CONESTOGA-ROVERS & ASSOCIATES

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# TRANSMITTAL

**DATE:** May 5, 2011

**REFERENCE NO.:** 240594

**PROJECT NAME:** 610 Market Street, Oakland

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

**RECEIVED**
4:17 pm, May 09, 2011
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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 (electronic copy)
Virginia R. Rawson, Tr., 1860 Tice Creek Drive #1353, Walnut Creek, CA 94595
Roger Schmidt, 1224 Contra Costa Drive, El Cerrito, CA 94530
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
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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
610 Market Street
Oakland, California
SAP Code 135692
Incident No. 98995750
ACEH Case No. RO0000493

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
## 610 MARKET STREET
## OAKLAND, CALIFORNIA

| | |
|---|---|
| SAP CODE | 135692 |
| INCIDENT NO. | 98995750 |
| AGENCY NO. | RO0000493 |


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

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MAY 5, 2011
REF. NO. 240594 (8)
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(Following Text)



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(Following Text)



## LIST OF APPENDICES

## 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 | 610 Market Street, 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. | RO0000493 |
| Shell SAP Code | 135692 |
| Shell Incident No. | 98995750 |

Date of most recent agency correspondence was December 9, 2010 (electronic).

## 2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

### 2.1 CURRENT QUARTER'S ACTIVITIES

As approved in Alameda County Environmental Health's (ACEH's) November 4, 2010 electronic correspondence, CRA instituted the following changes in the groundwater monitoring program for the subject site, which were discussed in our October 7, 2010 meeting with ACEH.

- In order to better track on-site groundwater trends for tertiary-butyl alcohol, CRA increased the monitoring frequency for wells MW-6 and MW-7 from semiannual to quarterly.
- Due to detections of hexavalent chromium and chlorinated solvents in groundwater samples from well MW-9 reported in Baseline's May 28, 2010 *Phase IV Soil and Groundwater Investigation* report, CRA suspended semiannual monitoring of this well. Baseline's client, who is directing the environmental investigation for the adjacent former Francis Plating facility, has taken

investigation for the adjacent former Francis Plating facility, has taken responsibility for the well and added it to their groundwater monitoring program.

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the modified 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 reports are presented in Appendices B and C.

## 2.2 CURRENT QUARTER'S FINDINGS

| | |
|---|---|
| Groundwater Flow Direction | Variable |
| Hydraulic Gradient | Variable |
| Depth to Water | 9.86 to 13.35 feet below top of well casing |

## 2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the modified monitoring program for this site outlined above. Wells MW-6 and MW-7 will be sampled quarterly, and wells MW-1 through MW-5 and MW-8 will be monitored semiannually during the first and third quarters. CRA will issue groundwater monitoring reports semiannually following the first and third quarter sampling events.

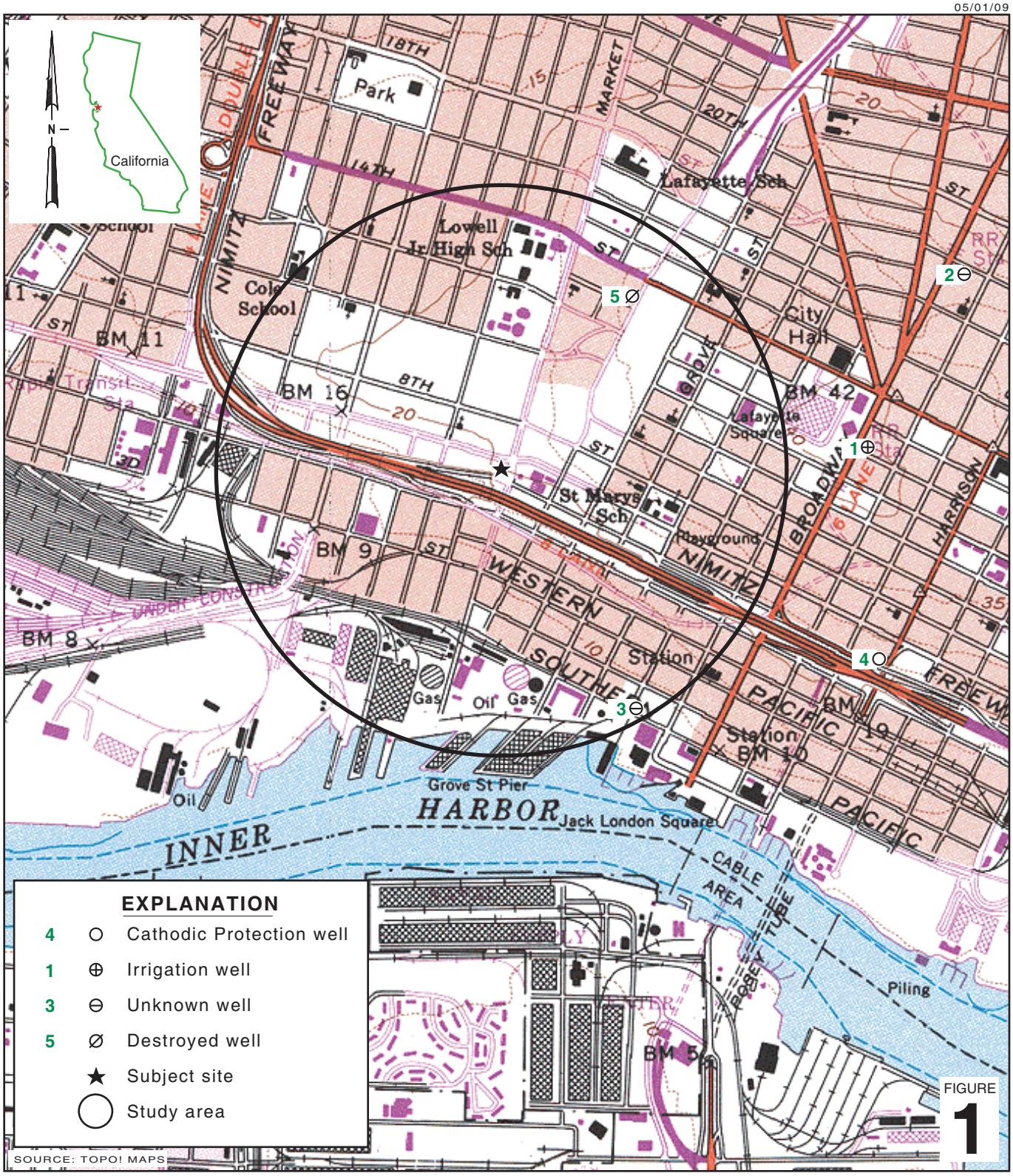
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

