW-1 | 1/4/2006 | 11,800 | 2,830 f | 279 f | 562 | 12.6 | 35.0 | 24.4 | — | 99.2 | — | — | — | 90.7 | 9.37 | 1.92 | 7.45 | — |
| MW-1 | 7/26/2006 | 12,700 | 5,100 | 690 | 389 | 15.9 | 55.5 | 40.1 | — | 727 | <0.500 | <0.500 | <0.500 | 841 | 9.37 | 3.18 | 6.19 | — |
| MW-1 | 1/2/2007 | 8,700 | 1,200 f | <100 f | 1,000 | 23 | 59 | 32 | — | 230 | — | — | — | <5.0 | 9.37 | 3.21 | 6.16 | — |
| MW-1 | 7/12/2007 | 6,600 m | 2,500 f | <250 f | 1,400 | 22 n | 47 | 28.0 n | — | 390 | <50 | <50 | <50 | 310 | 9.37 | 3.91 | 5.46 | — |
| MW-1 | 1/10/2008 | 7,100 m | 1,400 f,o | <250 f | 1,500 | 25 | 39 | 34 | — | 190 | — | — | — | 840 | 9.37 | 3.03 | 6.34 | — |
| MW-1 | 7/31/2008 | 12,000 | 2,500 f,o | <250 f | 930 | 26 | 33 | 29 | — | 86 | <40 | <40 | <40 | <200 | 9.37 | 3.72 | 5.65 | — |
| MW-1 | 1/6/2009 | 6,200 | 2,600 f,o | <250 f | 840 | 29 | 72 | 41 | — | 180 | — | — | — | 260 | 9.37 | 3.73 | 5.64 | — |
| MW-1 | 7/1/2009 | 710 | 95 f | <250 f | 110 | 7.7 | 3.8 | 4.1 | — | 37 | <2.0 | <2.0 | <2.0 | 110 | 9.37 | 3.92 | 5.45 | — |
| MW-1 | 1/4/2010 | 4,400 | 1,000 f, o | <250 f | 510 | 17 | 39 | 23 | — | 110 | — | — | — | 250 | 9.37 | 3.62 | 5.75 | — |
| **MW-1** | **1/18/2011** | **4,300** | **1,500 q** | **—** | **360** | **12** | **18** | **26** | **—** | **31** | **<10** | **<10** | **<10** | **<100** | **9.37** | **3.02** | **6.35** | **—** |

**TABLE 1**

**GROUNDWATER DATA**
**SHELL-BRANDED SERVICE STATION**
**285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 2/16/1989 | 20,000 | — | — | 200 | 900 | 2,700 | 9,600 | — | — | — | — | — | — | 7.68 | 5.33 | 2.35 | — |
| MW-2 | 5/23/1989 | 1,500 | 1,600 | — | 4.3 | 2.9 | 11 | 150 | — | — | — | — | — | — | 7.68 | 5.23 | 2.45 | — |
| MW-2 | 8/3/1989 | 15,000 | 7,400 | — | 75 | 120 | 850 | 2,200 | — | — | — | — | — | — | 7.68 | 6.03 | 1.65 | — |
| MW-2 | 12/15/1989 | 5,000 | 2,600 | — | 52 | 13 | 4.1 | 290 | — | — | — | — | — | — | 7.68 | 6.43 | 1.25 | — |
| MW-2 | 2/7/1990 | 13,000 | 4,800 | — | 32 | 34 | 230 | 640 | — | — | — | — | — | — | 7.68 | 5.82 | 1.86 | — |
| MW-2 | 4/18/1990 | 9,800 | 3,200 | — | 33 | 19 | 460 | 1,700 | — | — | — | — | — | — | 7.68 | 5.88 | 1.80 | — |
| MW-2 | 7/23/1990 | 9,600 | 2,700 | — | 41 | 27 | 540 | 940 | — | — | — | — | — | — | 7.68 | 6.05 | 1.63 | — |
| MW-2 | 10/1/1990 | 390 | 1,600 | — | 3.4 | 15 | 8.5 | 25 | — | — | — | — | — | — | 7.68 | — | — | — |
| MW-2 | 1/3/1991 | 1,800 | 830 | — | 56 | 4.4 | 4.8 | 92 | — | — | — | — | — | — | 7.68 | 6.82 | 0.86 | — |
| MW-2 | 4/10/1991 | 1,900 | 280 | — | ND | 28 | 140 | 490 | — | — | — | — | — | — | 7.68 | 4.80 | 2.88 | — |
| MW-2 | 7/12/1991 | 8,100 | 1,100 | — | 89 | 66 | 350 | 930 | — | — | — | — | — | — | 7.68 | 5.70 | 1.98 | — |
| MW-2 | 10/8/1991 | 1,400 | 2,600 | — | 5.1 | 1.5 | 36 | 270 | — | — | — | — | — | — | 7.68 | 6.40 | 1.28 | — |
| MW-2 | 2/6/1992 | 2,000 | 5,400 a | — | 7.8 | 2.5 | 130 | 210 | — | — | — | — | — | — | 7.68 | 6.40 | 1.28 | — |
| MW-2 | 5/4/1992 | 21 | 1,000 | — | ND | ND | 300 | 960 | — | — | — | — | — | — | 7.68 | 4.68 | 3.00 | — |
| MW-2 | 7/28/1992 | 2,100 | 830 a | — | 7.7 | 3.3 | 130 | 310 | — | — | — | — | — | — | 7.68 | 5.86 | 1.82 | — |
| MW-2 | 10/27/1992 | 1,100 | 530 | — | 16 | 3.1 | 4.5 | 25 | — | — | — | — | — | — | 7.68 | 6.96 | 0.72 | — |
| MW-2 | 1/14/1993 | 290 | 170 a | — | 5.2 | 3.1 | 8.4 | 21 | — | — | — | — | — | — | 7.68 | 4.12 | 3.56 | — |
| MW-2 | 4/23/1993 | 2,400 | 1,200 a | — | ND | ND | 210 | 610 | — | — | — | — | — | — | 7.68 | 3.84 | 3.84 | — |
| MW-2 | 7/20/1993 | 440 | 130 | — | 1.7 | 1.7 | 15 | 38 | — | — | — | — | — | — | 10.55 | 5.17 | 5.38 | — |
| MW-2 | 10/18/1993 | 2,100 | 1,600 a | — | ND | ND | 90 | 110 | — | — | — | — | — | — | 10.55 | 6.20 | 4.35 | — |
| MW-2 | 1/6/1994 | 1.9 a | 130 | — | ND | 6.7 | 7.1 | 12 | — | — | — | — | — | — | 10.55 | 5.39 | 5.16 | — |
| MW-2 | 4/12/1994 | 120 | 130 | — | ND | ND | 3.4 | 4.3 | — | — | — | — | — | — | 10.55 | 4.72 | 5.83 | — |
| MW-2 | 7/25/1994 | 0.18 a | 280 a | — | 5.3 | ND | 6.2 | 8.2 | — | — | — | — | — | — | 10.55 | 5.44 | 5.11 | — |
| MW-2 | 10/25/1994 | 170 | 400 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.55 | 6.73 | 3.82 | — |
| MW-2 | 1/9/1995 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.55 | 4.34 | 6.21 | — |
| MW-2 | 4/11/1995 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.55 | 3.72 | 6.83 | — |
| MW-2 | 7/18/1995 | 250 | 160 | — | 2.8 | 0.5 | 12 | 13 | — | — | — | — | — | — | 10.55 | 4.91 | 5.64 | — |
| MW-2 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.55 | 5.88 | 4.67 | — |
| MW-2 | 1/9/1996 | 790 | 130 | — | 5.1 | 1.5 | 2.4 | 4.6 | 1,400 | — | — | — | — | — | 10.55 | 4.75 | 5.80 | — |
| MW-2 | 4/2/1996 | 260 | — | — | <2 | <2 | 13 | 6.9 | 540 | — | — | — | — | — | 10.55 | 3.25 | 7.30 | — |
| MW-2 | 10/3/1996 | <2,000 | 620 | — | <20 | <20 | <20 | <20 | 13,000 | — | — | — | — | — | 10.55 | 5.27 | 5.28 | 2.3 |
| MW-2 | 4/3/1997 | <1,000 | 190 | — | <10 | <10 | <10 | <10 | 2,800 | — | — | — | — | — | 10.55 | 3.99 | 6.56 | 2.2 |
| MW-2 | 10/8/1997 | <5,000 | 1,100 | — | <50 | <50 | <50 | <50 | d | — | — | — | — | — | 10.55 | 5.03 | 5.52 | 1.6 |
| MW-2 | 6/10/1998 | 120 | 310 | — | 1.7 | <1.0 | <1.0 | <1.0 | 3,800 | — | — | — | — | — | 10.55 | 4.11 | 6.44 | 0.7/0.6 |
| MW-2 | 12/30/1998 | <5,000 | 1,050 | — | <50.0 | <50.0 | <50.0 | <50.0 | 12,100 | 15,300 | — | — | — | — | 10.55 | 4.76 | 5.79 | 1.3/1.2 |
| MW-2 * | 6/25/1999 | <1,000 | — | — | <10.0 | <10.0 | <10.0 | <10.0 | 7,570 | — | — | — | — | — | 10.55 | 4.63 | 5.92 | 2.3/2.5 |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 12/28/1999 | 228 | 446 | — | 4.54 | <0.500 | <0.500 | <0.500 | 4,260 | — | — | — | — | — | 10.55 | 4.95 | 5.60 | 2.1/2.4 |
| MW-2 | 5/31/2000 | 597 | 187 | — | 19.3 | <0.500 | 0.860 | <0.500 | 2,480 | — | — | — | — | — | 10.55 | 4.06 | 6.49 | 1.8/2.7 |
| MW-2 | 10/17/2000 | Well inaccessible | | — | — | — | NA | — | — | — | — | — | — | — | 10.55 | — | — | — |
| MW-2 | 5/1/2001 | Well inaccessible | | — | — | — | NA | — | — | — | — | — | — | — | 10.55 | — | — | — |
| MW-2 | 11/5/2001 | <500 | 610 | — | <5.0 | <5.0 | <5.0 | <5.0 | — | 1,800 | — | — | — | — | 10.55 | 6.12 | 4.43 | 0.6/1.1 |
| MW-2 | 5/1/2002 | 440 | <50 | — | <2.5 | <2.5 | <2.5 | <2.5 | — | 1,300 | — | — | — | — | 10.55 | 3.85 | 6.70 | 6.2/0.9 |
| MW-2 | 7/16/2002 | <500 | 250 | — | <5.0 | <5.0 | <5.0 | <5.0 | — | 2,100 | — | — | — | — | 10.55 | 4.56 | 5.99 | 0.9/1.3 |
| MW-2 | 10/17/2002 | 280 | 240 | — | <1.0 | <1.0 | <1.0 | <1.0 | — | 270 | — | — | — | — | 10.10 | 5.90 | 4.20 | 0.6/2.2 |
| MW-2 | 1/21/2003 | 160 | 72 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | 380 | — | — | — | — | 10.10 | 4.11 | 5.99 | 0.5/1.0 |
| MW-2 | 5/1/2003 | 350 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 110 | — | — | — | — | 10.10 | 4.18 | 5.92 | — |
| MW-2 | 7/17/2003 | 120 | 61 a,f | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 14 | — | — | — | — | 10.10 | 4.72 | 5.38 | — |
| MW-2 | 10/2/2003 | 190 | 200 a | — | 1.6 | <0.50 | <0.50 | <1.0 | — | 17 | — | — | — | — | 10.10 | 5.76 | 4.34 | — |
| MW-2 | 1/5/2004 | 77 | <50 | — | <0.50 | 0.86 | <0.50 | <1.0 | — | 1.3 | — | — | — | — | 10.10 | 3.28 | 6.82 | — |
| MW-2 | 4/1/2004 | 450 a | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 1.6 | — | — | — | — | 10.10 | 3.71 | 6.39 | — |
| MW-2 | 8/2/2004 | 110 | 130 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | 3.9 | <2.0 | <2.0 | <2.0 | 150 | 10.10 | 5.50 | 4.60 | — |
| MW-2 | 11/2/2004 | 130 | 55 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | 1.7 | — | — | — | — | 10.10 | 4.37 | 5.73 | — |
| MW-2 | 1/10/2005 | 81 | <50 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | 0.65 | — | — | — | — | 10.10 | 3.70 | 6.40 | — |
| MW-2 | 4/13/2005 | 500 | <50 j,k | <500 j,k | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 10.10 | 3.13 | 6.97 | — |
| MW-2 | 7/20/2005 | 810 | 330 a | <500 | 11 | <5.0 | <5.0 | <10 | — | 11 | <20 | <20 | <20 | 1,800 | 10.10 | 5.75 | 4.35 | — |
| MW-2 | 10/24/2005 | 320 | 100 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | 4.7 | — | — | — | 570 | 10.07 | 5.30 | 4.77 | — |
| MW-2 | 1/4/2006 | <50.0 | <100 f | <100 f | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | <10.0 | 10.07 | 2.35 | 7.72 | — |
| MW-2 | 7/26/2006 | 402 | <93.9 | 295 | <0.500 | <0.500 | <0.500 | <0.500 | — | 2.11 | <0.500 | <0.500 | <0.500 | 19.4 | 10.07 | 4.40 | 5.67 | — |
| MW-2 | 1/2/2007 | 210 | <50 f | <100 f | <0.50 | <0.50 | <0.50 | <1.0 | — | 1.7 | — | — | — | <5.0 | 10.07 | 4.37 | 5.70 | — |
| MW-2 | 7/12/2007 | 140 m | 85 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 2.9 | <2.0 | <2.0 | <2.0 | 150 | 10.07 | 5.12 | 4.95 | — |
| MW-2 | 1/10/2008 | 110 m | 54 f,o | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 2.0 | — | — | — | 45 | 10.07 | 3.81 | 6.26 | — |
| MW-2 | 7/31/2008 | Well inaccessible | | — | — | — | — | — | — | — | — | — | — | — | 10.07 | — | — | — |
| MW-2 | 8/7/2008 | 68 | 56 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 4.8 | <2.0 | <2.0 | <2.0 | 290 | 10.07 | 5.30 | 4.77 | — |
| MW-2 | 1/6/2009 | 80 | 66 f | 290 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 4.1 | — | — | — | 330 | 10.07 | 4.78 | 5.29 | — |
| MW-2 | 7/1/2009 | 310 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 2.9 | <2.0 | <2.0 | <2.0 | 180 | 10.07 | 4.74 | 5.33 | — |
| MW-2 | 1/4/2010 | 100 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 3.0 | — | — | — | 110 | 10.07 | 4.52 | 5.55 | — |
| MW-3 | 2/16/1989 | 60,000 | — | — | 5,500 | ND | 3,200 | 5,200 | — | — | — | — | — | — | 7.81 | 5.17 | 2.64 | — |
| MW-3 | 5/23/1989 | ND | 1,500 | — | ND | 200 | ND | ND | — | — | — | — | — | — | 7.81 | 5.09 | 2.72 | — |
| MW-3 | 8/3/1989 | 2,000 | 1,200 | — | 120 | ND | ND | 86 | — | — | — | — | — | — | 7.81 | 5.34 | 2.47 | — |
| MW-3 | 12/15/1989 | 5,200 | 1,700 | — | 380 | 12 | 17 | 410 | — | — | — | — | — | — | 7.81 | 6.02 | 1.79 | — |
| MW-3 | 2/7/1990 | 260 | 230 | — | 17 | 47 | 5.4 | 2.5 | — | — | — | — | — | — | 7.81 | 4.95 | 2.86 | — |
| MW-3 | 4/18/1990 | 260 | ND | — | ND | ND | ND | 9.4 | — | — | — | — | — | — | 7.81 | 5.55 | 2.26 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 7/23/1990 | 510 | 210 | — | 46 | ND | ND | 9.3 | — | — | — | — | — | — | 7.81 | 5.81 | 2.00 | — |
| MW-3 | 9/27/1990 | 460 | 350 | — | 6.3 | 1.2 | ND | 15 | — | — | — | — | — | — | 7.81 | 6.86 | 0.95 | — |
| MW-3 | 1/3/1991 | 4,800 | 630 | — | 920 | 1.7 | ND | 190 | — | — | — | — | — | — | 7.81 | 6.84 | 0.97 | — |
| MW-3 | 4/10/1991 | 120 | 60 | — | 1.2 | 8.8 | 3.5 | 21 | — | — | — | — | — | — | 7.81 | 4.93 | 2.88 | — |
| MW-3 | 7/12/1991 | 430 | ND | — | 12 | 0.8 | ND | 7.7 | — | — | — | — | — | — | 7.81 | 5.56 | 2.25 | — |
| MW-3 | 10/8/1991 | 770 | 560 | — | 140 | ND | ND | 53 | — | — | — | — | — | — | 7.81 | 6.62 | 1.19 | — |
| MW-3 | 2/6/1992 | 500 | 340 a | — | 74 | 0.7 | 5.2 | 5.3 | — | — | — | — | — | — | 7.81 | 6.28 | 1.53 | — |
| MW-3 | 5/4/1992 | 310 | 290 a | — | 47 | 0.9 | 17 | 16 | — | — | — | — | — | — | 7.81 | 4.65 | 3.16 | — |
| MW-3 | 7/28/1992 | 780 | 100 a | — | 130 | ND | 13 | 4.2 | — | — | — | — | — | — | 7.81 | 5.56 | 2.25 | — |
| MW-3 | 10/27/1992 | 740 | 69 a | — | 92 | ND | 7.8 | 9.6 | — | — | — | — | — | — | 7.81 | 6.65 | 1.16 | — |
| MW-3 | 1/14/1993 | ND | ND | — | 2.4 | 2.8 | ND | ND | — | — | — | — | — | — | 7.81 | 3.88 | 3.93 | — |
| MW-3 | 04/23/1993b | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.81 | — | — | — |
| MW-3 | 07/20/1993b | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.25 (TOB) | — | — | — |
| MW-3 | 10/18/1993b | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.25 (TOB) | — | — | — |
| MW-3 | 1/6/1994 | 130 | 64 | — | 1.7 | ND | ND | 0.93 | — | — | — | — | — | — | 11.25 (TOB) | 5.54 | — | — |
| MW-3 | 4/12/1994 | ND | 75 | — | 0.82 | ND | ND | 0.7 | — | — | — | — | — | — | 11.25 (TOB) | 4.82 | — | — |
| MW-3 | 7/25/1994 | 0.06 a | ND | — | 2.8 | ND | ND | 0.7 | — | — | — | — | — | — | 11.25 (TOB) | 6.03 (TOB) | 5.22 | — |
| MW-3 | 10/25/1994 | 70 | 100 | — | ND | ND | ND | ND | — | — | — | — | — | — | 11.25 (TOB) | 6.48 | — | — |
| MW-3 | 1/9/1995 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 11.25 (TOB) | 4.86 (TOB) | 6.39 | — |
| MW-3 | 4/11/1995 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 11.25 (TOB) | 4.22 (TOB) | 7.03 | — |
| MW-3 | 7/18/1995 | ND | 90 | — | 2.8 | ND | ND | ND | — | — | — | — | — | — | 11.25 (TOB) | 5.44 (TOB) | 5.81 | — |
| MW-3 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.25 (TOB) | 5.72 | — | — |
| MW-3 | 1/9/1996 | 90 | 90 | — | 1.7 | ND | <0.5 | <0.5 | 61 | — | — | — | — | — | 11.25 (TOB) | 4.96 | — | — |
| MW-3 | 4/2/1996 | <50 | — | — | <0.5 | <0.5 | <0.5 | <0.5 | 24 | — | — | — | — | — | 11.25 (TOB) | 3.43 | — | — |
| MW-3 | 10/3/1996 | <500 | 180 | — | <5 | <5 | <5 | <5 | 1,200 | — | — | — | — | — | 11.25 (TOB) | 5.39 | — | 2.4 |
| MW-3 | 4/3/1997 | 150 | 83 | — | 3.2 | <0.50 | <0.50 | 0.81 | 280 | — | — | — | — | — | 11.25 (TOB) | 4.20 | — | 2.0 |
| MW-3 | 10/8/1997 | 180 | 120 | — | 7.3 | 0.68 | 0.54 | 3.9 | 1,700 | — | — | — | — | — | 11.25 (TOB) | 5.51(TOB) | 5.74 | 2.1 |
| MW-3 | 6/10/1998 | 130 | 120 | — | 12 | 0.85 | <0.50 | 2.1 | 600 | — | — | — | — | — | 11.25 (TOB) | 3.91(TOB) | 7.34 | 0.8/0.9 |
| MW-3 | 12/30/1998 | <250 | 108 | — | <2.50 | <2.50 | <2.50 | <2.50 | 1,010 | — | — | — | — | — | 11.25 (TOB) | 5.76 (TOB) | 5.49 | 1.3/1.4 |
| MW-3 * | 6/25/1999 | 269 | — | — | 4.24 | <2.50 | <2.50 | <2.50 | 1,180 | — | — | — | — | — | 11.25 (TOB) | 4.73 | — | 1.4/1.9 |
| MW-3 | 12/28/1999 | 333 | 122 | — | 41.4 | 6.48 | 6.57 | 21.3 | 2,680 | — | — | — | — | — | 11.25 (TOB) | 5.75 (TOB) | 5.50 | 1.3/1.5 |
| MW-3 | 5/31/2000 | 1,180 | 89.2 | — | 19.1 | 1.92 | 3.26 | <1.00 | 2,130 | — | — | — | — | — | 11.25 (TOB) | 4.96 (TOB) | 6.29 | 1.2/2.2 |
| MW-3 | 10/17/2000 | 156 | 183 a | — | 5.22 | 0.819 | <0.500 | 1.53 | 2,250 | — | — | — | — | — | 11.25 (TOB) | 5.70 (TOB) | 5.55 | 2.0/2.1 |
| MW-3 | 5/1/2001 | 286 | 95.9 | — | <2.50 | <2.50 | <2.50 | <2.50 | 1,470 | — | — | — | — | — | 11.25 (TOB) | 4.88 (TOB) | 6.37 | 1.9/2.7 |
| MW-3 | 5/29/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.25 (TOB) | 5.25 (TOB) | 6.00 | 3.0/1.9 |
| MW-3 | 11/5/2001 | <500 | <50 | — | <5.0 | <5.0 | <5.0 | <5.0 | — | 2,100 | — | — | — | — | 11.25 (TOB) | 6.25 (TOB) | 5.00 | 0.5/1.9 |
| MW-3 | 5/1/2002 | <100 | 80 | — | <1.0 | <1.0 | <1.0 | <1.0 | — | 430 | — | — | — | — | 11.25 (TOB) | 4.77 (TOB) | 6.48 | 4.1/0.7 |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 7/16/2002 | 410 | 340 | — | 12 | 2.0 | <2.0 | 3.5 | — | 530 | — | — | — | — | 11.25 (TOB) | 5.44 (TOB) | 5.81 | 0.3/1.7 |
| MW-3 | 10/17/2002 | 220 | 82 | — | 2.5 | <2.0 | <2.0 | 2.3 | — | 25 | — | — | — | — | 10.58 | 6.03 | 4.55 | 0.8/2.4 |
| MW-3 | 1/21/2003 | <50 | 150 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | 28 | — | — | — | — | 10.58 | 4.30 | 6.28 | 1.2/1.0 |
| MW-3 | 5/1/2003 | 60 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 16 | — | — | — | — | 10.58 | 4.30 | 6.28 | NA |
| MW-3 | 7/17/2003 | 120 | <50 | — | 1.2 | <0.50 | <0.50 | <1.0 | — | 11 | — | — | — | — | 10.58 | 5.36 | 5.22 | NA |
| MW-3 | 10/2/2003 | 160 | 56 a | — | 3.1 | 1.1 | <0.50 | 2.1 | — | 8.2 | — | — | — | — | 10.58 | 6.00 | 4.58 | NA |
| MW-3 | 1/5/2004 | 54 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 15 | — | — | — | — | 10.58 | 4.44 | 6.14 | NA |
| MW-3 | 4/1/2004 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 4.2 | — | — | — | — | 10.58 | 4.29 | 6.29 | NA |
| MW-3 | 8/2/2004 | 300 | <50 | <500 | <2.5 | <2.5 | <2.5 | <5.0 | — | 17 | <10 | <10 | <10 | 1,900 | 10.58 | 5.80 | 4.78 | NA |
| MW-3 | 11/2/2004 | 72 | <50 | <500 | 0.51 | <0.50 | <0.50 | <1.0 | — | 3.0 | — | — | — | — | 10.58 | 5.00 | 5.58 | NA |
| MW-3 | 1/10/2005 | <50 | <50 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 10.58 | 3.01 | 7.57 | NA |
| MW-3 | 4/13/2005 | <50 | <50 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | 0.69 | — | — | — | — | 10.58 | 2.89 | 7.69 | NA |
| MW-3 | 7/20/2005 | 300 | 60 g | <500 | 1.3 | 0.61 | <0.50 | 1.2 | — | 4.7 | <2.0 | <2.0 | <2.0 | 780 | 10.58 | 5.10 | 5.48 | NA |
| MW-3 | 10/24/2005 | 210 | 57 a | <500 | 1.2 | <1.0 | <1.0 | <2.0 | — | 6.3 | — | — | — | 1,300 | 10.58 | 5.68 | 4.90 | NA |
| MW-3 | 1/4/2006 | <50.0 | <100 f | <100 f | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | <10.0 | 10.58 | 2.80 | 7.78 | NA |
| MW-3 | 7/26/2006 | 681 | 94.6 | 264 | 1.67 | 1.04 | <0.500 | 1.75 | — | 13.4 | <0.500 | <0.500 | <0.500 | 1,500 | 10.58 | 4.70 | 5.88 | NA |
| MW-3 | 1/2/2007 | 150 | <50 f | <100 f | <0.50 | <0.50 | <0.50 | <1.0 | — | 3.7 | — | — | — | 600 | 10.58 | 4.96 | 5.62 | NA |
| MW-3 | 7/12/2007 | 240 m | <50 f | <250 f | 0.28 n | 0.45 n | <1.0 | 0.93 n | — | 9.6 | <2.0 | 0.48 n | <2.0 | 1,000 | 10.58 | 5.50 | 5.08 | NA |
| MW-3 | 1/10/2008 | 160 m | 82 f,o | <250 f | <1.0 | <2.0 | <2.0 | <2.0 | — | 4.2 | — | — | — | 940 | 10.58 | 4.72 | 5.86 | NA |
| MW-3 | 7/31/2008 | 160 | <50 f | <250 f | <1.0 | <2.0 | <2.0 | <2.0 | — | 11 | <4.0 | <4.0 | <4.0 | 1,300 | 10.58 | 5.63 | 4.95 | NA |
| MW-3 | 1/6/2009 | 130 | 220 f | 310 f | <1.0 | <2.0 | <2.0 | <2.0 | — | 8.9 | — | — | — | 870 | 10.58 | 5.48 | 5.10 | NA |
| MW-3 | 7/1/2009 | 170 | 260 f | <250 f | 6.7 | <1.0 | <1.0 | 1.4 | — | 16 | <2.0 | <2.0 | <2.0 | 640 | 10.58 | 5.31 | 5.27 | NA |
| MW-3 | 1/4/2010 | 290 | 95 f | <250 f | 11 | 1.0 | <1.0 | 1.3 | — | 11 | — | — | — | 370 | 10.58 | 5.01 | 5.57 | NA |
| **MW-3** | **1/18/2011** | **<50** | **<470** | **<470** | **2.2** | **<0.50** | **<0.50** | **<1.0** | **—** | **2.6** | **<1.0** | **<1.0** | **<1.0** | **200** | **10.58** | **3.84** | **6.74** | **NA** |
| MW-4 | 5/23/1989 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 5.60 | 1.78 | — |
| MW-4 | 8/3/1989 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 6.37 | 1.01 | — |
| MW-4 | 12/15/1989 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 6.91 | 0.47 | — |
| MW-4 | 3/8/1990 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 6.06 | 1.32 | — |
| MW-4 | 4/18/1990 | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.38 | 5.84 | 1.54 | — |
| MW-4 | 7/23/1990 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 6.92 | 0.46 | — |
| MW-4 | 9/27/1991 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 8.03 | 0.65 | — |
| MW-4 | 1/3/1991 | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.38 | 7.54 | -0.16 | — |
| MW-4 | 4/10/1991 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 5.06 | 2.32 | — |
| MW-4 | 7/12/1991 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 6.86 | 0.52 | — |
| MW-4 | 10/8/1991 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 7.44 | -0.06 | — |
| MW-4 | 2/6/1992 | 120 | 2,500 a | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 7.29 | 0.09 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | 5/4/1992 | ND | 53 | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 5.33 | 2.05 | — |
| MW-4 | 7/28/1992 | ND | 60 | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 6.95 | 0.43 | — |
| MW-4 | 10/27/1992 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 7.65 | -0.27 | — |
| MW-4 | 1/14/1993 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 4.84 | 2.54 | — |
| MW-4 | 4/23/1993 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.38 | 4.84 | 2.54 | — |
| MW-4 | 7/20/1993 | ND | ND | — | 2.2 | ND | 1.1 | 7.7 | — | — | — | — | — | — | 10.28 | 6.47 | 3.81 | — |
| MW-4 | 10/18/1993 | ND | ND | — | ND | 1.2 | ND | ND | — | — | — | — | — | — | 10.28 | 7.35 | 2.93 | — |
| MW-4 | 1/6/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.28 | 7.64 | 2.64 | — |
| MW-4 | 4/12/1994 | ND | 76 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.28 | 6.39 | 3.89 | — |
| MW-4 | 7/25/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.28 | 7.00 | 3.28 | — |
| MW-4 | 10/25/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.28 | 7.53 | 2.75 | — |
| MW-4 | 1/9/1995 | ND | 70 a | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.28 | 4.90 | 5.38 | — |
| MW-4 | 4/11/1995 | ND | 140 | — | 1.5 | ND | 0.6 | 3.4 | — | — | — | — | — | — | 10.28 | 5.04 | 5.24 | — |
| MW-4 | 7/18/1995 | ND | 160 | — | 13 | 3.4 | ND | ND | — | — | — | — | — | — | 10.28 | 6.18 | 4.10 | — |
| MW-4 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.28 | 6.63 | 3.65 | — |
| MW-4 | 1/9/1996 | <50 | ND | — | <0.5 | ND | <0.5 | <0.5 | ND | — | — | — | — | — | 10.28 | 3.82 | 6.46 | — |
| MW-4 | 4/2/1996 | <50 | — | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 10.28 | 3.97 | 6.31 | — |
| MW-4 | 10/3/1996 | <50 | 81 | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 10.28 | 3.74 | 6.54 | — |
| MW-4 | 4/3/1997 | <50 | 69 | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 10.28 | 3.74 | 6.54 | 1.8 |
| MW-4 | 10/8/1997 | <50 | 75 | — | <0.50 | <0.50 | <0.50 | <0.50 | 13 | — | — | — | — | — | 10.28 | 4.89 | 5.39 | 2.0 |
| MW-4 (D) | 10/8/1997 | <50 | '— | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 10.28 | 4.89 | 5.39 | 2.0 |
| MW-4 | 6/10/1998 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.28 | 4.39 | 5.89 | — |
| MW-4 | 12/30/1998 | <50.0 | 94.1 | — | <0.500 | <0.500 | <0.500 | 0.580 | 7.33 | — | — | — | — | — | 10.28 | 5.58 | 4.70 | 1.7/1.6 |
| MW-4 | 6/25/1999 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.28 | 4.17 | 6.11 | — |
| MW-4 | 12/28/1999 | <50.0 | <50.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | — | — | — | — | — | 10.28 | 4.54 | 5.74 | 1.4/1.5 |
| MW-4 | 5/31/2000 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.28 | 3.85 | 6.43 | — |
| MW-4 | 10/17/2000 | <50.0 | 274 a | — | <0.500 | <0.500 | <0.500 | <0.500 | 9.40 | — | — | — | — | — | 10.28 | 3.50 | 6.78 | 3.8/4.0 |
| MW-4 | 5/1/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.28 | 4.10 | 6.18 | — |
| MW-4 | 11/5/2001 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | '— | 8.4 | — | — | — | — | 10.28 | 5.21 | 5.07 | 1.3/1.5 |
| MW-4 | 5/1/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | '— | <5.0 | — | — | — | — | 10.28 | 4.28 | 6.00 | 2.6/1.1 |
| MW-4 | 7/16/2002 | — | — | — | — | — | — | — | '— | — | — | — | — | — | 10.28 | 3.87 | 6.41 | — |
| MW-4 | 10/17/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | '— | <5.0 | — | — | — | — | 9.83 | 4.66 | 5.17 | 1.4/2.4 |
| MW-4 | 1/21/2003 | — | — | — | — | — | — | — | '— | — | — | — | — | — | 9.83 | 3.87 | 5.96 | — |
| MW-4 | 5/1/2003 | <50 | 57 a | — | <0.50 | <0.50 | <0.50 | <1.0 | '— | <5.0 | — | — | — | — | 9.83 | 4.49 | 5.34 | — |
| MW-4 | 7/17/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.83 | 5.46 | 4.37 | — |
| MW-4 | 10/2/2003 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | '— | 5.9 | — | — | — | — | 9.83 | 5.51 | 4.32 | — |
| MW-4 | 1/5/2004 | '— | '— | — | — | — | — | — | '— | — | — | — | — | — | 9.83 | 3.83 | 6.00 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | 4/1/2004 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 3.0 | — | — | — | — | 9.83 | 4.43 | 5.40 | — |
| MW-4 | 8/2/2004 | — | — | — | — | — | — | — | — | NA | — | — | — | — | 9.83 | 5.05 | 4.78 | — |
| MW-4 | 11/2/2004 | <50 | <50 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | 3.8 | — | — | — | — | 9.83 | 4.31 | 5.52 | — |
| MW-4 | 1/10/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.83 | 3.51 | 6.32 | — |
| MW-4 | 4/13/2005 | <50 | 83 a,j,k | <500 j,k | <0.50 | <0.50 | <0.50 | <1.0 | — | 5.1 | — | — | — | — | 9.83 | 3.77 | 6.06 | — |
| MW-4 | 7/20/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.83 | 5.91 | 3.92 | — |
| MW-4 | 10/24/2005 | <50 | 92 g | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | 3.9 | — | — | — | — | 9.83 | 3.98 | 5.85 | — |
| MW-4 | 1/4/2006 | <50.0 | <100 f | <100 f | <0.500 | <0.500 | <0.500 | <0.500 | — | 2.90 | — | — | — | <10.0 | 9.83 | 3.45 | 6.38 | — |
| MW-4 | 7/26/2006 | <50.0 | <93.9 | 364 | <0.500 | <0.500 | <0.500 | <0.500 | — | 2.39 | <0.500 | <0.500 | <0.500 | 55.5 | 9.83 | 3.65 | 6.18 | — |
| MW-4 | 1/2/2007 | <50 | <50 f | <100 f | <0.50 | <0.50 | <0.50 | <1.0 | — | 1.6 | — | — | — | — | 9.83 | 4.15 | 5.68 | — |
| MW-4 | 7/12/2007 | <50 m | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 2.0 | <2.0 | <2.0 | <2.0 | <10 | 9.83 | 4.40 | 5.43 | — |
| MW-4 | 1/10/2008 | <50 m | 76 f,o | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 2.0 | — | — | — | — | 9.83 | 4.27 | 5.56 | — |
| MW-4 | 7/31/2008 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 1.9 | <2.0 | <2.0 | <2.0 | <10 | 9.83 | 4.00 | 5.83 | — |
| MW-4 | 1/6/2009 | <50 | 96 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 1.8 | — | — | — | — | 9.83 | 4.73 | 5.10 | — |
| MW-4 | 7/1/2009 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 2.0 | <2.0 | <2.0 | <2.0 | <10 | 9.83 | 4.70 | 5.13 | — |
| MW-4 | 1/4/2010 | <50 | 53 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 1.1 | — | — | — | <10 | 9.83 | 4.64 | 5.19 | — |
| MW-5 | 5/23/1989 | 26,000 | 7,000 | — | 1,500 | 280 | ND | 8,100 | — | — | — | — | — | — | 8.18 | 5.47 | 2.71 | — |
| MW-5 | 8/3/1989 | 12,000 | 8,700 | — | 860 | 94 | ND | 2,600 | — | — | — | — | — | — | 8.18 | 5.94 | 2.24 | — |
| MW-5 | 12/15/1989 | 1,000 | 710 | — | 22 | 35 | 18 | 44 | — | — | — | — | — | — | 8.18 | 6.75 | 1.43 | — |
| MW-5 | 2/7/1990 | ND | 620 | — | 0.8 | ND | ND | ND | — | — | — | — | — | — | 8.18 | 6.03 | 2.15 | — |
| MW-5 | 4/18/1990 | 19,000 | 5,000 | — | 4,500 | 850 | 97 | 8,000 | — | — | — | — | — | — | 8.18 | 5.80 | 2.38 | — |
| MW-5 | 7/23/1990 | 23,000 | 2,700 | — | 3,600 | 400 | 160 | 6,500 | — | — | — | — | — | — | 8.18 | 6.00 | 2.18 | — |
| MW-5 | 9/23/1990 | 5,400 | 550 | — | 1,400 | 26 | 13 | 1,300 | — | — | — | — | — | — | 8.18 | 7.18 | 1.00 | — |
| MW-5 | 1/3/1991 | 860 | 560 | — | 280 | 2.8 | 0.8 | 45 | — | — | — | — | — | — | 8.18 | 7.17 | 1.01 | — |
| MW-5 | 4/10/1991 | 12,000 | 1,800 | — | 710 | 130 | 500 | 2,400 | — | — | — | — | — | — | 8.18 | 5.25 | 2.93 | — |
| MW-5 | 7/12/1991 | 24,000 | 1,700 | — | 2,200 | 280 | 430 | 5,700 | — | — | — | — | — | — | 8.18 | 5.70 | 2.48 | — |
| MW-5 | 10/8/1991 | 2,800 | 1,400 | — | 860 | 13 | ND | 580 | — | — | — | — | — | — | 8.18 | 6.50 | 1.68 | — |
| MW-5 | 2/6/1992 | 1,000 | 1,200 | — | 300 | ND | 14 | 62 | — | — | — | — | — | — | 8.18 | 6.35 | 1.83 | — |
| MW-5 | 5/4/1992 | 10,000 | 4,100 a | — | 1,500 | 350 | 710 | 2,300 | — | — | — | — | — | — | 8.18 | 4.87 | 3.31 | — |
| MW-5 | 7/28/1992 | 12,000 | 3,800 a | — | 2,200 | 63 | 1,400 | 3,500 | — | — | — | — | — | — | 8.18 | 5.73 | 2.45 | — |
| MW-5 | 10/27/1992 | 7,500 | 480 a | — | 1,100 | 59 | 230 | 900 | — | — | — | — | — | — | 8.18 | 6.98 | 1.20 | — |
| MW-5 | 1/14/1993 | 7,700 | 1,100 a | — | 420 | 49 | 570 | 840 | — | — | — | — | — | — | 8.18 | 4.70 | 3.48 | — |
| MW-5 | 4/23/1993 | 110,000 | 1,600 a | — | 2,900 | 2,500 | 3,400 | 12,000 | — | — | — | — | — | — | 8.18 | 4.19 | 3.99 | — |
| MW-5 | 7/20/1993 | 18a | 1,200 a | — | 1,400 | 84 | 1,500 | 3,200 | — | — | — | — | — | — | 10.87 | 5.10 | 5.77 | — |
| MW-5 | 10/18/1993 | 14,000 | 5,800 a | — | 2,000 | 100 | 2,300 | 5,100 | — | — | — | — | — | — | 10.87 | 5.79 | 5.08 | — |
| MW-5 | 1/6/1994 | 81,000 | 1,100 a | — | 11,000 | 9,300 | 3,600 | 12,000 | — | — | — | — | — | — | 10.87 | 5.56 | 5.31 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5 | 4/12/1994 | 17,000 | 4,100 | — | 2,900 | 380 | 430 | 1,300 | — | — | — | — | — | — | 10.87 | 4.90 | 5.97 | — |
| MW-5 | 7/25/1994 | 5,900 | 5,400 a | — | 1,500 | 42 | 34 | 170 | — | — | — | — | — | — | 10.87 | 5.38 | 5.49 | — |
| MW-5 | 10/25/1994 | 2,300 | 1,900 a | — | 35 | 3 | ND | 8 | — | — | — | — | — | — | 10.87 | 6.16 | 4.71 | — |
| MW-5 | 1/9/1995 | 8,300 | 3,700 a | — | 1,500 | 95 | 330 | 1,900 | — | — | — | — | — | — | 10.87 | 4.60 | 6.27 | — |
| MW-5 | 4/11/1995 | 7,300 | 9,800 | — | 1,200 | 230 | 600 | 550 | — | — | — | — | — | — | 10.87 | 3.74 | 7.13 | — |
| MW-5 | 7/18/1995 | 17,000 | 5,100 | — | 2,300 | 730 | 770 | 2,500 | — | — | — | — | — | — | 10.87 | 4.97 | 5.90 | — |
| MW-5 | 10/18/1995 | Well abandoned | | — | — | — | — | — | — | — | — | — | — | — | 10.87 | 5.67 | 5.20 | — |
| MW-6 | 5/23/1989 | 22,000 | 7,000 | — | 16 | 6.5 | 7 | 3,400 | — | — | — | — | — | — | 8.21 | 5.47 | 2.74 | — |
| MW-6 | 8/3/1989 | 28,000 | 8,800 | — | 1,200 | 130 | 2,100 | 2,800 | — | — | — | — | — | — | 8.21 | 5.91 | 2.30 | — |
| MW-6 | 12/15/1989 | 16,000 | 5,500 | — | 370 | 92 | 200 | 180 | — | — | — | — | — | — | 8.21 | 5.98 | 2.23 | — |
| MW-6 | 2/7/1990 | 22,000 | 2,600 | — | 520 | 85 | 630 | 770 | — | — | — | — | — | — | 8.21 | 5.47 | 2.74 | — |
| MW-6 | 4/18/1990 | 21,000 | 5,700 | — | 900 | 77 | 2,700 | 2,700 | — | — | — | — | — | — | 8.21 | 5.80 | 2.41 | — |
| MW-6 | 7/23/1990 | 24,000 | 3,000 | — | 1,000 | 94 | 3,400 | 2,700 | — | — | — | — | — | — | 8.21 | 5.85 | 2.36 | — |
| MW-6 | 9/27/1990 | 22,000 | ND | — | 700 | 93 | 2,500 | 2,400 | — | — | — | — | — | — | 8.21 | 6.42 | 1.79 | — |
| MW-6 | 1/3/1991 | 25,000 | 960 | — | 1,000 | 88 | 2,600 | 3,700 | — | — | — | — | — | — | 8.21 | 6.73 | 1.48 | — |
| MW-6 | 4/10/1991 | 18,000 | 920 | — | 560 | 190 | 480 | 830 | — | — | — | — | — | — | 8.21 | 5.24 | 2.97 | — |
| MW-6 | 7/12/1991 | 9,500 | 1,900 | — | 670 | 51 | 1,100 | 920 | — | — | — | — | — | — | 8.21 | 5.78 | 2.43 | — |
| MW-6 | 10/8/1991 | 11,000 | 5,100 | — | 1,000 | 43 | ND | ND | — | — | — | — | — | — | 8.21 | 6.36 | 1.85 | — |
| MW-6 | 2/6/1992 | 7,200 | 1,500 a | — | 560 | 8 | 720 | 160 | — | — | — | — | — | — | 8.21 | 6.15 | 2.06 | — |
| MW-6 | 5/4/1992 | 7,900 | 2,900 a | — | 610 | ND | 1,500 | 240 | — | — | — | — | — | — | 8.21 | 5.07 | 3.14 | — |
| MW-6 | 7/28/1992 | 17,000 | 3,200 a | — | 1,200 | ND | 3,000 | 610 | — | — | — | — | — | — | 8.21 | 5.85 | 2.36 | — |
| MW-6 | 10/27/1992 | 15,000 | 1,300 a | — | 1,300 | 130 | 1,700 | 490 | — | — | — | — | — | — | 8.21 | 6.69 | 1.52 | — |
| MW-6 | 1/14/1993 | 4,900 | 1,600 a | — | 80 | 31 | 330 | 37 | — | — | — | — | — | — | 8.21 | 4.52 | 3.69 | — |
| MW-6 | 4/23/1993 | 4,800 | 1,800 a | — | 120 | ND | 780 | 73 | — | — | — | — | — | — | 8.21 | 4.32 | 3.89 | — |
| MW-6 | 7/20/1993 | 19 a | 910 a | — | 570 | 18 | 1,100 | 130 | — | — | — | — | — | — | 11.04 | 5.39 | 5.65 | — |
| MW-6 | 10/18/1993 | 24,000 | 2,500 a | — | 770 | 440 | 1,600 | 830 | — | — | — | — | — | — | 11.04 | 6.67 | 4.37 | — |
| MW-6 | 1/6/1994 | 20 a | 2,300 a | — | 450 | 30 | 530 | 52 | — | — | — | — | — | — | 11.04 | 5.66 | 5.38 | — |
| MW-6 | 4/12/1994 | 3,600 | 1,600 | — | 150 | ND | 340 | 21 | — | — | — | — | — | — | 11.04 | 4.91 | 6.13 | — |
| MW-6 | 7/25/1994 | 1,600 | 2,200 a | — | 160 | ND | ND | 10 | — | — | — | — | — | — | 11.04 | 5.55 | 5.49 | — |
| MW-6 (D) | 7/25/1994 | 1,000 | 2,400 a | — | 160 | ND | ND | 18 | — | — | — | — | — | — | 11.04 | 5.55 | 5.49 | — |
| MW-6 | 10/25/1994 | 9,800 | 3,000 a | — | 390 | 22 | 300 | 57 | — | — | — | — | — | — | 11.04 | 6.24 | 4.80 | — |
| MW-6 | 1/9/1995 | 2,200 | 800 a | — | 74 | 12 | 400 | 39 | — | — | — | — | — | — | 11.04 | 4.58 | 6.46 | — |
| MW-6 | 4/11/1995 | 5,000 | 7,700 | — | 330 | 15 | 760 | 85 | — | — | — | — | — | — | 11.04 | 4.04 | 7.00 | — |
| MW-6 | 7/18/1995 | 4,200 | 1,700 | — | 320 | 11 | 490 | 22 | — | — | — | — | — | — | 11.04 | 5.01 | 6.03 | — |
| MW-6 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.04 | 5.86 | 5.18 | — |
| MW-6 | 1/9/1996 | 5,600 | 790 | — | 59 | <5 | 180 | 12 | 14,000 | — | — | — | — | — | 11.04 | 4.75 | 6.29 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 4/2/1996 | 1,500 | — | — | 12 | <5 | 170 | 9 | 1,900 | — | — | — | — | — | 11.04 | 3.82 | 7.22 | — |
| MW-6 | 10/3/1996 | 2,600 | 1,800 | — | 110 | <25 | <25 | <25 | 11,000 | — | — | — | — | — | 11.04 | 5.27 | 5.77 | 2.2 |
| MW-6 | 4/3/1997 | <2,500 | 650 | — | 30 | <25 | 32 | <25 | 10,000 | — | — | — | — | — | 11.04 | 4.42 | 6.62 | 2.0 |
| MW-6 | 10/8/1997 | 1,900 | 1,100 | — | 31 | <5.0 | 6.1 | <5.0 | 2,600 | — | — | — | — | — | 11.04 | 4.70 | 6.34 | 1.0 |
| MW-6 | 6/10/1998 | <1,000 | 1,500 | — | 17 | 12 | 14 | 88 | 14,000 | — | — | — | — | — | 11.04 | 4.36 | 6.68 | 0.4/0.4 |
| MW-6 | 12/30/1998 | 260 | 528 | — | <2.50 | <2.50 | <2.50 | <2.50 | 909 | — | — | — | — | — | 11.04 | 4.98 | 6.06 | 2.1/1.6 |
| MW-6 * | 6/25/1999 | <2,500 | — | — | <25.0 | <25.0 | <25.0 | <25.0 | 8,850 | 7,630 | — | — | — | — | 11.04 | 4.81 | 6.23 | 1.4/3.6 |
| MW-6 | 12/28/1999 | 526 | 416 | — | 7.60 | <1.00 | <1.00 | <1.00 | 1,510 | — | — | — | — | — | 11.04 | 5.17 | 5.87 | 1.8/2.0 |
| MW-6 | 5/31/2000 | 2,870 | 998 | — | 45.7 | 4.70 | 8.61 | <2.50 | 3,780 | — | — | — | — | — | 11.04 | 4.58 | 6.46 | 0.92/2.30 |
| MW-6 | 10/17/2000 | 2,370 | 944 a | — | 49.8 | 5.36 | <5.00 | <5.00 | 746 | — | — | — | — | — | 11.04 | 4.80 | 6.24 | 2.5/2.1 |
| MW-6 | 5/1/2001 | 3,000 | 706 | — | 2.72 | <2.50 | 4.46 | <2.50 | 473 | — | — | — | — | — | 11.04 | 4.75 | 6.29 | 2.2/1.6 |
| MW-6 | 5/29/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.04 | 4.86 | 6.18 | 2.0/1.3 |
| MW-6 | 11/5/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 11.04 | 5.73 | 5.31 | 0.6 |
| MW-6 | 11/7/2001 | 1,700 | 180 | — | 1.3 | 1.2 | 1.3 | 1.1 | — | 430 | — | — | — | — | 11.04 | 5.75 | 5.29 | 2.4/1.8 |
| MW-6 | 5/1/2002 | 1,400 | <300 | — | 2.0 | 0.61 | 4.3 | 0.68 | — | 220 | — | — | — | — | 11.04 | 4.47 | 6.57 | 2.5/2.0 |
| MW-6 | 7/16/2002 | 3,500 | <600 | — | 31 | 1.5 | 5.7 | 1.2 | — | 220 | — | — | — | — | 11.04 | 5.05 | 5.99 | 0.6/0.6 |
| MW-6 | 10/17/2002 | 3,000 | <700 | — | 27 | 1.7 | 2.9 | 1.8 | — | 340 | — | — | — | — | 10.59 | 5.80 | 4.79 | 1.2/1.1 |
| MW-6 | 1/21/2003 | 900 | <200 | — | 1.5 | <0.50 | 1.4 | <0.50 | — | 73 | — | — | — | — | 10.59 | 4.39 | 6.20 | 0.8/0.6 |
| MW-6 | 5/1/2003 | 700 a | 160 a | — | 0.58 | <0.50 | 0.82 | <1.0 | — | 71 | — | — | — | — | 10.59 | 4.19 | 6.40 | NA |
| MW-6 | 7/17/2003 | <1,200 | 220 a,f | — | <12 | <12 | <12 | <25 | — | 840 | — | — | — | — | 10.59 | 5.22 | 5.37 | NA |
| MW-6 | 10/2/2003 | <1,000 | 300 a | — | <10 | <10 | <10 | <20 | — | 1,500 | — | — | — | — | 10.59 | 5.86 | 4.73 | NA |
| MW-6 | 1/5/2004 | 520 | 140 a | — | <0.50 | 0.72 | <0.50 | <1.0 | — | 30 | — | — | — | — | 10.59 | 3.79 | 6.80 | NA |
| MW-6 | 4/1/2004 | 650 | 220 a | — | <0.50 | <0.50 | 0.54 | <1.0 | — | 130 | — | — | — | — | 10.59 | 4.28 | 6.31 | NA |
| MW-6 | 8/2/2004 | 1,600 | 500 a | <500 | <2.5 | <2.5 | <2.5 | <5.0 | — | 480 | <10 | <10 | <10 | 900 | 10.59 | 5.78 | 4.81 | NA |
| MW-6 | 11/2/2004 | 580 | 150 g | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | 55 | — | — | — | — | 10.59 | 4.73 | 5.86 | NA |
| MW-6 | 1/10/2005 | 620 | 230 g | <500 | <0.50 | <0.50 | 0.50 | <1.0 | — | 17 | — | — | — | — | 10.59 | 3.70 | 6.89 | NA |
| MW-6 | 4/13/2005 | 2,000 | 570 a,j,k | 520 j,k | 0.98 | 1.7 | 1.2 | 1.2 | — | 190 | — | — | — | — | 10.59 | 3.75 | 6.84 | NA |
| MW-6 | 7/20/2005 | 2,800 | 1,200 a | <500 | <2.0 | 2.1 | <2.0 | <4.0 | — | 320 | <8.0 | <8.0 | <8.0 | 1,800 | 10.59 | 5.95 | 4.64 | NA |
| MW-6 | 10/24/2005 | 2,000 | 1,300 a | <500 | <2.0 | <2.0 | <2.0 | <4.0 | — | 200 | — | — | — | 560 | 9.14 | 5.21 | 3.93 | NA |
| MW-6 | 1/4/2006 | 1,140 | 216 f | <100 f | <0.500 | <0.500 | <0.500 | <0.500 | — | 11.3 | — | — | — | 50.4 | 9.14 | 3.36 | 5.78 | NA |
| MW-6 | 7/26/2006 | 4,650 | 1,460 | 881 | 1.63 | 1.71 | 0.580 | 1.64 | — | 128 | <0.500 | <0.500 | <0.500 | 375 | 9.14 | 4.76 | 4.38 | NA |
| MW-6 | 1/2/2007 | 1,300 | 180 f | <100 f | 0.51 | 0.52 | <0.50 | <1.0 | — | 39 | — | — | — | 81 | 9.14 | 4.54 | 4.60 | NA |
| MW-6 | 7/12/2007 | 1,700 m | 540 f | <250 f | 0.31 n | 1.0 | 0.24 n | 0.94 n | — | 49 | <2.0 | <2.0 | <2.0 | 120 | 9.14 | 5.12 | 4.02 | NA |
| MW-6 | 1/10/2008 | 900 m | 200 f,o | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 4.0 | — | — | — | 11 | 9.14 | 4.33 | 4.81 | NA |
| MW-6 | 7/31/2008 | 740 | 110 f,o | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 12 | <2.0 | <2.0 | <2.0 | <10 | 9.14 | 4.95 | 4.19 | NA |
| MW-6 | 1/6/2009 | 480 | 120 f,o | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 4.0 | — | — | — | 11 | 9.14 | 4.80 | 4.34 | NA |
| MW-6 | 7/1/2009 | 1,200 | 190 f,o | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 24 | <2.0 | <2.0 | <2.0 | 85 | 9.14 | 4.94 | 4.20 | NA |