# FIGURES

05/01/09




0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

FIGURE 1

I:\Shell\6-chars\2405-\240594 - Oakland 610 Market\240594-FIGURES\240594 VICINITY.AI

**Shell-branded Service Station**
610 Market Street
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

**Vicinity Map**

05/04/2011

MW-1 Monitoring well
MW-2 Monitoring well formerly used for groundwater extraction
T1 Tank observation well
Electrical line (E)
Telecommunication line (T)
Gas line (G)
Storm drain line (STM)
Sanitary sewer line (SAN)
Water line (W)
Manhole
Flow direction
FL = 2,8 Flow line elevation, in feet above mean sea level (msl)
Groundwater extraction system piping

## EXPLANATION

INF GWE system sampling location

XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located

Well
ELEV
Benzene
MTBE
TBA

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

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

MARKET STREET
6th STREET
7th STREET
INTERSTATE 880 OFF-RAMP

MW-2 8.34 0.66 28 NA
MW-8 7.91 ND 3.7 23
MW-5 7.34 ND 1,0 270
MW-6 7.46 NDa NDa 8,200
MW-7 7.62 NDa NDa 9,600
MW-1 8.35 15 17 NA
MW-3 7.71 ND ND ND
MW-4 7.37 ND ND ND
MW-9
T1
T2
USTs
Dispensers
Kiosk
Former Dispenser Island
Car Wash
Planter
INF
EFF
Remediation Enclosure

8.10
7.80
7.50

FL = 10.0
FL = 8.0
FL = 5.6
FL = 3.3
FL = 8.2
FL = 6.5
FL = 12.1
SS 8"Ø
SS 10"Ø
STM 15"Ø

0 15 30 60
Scale (ft)

# Groundwater Contour and Chemical Concentration Map

March 8, 2011

CONESTOGA-ROVERS & ASSOCIATES

## Shell-branded Service Station

610 Market Sreet
Oakland, California

FIGURE
**2**

I:\Shell\Ic-chans\2405--i\240594-Oakland 610 Market\240594-REPORTS\240594-RPT8-1Q11\240594 1QM11-GW.DWG