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 1/4/2010 | 390 | 63 f,o | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | 1.6 | — | — | — | 11 | 9.14 | 4.67 | 4.47 | NA |
| **MW-6** | **1/18/2011** | **160** | **820 q** | **—** | **<0.50** | **<0.50** | **<0.50** | **<1.0** | **—** | **<1.0** | **<1.0** | **<1.0** | **<1.0** | **<10** | **9.14** | **4.45** | **4.69** | **NA** |
| MW-7 | 5/23/1989 | 47,000 | 11,000 | — | 3,500 | 5,000 | 1,500 | 7,800 | — | — | — | — | — | — | 7.44 | 5.48 | 1.96 | — |
| MW-7 | 8/3/1989 | 68,000 | 22,000 | — | 6,200 | 6,600 | 3,600 | 8,800 | — | — | — | — | — | — | 7.44 | 4.22 | 3.22 | — |
| MW-7 | 12/15/1989 | 100,000 | 12,000 | — | 4,500 | 5,300 | 1,300 | 5,300 | — | — | — | — | — | — | 7.44 | 4.58 | 2.86 | — |
| MW-7 | 2/7/1990 | 96,000 | 8,100 | — | 15,000 | 15,000 | 2,500 | 14,000 | — | — | — | — | — | — | 7.44 | 5.34 | 2.10 | — |
| MW-7 | 4/18/1990 | 94,000 | 10,000 | — | 25,000 | 13,000 | 3,300 | 13,000 | — | — | — | — | — | — | 7.44 | 4.92 | 2.52 | — |
| MW-7 | 7/23/1990 | 84,000 | 12,000 | — | 3,800 | 26,000 | 13,000 | 3,000 | — | — | — | — | — | — | 7.44 | 4.99 | 2.45 | — |
| MW-7 | 9/27/1990 | 43,000 | ND | — | 25,000 | 6,100 | 2,400 | 9,000 | — | — | — | — | — | — | 7.44 | 6.16 | 1.28 | — |
| MW-7 | 1/3/1991 | 78,000 | 3,100 | — | 26,000 | 16,000 | 3,000 | 14,000 | — | — | — | — | — | — | 7.44 | 4.96 | 2.48 | — |
| MW-7 | 4/10/1991 | 140,000 | 1,800 | — | 26,000 | 16,000 | 2,200 | 14,000 | — | — | — | — | — | — | 7.44 | 4.13 | 3.31 | — |
| MW-7 | 7/12/1991 | 79,000 | 1,100 | — | 7,700 | 7,200 | 2,300 | 10,000 | — | — | — | — | — | — | 7.44 | 4.98 | 2.46 | — |
| MW-7 | 10/8/1991 | 55,000 | 390 a | — | 29,000 | 7,500 | 1,800 | 9,300 | — | — | — | — | — | — | 7.44 | 5.48 | 1.96 | — |
| MW-7 | 2/6/1992 | 63,000 | 9,600 a | — | 16,000 | 8,700 | 1,600 | 7,400 | — | — | — | — | — | — | 7.44 | 5.05 | 2.39 | — |
| MW-7 | 5/4/1992 | 67,000 | 9,800 a | — | 22,000 | 13,000 | 1,800 | 9,400 | — | — | — | — | — | — | 7.44 | 4.43 | 3.01 | — |
| MW-7 | 7/28/1992 | 85,000 | 13,000 a | — | 26,000 | 17,000 | 2,900 | 15,000 | — | — | — | — | — | — | 7.44 | 4.88 | 2.56 | — |
| MW-7 | 10/27/1992 | 63,000 | 1,900 a | — | 21,000 | 11,000 | 3,000 | 11,000 | — | — | — | — | — | — | 7.44 | 5.39 | 2.05 | — |
| MW-7 | 1/14/1993 | 120,000 | 2,300 a | — | 28,000 | 21,000 | 1,600 | 15,000 | — | — | — | — | — | — | 7.44 | 4.26 | 3.18 | — |
| MW-7 | 4/23/1993 | 60,000 | 12,000 a | — | 17,000 | 3,700 | 2,200 | 11,000 | — | — | — | — | — | — | 7.44 | 4.04 | 3.40 | — |
| MW-7 (D) | 4/23/1993 | 50,000 | 14,000 a | — | 17,000 | 4,200 | 2,200 | 11,000 | — | — | — | — | — | — | 7.44 | 4.04 | 3.40 | — |
| MW-7 | 7/20/1993 | 47,000 | 13,000 | — | 23,000 | 9,900 | 2,200 | 12,000 | — | — | — | — | — | — | 10.28 | 4.36 | 5.92 | — |
| MW-7 | 10/18/1993 | 44,000 | 10,000 a | — | 22,000 | 3,800 | 2,600 | 10,000 | — | — | — | — | — | — | 10.28 | 5.14 | 5.14 | — |
| MW-7 | 1/6/1994 | 65,000 | 5.200 a | — | 16,000 | 4,900 | 1,900 | 8,500 | — | — | — | — | — | — | 10.28 | 4.83 | 5.45 | — |
| MW-7 | 4/12/1994 | 68,000 | 3,400 | — | 12,000 | 2,000 | 580 | 6,400 | — | — | — | — | — | — | 10.28 | 4.24 | 6.04 | — |
| MW-7 | 7/25/1994 | 63,000 | 4,200 a | — | 16,000 | 5,800 | 300 | 8,300 | — | — | — | — | — | — | 10.28 | 4.58 | 5.70 | — |
| MW-7 | 10/25/1994 | 46,000 | 3,800 a | — | 16,000 | 3,700 | 1,200 | 7,300 | — | — | — | — | — | — | 10.28 | 5.07 | 5.21 | — |
| MW-7 | 1/9/1995 | 62,000 | 3,300 a | — | 24,000 | 8,500 | 1,100 | 9,400 | — | — | — | — | — | — | 10.28 | 3.38 | 6.90 | — |
| MW-7 (D) | 1/11/1995 | 57,000 | 3,200 a | — | 9,500 | 7,900 | 620 | 8,000 | — | — | — | — | — | — | 10.28 | 3.38 | 6.90 | — |
| MW-7 | 4/11/1995 | 53,000 | 7,000 | — | 13,000 | 4,200 | 1,500 | 7,700 | — | — | — | — | — | — | 10.28 | 3.52 | 6.76 | — |
| MW-7 (D) | 4/12/1995 | 55,000 | 7,600 | — | 11,000 | 3,700 | 1,300 | 6,400 | — | — | — | — | — | — | 10.28 | 3.52 | 6.76 | — |
| MW-7 | 7/18/1995 | 95,000 | 2,700 | — | 24,000 | 8,000 | 2,100 | 12,000 | — | — | — | — | — | — | 10.28 | 4.70 | 5.58 | — |
| MW-7 | 10/18/1995 | Well abandoned | | — | — | — | — | — | — | — | — | — | — | — | 10.28 | 5.25 | 5.03 | — |
| MW-8 | 5/23/1989 | ND | 100 | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 6.62 | 1.17 | — |
| MW-8 | 8/3/1989 | ND | 75 | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 6.62 | 1.17 | — |
| MW-8 | 12/15/1989 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 6.71 | 1.08 | — |

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8 | 3/8/1990 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 4.95 | 2.84 | — |
| MW-8 | 4/18/1990 | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.79 | 6.40 | 1.89 | — |
| MW-8 | 7/23/1990 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 6.62 | 1.17 | — |
| MW-8 | 9/27/1990 | ND | 1,100 | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 6.98 | 0.81 | — |
| MW-8 | 1/3/1991 | ND | ND | — | 1.3 | ND | ND | ND | — | — | — | — | — | — | 7.79 | 7.03 | 0.76 | — |
| MW-8 | 4/10/1991 | 50 | ND | — | 0.7 | 1.1 | 0.8 | 1 | — | — | — | — | — | — | 7.79 | 4.40 | 3.39 | — |
| MW-8 | 7/12/1991 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 6.80 | 0.99 | — |
| MW-8 | 10/8/1991 | ND | ND | — | 1.4 | ND | ND | ND | — | — | — | — | — | — | 7.79 | 7.56 | 0.23 | — |
| MW-8 | 2/6/1992 | ND | 60 a | — | ND | 0.7 | ND | ND | — | — | — | — | — | — | 7.79 | 6.94 | 0.85 | — |
| MW-8 | 5/4/1992 | ND | 210 a | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 5.86 | 1.93 | — |
| MW-8 | 7/28/1992 | 51 | ND | — | ND | ND | 1 | 0.6 | — | — | — | — | — | — | 7.79 | 6.94 | 0.85 | — |
| MW-8 | 10/27/1992 | ND | ND | — | ND | 6.6 | ND | ND | — | — | — | — | — | — | 7.79 | 7.83 | -0.04 | — |
| MW-8 | 1/14/1993 | ND | 64 a | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 3.60 | 4.19 | — |
| MW-8 (D) | 1/14/1993 | ND | — | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 3.60 | 4.19 | — |
| MW-8 | 4/23/1993 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.79 | 4.12 | 3.67 | — |
| MW-8 | 7/20/1993 | ND | ND | — | 0.7 | 0.7 | 0.8 | 4.1 | — | — | — | — | — | — | 10.61 | 6.38 | 4.23 | — |
| MW-8 | 10/18/1993 | ND | ND | — | ND | 800 | ND | ND | — | — | — | — | — | — | 10.61 | 7.47 | 3.14 | — |
| MW-8 | 1/6/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.61 | 7.20 | 3.41 | — |
| MW-8 | 4/12/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.61 | 6.16 | 4.45 | — |
| MW-8 | 7/25/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.61 | 6.94 | 3.67 | — |
| MW-8 | 10/25/1994 | ND | ND | — | ND | 1 | ND | ND | — | — | — | — | — | — | 10.61 | 7.43 | 3.18 | — |
| MW-8 | 1/9/1995 | ND | 70 a | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.61 | 3.98 | 6.63 | — |
| MW-8 | 4/11/1995 | ND | 78 | — | 0.63 | 1.3 | ND | 0.75 | — | — | — | — | — | — | 10.61 | 4.12 | 6.49 | — |
| MW-8 | 7/18/1995 | ND | 130 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.61 | 5.21 | 5.40 | — |
| MW-8 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 5.58 | 5.03 | — |
| MW-8 | 1/9/1996 | <50 | ND | — | <0.5 | <0.5 | <0.5 | <0.5 | ND | — | — | — | — | — | 10.61 | 5.09 | 5.52 | — |
| MW-8 | 4/2/1996 | <50 | — | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 10.61 | 3.42 | 7.19 | — |
| MW-8 | 10/3/1996 | <50 | <69 | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 10.61 | 4.30 | 6.31 | — |
| MW-8 | 4/3/1997 | <50 | 62 | — | <0.50 | <0.50 | <0.50 | 0.91 | <2.5 | — | — | — | — | — | 10.61 | 4.58 | 6.03 | 2.6 |
| MW-8 | 10/8/1997 | <50 | 57 | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 10.61 | 3.00 | 7.61 | 3.6 |
| MW-8 | 6/10/1998 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 2.88 | 7.73 | — |
| MW-8 | 12/30/1998 | <50.0 | <50.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <2.00 | — | — | — | — | — | 10.61 | 5.38 | 5.23 | 0.8/0.9 |
| MW-8 | 6/25/1999 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 4.53 | 6.08 | — |
| MW-8 | 12/28/1999 | <50.0 | <50.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | — | — | — | — | — | 10.61 | 4.93 | 5.68 | 1.0/0.9 |
| MW-8 | 5/31/2000 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 4.02 | 6.59 | — |
| MW-8 | 10/17/2000 | <50.0 | 143 a | — | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | — | — | — | — | — | 10.61 | 3.10 | 7.51 | 4.0/4.1 |
| MW-8 | 5/1/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 4.12 | 6.49 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8 | 11/5/2001 | <50 | <50 | — | <0.50 | 0.99 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 10.61 | 5.00 | 5.61 | 0.6/1.3 |
| MW-8 | 5/1/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 10.61 | 3.25 | 7.36 | 0.6/3.6 |
| MW-8 | 7/16/2002 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 3.64 | 6.97 | — |
| MW-8 | 10/17/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 10.18 | 4.53 | 5.65 | 3.3/2.2 |
| MW-8 | 1/21/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 3.98 | 6.20 | — |
| MW-8 | 5/1/2003 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <5.0 | — | — | — | — | 10.18 | 4.00 | 6.18 | — |
| MW-8 | 7/17/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 4.37 | 5.81 | — |
| MW-8 | 10/2/2003 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 10.18 | 4.56 | 5.62 | — |
| MW-8 | 1/5/2004 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 2.90 | 7.28 | — |
| MW-8 | 4/1/2004 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 10.18 | 3.83 | 6.35 | — |
| MW-8 | 8/2/2004 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 5.35 | 4.83 | — |
| MW-8 | 11/2/2004 | <50 | <50 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 10.18 | 4.28 | 5.90 | — |
| MW-8 | 1/10/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 2.44 | 7.74 | — |
| MW-8 | 4/13/2005 | <50 i | 120 h | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 10.18 | 2.75 | 7.43 | — |
| MW-8 | 7/20/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 4.95 | 5.23 | — |
| MW-8 | 10/24/2005 | <50 | <50 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 10.18 | 3.94 | 6.24 | — |
| MW-8 | 1/4/2006 | <50.0 | 224 f | 206 f | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | <10.0 | 10.18 | 1.87 | 8.31 | — |
| MW-8 | 7/26/2006 | <50.0 | <93.9 | 315 | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | — | 10.18 | 4.07 | 6.11 | — |
| MW-8 | 1/2/2007 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 3.94 | 6.24 | — |
| MW-8 | 7/12/2007 | <50 m | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 10.18 | 4.08 | 6.10 | — |
| MW-8 | 1/10/2008 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 3.00 | 7.18 | — |
| MW-8 | 7/31/2008 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 10.18 | 4.24 | 5.94 | — |
| MW-8 | 1/6/2009 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 4.41 | 5.77 | — |
| MW-8 | 7/1/2009 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 10.18 | 4.50 | 5.68 | — |
| MW-8 | 1/4/2010 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.18 | 4.46 | 5.72 | — |
| MW-9 | 8/3/1989 | 47,000 | 12,000 | — | 5,600 | 6,600 | 1,500 | 8,500 | — | — | — | — | — | — | 7.63 | 5.78 | 1.85 | — |
| MW-9 | 12/15/1989 | 88,000 | 9,200 | — | 4,300 | 5,400 | 140 | 5,600 | — | — | — | — | — | — | 7.63 | 5.24 | 2.39 | — |
| MW-9 | 2/7/1990 | 50,000 | 7,400 | — | 1,800 | 1,400 | 3,200 | 1,800 | — | — | — | — | — | — | 7.63 | 5.23 | 2.40 | — |
| MW-9 | 4/18/1990 | 50,000 | 7,500 | — | 14,000 | 11,000 | 730 | 10,000 | — | — | — | — | — | — | 7.63 | 5.34 | 2.29 | — |
| MW-9 | 7/23/1990 | 62,000 | 3,200 | — | 19,000 | 16,000 | 950 | 15,000 | — | — | — | — | — | — | 7.63 | 5.65 | 1.98 | — |
| MW-9 | 9/27/1990 | 30,000 | 2,700 | — | 16,000 | 6,500 | 980 | 11,000 | — | — | — | — | — | — | 7.63 | 5.96 | 1.67 | — |
| MW-9 | 1/3/1991 | 34,000 | 2,500 | — | 9,200 | 3,200 | 770 | 7,000 | — | — | — | — | — | — | 7.63 | 6.23 | 1.40 | — |
| MW-9 | 4/10/1991 | 66,000 | 2,200 | — | 17,000 | 13,000 | 1,400 | 14,000 | — | — | — | — | — | — | 7.63 | 4.65 | 2.98 | — |
| MW-9 | 7/12/1991 | 40,000 | 2,000 | — | 7,700 | 3,200 | 1,100 | 9,400 | — | — | — | — | — | — | 7.63 | 5.65 | 1.98 | — |
| MW-9 | 10/8/1991 | 20,000 | 4,700 a | — | 11,000 | 640 | 240 | 6,000 | — | — | — | — | — | — | 7.63 | 6.08 | 1.55 | — |
| MW-9 | 2/6/1992 | 36,000 | 6,600 a | — | 11,000 | 490 | 1,100 | 6,700 | — | — | — | — | — | — | 7.63 | 5.92 | 1.71 | — |

**TABLE 1**

**GROUNDWATER DATA**
**SHELL-BRANDED SERVICE STATION**
**285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-9 | 5/4/1992 | 31,000 | 5,800 a | — | 11,000 | 1,700 | 1,200 | 8,700 | — | — | — | — | — | — | 7.63 | 4.80 | 2.83 | — |
| MW-9 | 7/28/1992 | 50,000 | 14,000 | — | 17,000 | 1,200 | 1,500 | 12,000 | — | — | — | — | — | — | 7.63 | 5.61 | 2.02 | — |
| MW-9 | 10/27/1992 | 43,000 | 880 a | — | 15,000 | 680 | 1,700 | 8,100 | — | — | — | — | — | — | 7.63 | 6.24 | 1.39 | — |
| MW-9 | 1/14/1993 | 52,000 | 730 a | — | 9,600 | 1,100 | 1,100 | 7,000 | — | — | — | — | — | — | 7.63 | 4.95 | 2.68 | — |
| MW-9 | 4/23/1993 | 45,000 | 8,000 a | — | 11,000 | 1,400 | 1,500 | 10,000 | — | — | — | — | — | — | 7.63 | 4.54 | 3.09 | — |
| MW-9 | 7/20/1993 | 25,000 | 5,100 | — | 10,000 | 320 | 1,100 | 7,100 | — | — | — | — | — | — | 10.48 | 5.25 | 5.23 | — |
| MW-9 | 10/18/1993 | 32,000 | 4,900 a | — | 14,000 | 530 | 2,000 | 10,000 | — | — | — | — | — | — | 10.48 | 6.00 | 4.48 | — |
| MW-9 | 1/6/1994 | 41,000 | 7,700 a | — | 15,000 | 810 | 1,400 | 9,000 | — | — | — | — | — | — | 10.48 | 5.62 | 4.86 | — |
| MW-9 (D) | 1/6/1994 | 43,000 | 8,300 a | — | 15,000 | 920 | 1,300 | 8,000 | — | — | — | — | — | — | 10.48 | 5.62 | 4.86 | — |
| MW-9 | 4/12/1994 | 39,000 | 2,000 | — | 8,300 | ND | ND | 4,000 | — | — | — | — | — | — | 10.48 | 4.31 | 6.17 | — |
| MW-9 | 7/25/1994 | 22,000 | 3,600 a | — | 7,500 | 150 | ND | 4,100 | — | — | — | — | — | — | 10.48 | 5.43 | 5.05 | — |
| MW-9 | 10/25/1994 | 31,000 | 3,200 a | — | 13,000 | 240 | 1,000 | 8,500 | — | — | — | — | — | — | 10.48 | 6.00 | 4.48 | — |
| MW-9 (D) | 10/26/1994 | 31,000 | 3,500 a | — | 13,000 | 220 | 1,100 | 8,300 | — | — | — | — | — | — | 10.48 | 6.00 | 4.48 | — |
| MW-9 | 1/9/1995 | 4,800 | 2,300 a | — | 1,200 | 510 | 42 | 1,400 | — | — | — | — | — | — | 10.48 | 4.26 | 6.22 | — |
| MW-9 | 4/11/1995 | 20,000 | 3,400 | — | 5,100 | 460 | 400 | 3,400 | — | — | — | — | — | — | 10.48 | 4.08 | 6.40 | — |
| MW-9 | 7/18/1995 | 43,000 | 2,900 | — | 12,000 | 1,800 | 960 | 9,100 | — | — | — | — | — | — | 10.48 | 5.07 | 5.41 | — |
| MW-9 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.48 | 5.82 | 4.66 | — |
| MW-9 | 1/9/1996 | 64,000 | 2,800 | — | 12,000 | 5,400 | 1,800 | 10,000 | 2100 | — | — | — | — | — | 10.48 | 4.36 | 6.12 | — |
| MW-9 | 4/2/1996 | 39,000 | — | — | 10,000 | 100 | 520 | 4,100 | <500 | — | — | — | — | — | 10.48 | 3.86 | 6.62 | — |
| MW-9 | 10/3/1996 | 46,000 | 3,100 | — | 12,000 | 180 | 1,400 | 6,700 | 2,300 | — | — | — | — | — | 10.48 | 4.90 | 5.58 | 1.4 |
| MW-9 | 4/3/1997 | 36,000 | 2,300 | — | 9,700 | 140 | 580 | 3,900 | <500 | — | — | — | — | — | 10.48 | 3.98 | 6.50 | 1.8 |
| MW-9 | 10/8/1997 | 34,000 | 3,500 | — | 6,900 | <100 | 830 | 4,500 | <125 | — | — | — | — | — | 10.48 | 4.17 | 6.31 | 0.8 |
| MW-9 | 6/10/1998 | 20,000 | 2,500 | — | 9,900 | 250 | 3,100 | 170 | 460 | — | — | — | — | — | 10.48 | 3.84 | 6.64 | 0.3/0.4 |
| MW-9 | 12/30/1998 | 30,100 | 1,900 | — | 8,500 | 166 | 603 | 3,340 | <100 | — | — | — | — | — | 10.48 | 4.72 | 5.76 | 1.1/1.2 |
| MW-9 * | 6/25/1999 | 26,300 | — | — | 8,090 | 73.5 | 409 | 2,730 | <100 | — | — | — | — | — | 10.48 | 4.47 | 6.01 | 1.2/2.4 |
| MW-9 | 12/28/1999 | 4,130 | 839 | — | 1,260 | 57.9 | 103 | 213 | 1,470 | — | — | — | — | — | 10.48 | 4.82 | 5.66 | 1.0/1.1 |
| MW-9 | 5/31/2000 | 8,210 | 1,300 | — | 9,290 | 62.3 | 141 | 908 | 565 | — | — | — | — | — | 10.48 | 3.87 | 6.61 | 2.8/c |
| MW-9 | 10/17/2000 | 19,000 | 1,510 a | — | 5,420 | 54.5 | 479 | 2,680 | <250 | — | — | — | — | — | 10.48 | 3.87 | 6.61 | 3.0/3.5 |
| MW-9 | 5/1/2001 | 24,300 | 976 | — | 11,200 | 52.9 | 159 | 1,610 | <250 | — | — | — | — | — | 10.48 | 4.44 | 6.04 | 1.6/1.0 |
| MW-9 | 5/29/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.48 | 3.99 | 6.49 | 1.9/1.5 |
| MW-9 | 11/5/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.48 | 5.41 | 5.07 | 0.7 |
| MW-9 | 11/7/2001 | 25,000 | <1,000 | — | 7,300 | 85 | 630 | 4,100 | — | <250 | — | — | — | — | 10.48 | 5.60 | 4.88 | 1.4/1.1 |
| MW-9 | 5/1/2002 | 27,000 | <700 | — | 11,000 | 79 | 260 | 1,300 | — | <500 | — | — | — | — | 10.48 | 3.38 | 7.10 | 2.9/1.1 |
| MW-9 | 7/16/2002 | 29,000 | <700 | — | 12,000 | <50 | 74 | 810 | — | <500 | — | — | — | — | 10.48 | 4.04 | 6.44 | 0.7/0.4 |
| MW-9 | 10/17/2002 | 15,000 | <800 | — | 10,000 | 31 | 36 | 490 | — | 53 | — | — | — | — | 10.07 | 4.92 | 5.15 | 1.0/1.2 |
| MW-9 | 1/21/2003 | 8,500 | <400 | — | 3,100 | 39 | 190 | 590 | — | <200 | — | — | — | — | 10.07 | 4.52 | 5.55 | 0.4/0.8 |
| MW-9 | 5/1/2003 | 16,000 a | 1,600 a | — | 4,900 | <100 | <100 | 1,500 | — | <1,000 | — | — | — | — | 10.07 | 4.05 | 6.02 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-9 | 7/17/2003 | 14,000 | 1,300 a,f | — | 9,900 | 130 | <120 | 2,300 | — | <120 | — | — | — | — | 10.07 | 4.82 | 5.25 | — |
| MW-9 | 10/2/2003 | 13,000 | 3,100 a | — | 8,500 | 190 | 770 | 5,100 | — | <100 | — | — | — | — | 10.07 | 5.17 | 4.90 | — |
| MW-9 | 1/5/2004 | 37,000 | 1,500 a | — | 15,000 | 250 | 750 | 3,800 | — | <100 | — | — | — | — | 10.07 | 3.94 | 6.13 | — |
| MW-9 | 4/1/2004 | 14,000 | 1,800 a | — | 6,800 | 80 | 230 | 1,800 | — | <50 | — | — | — | — | 10.07 | 4.24 | 5.83 | — |
| MW-9 | 8/2/2004 | 12,000 | 710 g | <500 | 8,200 | <50 | 66 | 650 | — | <50 | <200 | <200 | <200 | <500 | 10.07 | 5.10 | 4.97 | — |
| MW-9 | 11/2/2004 | 15,000 | 1,500 g | <500 | 9,300 | 73 | 240 | 1,400 | — | 70 | — | — | — | — | 10.07 | 4.21 | 5.86 | — |
| MW-9 | 1/10/2005 | 28,000 | 1,700 g | <500 | 7,400 | 1,100 | 1,400 | 5,400 | — | <50 | — | — | — | — | 10.07 | 3.45 | 6.62 | — |
| MW-9 | 4/13/2005 | 55,000 | 5,100 g | 690 | 15,000 | 3,300 | 2,800 | 12,000 | — | <50 | — | — | — | — | 10.07 | 3.53 | 6.54 | — |
| MW-9 | 7/20/2005 | 27,000 | 6,700 g | <1,000 | 5,100 | 320 | 900 | 3,200 | — | <50 | <200 | <200 | <200 | <500 | 10.07 | 5.75 | 4.32 | — |
| MW-9 | 10/24/2005 | 25,000 | 4,200 g | <500 | 11,000 | 680 | 890 | 3,900 | — | <50 | — | — | — | — | 10.04 | 4.42 | 5.62 | — |
| MW-9 | 1/4/2006 | 39,600 | 3,400 f | 427 f | 5,800 | 636 | 187 | 6,130 | — | 73.1 | — | — | — | 139 | 10.04 | 3.10 | 6.94 | — |
| MW-9 | 7/26/2006 | 41,000 | 1,580 | 685 | 11,800 | 421 | 979 | 2,520 | — | 54.2 | <0.500 | <0.500 | <0.500 | 85.1 | 10.04 | 4.45 | 5.59 | — |
| MW-9 | 1/2/2007 | 19,000 | 740 f | 100 f | 6,900 | 300 | 660 | 2,500 | — | 30 | — | — | — | — | 10.04 | 4.81 | 5.23 | — |
| MW-9 | 7/12/2007 | 13,000 m | 730 f | <250 f | 6,100 | 44 n | 100 | 561 n | — | 29 n | <100 | <100 | <100 | <500 | 10.04 | 4.50 | 5.54 | — |
| MW-9 | 1/10/2008 | 22,000 m,o | 850 f,o | <250 f | 8,800 | 180 | 270 | 1,330 | — | 12 | — | — | — | 47 | 10.04 | 4.32 | 5.72 | — |
| MW-9 | 07/31/2008 p | 170 | 600 f,o | <250 f | 69 | <1.0 | <1.0 | 1.8 | — | <1.0 | <2.0 | <2.0 | <2.0 | <10 | 10.04 | 3.78 | 6.26 | — |
| MW-9 | 8/29/2008 | 20,000 | 2,200 f,o | 1,600 f,o | 5,900 | <100 | 450 | 2,500 | — | <100 | <200 | <200 | <200 | <1,000 | 10.04 | 4.24 | 5.80 | — |
| MW-9 | 1/6/2009 | 11,000 | 1,500 f,o | 2,100 f | 5,500 | 41 | 110 | 920 | — | 29 | — | — | — | — | 10.04 | 4.70 | 5.34 | — |
| MW-9 | 7/1/2009 | 6,700 | 250 f,o | <250 f | 2,900 | <25 | <25 | 220 | — | <25 | <50 | <50 | <50 | <250 | 10.04 | 4.67 | 5.37 | — |
| MW-9 | 1/4/2010 | 8,300 | 470 f,o | 1,100 f, o | 3,200 | <50 | <50 | 110 | — | <50 | — | — | — | <500 | 10.04 | 4.87 | 5.17 | — |
| **MW-9** | **1/18/2011** | **6,800** | **1,200 q** | **630 q** | **2,800** | **38** | **240** | **590** | **—** | **<50** | **<50** | **<50** | **<50** | **<500** | **10.04** | **3.92** | **6.12** | **—** |
| MW-10 | 12/15/1989 | ND | 3,100 | — | 1,500 | ND | ND | ND | — | — | — | — | — | — | 7.45 | 6.33 | 0.82 | — |
| MW-10 | 3/8/1990 | 25,000 | 1,800 | — | 17,000 | 330 | 2,100 | 1,400 | — | — | — | — | — | — | 7.45 | 5.41 | 2.00 | — |
| MW-10 | 4/18/1990 | 23,000 | 3,600 | — | 15,000 | 1,200 | 190 | 3,300 | — | — | — | — | — | — | 7.45 | 5.60 | 1.85 | — |
| MW-10 | 7/23/1990 | 18,000 | 1,900 | — | 12,000 | 380 | ND | 1,400 | — | — | — | — | — | — | 7.45 | 5.81 | 1.64 | — |
| MW-10 | 9/27/1990 | 9,500 | 430 | — | 13,000 | 100 | 1,800 | 230 | — | — | — | — | — | — | 7.45 | 6.64 | 0.81 | — |
| MW-10 | 1/3/1991 | 4,300 | 630 | — | 3,700 | 10 | ND | 110 | — | — | — | — | — | — | 7.45 | 6.96 | 0.49 | — |
| MW-10 | 4/10/1991 | 45,000 | 1,400 | — | 16,000 | 4,600 | 3,000 | 6,900 | — | — | — | — | — | — | 7.45 | 4.70 | 2.75 | — |
| MW-10 | 7/12/1991 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 7.45 | 5.90 | 1.55 | — |
| MW-10 | 10/8/1991 | 3,800 | 1,500 a | — | 13,000 | 82 | 9 | 500 | — | — | — | — | — | — | 7.45 | 6.68 | 0.77 | — |
| MW-10 | 2/6/1992 | 22,000 | 1,600 a | — | 12,000 | ND | 600 | 170 | — | — | — | — | — | — | 7.45 | 7.04 | 0.41 | — |
| MW-10 | 5/4/1992 | 39,000 | 8,000 a | — | 14,000 | 5,000 | 1,800 | 5,000 | — | — | — | — | — | — | 7.45 | 4.69 | 2.76 | — |
| MW-10 | 7/28/1992 | 38,000 | 8,700 a | — | 17,000 | 2,800 | 1,500 | 4,000 | — | — | — | — | — | — | 7.45 | 6.00 | 1.45 | — |
| MW-10 | 10/27/1992b | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.45 | — | — | — |
| MW-10 | 1/14/1993 | 26,000 | 950 a | — | 10,000 | ND | ND | 160 | — | — | — | — | — | — | 7.45 | 6.07 | 1.38 | — |
| MW-10 | 4/23/1993 | 80,000 | 1,900 a | — | 21,000 | 13,000 | 3,400 | 12,000 | — | — | — | — | — | — | 7.45 | 4.14 | 3.31 | — |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-10 | 7/20/1993 | 31,000 | 4,800 | — | 14,000 | 4,200 | 1,700 | 5,500 | — | — | — | — | — | — | 10.61 | 5.62 | 4.99 | — |
| MW-10 | 10/18/1993 | 13,000 | 1,200 a | — | 8,600 | 220 | ND | 450 | — | — | — | — | — | — | 10.61 | 6.43 | 4.18 | — |
| MW-10 | 1/6/1994 | 16,000 | 670 a | — | 9,700 | <125 | <125 | 210 | — | — | — | — | — | — | 10.61 | 6.74 | 3.87 | — |
| MW-10 | 4/12/1994 | 16,000 | 860 | — | 5,600 | ND | ND | ND | — | — | — | — | — | — | 10.61 | 5.98 | 4.63 | — |
| MW-10 | 7/25/1994 | 2,300 | 2,100 a | — | 1,400 | 26 | 25 | 51 | — | — | — | — | — | — | 10.61 | 6.31 | 4.30 | — |
| MW-10 | 10/25/1994 | 1,400 | 1,000 a | — | 290 | 5 | 2 | 38 | — | — | — | — | — | — | 10.61 | 6.64 | 3.97 | — |
| MW-10 | 1/9/1995 | 16,000 | 2,300 a | — | 7,500 | 1,400 | 230 | 1,500 | — | — | — | — | — | — | 10.61 | 5.70 | 4.91 | — |
| MW-10 | 4/11/1995 | 54,000 | 5,000 | — | 13,000 | 4,500 | 1,500 | 4,500 | — | — | — | — | — | — | 10.61 | 5.82 | 4.79 | — |
| MW-10 | 7/18/1995 | 72,000 | 2,600 | — | 20,000 | 7,200 | 2,800 | 9,000 | — | — | — | — | — | — | 10.61 | 6.79 | 3.82 | — |
| MW-10 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 5.31 | 5.30 | — |
| MW-10 | 1/9/1996 | 32,000 | 2,100 | — | 8,000 | 1,600 | 880 | 3,200 | 12,000 | — | — | — | — | — | 10.61 | 5.92 | 4.69 | — |
| MW-10 | 4/2/1996 | 68,000 | — | — | 9,100 | 2,300 | 1,100 | 3,700 | 3,300 | — | — | — | — | — | 10.61 | 5.43 | 5.18 | — |
| MW-10 | 10/3/1996 | 33,000 | 2,900 | — | 11,000 | 1,300 | 830 | 2,400 | 7,300 | — | — | — | — | — | 10.61 | 6.07 | 4.54 | 1.7 |
| MW-10 (D) | 10/3/1996 | 40,000 | 3,300 | — | 12,000 | 1,700 | 1,100 | 3,100 | 6,500 | — | — | — | — | — | 10.61 | 6.07 | 4.54 | 1.7 |
| MW-10 | 4/3/1997 | 36,000 | 3,400 | — | 12,000 | 2,300 | 1,400 | 4,500 | 2,300 | — | — | — | — | — | 10.61 | 3.45 | 7.16 | 1.8 |
| MW-10 (D) | 4/3/1997 | 52,000 | 3,000 | — | 12,000 | 2,300 | 1,400 | 4,500 | 2,100 | — | — | — | — | — | 10.61 | 3.45 | 7.16 | 1.8 |
| MW-10 | 10/8/1997 | 20,000 | 3,100 | — | 7,500 | 420 | 470 | 1,300 | 1,500 | — | — | — | — | — | 10.61 | 3.72 | 6.89 | 1.2 |
| MW-10 | 6/10/1998 | 48,000 | 2,500 | — | 14,000 | 2,600 | 1,500 | 4,800 | 1,800 | — | — | — | — | — | 10.61 | 4.00 | 6.61 | 0.7/0.5 |
| MW-10 | 12/30/1998 | 17,800 | 2,820 | — | 6,000 | 136 | 344 | 639 | 1,250 | — | — | — | — | — | 10.61 | 5.26 | 5.35 | 1.0/0.7 |
| MW-10 * | 6/25/1999 | 17,600 | — | — | 6,150 | 212 | 287 | 687 | 1,740 | — | — | — | — | — | 10.61 | 4.49 | 6.12 | 0.9/2.5 |
| MW-10 | 12/28/1999 | 10,800 | 1,400 | — | 3,370 | 155 | 321 | 626 | 3,740 | — | — | — | — | — | 10.61 | 4.87 | 5.74 | 1.2/1.4 |
| MW-10 | 5/31/2000 | 3,020 | 2,270 | — | 1,080 | 34.3 | 118 | 251 | 775 | — | — | — | — | — | 10.61 | 3.48 | 7.13 | 2.8/3.9 |
| MW-10 | 10/17/2000 | 15,500 | 1,750 a | — | 7,450 | 54.7 | 387 | 308 | 3,840 | 4,300 | — | — | — | — | 10.61 | 4.25 | 6.36 | 2.3/3.0 |
| MW-10 | 5/1/2001 | 27,900 | 2,260 | — | 9,920 | 1,050 | 1,020 | 2,370 | 2,180 | — | — | — | — | — | 10.61 | 5.40 | 5.21 | 2.0/1.1 |
| MW-10 | 5/29/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 3.74 | 6.87 | 3.70/1.8 |
| MW-10 | 11/5/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.61 | 6.08 | 4.53 | 0.6 |
| MW-10 | 11/7/2001 | 14,000 | 360 | — | 5,300 | 260 | 430 | 810 | — | 1,700 | — | — | — | — | 10.61 | 5.45 | 5.16 | 1.8/1.0 |
| MW-10 | 5/1/2002 | 79,000 | <1,500 | — | 16,000 | 4,400 | 3,300 | 8,800 | — | 890 | — | — | — | — | 10.61 | 4.62 | 5.99 | 4.0/0.5 |
| MW-10 | 7/16/2002 | 21,000 | <1,000 | — | 6,500 | 350 | 460 | 1,000 | — | 1,200 | — | — | — | — | 10.61 | 5.80 | 4.81 | 0.5/1.5 |
| MW-10 | 10/17/2002 | 17,000 | <1,800 | — | 5,800 | 290 | 520 | 1,100 | — | 980 | — | — | — | — | 9.81 | 5.27 | 4.54 | 0.8/1.2 |
| MW-10 | 1/21/2003 | 52,000 | <2,000 | — | 13,000 | 2,000 | 2,100 | 4,800 | — | <1,000 | — | — | — | — | 9.81 | 5.72 | 4.09 | 0.3/0.6 |
| MW-10 | 5/1/2003 | 40,000 | 3,800 a | — | 13,000 | 1,700 | 2,200 | 5,000 | — | 2,900 | — | — | — | — | 9.81 | 4.29 | 5.52 | — |
| MW-10 | 7/17/2003 | 13,000 | 1,700 a,f | — | 7,200 | 250 | 740 | 1,500 | — | 2,400 | — | — | — | — | 9.81 | 5.05 | 4.76 | — |
| MW-10 | 10/2/2003 | <5,000 | 1,400 a | — | 2,700 | <50 | 56 | <100 | — | 2,800 | — | — | — | — | 9.81 | 5.46 | 4.35 | — |
| MW-10 | 1/5/2004 | 77,000 | 2,300 a | — | 21,000 | 4,200 | 3,900 | 8,500 | — | 1,900 | — | — | — | — | 9.81 | 3.52 | 6.29 | — |
| MW-10 | 4/1/2004 | 33,000 | 3,100 a | — | 11,000 | 1,000 | 1,600 | 3,600 | — | 5,200 | — | — | — | — | 9.81 | 4.12 | 5.69 | — |
| MW-10 | 8/2/2004 | 9,900 | 1,100 a | 570 | 4,100 | 140 | 500 | 700 | — | 3,800 | <100 | <100 | <100 | 710 | 9.81 | 5.35 | 4.46 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-10 | 11/2/2004 | 48,000 | 3,500 g | <500 | 16,000 | 1,400 | 3,100 | 6,000 | — | 3,100 | — | — | — | — | 9.81 | 5.06 | 4.75 | — |
| MW-10 | 1/10/2005 | 120,000 | 4,200 g | <500 | 21,000 | 20,000 | 5,400 | 22,000 | — | 16,000 | — | — | — | — | 9.81 | 3.14 | 6.67 | — |
| MW-10 | 4/13/2005 | 83,000 | 9,100 g | <1,000 | 22,000 | 13,000 | 5,500 | 18,000 | — | 22,000 | — | — | — | — | 9.81 | 3.12 | 6.69 | — |
| MW-10 | 7/20/2005 | 82,000 | 11,000 g | <2,500 | 14,000 | 9,700 | 4,700 | 20,000 | — | 32,000 | <500 | <500 | <500 | 9,800 | 9.81 | 5.33 | 4.48 | — |
| MW-10 | 10/24/2005 | 67,000 | 9,800 g | <1,000 | 12,000 | 4,000 | 4,500 | 13,000 | — | 14,000 | — | — | — | 6,200 | 9.78 | 4.24 | 5.54 | — |
| MW-10 | 1/4/2006 | 114,000 | 5,690 f | 364 f | 15,000 | 5,110 | 1,310 | 17,400 | — | 3,720 | — | — | — | 1,150 | 9.78 | 2.53 | 7.25 | — |
| MW-10 | 7/26/2006 | 66,600 | 1,070 | 260 | 10,600 | 137 | 2,740 | 5,430 | — | 2,660 | 0.750 | <0.500 | <0.500 | 3,280 | 9.78 | 3.98 | 5.80 | — |
| MW-10 | 1/2/2007 | 46,000 | 1,500 f | 140 f | 10,000 | 860 | 3,800 | 8,000 | — | 1,200 | — | — | — | 1,400 | 9.78 | 4.02 | 5.76 | — |
| MW-10 | 7/12/2007 | 28,000 m | 3,900 f | <250 f | 7,700 | 160 | 2,100 | 2,960 | — | 1,200 | <100 | <100 | <100 | 2,600 | 9.78 | 4.18 | 5.60 | — |
| MW-10 | 1/10/2008 | 31,000 m | 4,700 f,o | <250 f | 10,000 | 75 | 2,800 | 3,270 | — | 1,400 | — | — | — | 2,000 | 9.78 | 4.34 | 5.44 | — |
| MW-10 | 7/31/2008 | 38,000 | 1,500 f,o | <250 f | 11,000 | <100 | 1,800 | 970 | — | 3,100 | <200 | <200 | <200 | 7,500 | 9.78 | 4.10 | 5.68 | — |
| MW-10 | 1/6/2009 | 26,000 | 3,800 f,o | 340 f | 9,600 | <100 | 2,300 | 790 | — | 1,600 | — | — | — | 2,300 | 9.78 | 4.25 | 5.53 | — |
| MW-10 | 7/1/2009 | 17,000 | <50 f | <250 f | 6,100 | <50 | 1,100 | 110 | — | 910 | <100 | <100 | <100 | 2,900 | 9.78 | 4.27 | 5.51 | — |
| MW-10 | 1/4/2010 | 22,000 | 2,500 f,o | <250 f | 7,200 | <100 | 1,000 | <100 | — | 870 | — | — | — | 2,600 | 9.78 | 4.53 | 5.25 | — |
| **MW-10** | **1/18/2011** | **18,000** | **2,700 q** | **—** | **8,900** | **<100** | **1,500** | **<200** | **—** | **320** | **<200** | **<200** | **<200** | **<2,000** | **9.78** | **3.28** | **6.50** | **—** |
| MW-11 | 7/20/1993 | 50 | ND | — | 2.5 | 1.9 | 3.9 | 18 | — | — | — | — | — | — | 10.56 | 8.08 | 2.48 | — |
| MW-11 | 10/18/1993 | ND | 65 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.56 | 8.24 | 2.32 | — |
| MW-11 | 1/6/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.56 | 8.47 | 2.09 | — |
| MW-11 | 4/12/1994 | ND | ND | — | 1.1 | 0.87 | ND | 1.5 | — | — | — | — | — | — | 10.56 | 8.44 | 2.12 | — |
| MW-11 | 7/25/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.56 | 8.20 | 2.36 | — |
| MW-11 | 10/25/1994 | ND | 100 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.56 | 8.67 | 1.89 | — |
| MW-11 | 1/9/1995 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.56 | 7.63 | 2.93 | — |
| MW-11 | 4/11/1995 | ND | 140 | — | ND | 0.7 | ND | 0.5 | — | — | — | — | — | — | 10.56 | 8.06 | 2.50 | — |
| MW-11 | 7/18/1995 | ND | 50 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.56 | 9.31 | 1.25 | — |
| MW-11 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.56 | 8.34 | 2.22 | — |
| MW-11 | 1/9/1996 | <50 | ND | — | <0.5 | <0.5 | <0.5 | <0.5 | ND | — | — | — | — | — | 10.56 | 8.22 | 2.34 | — |
| MW-11 | 4/2/1996 | <50 | — | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 10.56 | 7.97 | 2.59 | — |
| MW-11 | 10/3/1996 | <50 | <50 | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 10.56 | 8.37 | 2.19 | 3.6 |
| MW-11 | 4/3/1997 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 10.56 | 8.31 | 2.25 | 2.2 |
| MW-11 | 10/8/1997 | <50 | 54 | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 10.56 | 8.56 | 2.00 | 1.2 |
| MW-11 | 6/10/1998 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.56 | 7.85 | 2.71 | — |
| MW-11 | 12/30/1998 | <50.0 | 66.2 | — | <0.500 | <0.500 | <0.500 | <0.500 | <2.00 | — | — | — | — | — | 10.56 | 8.51 | 2.05 | 0.7/0.6 |
| MW-11 | 6/25/1999 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.56 | 8.01 | 2.55 | — |
| MW-11 | 12/28/1999 | <50.0 | <50.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | — | — | — | — | — | 10.56 | 8.39 | 2.17 | 0.8/1.0 |
| MW-11 | 5/31/2000 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.56 | 7.38 | 3.18 | — |
| MW-11 | 10/17/2000 | <50.0 | <50.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | — | — | — | — | — | 10.56 | 8.35 | 2.21 | 4.1/4.0 |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-11 | 5/1/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.56 | 8.15 | 2.41 | — |
| MW-11 | 11/5/2001 | Unable to locate | | — | — | — | — | — | — | — | — | — | — | — | 10.56 | — | — | — |
| MW-11 | 5/1/2002 | Unable to locate | | — | — | — | — | — | — | — | — | — | — | — | 10.56 | — | — | — |
| MW-11 | 5/8/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 10.56 | 7.82 | 2.74 | 1.0/1.1 |
| MW-11 | 7/16/2002 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.56 | 7.64 | 2.92 | — |
| MW-11 | 10/17/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | — | 7.95 | — | 1.3/1.0 |
| MW-11 | 1/21/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.57 | — | — |
| MW-11 | 5/1/2003 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <5.0 | — | — | — | — | — | 7.62 | — | — |
| MW-11 | 7/17/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.93 | — | — |
| MW-11 | 10/2/2003 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | — | 7.56 | — | — |
| MW-11 | 1/5/2004 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.03 | — | — |
| MW-11 | 4/1/2004 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | — | 7.55 | — | — |
| MW-11 | 8/2/2004 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.50 | — | — |
| MW-11 | 11/2/2004 | <50 | <50 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | — | 7.41 | — | — |
| MW-11 | 1/10/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.45 | — | — |
| MW-11 | 4/13/2005 | <50 | 84 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | — | 7.35 | — | — |
| MW-11 | 7/20/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.56 | — | — |
| MW-11 | 10/24/2005 | <50 | 66 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 10.06 | 7.72 | 2.34 | — |
| MW-11 | 1/4/2006 | <50.0 | <100 f | <100 f | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | <10.0 | 10.06 | 6.55 | 3.51 | — |
| MW-11 | 7/26/2006 | <50.0 | 105 | 914 | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | — | 10.06 | 7.37 | 2.69 | — |
| MW-11 | 1/2/2007 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.06 | 7.63 | 2.43 | — |
| MW-11 | 7/12/2007 | <50 m | 100 f | 340 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 10.06 | 7.18 | 2.88 | — |
| MW-11 | 1/10/2008 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.06 | 6.03 | 4.03 | — |
| MW-11 | 7/31/2008 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 10.06 | 7.25 | 2.81 | — |
| MW-11 | 1/6/2009 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.06 | 8.03 | 2.03 | — |
| MW-11 | 7/1/2009 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 10.06 | 7.62 | 2.44 | — |
| MW-11 | 1/4/2010 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.06 | 7.43 | 2.63 | — |
| **MW-11** | **1/18/2011** | **<50** | **<480** | **<480** | **<0.50** | **<0.50** | **<0.50** | **<1.0** | **—** | **<1.0** | **<1.0** | **<1.0** | **<1.0** | **<10** | **10.06** | **7.03** | **3.03** | **—** |
| MW-12 | 7/20/1993 | ND | 1,500 | — | 2.8 | 1.9 | 3.2 | ND | — | — | — | — | — | — | 9.56 | 6.76 | 2.80 | — |
| MW-12 | 10/18/1993 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 9.56 | 7.12 | 2.44 | — |
| MW-12 | 1/6/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 9.56 | 7.15 | 2.41 | — |
| MW-12 | 4/12/1994 | ND | ND | — | 0.61 | ND | ND | 1.1 | — | — | — | — | — | — | 9.56 | 6.68 | 2.88 | — |
| MW-12 | 7/25/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 9.56 | 6.83 | 2.73 | — |
| MW-12 | 10/25/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 9.56 | 7.34 | 2.22 | — |
| MW-12 | 1/9/1995 | ND | 80 a | — | ND | ND | ND | ND | — | — | — | — | — | — | 9.56 | 5.02 | 4.54 | — |
| MW-12 | 4/11/1995 | ND | 200 | — | ND | ND | ND | ND | — | — | — | — | — | — | 9.56 | 7.38 | 2.18 | — |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-12 | 7/18/1995 | ND | 90 | — | ND | ND | ND | ND | — | — | — | — | — | — | 9.56 | 8.50 | 1.06 | — |
| MW-12 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.56 | 6.63 | 2.93 | — |
| MW-12 | 1/9/1996 | <50 | ND | — | <0.5 | <0.5 | <0.5 | <0.5 | ND | — | — | — | — | — | 9.56 | 6.32 | 3.24 | — |
| MW-12 | 4/2/1996 | <50 | — | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 9.56 | 5.60 | 3.96 | — |
| MW-12 | 10/3/1996 | <50 | 72 | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 9.56 | 3.30 | 6.26 | 2.5 |
| MW-12 | 4/3/1997 | <50 | 74 | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 9.56 | 6.13 | 3.43 | 2.2 |
| MW-12 | 10/8/1997 | <50 | 73 | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 9.56 | 6.49 | 3.07 | 3.0 |
| MW-12 | 6/10/1998 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.56 | 5.85 | 3.71 | — |
| MW-12 | 12/30/1998 | <50.0 | <50.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <2.00 | — | — | — | — | — | 9.56 | 8.42 | 1.14 | 1.3/0.9 |
| MW-12 | 6/25/1999 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.56 | 7.89 | 1.67 | — |
| MW-12 | 12/28/1999 | <50.0 | <50.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | — | — | — | — | — | 9.56 | 8.26 | 1.30 | 1.0/1.2 |
| MW-12 | 5/31/2000 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.56 | 7.21 | 2.35 | — |
| MW-12 | 10/17/2000 | <50.0 | 82.9 a | — | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | — | — | — | — | — | 9.56 | 6.80 | 2.76 | 5.1/3.0 |
| MW-12 | 5/1/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.56 | 5.95 | 3.61 | — |
| MW-12 | 11/5/2001 | Unable to locate | | — | — | — | — | — | — | — | — | — | — | — | 9.56 | — | — | — |
| MW-12 | 5/1/2002 | Unable to locate | | — | — | — | — | — | — | — | — | — | — | — | 9.56 | — | — | — |
| MW-12 | 5/8/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 9.56 | 4.75 | 4.81 | 1.2/0.9 |
| MW-12 | 7/16/2002 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.56 | 4.88 | 4.68 | — |
| MW-12 | 10/17/2002 | <50 | 81 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | — | 5.11 | — | 1.8/1.5 |
| MW-12 | 1/21/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5.76 | — | — |
| MW-12 | 5/1/2003 | <50 | 95 a | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <5.0 | — | — | — | — | — | 5.00 | — | — |
| MW-12 | 7/17/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5.85 | — | — |
| MW-12 | 10/2/2003 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | — | 5.02 | — | — |
| MW-12 | 1/5/2004 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.95 | — | — |
| MW-12 | 4/1/2004 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | — | 5.04 | — | — |
| MW-12 | 8/2/2004 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5.42 | — | — |
| MW-12 | 11/2/2004 | <50 | 150 h | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | — | 4.55 | — | — |
| MW-12 | 1/10/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5.81 | — | — |
| MW-12 | 4/13/2005 | <50 | 120 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | — | 4.01 | — | — |
| MW-12 | 7/20/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.00 | — | — |
| MW-12 | 10/24/2005 | <50 | 94 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 9.09 | 4.83 | 4.26 | — |
| MW-12 | 1/4/2006 | <50.0 | 330 f | 675 f | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | <10.0 | 9.09 | 5.52 | 3.57 | — |
| MW-12 | 7/26/2006 | <50.0 | <93.9 | 153 | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | — | 9.09 | 4.47 | 4.62 | — |
| MW-12 | 1/2/2007 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.09 | 5.70 | 3.39 | — |
| MW-12 | 7/12/2007 | <50 m | 63 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 9.09 | 5.03 | 4.06 | — |
| MW-12 | 1/10/2008 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.09 | 4.20 | 4.89 | — |
| MW-12 | 7/31/2008 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 9.09 | 4.52 | 4.57 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-12 | 1/6/2009 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.09 | 4.79 | 4.30 | — |
| MW-12 | 7/1/2009 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 9.09 | 5.70 | 3.39 | — |
| MW-12 | 1/4/2010 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.09 | 6.00 | 3.09 | — |
| **MW-12** | **1/18/2011** | **<50** | **<480** | **<480** | **<0.50** | **<0.50** | **<0.50** | **<1.0** | **—** | **<1.0** | **<1.0** | **<1.0** | **<1.0** | **<10** | **9.09** | **5.61** | **3.48** | **—** |
| MW-13 | 7/20/1993 | ND | 1,500 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 8.32 | 1.78 | — |
| MW-13 (D) | 7/21/1993 | ND | 1,000 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 8.32 | 1.78 | — |
| MW-13 | 10/18/1993 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 8.66 | 1.44 | — |
| MW-13 | 1/6/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 8.70 | 1.40 | — |
| MW-13 | 4/12/1994 | ND | 100 | — | 1.7 | 1.2 | 0.59 | 2.4 | — | — | — | — | — | — | 10.10 | 8.20 | 1.90 | — |
| MW-13 | 7/25/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 8.39 | 1.71 | — |
| MW-13 | 10/25/1994 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 8.70 | 1.40 | — |
| MW-13 | 1/9/1995 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 7.35 | 2.75 | — |
| MW-13 | 4/11/1995 | ND | 320 | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 5.50 | 4.60 | — |
| MW-13 | 7/18/1995 | ND | ND | — | ND | ND | ND | ND | — | — | — | — | — | — | 10.10 | 6.63 | 3.47 | — |
| MW-13 | 10/18/1995 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.10 | 8.12 | 1.98 | — |
| MW-13 | 1/9/1996 | <50 | ND | — | <0.5 | <0.5 | <0.5 | <0.5 | ND | — | — | — | — | — | 10.10 | 7.74 | 2.36 | — |
| MW-13 | 4/2/1996 | <50 | — | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 10.10 | 6.30 | 3.80 | — |
| MW-13 | 10/3/1996 | <50 | <50 | — | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | — | — | — | — | — | 10.10 | 6.50 | 3.60 | 3.0 |
| MW-13 | 4/3/1997 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 10.10 | 7.58 | 2.52 | 2.0 |
| MW-13 | 10/8/1997 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | — | — | — | — | — | 10.10 | 8.17 | 1.93 | 1.0 |
| MW-13 | 6/10/1998 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.10 | 7.54 | 2.56 | — |
| MW-13 | 12/30/1998 | <50.0 | 69.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <2.00 | — | — | — | — | — | 10.10 | 6.91 | 3.19 | 1.1/0.8 |
| MW-13 | 6/25/1999 | — | NA | — | — | — | — | — | — | — | — | — | — | — | 10.10 | 6.31 | 3.79 | — |
| MW-13 | 12/28/1999 | <50.0 | <50.0 | — | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | — | — | — | — | — | 10.10 | 6.65 | 3.45 | 0.8/1.0 |
| MW-13 | 5/31/2000 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.10 | 5.94 | 4.16 | — |
| MW-13 | 10/17/2000 | <50.0 | 121 a | — | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | — | — | — | — | — | 10.10 | 8.38 | 1.72 | 2.5/2.8 |
| MW-13 | 5/1/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.10 | 7.65 | 2.45 | — |
| MW-13 | 11/5/2001 | Unable to locate | | — | — | — | — | — | — | — | — | — | — | — | 10.10 | — | — | — |
| MW-13 | 5/1/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 10.10 | 6.80 | 3.30 | 3.5/3.5 |
| MW-13 | 7/16/2002 | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.10 | 6.84 | 3.26 | — |
| MW-13 | 10/17/2002 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 9.64 | 6.73 | 2.91 | 1.4/0.9 |
| MW-13 | 1/21/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.64 | 6.99 | 2.65 | — |
| MW-13 | 5/1/2003 | <50 | <50 | — | 3.4 | 0.75 | 1.1 | 2.7 | — | <5.0 | — | — | — | — | 9.64 | 6.62 | 3.02 | — |
| MW-13 | 7/17/2003 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.64 | 5.99 | 3.65 | — |
| MW-13 | 10/2/2003 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 9.64 | 6.81 | 2.83 | — |
| MW-13 | 1/5/2004 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.64 | 5.98 | 3.66 | — |

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-13 | 4/1/2004 | <50 | <50 | — | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 9.64 | 5.09 | 4.55 | — |
| MW-13 | 8/2/2004 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.64 | 5.49 | 4.15 | — |
| MW-13 | 11/2/2004 | <50 | <50 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 9.64 | 5.99 | 3.65 | — |
| MW-13 | 1/10/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.64 | 5.63 | 4.01 | — |
| MW-13 | 4/13/2005 | <50 | 72 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 9.64 | 6.00 | 3.64 | — |
| MW-13 | 7/20/2005 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.64 | 8.31 | 1.33 | — |
| MW-13 | 10/24/2005 | <50 | 52 a | <500 | <0.50 | <0.50 | <0.50 | <1.0 | — | <0.50 | — | — | — | — | 9.62 | 5.00 | 4.62 | — |
| MW-13 | 1/4/2006 | <50.0 | <100 f | <100 f | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | <10.0 | 9.62 | 5.54 | 4.08 | — |
| MW-13 | 7/26/2006 | <50.0 | <93.9 | 280 | <0.500 | <0.500 | <0.500 | <0.500 | — | <0.500 | — | — | — | — | 9.62 | 4.92 | 4.70 | — |
| MW-13 | 1/2/2007 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.62 | 7.37 | 2.25 | — |
| MW-13 | 7/12/2007 | <50 m | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 9.62 | 4.60 | 5.02 | — |
| MW-13 | 1/10/2008 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.62 | 4.32 | 5.30 | — |
| MW-13 | 7/31/2008 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 9.62 | 7.10 | 2.52 | — |
| MW-13 | 1/6/2009 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.62 | 4.95 | 4.67 | — |
| MW-13 | 7/1/2009 | <50 | <50 f | <250 f | <0.50 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | — | 9.62 | 6.79 | 2.83 | — |
| MW-13 | 1/4/2010 | — | — | — | — | — | — | — | — | — | — | — | — | — | 9.62 | 7.55 | 2.07 | — |
| **MW-13** | **1/18/2011** | **<50** | **<470** | **<470** | **<0.50** | **<0.50** | **<0.50** | **<1.0** | **—** | **<1.0** | **<1.0** | **<1.0** | **<1.0** | **<10** | **9.62** | **5.52** | **4.10** | **—** |
| VEW-5 | 9/26/2000 | — | NA | — | — | — | — | — | — | — | — | — | — | — | — | 2.91 | — | — |
| VEW-5 | 10/17/2000 | 74,800 | 4,180 a | — | 9,090 | 14,600 | 2,630 | 14,500 | 632 | — | — | — | — | — | — | 2.65 | — | 3.0/3.1 |
| VEW-5 | 5/1/2001 | 94,800 | 5,350 | — | 11,300 | 12,900 | 4,520 | 22,200 | 419 | — | — | — | — | — | — | 2.86 | — | 0.4/0.6 |
| VEW-5 | 11/5/2001 | 82,000 | <1,600 | — | 14,000 | 7,400 | 2,900 | 15,000 | — | 740 | — | — | — | — | — | 4.11 | — | 0.6/c |
| VEW-5 | 5/1/2002 | 16,000 | <3,000 | — | 610 | 320 | 7.9 | 3,600 | — | 310 | — | — | — | — | — | 2.63 | — | 4.7/2.9 |
| VEW-5 | 7/16/2002 | 45,000 | <3,000 | — | 7,900 | 2,700 | 1,000 | 4,600 | — | 920 | — | — | — | — | — | 2.96 | — | 0.4/0.3 |
| VEW-5 | 10/17/2002 | <50 | 200 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | 46 | — | — | — | — | 8.81 | 3.55 | 5.26 | 1.1/1.0 |
| VEW-5 | 1/21/2003 | 740 | 1,200 | — | 53 | 22 | 17 | 70 | — | 17 | — | — | — | — | 8.81 | 2.06 | 6.75 | 1.6/0.5 |
| VEW-5 | 5/1/2003 | 1,500 | 1,000 a | — | 140 | 92 | 120 | 290 | — | 11 | — | — | — | — | 8.81 | 2.34 | 6.47 | — |
| VEW-5 | 7/17/2003 | 4,200 | 1,400 a,f | — | 630 | 1,300 | 360 | 1,400 | — | 38 | — | — | — | — | 8.81 | 3.36 | 5.45 | — |
| VEW-5 | 10/2/2003 | 10,000 | 3,500 a | — | 690 | 1,200 | 420 | 1,800 | — | 54 | — | — | — | — | 8.81 | 3.65 | 5.16 | — |
| VEW-5 | 1/5/2004 | 180 | 530 a | — | 5.0 | 0.73 | 6.5 | 11 | — | 1.9 | — | — | — | — | 8.81 | 2.02 | 6.79 | — |
| VEW-5 | 4/1/2004 | 2,800 | 2,500 a | — | 520 | 23 | 260 | 290 | — | 55 | — | — | — | — | 8.81 | 2.77 | 6.04 | — |
| VEW-5 | 8/2/2004 | 8,900 | 3,800 a | 550 | 790 | 74 | 600 | 1,600 | — | 62 | <40 | <40 | <40 | <100 | 8.81 | 3.55 | 5.26 | — |
| VEW-5 | 11/2/2004 | 1,200 | 830 g | <500 | 72 | 5.8 | 83 | 100 | — | 11 | — | — | — | — | 8.81 | 2.89 | 5.92 | — |
| VEW-5 | 1/10/2005 | <50 | 320 a | 700 | <0.50 | <0.50 | <0.50 | 2.0 | — | 0.56 | — | — | — | — | 8.81 | 1.14 | 7.67 | — |
| VEW-5 | 4/13/2005 | 270 | 540 a | 1,100 | 23 | 1.4 | 11 | 15 | — | 2.0 | — | — | — | — | 8.81 | 2.17 | 6.64 | — |
| VEW-5 | 7/20/2005 | 130 | 100 g | <500 | 5.7 | 0.65 | 1.4 | 9.3 | — | 7.7 | <2.0 | <2.0 | <2.0 | 41 | 8.81 | 4.39 | 4.42 | — |
| VEW-5 | 10/24/2005 | 2,300 | 8,900 a | 3,700 l | 260 | 17 | 28 | 140 | — | 13 | — | — | — | 41 | 8.79 | 3.15 | 5.64 | — |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VEW-5 | 1/4/2006 | 493 | 883 f | 710 f | 1.69 | <0.500 | 2.72 | 6.19 | — | <0.500 | — | — | — | <10.0 | 8.79 | 1.28 | 7.51 | — |
| VEW-5 | 7/26/2006 | 860 | 299 | 744 | 15.8 | 2.49 | 2.55 | 8.77 | — | 3.69 | <0.500 | <0.500 | <0.500 | <10.0 | 8.79 | 2.98 | 5.81 | — |
| VEW-5 | 1/2/2007 | 1,700 | 210 f | 170 f | 77 | 4.1 | 13 | 13 | — | 3.9 | — | — | — | <5.0 | 8.79 | 3.30 | 5.49 | — |
| VEW-5 | 7/12/2007 | 1,000 m | 710 f | 390 f | 85 | 3.6 | 2.0 | 12.5 | — | 6.3 | <2.0 | <2.0 | <2.0 | 10 | 8.79 | 3.26 | 5.53 | — |
| VEW-5 | 1/10/2008 | 460 m | 210 f,o | 290 o | 1.4 | 1.3 | 1.0 | 6.8 | — | <1.0 | — | — | — | <10 | 8.79 | 2.18 | 6.61 | — |
| VEW-5 | 07/31/2008 p | 170,000 | 180 f,o | <250 f | 14,000 | 370 | 690 | 1,650 | — | 1,900 | <200 | <200 | <200 | <1,000 | 8.79 | 2.98 | 5.81 | — |
| VEW-5 | 8/29/2008 | 1,600 | 720 f,o | 1,800 f | 110 | 4.6 | 5.1 | 13.4 | — | <1.0 | <2.0 | <2.0 | <2.0 | 20 | 8.79 | 3.14 | 5.65 | — |
| VEW-5 | 1/6/2009 | <50 | 200 f,o | 580 f | 2.0 | 1.4 | <1.0 | <1.0 | — | 1.4 | — | — | — | <10 | 8.79 | 3.35 | 5.44 | — |
| VEW-5 | 7/1/2009 | 86 | 95 f,o | <250 f | 6.6 | <1.0 | <1.0 | 2.2 | — | 9.3 | <2.0 | <2.0 | <2.0 | 25 | 8.79 | 3.63 | 5.16 | — |
| VEW-5 | 1/4/2010 | <50 | 150 f,o | 300 f | 3.8 | <1.0 | <1.0 | <1.0 | — | <1.0 | — | — | — | <10 | 8.79 | 3.39 | 5.40 | — |
| **VEW-5** | **1/18/2011** | **<50** | **<470** | **500** | **3.5** | **<0.50** | **5.5** | **2.3** | **—** | **<1.0** | **<1.0** | **<1.0** | **<1.0** | **<10** | **8.79** | **2.65** | **6.14** | **—** |
| VEW-6 | 9/26/2000 | — | NA | — | — | — | — | — | — | — | — | — | — | — | — | 2.94 | — | — |
| VEW-6 | 10/17/2000 | 63,800 | 4,820 a | — | 6,940 | 2,750 | 2,760 | 18,700 | 3,700 | — | — | — | — | — | — | 3.13 | — | 2.0/2.1 |
| VEW-6 | 5/1/2001 | 57,000 | 3,460 | — | 6,280 | 697 | 2,640 | 15,800 | 6,240 | — | — | — | — | — | — | 3.25 | — | 0.8/1.2 |
| VEW-6 | 5/29/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.17 | — | 3.0/1.7 |
| VEW-6 | 11/5/2001 | 39,000 | <1,300 | — | 6,800 | 380 | 1,900 | 7,900 | — | 8,800 | — | — | — | — | — | 4.35 | — | 0.8/1.3 |
| VEW-6 | 5/1/2002 | 24,000 | <4,500 | — | 1,800 | 270 | 470 | 3,700 | — | 3,100 | — | — | — | — | — | 2.73 | — | 0.2/0.4 |
| VEW-6 | 7/16/2002 | 19,000 | <2,700 | — | 1,900 | 250 | 140 | 3,500 | — | 2,900 | — | — | — | — | — | 3.59 | — | 0.3/0.2 |
| VEW-6 | 10/17/2002 | <50 | 110 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | 13 | — | — | — | — | 9.33 | 4.33 | 5.00 | 0.9/1.3 |
| VEW-6 | 1/21/2003 | 900 | <500 | — | 30 | 1.1 | 20 | 61 | — | 110 | — | — | — | — | 9.33 | 3.08 | 6.25 | 4.6/5.6 |
| VEW-6 | 5/1/2003 | 1,100 a | 290 a | — | 41 | <5.0 | 58 | 66 | — | 89 | — | — | — | — | 9.33 | 2.79 | 6.54 | — |
| VEW-6 | 7/17/2003 | 3,100 | 1,400 a,f | — | 400 | 30 | 280 | 820 | — | 1,400 | — | — | — | — | 9.33 | 3.80 | 5.53 | — |
| VEW-6 | 10/2/2003 | 2,100 | 1,200 a | — | 310 | 37 | 200 | 420 | — | 1,500 | — | — | — | — | 9.33 | 4.10 | 5.23 | — |
| VEW-6 | 1/5/2004 | 320 | 170 a | — | 4.9 | 0.54 | 3.3 | 18 | — | 68 | — | — | — | — | 9.33 | 2.31 | 7.02 | — |
| VEW-6 | 4/1/2004 | 450 | 270 a | — | 44 | 1.6 | 23 | 24 | — | 180 | — | — | — | — | 9.33 | 2.87 | 6.46 | — |
| VEW-6 | 8/2/2004 | Well Inaccessible | | — | — | NA | — | — | — | — | — | — | — | — | 9.33 | — | — | — |
| VEW-6 | 11/2/2004 | 910 | 210 g | <500 | 35 | 1.4 | 39 | 79 | — | 74 | — | — | — | — | 9.33 | 3.26 | 6.07 | — |
| VEW-6 | 1/10/2005 | 110 | 150 a | <500 | 1.3 | <0.50 | 1.3 | 3.3 | — | 4.7 | — | — | — | — | 9.33 | 2.01 | 7.32 | — |
| VEW-6 | 4/13/2005 | 98 | 330 a,j,k | 1,000 j,k | 10 | <0.50 | 2.4 | 2.6 | — | 77 | — | — | — | — | 9.33 | 2.05 | 7.28 | — |
| VEW-6 | 7/20/2005 | 150 | <50 | <500 | 4.3 | <0.50 | 1.1 | 7.1 | — | 7.8 | <2.0 | <2.0 | <2.0 | 37 | 9.33 | 4.27 | 5.06 | — |
| VEW-6 | 10/24/2005 | 4,800 | 3,300 a | 1,600 l | 150 | 4.6 | 280 | 720 | — | 120 | — | — | — | 160 | 9.22 | 3.56 | 5.66 | — |
| VEW-6 | 1/4/2006 | 1,010 | 1,260 f | 1,010 f | 2.67 | <0.500 | 4.79 | 12.6 | — | 23.8 | — | — | — | 93.6 | 9.22 | 1.85 | 7.37 | — |
| VEW-6 | 7/26/2006 | 31,900 | 1,750 | 2,520 | 2,730 | 6,130 | 270 | 2,590 | — | 303 | <0.500 | <0.500 | 69.4 | 189 | 9.22 | 3.52 | 5.70 | — |
| VEW-6 | 1/2/2007 | 6,100 | 4,900 f | 6,700 f | 42 | 740 | 89 | 850 | — | 25 | — | — | — | 51 | 9.22 | 3.38 | 5.84 | — |
| VEW-6 | 7/12/2007 | 2,900 m | 1,700 f | 1,400 f | 220 | 83 | 94 | 430 | — | 140 | <4.0 | <4.0 | <4.0 | 180 | 9.22 | 3.72 | 5.50 | — |
| VEW-6 | 1/10/2008 | 2,200 m | 1,100 f,o | 2,200 f | 25 | 52 | 17 | 178 | — | 8.2 | — | — | 38 | 38 | 9.22 | 2.91 | 6.31 | — |

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VEW-6 | 7/31/2008 | 2,000 | 470 f,o | 420 f | 150 | 9.2 | 18 | 102 | — | 120 | <2.0 | <2.0 | <2.0 | 290 | 9.22 | 3.43 | 5.79 | — |
| VEW-6 | 1/6/2009 | 780 | 1,600 f,o | 3,000 f | 120 | 5.3 | 11 | 20 | — | 61 | — | — | — | 180 | 9.22 | 3.37 | 5.85 | — |
| VEW-6 | 7/1/2009 | 690 | 680 f,o | 1,200 f | 95 | 4.5 | 12 | 30 | — | 17 | <2.0 | <2.0 | <2.0 | 180 | 9.22 | 3.72 | 5.50 | — |
| VEW-6 | 1/4/2010 | 1,100 | 310 f,o | 440 f | 380 | 3.7 | 7.4 | 6.8 | — | 97 | — | — | — | 480 | 9.22 | 3.47 | 5.75 | — |
| **VEW-6** | **1/18/2011** | **360** | **2,500** | **2,200** | **150** | **2.1** | **3.2** | **<4.0** | **—** | **53** | **<4.0** | **<4.0** | **<4.0** | **220** | **9.22** | **3.10** | **6.12** | **—** |
| VEW-7 | 9/26/2000 | — | NA | — | — | — | — | — | — | — | — | — | — | — | — | 3.59 | — | — |
| VEW-7 | 10/17/2000 | 74,300 | 3,990 a | — | 11,900 | 12,500 | 1,640 | 15,500 | 36,600 | — | — | — | — | — | — | 3.72 | — | 3.5/4.1 |
| VEW-7 | 5/1/2001 | 46,000 | 1,930 | — | 7,250 | 5,300 | 1,960 | 9,820 | 15,600 | 16,900 | — | — | — | — | — | 3.40 | — | 0.8/0.8 |
| VEW-7 | 5/29/2001 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3.54 | — | 2.5/1.4 |
| VEW-7 | 11/5/2001 | 38,000 | <900 | — | 9,300 | 610 | 1,700 | 6,000 | — | 21,000 | — | — | — | — | — | 4.85 | — | 3.52/c |
| VEW-7 | 5/1/2002 | 590 | <600 | — | 6.3 | 7.2 | <2.5 | 81 | — | 1,100 | — | — | — | — | — | 2.62 | — | 2.9/3.3 |
| VEW-7 | 7/16/2002 | 95 | 54 | — | 1.5 | <0.50 | 1.5 | 6.1 | — | 100 | — | — | — | — | — | 3.84 | — | 3.6/2.5 |
| VEW-7 | 10/17/2002 | <50 | 110 | — | 1.4 | <0.50 | <0.50 | <0.50 | — | 34 | — | — | — | — | 9.49 | 4.93 | 4.56 | 3.0/1.9 |
| VEW-7 | 1/21/2003 | <50 | 180 | — | 0.88 | <0.50 | <0.50 | 4.2 | — | 19 | — | — | — | — | 9.49 | 3.27 | 6.22 | 0.3/0.8 |
| VEW-7 | 5/1/2003 | 2,200 | 1,000 a | — | 62 | 8.0 | 230 | 80 | — | 360 | — | — | — | — | 9.49 | 2.95 | 6.54 | — |
| VEW-7 | 7/17/2003 | <1,200 | 590 a,f | — | 97 | 19 | 150 | 110 | — | 830 | — | — | — | — | 9.49 | 3.94 | 5.55 | — |
| VEW-7 | 10/2/2003 | 800 | 1,300 a | — | 78 | 11 | 170 | 49 | — | 1,200 | — | — | — | — | 9.49 | 5.00 | 4.49 | — |
| VEW-7 | 1/5/2004 | 2,500 | 970 a | — | 120 | 13 | 86 | 300 | — | 660 | — | — | — | — | 9.49 | 2.82 | 6.67 | — |
| VEW-7 | 4/1/2004 | 4,700 | 1,500 a | — | 100 | 42 | 240 | 680 | — | 830 | — | — | — | — | 9.49 | 2.99 | 6.50 | — |
| VEW-7 | 8/2/2004 | 1,100 | 830 a | <500 | 60 | 6.5 | 30 | 120 | — | 920 | <20 | <20 | <20 | 430 | 9.49 | 4.45 | 5.04 | — |
| VEW-7 | 11/2/2004 | Well inaccessible | | — | — | — | — | — | — | — | — | — | — | NA | 9.49 | — | — | — |
| VEW-7 | 11/4/2004 | 7,900 | 2,700 g | <500 | 410 | 26 | 280 | 1,100 | — | 2,100 | — | — | — | NA | 9.49 | 3.57 | 5.92 | — |
| VEW-7 | 1/10/2005 | 1,200 | 690 g | <500 | 110 | <5.0 | 49 | 73 | — | 530 | — | — | — | — | 9.49 | 2.26 | 7.23 | — |
| VEW-7 | 4/13/2005 | 760 | 280 a | 530 | 18 | 3.3 | 28 | 84 | — | 120 | — | — | — | — | 9.49 | 2.28 | 7.21 | — |
| VEW-7 | 7/20/2005 | 160 | 250 g | <500 | 4.8 | 0.57 | 1.9 | 11 | — | 9.3 | <2.0 | <2.0 | <2.0 | 37 | 9.49 | 4.50 | 4.99 | — |
| VEW-7 | 10/24/2005 | 540 | 1,100 a | 630 l | 11 | 1.7 | 2.8 | 11 | — | 36 | — | — | — | 490 | 9.43 | 3.74 | 5.69 | — |
| VEW-7 | 1/4/2006 | <50.0 | 386 f | 305 f | <0.500 | <0.500 | <0.500 | <0.500 | — | 7.68 | — | — | — | 96.7 | 9.43 | 1.93 | 7.50 | — |
| VEW-7 | 7/26/2006 | 1,140 | 383 | 803 | 31.2 | 2.92 | 6.09 | 42.1 | — | 87.3 | <0.500 | <0.500 | <0.500 | 257 | 9.43 | 3.77 | 5.66 | — |
| VEW-7 | 1/2/2007 | 1,100 | 230 f | 220 f | 8.5 | 0.79 | 4.4 | 11 | — | 18 | — | — | — | 180 | 9.43 | 3.47 | 5.96 | — |
| VEW-7 | 7/12/2007 | 860 m | 480 f | <250 f | 17 | 1.6 | 3.0 | 46.1 | — | 37 | <2.0 | <2.0 | <2.0 | 240 | 9.43 | 3.60 | 5.83 | — |
| VEW-7 | 1/10/2008 | 510 m | 250 f,o | <250 f | 6.8 | 0.91 n | 0.95 n | 8.28 n | — | 20 | — | — | — | 280 | 9.43 | 2.69 | 6.74 | — |
| VEW-7 | 7/31/2008 | 1,500 | 260 f,o | <250 f | 11 | 1.3 | 3.6 | 48.6 | — | 45 | <2.0 | <2.0 | <2.0 | 340 | 9.43 | 3.65 | 5.78 | — |
| VEW-7 | 1/6/2009 | 680 | 420 f,o | 400 f | 5.4 | 1.6 | 9.2 | 28 | — | 27 | — | — | — | 360 | 9.43 | 3.70 | 5.73 | — |
| VEW-7 | 7/1/2009 | 440 | 210 f,o | <250 f | 5.2 | 1.2 | 3.9 | 17 | — | 25 | <2.0 | <2.0 | <2.0 | 300 | 9.43 | 3.74 | 5.69 | — |
| VEW-7 | 1/4/2010 | 150 | 130 f,o | <250 f | 1.9 | <1.0 | <1.0 | 3.3 | — | 13 | — | — | — | 400 | 9.43 | 3.61 | 5.82 | — |
| **VEW-7** | **1/18/2011** | **280** | **<480** | **—** | **5.6** | **0.69** | **0.99** | **3.7** | **—** | **8.4** | **<1.0** | **<1.0** | **<1.0** | **310** | **9.43** | **3.16** | **6.27** | **—** |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AS-1 | 9/26/2000 | — | NA | — | — | — | — | — | — | — | — | — | — | — | — | 6.67 | — | — |
| AS-1 | 10/17/2000 | 13,400 | 3,280 a | — | 1,600 | 82.8 | <20.0 | 2,600 | 498 | — | — | — | — | — | — | 5.50 | — | 2.0/2.5 |
| AS-1 | 5/1/2001 | Well inaccessible | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| AS-1 | 11/5/2001 | 5,300 | <900 | — | 85 | 26 | 46 | 120 | — | 190 | — | — | — | — | — | 6.11 | — | 0.4/0.5 |
| AS-1 | 5/1/2002 | Insufficient water | | — | — | — | — | — | — | — | — | — | — | — | — | 14.73 | — | — |
| AS-1 | 7/16/2002 | 210 | <150 | — | 8.2 | <0.50 | 7.9 | 3.5 | — | 25 | — | — | — | — | — | 5.59 | — | 4.6/2.8 |
| AS-1 | 10/17/2002 | Well dry | — | — | — | — | — | — | — | — | — | — | — | — | 8.23 | — | — | — |
| AS-1 | 1/21/2003 | <50 | 220 | — | 0.62 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 8.23 | 9.51 | -1.28 | 2.2/2.5 |
| AS-1 | 5/1/2003 | 79 | 96 a | — | 2.2 | 0.99 | 5.1 | 4.8 | — | <5.0 | — | — | — | — | 8.23 | 5.75 | 2.48 | — |
| AS-1 | 7/17/2003 | <50 | 79 a,f | — | 1.2 | 0.60 | 0.95 | 1.7 | — | 3.6 | — | — | — | — | 8.23 | 5.90 | 2.33 | — |
| AS-1 | 10/2/2003 | 440 | 99 a | — | 12 | 49 | 22 | 94 | — | 3.5 | — | — | — | — | 8.23 | 5.90 | 2.33 | — |
| AS-1 | 1/5/2004 | <50 | 76 a | — | 0.75 | <0.50 | 0.70 | <1.0 | — | 2.4 | — | — | — | — | 8.23 | 5.64 | 2.59 | — |
| AS-1 | 4/1/2004 | <50 | <50 | — | 0.79 | <0.50 | <0.50 | <1.0 | — | 3.2 | — | — | — | — | 8.23 | 5.86 | 2.37 | — |
| AS-2 | 9/26/2000 | — | NA | — | — | — | — | — | — | — | — | — | — | — | — | 5.38 | — | — |
| AS-2 | 10/17/2000 | 4,380 | 1,380 a | — | 167 | <10.0 | 225 | 680 | 315 | — | — | — | — | — | — | 5.50 | — | 3.1/3.0 |
| AS-2 | 5/1/2001 | Well inaccessible | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| AS-2 | 11/5/2001 | 2,200 | <300 | — | 100 | 0.99 | 91 | 21 | — | 220 | — | — | — | — | — | 5.99 | — | 0.8/0.6 |
| AS-2 | 5/1/2002 | 880 | <300 | — | 19 | <0.50 | 31 | 22 | — | 57 | — | — | — | — | — | 5.25 | — | 1.0/0.8 |
| AS-2 | 7/16/2002 | 910 | <200 | — | 40 | 4.1 | 39 | 43 | — | 78 | — | — | — | — | — | 5.53 | — | 0.7/0.9 |
| AS-2 | 10/17/2002 | Well dry | NA | — | — | — | — | — | — | — | — | — | — | — | 8.65 | — | — | — |
| AS-2 | 1/21/2003 | <50 | 140 | — | 1.4 | <0.50 | 2.0 | 0.94 | — | 19 | — | — | — | — | 8.65 | 9.32 | -0.67 | 1.4/1.6 |
| AS-2 | 5/1/2003 | 56 | 120 a | — | 2.1 | <0.50 | 4.7 | <1.0 | — | 12 | — | — | — | — | 8.65 | 6.74 | 1.91 | — |
| AS-2 | 7/17/2003 | 180 | 80 a,f | — | 11 | 0.56 | 34 | 13 | — | 23 | — | — | — | — | 8.65 | 6.40 | 2.25 | — |
| AS-2 | 10/2/2003 | 320 | 190 a | — | 8.5 | 6.3 | 24 | 25 | — | 21 | — | — | — | — | 8.65 | 6.20 | 2.45 | — |
| AS-2 | 1/5/2004 | 210 | 160 a | — | 1.4 | <0.50 | 21 | 1.6 | — | 15 | — | — | — | — | 8.65 | 6.32 | 2.33 | — |
| AS-2 | 4/1/2004 | 200 | 130 a | — | 0.87 | <0.50 | 17 | <1.0 | — | 18 | — | — | — | — | 8.65 | 6.15 | 2.50 | — |
| AS-3 | 9/26/2000 | — | NA | — | — | — | — | — | — | — | — | — | — | — | — | 5.75 | — | — |
| AS-3 | 10/17/2000 | 3,520 | 942 a | — | 588 | 521 | 41.2 | 566 | 1,740 | — | — | — | — | — | — | 6.18 | — | 3.1/3.0 |
| AS-3 | 5/1/2001 | Well inaccessible | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| AS-3 | 11/5/2001 | 1,600 | 110 | — | 41 | 4.9 | 8.2 | 30 | — | 240 | — | — | — | — | — | 6.41 | — | 1.1/3.2 |
| AS-3 | 5/1/2002 | Insufficient water | | — | — | — | — | — | — | — | — | — | — | — | — | 14.90 | — | — |
| AS-3 | 7/16/2002 | Well dry | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| AS-3 | 10/17/2002 | Insufficient water | | — | — | — | — | — | — | — | — | — | — | — | 8.84 | 14.78 | -5.94 | — |
| AS-3 | 1/21/2003 | <50 | 320 | — | <0.50 | <0.50 | <0.50 | <0.50 | — | <5.0 | — | — | — | — | 8.84 | 11.59 | -2.75 | 2.2/1.1 |

**TABLE 1**

**GROUNDWATER DATA**
**SHELL-BRANDED SERVICE STATION**
**285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AS-3 | 5/1/2003 | 57 | 150 a | — | 0.53 | <0.50 | 4.7 | 2.7 | — | <5.0 | — | — | — | — | 8.84 | 6.44 | 2.40 | — |
| AS-3 | 7/17/2003 | <50 | 110 a,f | — | 0.83 | 2.1 | 2.4 | 5.4 | — | 2.5 | — | — | — | — | 8.84 | 6.55 | 2.29 | — |
| AS-3 | 10/2/2003 | <50 | 96 a | — | 2.9 | 3.9 | 8.4 | 15 | — | 8.1 | — | — | — | — | 8.84 | 6.55 | 2.29 | — |
| AS-3 | 1/5/2004 | <50 | 120 a | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 1.5 | — | — | — | — | 8.84 | 6.47 | 2.37 | — |
| AS-3 | 4/1/2004 | <50 | 110 a | — | <0.50 | <0.50 | <0.50 | <1.0 | — | 2.8 | — | — | — | — | 8.84 | 6.32 | 2.52 | — |

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8015.
TEPH = Total petroleum hydrocarbons ananlyzed by EPA Method 8015M.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary-butyl alcohol, analyzed by EPA Method 8260B
TOC = Top of casing elevation
GW = Groundwater
DO = Dissolved oxygen
ug/L = Micrograms per liter
ppm = Parts per million
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
(D) = Duplicate sample
n/n = Dissolved oxygen reading; pre-purge/post-purge.
— = Not applicable

Notes:
a = Chromatogram pattern indicates an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.
b = Sample was analyzed outside of EPA recommended holding time.
c = Post-purge DO reading not taken.
d = Lab did not record detected result.
e = Change in casing elevation due to wellhead maintenance.
f = Analysis with Silica Gel Cleanup.
g = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's standard.
h = Hydrocarbon reported is in the late Diesel range and does not match the laboratory's standard.
i = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (ug/L) | TEPH as Diesel (ug/L) | TEPH as Motor Oil (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

j = Samples were re-extracted past EPA recommended holding time.
k = Surrogate recoveries lower than acceptance limits.
l = Quanity of unknown hydrocarbon(s) in sample based on motor oil.
m = Analyzed by EPA Method 8015B (M).
n = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
o = The sample chromatographic pattern for TPG does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
p = Samples for wells MW-9 and VEW-5 on 7/31/08 appear to have been switched and were re-sampled 8/29/08.
q = Hydrocarbon result partly due to individual peak(s) in quantitation range.
* All Diesel and motor oil samples for this event were lost in laboratory fire.
Site surveyed, except wells MW-11 and MW-12, on March 18, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.
Wells MW-1 through MW-4, MW-6, MW-9 through MW-13, VEW-5, VEW-6, abd VEW-7 surveyed on September 27, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

# APPENDIX A

# BLAINE TECH SERVICES, INC. - FIELD NOTES

# WELL GAUGING DATA

Project # 110118-PH1 Date 1/18/11 Client Shell

Site 285 Hegenberger Rd., Oakland

| Well ID | Time | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or (TOC) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 0833 | 4 | | | | | 3.02 | 9.70 | | |
| MW-3 | 0818 | 4 | | | | | 3.84 | 9.85 | | |
| MW-6 | 0810 | 4 | | | | | 4.45 | 10.80 | | |
| MW-9 | 0837 | 4 | | | | | 3.92 | 10.75 | | |
| MW-10 | 0841 | 4 | | | | | 3.28 | 10.02 | | |
| MW-11 | 1046 | 4 | | | | | 7.03 | 13.92 | | |
| MW-12 | 1053 | 4 | | | | | 5.61 | 14.62 | | |
| MW-13 | 1050 | 4 | | | | | 5.52 | 14.40 | | |
| VEW-5 | 0800 | 4 | | | | | 2.65 | 9.55 | | |
| VEW-6 | 0828 | 4 | | | | | 3.10 | 9.95 | | |
| VEW-9 | 0822 | 4 | | | | | 3.16 | 9.84 | V | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: MW-1 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 9.70 | Depth to Water (DTW): 3.02 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.35 | |

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

| 4.3 (Gals.) X | 3 | = | 13.0 Gals. |
|---|---|---|---|
| 1 Case Volume | Specified Volumes | | Calculated Volume |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius$^2$ * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1247 | 63.8 | 7.6 | 810 | 65 | 4.5 | |
| | — | Dewatered @ 4.5 gallons | | | — | |
| | | | | | | |
| | | | | | | |
| 1530 | 65.7 | 7.4 | 717 | 141 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 4.5

Sampling Date: 1/18/11 Sampling Time: 1530 Depth to Water: 3.43

Sample I.D.: MW-1 Laboratory: (Test America) Other____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Oxygenates (5)) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: MW-3 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 9.85 | Depth to Water (DTW): 3.84 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.04 | |

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

| 3.9 (Gals.) X | 3 | = | 11.7 Gals. |
|---|---|---|---|
| 1 Case Volume | Specified Volumes | | Calculated Volume |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1240 | 64.1 | 7.6 | 1323 | 68 | 4 | |
| | | — | dewatered @ 4 gallons | | — | |
| | | | | | | |
| | | | | | | |
| 1520 | 64.7 | 7.5 | 945 | 47 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 4

Sampling Date: 1/18/11 Sampling Time: 1520 Depth to Water: 4.56

Sample I.D.: MW-3 Laboratory: (Test America) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Oxygenates (5)) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 11018-PH1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: mw-6 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 10.80 | Depth to Water (DTW): 4.45 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.12 | |

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

*Bailer grass down offsite

4.1 (Gals.) X 3 = 12.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1220 | 65.0 | 7.8 | 526 | 19 | 4.5 | |
| | — | Dewatered @ | 5 gallons | | — | |
| | | | | | | |
| | | | | | | |
| *1505 | 63.0 | 7.9 | 564 | 23 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 5

Sampling Date: 1/18/11 Sampling Time: 1505 Depth to Water: 4.50

Sample I.D.: mw-6 Laboratory: (Test America) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Oxygenates (5)) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: MW-9 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 10.05 | Depth to Water (DTW): 3.92 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.28 | |

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

4.4 (Gals.) X 3 = 13.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 0955 | 56.6 | 7.4 | 2483 | 101 | 4.5 | |
| | — | Dewatered @ 5 gallons | | | | DTW 8.79 |
| | | | | | | |
| | | | | | | |
| 1440 | 65.8 | 7.5 | 2300 | 57 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 5.0

Sampling Date: 1/18/11 Sampling Time: 1440 Depth to Water: 8.10 (12 hours)

Sample I.D.: MW-9 Laboratory: (Test America) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Oxygenates (5) (Other: TPH-mo

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | | |
|---|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L | |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV | |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 98985749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: MW-10 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 10.02 | Depth to Water (DTW): 3.28 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.62 | |

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

4.4 (Gals.) X 3 = 13.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1008 | 59.4 | 7.1 | 2588 | 30 | 4.5 | |
| | — | Dewatered @ 4.5 gallons | | | — | |
| | | | | | | |
| | | | | | | |
| 1450 | 67.0 | 7.2 | 2495 | 28 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 4.5

Sampling Date: 1/18/11 Sampling Time: 1450 Depth to Water: 4.78 (>2 hours)

Sample I.D.: MW-10 Laboratory: (Test America) Other____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Oxygenates (5)) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELL-MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: MW-11 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 13.92 | Depth to Water (DTW): 7.03 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.40 | |

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible (circled), Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: (Bailer) (circled), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

| 4.4 (Gals.) X | 3 | = | 13.4 Gals. |
|---|---|---|---|
| 1 Case Volume | Specified Volumes | | Calculated Volume |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius$^2$ * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1100 | 65.7 | 7.6 | 1250 | 79 | 4.5 | |
| | | — | Dewatered @ | 6 gallons | — | DTW 11.45 |
| | | | | | | |
| | | | | | | |
| 1300 | 65.3 | 7.9 | 2848 | 37 | — | |

Did well dewater? (Yes) No — Gallons actually evacuated: 6

Sampling Date: 1/18/11 — Sampling Time: 1300 — Depth to Water: 10.12 (2 hours)

Sample I.D.: MW-11 — Laboratory: (Test America) Other____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Oxygenates (5) (Other): TPHmo

EB I.D. (if applicable): @ Time — Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 9899 5749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: MW-12 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 14.62 | Depth to Water (DTW): 5.61 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.41 | |

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

| 5.8 (Gals.) X | 3 | = | 17.5 Gals. |
|---|---|---|---|
| 1 Case Volume | Specified Volumes | | Calculated Volume |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius$^2$ * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1118 | 67.3 | 7.6 | 1521 | 12 | 6 | |
| 1120 | 66.2 | 7.5 | 1604 | 6 | 12 | |
| | — | Dewatered @ | 12 | gallons | — | DTW 11.63 |
| | | | | | | |
| 1320 | 70.3 | 7.8 | 1405 | 26 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 12

Sampling Date: 1/18/11 Sampling Time: 1320 Depth to Water: 11.14 (>2 hours)

Sample I.D.: MW-12 Laboratory: (Test America) Other_____

Analyzed for: TPH-G (BTEX) MTBE (TPH-D) Oxygenates (5) (Other): TPHmo

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | | |
|---|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | | mV |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: MW-13 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 14.40 | Depth to Water (DTW): 5.52 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.29 | |

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

5.7 (Gals.) X 3 = 17.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (uS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1108 | 65.4 | 7.6 | 480 | 24 | 6 | |
| | — | Recovered @ | 9 gallons | — | | DTW 11.53 |
| | | | | | | |
| | | | | | | |
| 1310 | 66.9 | 7.7 | 635 | 19 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 9

Sampling Date: 1/18/11 Sampling Time: 1310 Depth to Water: 6.93

Sample I.D.: MW-13 Laboratory: (Test America) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Oxygenates (5)) (Other: TPH/mo)

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: VEW-5 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 9.55 | Depth to Water (DTW): 2.65 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.03 | |

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, (Other) tubing + check valve

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, (Other): tubing + check valve

4.5 (Gals.) X 3 = 13.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 0900 | 57.6 | 6.4 | 341 | 703 | 4.5 | |
| | — | Dewatered @ | 7 gallons | — | | DTW 8.55 |
| | | | | | | |
| | | | | | | |
| 1350 | 69.6 | 7.5 | 223 | 96 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 7

Sampling Date: 1/18/11 Sampling Time: 1350 Depth to Water: 6.12 (~2 hours)

Sample I.D.: VEW-5 Laboratory: (Test America) Other ____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Oxygenates (5) (Other): TPH mo

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 11015-FM1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: VEW-6 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 9.95 | Depth to Water (DTW): 3.10 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.47 | |

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; (Other) tubing + check valve

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; (Other): tubing + check valve

4.4 (Gals.) X 3 = 13.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 0940 | 58.6 | 7.0 | 1095 | 258 | 4.5 | |
| 0944 | 60.2 | 6.8 | 2391 | 364 | 9.0 | DTW 9.10 |
| | — | Dewatered @ 9 gallons | | | | |
| | | | | | | |
| 1420 | 65.6 | 7.3 | 2355 | 157 | — | |

Did well dewater? (Yes) No — Gallons actually evacuated: 9

Sampling Date: 1/18/11 — Sampling Time: 1420 — Depth to Water: 3.32

Sample I.D.: VEW-6 — Laboratory: (Test America) Other ___

Analyzed for: (TPH-G) BTEX MTBE TPH-D Oxygenates (5) (Other): TPH mo

EB I.D. (if applicable): @ Time — Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110118-PH1 | Site: 98995749 |
| Sampler: PH | Date: 1/18/11 |
| Well I.D.: VEW-7 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 9.84 | Depth to Water (DTW): 3.16 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.49 | |

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; (Other) tubing + check valve

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; (Other): tubing + check valve

| 1 Case Volume | Specified Volumes | Calculated Volume |
|---|---|---|
| 4.3 (Gals.) X | 3 = | 13.0 Gals. |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius$^2$ * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (uS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 0921 | 58.1 | 6.7 | 992 | 299 | 4.5 | |
| | — Dewatered @ | | 6 gallons | | DTW 8.64 | |
| | | | | | | |
| | | | | | | |
| 1400 | 68.2 | 7.3 | 1476 | 107 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 6

Sampling Date: 1/18/11 Sampling Time: 1400 Depth to Water: 5.35 (@ 2 hours)

Sample I.D.: VEW-7 Laboratory: (Test America) Other_____

Analyzed for: ~~TPH-G~~ (BTEX) MTBE ~~TPH-D~~ (Oxygenates (5)) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 285 Hegenberger Rd., Oakland Date 1/18/11

Job Number 110118-PH1 Technician PH Page 1 of 1

| Well ID | Well Inspected - No Corrective Action Required | Well Box Meets Compliance Requirements *See Below | Water Bailed From Wellbox | Cap Replaced | Lock Replaced | Well Not Inspected (explain in notes) | New Deficiency Identified | Previously Identified Deficiency Persists | Notes |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | X | X | X | | | | | | |
| MW-8 | X | X | X | | | | | | |
| MW-6 | X | | | | | | | | unmarked standpipe |
| MW-9 | X | | | | | | | | unmarked standpipe |
| MW-10 | X | X | | | | | | | |
| MW-11 | X | X | | | | | | | |
| MW-12 | X | X | | | | | | | |
| MW-13 | X | X | | | | | | | |
| VEW-5 | X | X | | | | | | | ~~not marked "monitoring well"~~ over 12" |
| VEW-6 | X | X | | | | | | | |
| VEW-7 | X | X | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes:

# APPENDIX B

# TEST AMERICA –
# LABORATORY REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

# LABORATORY REPORT

Prepared For: Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project: 285 Hegenberger Rd., Oakland, CA

Sampled: 01/18/11
Received: 01/20/11
Issued: 02/02/11 09:44

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531



## SAMPLE CROSS REFERENCE

ADDITIONAL INFORMATION: Due to lab error, silica gel cleanup was not performed for TPH-DRO and TPH-MO samples.

Report amended to correct sample ID for -08 (MW-13) per client's request.

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| IUA1886-01 | MW-1 | Water |
| IUA1886-02 | MW-3 | Water |
| IUA1886-03 | MW-6 | Water |
| IUA1886-04 | MW-9 | Water |
| IUA1886-05 | MW-10 | Water |
| IUA1886-06 | MW-11 | Water |
| IUA1886-07 | MW-12 | Water |
| IUA1886-08 | MW-13 | Water |
| IUA1886-09 | VEW-5 | Water |
| IUA1886-10 | VEW-6 | Water |
| IUA1886-11 | VEW-7 | Water |

Reviewed By:

Philip Sanelle

**TestAmerica Irvine**

Philip Sanelle
Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-01 (MW-1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **DRO (C10-C28)** | EPA 8015B | 11A2564 | 470 | **1500** | 0.943 | 1/24/2011 | 1/24/2011 | QP1 |
| *Surrogate: n-Octacosane (45-120%)* | | | | *72 %* | | | | |
| **Sample ID: IUA1886-02 (MW-3 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| DRO (C10-C28) | EPA 8015B | 11A2564 | 470 | ND | 0.943 | 1/24/2011 | 1/25/2011 | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *82 %* | | | | |
| **Sample ID: IUA1886-03 (MW-6 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **DRO (C10-C28)** | EPA 8015B | 11A2564 | 470 | **820** | 0.943 | 1/24/2011 | 1/25/2011 | QP1 |
| *Surrogate: n-Octacosane (45-120%)* | | | | *79 %* | | | | |
| **Sample ID: IUA1886-04 (MW-9 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **DRO (C10-C28)** | EPA 8015B | 11A2564 | 470 | **1200** | 0.943 | 1/24/2011 | 1/25/2011 | QP1 |
| **ORO (C29-C40)** | EPA 8015B | 11A2564 | 470 | **630** | 0.943 | 1/24/2011 | 1/25/2011 | QP1 |
| *Surrogate: n-Octacosane (45-120%)* | | | | *73 %* | | | | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *73 %* | | | | |
| **Sample ID: IUA1886-05 (MW-10 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **DRO (C10-C28)** | EPA 8015B | 11A2564 | 2400 | **2700** | 4.76 | 1/24/2011 | 1/25/2011 | QP1 |
| *Surrogate: n-Octacosane (45-120%)* | | | | *78 %* | | | | *Z3* |
| **Sample ID: IUA1886-06 (MW-11 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| DRO (C10-C28) | EPA 8015B | 11A2564 | 480 | ND | 0.952 | 1/24/2011 | 1/25/2011 | |
| ORO (C29-C40) | EPA 8015B | 11A2564 | 480 | ND | 0.952 | 1/24/2011 | 1/25/2011 | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *79 %* | | | | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *79 %* | | | | |
| **Sample ID: IUA1886-07 (MW-12 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| DRO (C10-C28) | EPA 8015B | 11A2564 | 480 | ND | 0.952 | 1/24/2011 | 1/25/2011 | |
| ORO (C29-C40) | EPA 8015B | 11A2564 | 480 | ND | 0.952 | 1/24/2011 | 1/25/2011 | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *77 %* | | | | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *77 %* | | | | |

**TestAmerica Irvine**

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Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886
Sampled: 01/18/11
Received: 01/20/11

## EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-08 (MW-13 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| DRO (C10-C28) | EPA 8015B | 11A2564 | 470 | ND | 0.943 | 1/24/2011 | 1/25/2011 | |
| ORO (C29-C40) | EPA 8015B | 11A2564 | 470 | ND | 0.943 | 1/24/2011 | 1/25/2011 | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *80 %* | | | | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *80 %* | | | | |
| **Sample ID: IUA1886-09 (VEW-5 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| DRO (C10-C28) | EPA 8015B | 11A2564 | 470 | ND | 0.943 | 1/24/2011 | 1/25/2011 | |
| **ORO (C29-C40)** | EPA 8015B | 11A2564 | 470 | **500** | 0.943 | 1/24/2011 | 1/25/2011 | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *79 %* | | | | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *79 %* | | | | |
| **Sample ID: IUA1886-10 (VEW-6 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **DRO (C10-C28)** | EPA 8015B | 11A2564 | 470 | **2500** | 0.943 | 1/24/2011 | 1/25/2011 | |
| **ORO (C29-C40)** | EPA 8015B | 11A2564 | 470 | **2200** | 0.943 | 1/24/2011 | 1/25/2011 | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *142 %* | | | | *ZX* |
| *Surrogate: n-Octacosane (45-120%)* | | | | *142 %* | | | | *ZX* |
| **Sample ID: IUA1886-11 (VEW-7 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| DRO (C10-C28) | EPA 8015B | 11A2564 | 480 | ND | 0.952 | 1/24/2011 | 1/25/2011 | |
| *Surrogate: n-Octacosane (45-120%)* | | | | *71 %* | | | | |

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San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-01 (MW-1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11A2828 | 500 | **4300** | 10 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *87 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *88 %* | | | | |
| **Sample ID: IUA1886-02 (MW-3 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11A2828 | 50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *89 %* | | | | |
| **Sample ID: IUA1886-03 (MW-6 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11A2828 | 50 | **160** | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *86 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| **Sample ID: IUA1886-04 (MW-9 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11A2828 | 2500 | **6800** | 50 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| **Sample ID: IUA1886-05 (MW-10 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11A2828 | 10000 | **18000** | 200 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *89 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *91 %* | | | | |
| **Sample ID: IUA1886-06 (MW-11 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11A2828 | 50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *89 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |

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San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-07 (MW-12 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11A2828 | .50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| **Sample ID: IUA1886-08 (MW-13 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11A2828 | 50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *89 %* | | | | |
| **Sample ID: IUA1886-09 (VEW-5 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11A2828 | 50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *87 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *91 %* | | | | |
| **Sample ID: IUA1886-10 (VEW-6 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11A2828 | 200 | **360** | 4 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| **Sample ID: IUA1886-11 (VEW-7 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11A2828 | 50 | **280** | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *89 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |

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Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886
Sampled: 01/18/11
Received: 01/20/11

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-01 (MW-1 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11A2828 | 5.0 | **360** | 10 | 1/26/2011 | 1/26/2011 | |
| **Ethylbenzene** | EPA 8260B | 11A2828 | 5.0 | **18** | 10 | 1/26/2011 | 1/26/2011 | |
| **Toluene** | EPA 8260B | 11A2828 | 5.0 | **12** | 10 | 1/26/2011 | 1/26/2011 | |
| **Xylenes, Total** | EPA 8260B | 11A2828 | 10 | **26** | 10 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 10 | ND | 10 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 10 | ND | 10 | 1/26/2011 | 1/26/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11A2828 | 10 | **31** | 10 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 10 | ND | 10 | 1/26/2011 | 1/26/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11A2828 | 100 | ND | 10 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *87 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| **Sample ID: IUA1886-02 (MW-3 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11A2828 | 0.50 | **2.2** | 1 | 1/26/2011 | 1/26/2011 | |
| Ethylbenzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Toluene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Xylenes, Total | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11A2828 | 1.0 | **2.6** | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| **tert-Butanol (TBA)** | EPA 8260B | 11A2828 | 10 | **200** | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *89 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98 %* | | | | |

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Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-03 (MW-6 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethylbenzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Toluene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Xylenes, Total | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11A2828 | 10 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *86 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| **Sample ID: IUA1886-04 (MW-9 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11A2828 | 25 | **2800** | 50 | 1/26/2011 | 1/26/2011 | |
| **Ethylbenzene** | EPA 8260B | 11A2828 | 25 | **240** | 50 | 1/26/2011 | 1/26/2011 | |
| **Toluene** | EPA 8260B | 11A2828 | 25 | **38** | 50 | 1/26/2011 | 1/26/2011 | |
| **Xylenes, Total** | EPA 8260B | 11A2828 | 50 | **590** | 50 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 50 | ND | 50 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 50 | ND | 50 | 1/26/2011 | 1/26/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11A2828 | 50 | ND | 50 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 50 | ND | 50 | 1/26/2011 | 1/26/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11A2828 | 500 | ND | 50 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *99 %* | | | | |

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Report Number: IUA1886
Sampled: 01/18/11
Received: 01/20/11

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-05 (MW-10 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11A2828 | 100 | **8900** | 200 | 1/26/2011 | 1/26/2011 | |
| **Ethylbenzene** | EPA 8260B | 11A2828 | 100 | **1500** | 200 | 1/26/2011 | 1/26/2011 | |
| Toluene | EPA 8260B | 11A2828 | 100 | ND | 200 | 1/26/2011 | 1/26/2011 | |
| Xylenes, Total | EPA 8260B | 11A2828 | 200 | ND | 200 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 200 | ND | 200 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 200 | ND | 200 | 1/26/2011 | 1/26/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11A2828 | 200 | **320** | 200 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 200 | ND | 200 | 1/26/2011 | 1/26/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11A2828 | 2000 | ND | 200 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *91 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *89 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98 %* | | | | |
| **Sample ID: IUA1886-06 (MW-11 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethylbenzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Toluene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Xylenes, Total | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11A2828 | 10 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *89 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98 %* | | | | |

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Report Number: IUA1886
Sampled: 01/18/11
Received: 01/20/11

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-07 (MW-12 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethylbenzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Toluene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Xylenes, Total | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11A2828 | 10 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| **Sample ID: IUA1886-08 (MW-13 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethylbenzene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Toluene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Xylenes, Total | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11A2828 | 10 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *89 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |

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Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-09 (VEW-5 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11A2828 | 0.50 | **3.5** | 1 | 1/26/2011 | 1/26/2011 | |
| **Ethylbenzene** | EPA 8260B | 11A2828 | 0.50 | **5.5** | 1 | 1/26/2011 | 1/26/2011 | |
| Toluene | EPA 8260B | 11A2828 | 0.50 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| **Xylenes, Total** | EPA 8260B | 11A2828 | 1.0 | **2.3** | 1 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11A2828 | 10 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *91 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *87 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |
| **Sample ID: IUA1886-10 (VEW-6 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11A2828 | 2.0 | **150** | 4 | 1/26/2011 | 1/26/2011 | |
| **Ethylbenzene** | EPA 8260B | 11A2828 | 2.0 | **3.2** | 4 | 1/26/2011 | 1/26/2011 | |
| **Toluene** | EPA 8260B | 11A2828 | 2.0 | **2.1** | 4 | 1/26/2011 | 1/26/2011 | |
| Xylenes, Total | EPA 8260B | 11A2828 | 4.0 | ND | 4 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 4.0 | ND | 4 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 4.0 | ND | 4 | 1/26/2011 | 1/26/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11A2828 | 4.0 | **53** | 4 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 4.0 | ND | 4 | 1/26/2011 | 1/26/2011 | |
| **tert-Butanol (TBA)** | EPA 8260B | 11A2828 | 40 | **220** | 4 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *88 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *97 %* | | | | |

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Report Number: IUA1886
Sampled: 01/18/11
Received: 01/20/11

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUA1886-11 (VEW-7 - Water)** | | | | | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11A2828 | 0.50 | **5.6** | 1 | 1/26/2011 | 1/26/2011 | |
| **Ethylbenzene** | EPA 8260B | 11A2828 | 0.50 | **0.99** | 1 | 1/26/2011 | 1/26/2011 | |
| **Toluene** | EPA 8260B | 11A2828 | 0.50 | **0.69** | 1 | 1/26/2011 | 1/26/2011 | |
| **Xylenes, Total** | EPA 8260B | 11A2828 | 1.0 | **3.7** | 1 | 1/26/2011 | 1/26/2011 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11A2828 | 1.0 | **8.4** | 1 | 1/26/2011 | 1/26/2011 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 11A2828 | 1.0 | ND | 1 | 1/26/2011 | 1/26/2011 | |
| **tert-Butanol (TBA)** | EPA 8260B | 11A2828 | 10 | **310** | 1 | 1/26/2011 | 1/26/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *89 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *98 %* | | | | |

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Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## METHOD BLANK/QC DATA

## EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 11A2564 Extracted: 01/24/11** | | | | | | | | | | |
| **Blank Analyzed: 01/24/2011 (11A2564-BLK1)** | | | | | | | | | | |
| DRO (C10-C28) | ND | 500 | ug/l | | | | | | | |
| ORO (C29-C40) | ND | 500 | ug/l | | | | | | | |
| EFH (C10 - C28) | ND | 500 | ug/l | | | | | | | |
| EFH (C10 - C28) | ND | 500 | ug/l | | | | | | | |
| *Surrogate: n-Octacosane* | *155* | | *ug/l* | *200* | | *78* | *45-120* | | | |
| *Surrogate: n-Octacosane* | *155* | | *ug/l* | *200* | | *78* | *45-120* | | | |
| **LCS Analyzed: 01/24/2011 (11A2564-BS1)** | | | | | | | | | | **MNR1** |
| EFH (C10 - C28) | 773 | 500 | ug/l | 1000 | | 77 | 40-115 | | | |
| EFH (C10 - C28) | 773 | 500 | ug/l | 1000 | | 77 | 40-115 | | | |
| *Surrogate: n-Octacosane* | *162* | | *ug/l* | *200* | | *81* | *45-120* | | | |
| *Surrogate: n-Octacosane* | *162* | | *ug/l* | *200* | | *81* | *45-120* | | | |
| **LCS Dup Analyzed: 01/24/2011 (11A2564-BSD1)** | | | | | | | | | | |
| EFH (C10 - C28) | 756 | 500 | ug/l | 1000 | | 76 | 40-115 | 2 | 25 | |
| EFH (C10 - C28) | 756 | 500 | ug/l | 1000 | | 76 | 40-115 | 2 | 25 | |
| *Surrogate: n-Octacosane* | *158* | | *ug/l* | *200* | | *79* | *45-120* | | | |
| *Surrogate: n-Octacosane* | *158* | | *ug/l* | *200* | | *79* | *45-120* | | | |

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Received: 01/20/11

## METHOD BLANK/QC DATA

## VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 11A2828 Extracted: 01/26/11** | | | | | | | | | | |
| **Blank Analyzed: 01/26/2011 (11A2828-BLK1)** | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | ND | 50 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *22.1* | | *ug/l* | *25.0* | | *89* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.5* | | *ug/l* | *25.0* | | *90* | *80-120* | | | |
| **LCS Analyzed: 01/26/2011 (11A2828-BS2)** | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 385 | 50 | ug/l | 500 | | 77 | 55-130 | | | |
| *Surrogate: Dibromofluoromethane* | *22.0* | | *ug/l* | *25.0* | | *88* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *97* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *92* | *80-120* | | | |
| **Matrix Spike Analyzed: 01/26/2011 (11A2828-MS1)** | | | | | **Source: IUA1886-02** | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 1260 | 50 | ug/l | 1720 | 45.1 | 70 | 50-145 | | | |
| *Surrogate: Dibromofluoromethane* | *23.2* | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 01/26/2011 (11A2828-MSD1)** | | | | | **Source: IUA1886-02** | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 1160 | 50 | ug/l | 1720 | 45.1 | 65 | 50-145 | 8 | 20 | |
| *Surrogate: Dibromofluoromethane* | *22.4* | | *ug/l* | *25.0* | | *89* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.4* | | *ug/l* | *25.0* | | *90* | *80-120* | | | |

**TestAmerica Irvine**

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## METHOD BLANK/QC DATA

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 11A2828 Extracted: 01/26/11** | | | | | | | | | | |
| **Blank Analyzed: 01/26/2011 (11A2828-BLK1)** | | | | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| m,p-Xylenes | ND | 1.0 | ug/l | | | | | | | |
| o-Xylene | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Di-isopropyl Ether (DIPE) | ND | 1.0 | ug/l | | | | | | | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 1.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 1.0 | ug/l | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 1.0 | ug/l | | | | | | | |
| tert-Butanol (TBA) | ND | 10 | ug/l | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.5* | | *ug/l* | *25.0* | | *90* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *22.1* | | *ug/l* | *25.0* | | *89* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *98* | *80-120* | | | |
| **LCS Analyzed: 01/26/2011 (11A2828-BS1)** | | | | | | | | | | |
| Benzene | 22.4 | 0.50 | ug/l | 25.0 | | 89 | 70-120 | | | |
| Ethylbenzene | 23.4 | 0.50 | ug/l | 25.0 | | 94 | 75-125 | | | |
| Toluene | 23.7 | 0.50 | ug/l | 25.0 | | 95 | 70-120 | | | |
| m,p-Xylenes | 47.7 | 1.0 | ug/l | 50.0 | | 95 | 75-125 | | | |
| o-Xylene | 24.2 | 0.50 | ug/l | 25.0 | | 97 | 75-125 | | | |
| Xylenes, Total | 71.9 | 1.0 | ug/l | 75.0 | | 96 | 70-125 | | | |
| Di-isopropyl Ether (DIPE) | 21.6 | 1.0 | ug/l | 25.0 | | 86 | 60-135 | | | |
| Ethyl tert-Butyl Ether (ETBE) | 22.7 | 1.0 | ug/l | 25.0 | | 91 | 65-135 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.0 | 1.0 | ug/l | 25.0 | | 88 | 60-135 | | | |
| tert-Amyl Methyl Ether (TAME) | 24.3 | 1.0 | ug/l | 25.0 | | 97 | 60-135 | | | |
| tert-Butanol (TBA) | 137 | 10 | ug/l | 125 | | 110 | 70-135 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *22.1* | | *ug/l* | *25.0* | | *89* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *22.2* | | *ug/l* | *25.0* | | *89* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.7* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |

**TestAmerica Irvine**

Philip Sanelle
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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## METHOD BLANK/QC DATA

## BTEX/OXYGENATES by GC/MS (EPA 8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 11A2828 Extracted: 01/26/11** | | | | | | | | | | |
| **Matrix Spike Analyzed: 01/26/2011 (11A2828-MS1)** | | | | | **Source: IUA1886-02** | | | | | |
| Benzene | 25.1 | 0.50 | ug/l | 25.0 | 2.20 | 92 | 65-125 | | | |
| Ethylbenzene | 23.9 | 0.50 | ug/l | 25.0 | ND | 96 | 65-130 | | | |
| Toluene | 24.4 | 0.50 | ug/l | 25.0 | ND | 98 | 70-125 | | | |
| m,p-Xylenes | 48.2 | 1.0 | ug/l | 50.0 | ND | 96 | 65-130 | | | |
| o-Xylene | 24.2 | 0.50 | ug/l | 25.0 | ND | 97 | 65-125 | | | |
| Xylenes, Total | 72.4 | 1.0 | ug/l | 75.0 | ND | 97 | 60-130 | | | |
| Di-isopropyl Ether (DIPE) | 22.1 | 1.0 | ug/l | 25.0 | ND | 88 | 60-140 | | | |
| Ethyl tert-Butyl Ether (ETBE) | 23.5 | 1.0 | ug/l | 25.0 | ND | 94 | 60-135 | | | |
| Methyl-tert-butyl Ether (MTBE) | 26.4 | 1.0 | ug/l | 25.0 | 2.62 | 95 | 55-145 | | | |
| tert-Amyl Methyl Ether (TAME) | 25.2 | 1.0 | ug/l | 25.0 | ND | 101 | 60-140 | | | |
| tert-Butanol (TBA) | 317 | 10 | ug/l | 125 | 200 | 94 | 65-140 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *23.2* | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.4* | | *ug/l* | *25.0* | | *98* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 01/26/2011 (11A2828-MSD1)** | | | | | **Source: IUA1886-02** | | | | | |
| Benzene | 23.7 | 0.50 | ug/l | 25.0 | 2.20 | 86 | 65-125 | 6 | 20 | |
| Ethylbenzene | 22.3 | 0.50 | ug/l | 25.0 | ND | 89 | 65-130 | 7 | 20 | |
| Toluene | 23.1 | 0.50 | ug/l | 25.0 | ND | 92 | 70-125 | 6 | 20 | |
| m,p-Xylenes | 45.4 | 1.0 | ug/l | 50.0 | ND | 91 | 65-130 | 6 | 25 | |
| o-Xylene | 22.7 | 0.50 | ug/l | 25.0 | ND | 91 | 65-125 | 7 | 20 | |
| Xylenes, Total | 68.2 | 1.0 | ug/l | 75.0 | ND | 91 | 60-130 | 6 | 20 | |
| Di-isopropyl Ether (DIPE) | 19.9 | 1.0 | ug/l | 25.0 | ND | 80 | 60-140 | 10 | 25 | |
| Ethyl tert-Butyl Ether (ETBE) | 21.2 | 1.0 | ug/l | 25.0 | ND | 85 | 60-135 | 10 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 24.0 | 1.0 | ug/l | 25.0 | 2.62 | 85 | 55-145 | 10 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 23.1 | 1.0 | ug/l | 25.0 | ND | 92 | 60-140 | 9 | 30 | |
| tert-Butanol (TBA) | 311 | 10 | ug/l | 125 | 200 | 89 | 65-140 | 2 | 25 | |
| *Surrogate: 4-Bromofluorobenzene* | *22.4* | | *ug/l* | *25.0* | | *90* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *22.4* | | *ug/l* | *25.0* | | *89* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *24.5* | | *ug/l* | *25.0* | | *98* | *80-120* | | | |

**TestAmerica Irvine**

Philip Sanelle
Project Manager

TestAmerica
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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA
Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## DATA QUALIFIERS AND DEFINITIONS

**MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.

**QP1** Hydrocarbon result partly due to individual peak(s) in quantitation range.

**Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

**ZX** Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

**ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

**RPD** Relative Percent Difference

## ADDITIONAL COMMENTS

**For 8260 analyses:**

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

**For Volatile Fuel Hydrocarbons (C4-C12):**

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

**For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :**

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

**TestAmerica Irvine**

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 285 Hegenberger Rd., Oakland, CA

Report Number: IUA1886

Sampled: 01/18/11
Received: 01/20/11

## Certification Summary

**TestAmerica Irvine**

| Method | Matrix | Nelac | California |
|---|---|---|---|
| EPA 8015B | Water | X | X |
| EPA 8260B | Water | X | X |
| TPH by GC/MS | Water | X | X |

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com*

**TestAmerica Irvine**

Philip Sanelle
Project Manager

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

**Please Check Appropriate Box:**
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&DM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

**Print Bill To Contact Name:** Peter Schaefer 24073

**PO #:** 40-40934-73

**INCIDENT # (ENV SERVICES):** 98995749

☐ CHECK IF NO INCIDENT # APPLIES

**SAP #:**

DATE: 1/18/11

PAGE: 1 of 2

| | | | |
|---|---|---|---|
| SAMPLING COMPANY: Blaine Tech Services | LOG CODE: BTSS | SITE ADDRESS: Street and City: 285 Hegenberger Rd., Oakland | State: CA |
| GLOBAL ID NO.: T0600101245 | | | |
| ADDRESS: 1680 Rogers Avenue, San Jose, CA | | EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville | PHONE NO.: 510-420-3343 |
| E-MAIL: shelledf@craworld.com | CONSULTANT PROJECT NO.: 110118-PH1 | | |
| PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King | | SAMPLER NAME(S) (Print): P. Hanna | LAB USE ONLY: IUA 1886 |
| TELEPHONE: 310-995-4455 x 108 | FAX: 310-637-5802 | E-MAIL: lking@blainetech.com | |

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Email invoice and copy of final report to Shell.Lab.Billing@craworld.com

Run TPH-D w/ Silica Gel Clean Up

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

**REQUESTED ANALYSIS**

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE: HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH -GRO, Purgeable (8260B) | TPH -DRO, Extractable (8015M) | TPHg (8015M) | TPH m/o | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: _____ (8260B) | 1,2-DCA (8260B) | EDB (8260B) | Ethanol (8260B) | Methanol (8015M) | | Nitrate | Sulfate | Methane | | TEMPERATURE ON REC C°: 4.8 / Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | 1/18 | 1530 | W | X | | | | | 5 | X | X | | | | | | X | | | | | | | | | | | | |
| | MW-3 | | 1520 | | X | | | | | | X | X | | | | | | X | | | | | | | | | | | | |
| | MW-6 | | 1505 | | X | | | | | | X | X | | | | | | X | | | | | | | | | | | | |
| | MW-9 | | 1440 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | MW-10 | | 1450 | | X | | | | | | X | X | | | | | | X | | | | | | | | | | | | |
| | MW-11 | | 1300 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | MW-12 | | 1320 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | ~~MW-3~~ MW-13 | | 1310 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | VEW-5 | | 1350 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | VEW-6 | | 1420 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature) | Date: 1/18/11 | Time: 1715 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: 1/19/11 | Time: 1550 |
| Relinquished by: (Signature) 1-19-11 20:00 | Received by: (Signature) | Date: 1/20/11 | Time: 11:45 |

05/2/08 Revision

20/04

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

**Please Check Appropriate Box:**
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

**Print Bill To Contact Name:** Peter Schaefer 24073
PO #: 40-40347973
INCIDENT # (ENV SERVICES): 98995748
SAP #:
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1/18/11
PAGE: 2 of 2

SAMPLING COMPANY: Blaine Tech Services
LOG CODE: BTSS
SITE ADDRESS: Street and City: 285 Hegenberger Rd., Oakland
State: CA
GLOBAL ID NO.: T0600101245
ADDRESS: 1680 Rogers Avenue, San Jose, CA
EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville
PHONE NO.: 510-420-3343
E-MAIL: shelledf@craworld.com
CONSULTANT PROJECT NO.: 111118-P11
PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King
TELEPHONE: 310-995-4455 x 108
FAX: 310-637-5802
E-MAIL: lking@blainetech.com
SAMPLER NAME(S) (Print): P. Harms
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
Email invoice and copy of final report to Shell.Lab.Billing@craworld.com
Run TPH-D w/ Silica Gel Clean Up

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH -GRO, Purgeable (8260B) | TPH -DRO, Extractable (8015M) | TPHg (8015M) | TPHmw2 | BTEX (5260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 6 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: (8260B) | 1,2-DCA (8260B) | EDB (8260B) | Ethanol (8260B) | Methanol (8015M) | | Nitrate | Sulfate | Methane | | | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VEW-7 | 1/18 | 1400 | W | X | | | | | 5 | X | X | | | | | | X | | | | | | | | | | | | | |
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TEMPERATURE ON REC: C° 4.8

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | | 1/18/11 | 1715 |
| | | 1/19/11 | 1550 |
| 1-19-11 20:00 | | 1/20/11 | 11:45 |

05/2/06 Revision

20V04

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

**Please Check Appropriate Box:**
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

**Print Bill To Contact Name:** Peter Schaefer 24073

**INCIDENT # (ENV SERVICES):** 98994574 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/18/11

PAGE: 1 of 2

**PO #:** 40-4034973

**SAP #:**

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 285 Hegenberger Rd., Oakland

State: CA

GLOBAL ID NO.: T0600101245

ADDRESS: 1680 Rogers Avenue, San Jose, CA

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 110118-PH1

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: 310-995-4455 x 108

FAX: 310-637-5802

E-MAIL: lking@blainetech.com

SAMPLER NAME(S) (Print): P. Harms

LAB USE ONLY: IUA1886

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Email invoice and copy of final report to Shell.Lab.Billing@craworld.com

Run TPH-D w/ Silica Gel Clean Up

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

**REQUESTED ANALYSIS**

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH -GRO, Purgeable (8260B) | TPH -DRO, Extractable (8015M) | TPHg (8015M) | TPH mo | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: (8260B) | 1,2-DCA (8260B) | EDB (8260B) | Ethanol (8260B) | Methanol (8015M) | | Nitrate | Sulfate | Methane | | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | 1/18 | 1530 | W | X | | | | | 5 | X | X | | | | | | X | | | | | | | | | | | | |
| | MW-3 | | 1520 | | X | | | | | | X | X | | | | | | X | | | | | | | | | | | | |
| | MW-6 | | 1505 | | X | | | | | | X | X | | | | | | X | | | | | | | | | | | | |
| | MW-9 | | 1440 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | MW-10 | | 1450 | | X | | | | | | X | X | | | | | | X | | | | | | | | | | | | |
| | MW-11 | | 1300 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | MW-12 | | 1320 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | MW-3 | | 1310 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | VEW-5 | | 1350 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |
| | VEW-6 | | 1420 | | X | | | | | | X | X | | X | | | | X | | | | | | | | | | | | |

MS 1/12/11 1:45 60'

TEMPERATURE ON RECEIPT C°: 4.8

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
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| | | 1/18/11 | 1715 |
| | | 1/19/11 | 1550 |
| | | 1/20/11 | 11:45 |

05/2/06 Revision

20V04

# Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**
- ☐ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (IRVINE)
- ☐ OTHER (_____)

**Please Check Appropriate Box:**
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

**Print Bill To Contact Name:** Peter Schaefer 24073

**INCIDENT # (ENV SERVICES):** 98995747 9

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/18/11

PAGE: 2 of 2

**PO #:** 40-40347373

**SAP #:**

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 285 Hegenberger Rd., Oakland

State: CA

GLOBAL ID NO.: T0600101245

ADDRESS: 1680 Rogers Avenue, San Jose, CA

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: 111118-PH1

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King

TELEPHONE: 310-995-4455 x 108

FAX: 310-637-5802

E-MAIL: lking@blainetech.com

SAMPLER NAME(S) (Print): P. Harms

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
- ☒ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Email invoice and copy of final report to Shell.Lab.Billing@craworld.com

Run TPH-D w/ Silica Gel Clean Up

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

**REQUESTED ANALYSIS**

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH -GRO, Purgeable (8260B) | TPH -DRO, Extractable (8015M) | TPHg (8015M) | TPHmo | BTEX (8260B) | BTEX + MTBE (8260B) | BTEX + MTBE + TBA (8260B) | BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B | Full VOC list (8260B) | Single Compound: (8260B) | 1,2-DCA (8260B) | EDB (8260B) | Ethanol (8260B) | Methanol (8015M) | | Nitrate | Sulfate | Methane | | | Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VEW-7 | 1/18 | 1400 | W | X | | | | | 5 | X | X | | | | | | X | | | | | | | | | | | | | |

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