TABLE

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 12/17/1998 | 2,200 | 20 | <10 | 110 | 420 | <50 | --- | --- | --- | --- | --- | 21.70 | 13.71 | 7.99 |
| MW-1 | 3/9/1999 | 4,320 | 25.8 | <10.0 | 338 | 474 | <100 | --- | --- | --- | --- | --- | 21.70 | 13.03 | 8.67 |
| MW-1 | 6/16/1999 | 6,150 | 107 | 84.0 | 615 | 1,050 | <250 | --- | --- | --- | --- | --- | 21.70 | 13.82 | 7.88 |
| MW-1 | 9/29/1999 | 3,440 | 97.3 | 58.7 | 433 | 578 | 89.1 | --- | --- | --- | --- | --- | 21.70 | 14.45 | 7.25 |
| MW-1 | 12/22/1999 | 1,370 | 34.5 | 4.38 | 196 | 49 | 29.3 | --- | --- | --- | --- | --- | 21.70 | 15.39 | 6.31 |
| MW-1 | 3/21/2000 | 2,550 | 10.3 | 3.36 | 164 | 312 | 65.6 | --- | --- | --- | --- | --- | 21.70 | 11.94 | 9.76 |
| MW-1 | 6/20/2000 | 4,770 | 64.3 | 18.6 | 387 | 732 | 51.3 | --- | --- | --- | --- | --- | 21.70 | 13.15 | 8.55 |
| MW-1 | 9/21/2000 | 7,490 | 350 | 229 | 690 | 1,490 | 160 | --- | --- | --- | --- | --- | 21.70 | 13.65 | 8.05 |
| MW-1 | 11/30/2000 | 5,410 | 420 | 168 | 494 | 1,170 | 167 | --- | --- | --- | --- | --- | 21.70 | 14.20 | 7.50 |
| MW-1 | 3/6/2001 | 965 | 25.7 | 9.14 | 13.3 | 9 | <25.0 | --- | --- | --- | --- | --- | 21.70 | 12.99 | 8.71 |
| MW-1 | 6/28/2001 | 5,900 | 190 | 71 | 360 | 910 | --- | 110 | --- | --- | --- | --- | 21.70 | 13.98 | 7.72 |
| MW-1 | 9/12/2001 | 7,400 | 240 | 110 | 460 | 1,300 | --- | 130 | --- | --- | --- | --- | 21.70 | 14.15 | 7.55 |
| MW-1 | 12/12/2001 | 1,700 | 100 | 30 | 120 | 300 | --- | 98 | --- | --- | --- | --- | 21.70 | 13.75 | 7.95 |
| MW-1 | 3/8/2002 | 1,100 | 63 | 12 | 74 | 83 | --- | 50 | --- | --- | --- | --- | 21.70 | 13.22 | 8.48 |
| MW-1 | 6/6/2002 | 2,300 | 95 | 31 | 130 | 290 | --- | 49 | --- | --- | --- | --- | 21.70 | 13.57 | 8.13 |
| MW-1 | 9/9/2002 | 3,600 | 150 | 44 | 200 | 590 | --- | 54 | --- | --- | --- | --- | 21.70 | 14.05 | 7.65 |
| MW-1 | 12/12/2002 | 2,200 | 130 | 14 | 120 | 310 | --- | 46 | --- | --- | --- | --- | 21.70 | 14.20 | 7.50 |
| MW-1 | 2/26/2003 | 580 | 30 | 2.9 | 25 | 48 | --- | 27 | --- | --- | --- | --- | 21.70 | 13.57 | 8.13 |
| MW-1 | 4/15/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 21.70 | 13.67 | 8.03 |
| MW-1 | 6/13/2003 | 440 | 18 | 6.1 | 33 | 88 | --- | 24 | --- | --- | --- | --- | 21.70 | 13.85 | 7.85 |
| MW-1 | 9/26/2003 | 54 | 3.8 | 0.51 | 4.7 | 7.5 | --- | 11 | --- | --- | --- | --- | 21.70 | 14.63 | 7.07 |
| MW-1 | 11/24/2003 | 120 | 5.6 | 0.87 | 8.4 | 20 | --- | 17 | --- | --- | --- | --- | 21.70 | 14.86 | 6.84 |
| MW-1 | 3/1/2004 | 350 | 20 | 3.8 | 38 | 100 | --- | 18 | --- | --- | --- | --- | 21.70 | 12.85 | 8.85 |
| MW-1 | 6/15/2004 | 100 | 1.8 | <0.50 | 2.6 | 6.1 | --- | 15 | --- | --- | --- | --- | 21.70 | 14.27 | 7.43 |
| MW-1 | 9/16/2004 | 200 | 20 | 0.75 | 7.8 | 16 | --- | 27 | <2.0 | <2.0 | <2.0 | <5.0 | 21.70 | 14.60 | 7.10 |
| MW-1 | 12/29/2004 | 67 | 1.8 | <0.50 | 1.8 | 3.5 | --- | 15 | --- | --- | --- | --- | 21.70 | 14.27 | 7.43 |
| MW-1 | 2/28/2005 | 60 | 1.8 | <0.50 | 1.9 | 3.6 | --- | 22 | --- | --- | --- | --- | 21.70 | 12.45 | 9.25 |
| MW-1 | 3/23/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 21.70 | 12.50 | 9.20 |
| MW-1 | 5/18/2005 | 92 | 5.3 | <0.50 | 5.4 | 12 | --- | 9.7 | --- | --- | --- | --- | 21.70 | 12.22 | 9.48 |
| MW-1 | 8/16/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 21.70 | 13.51 | 8.19 |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 9/15/2005 | 210 | 16 | <0.50 | 4.3 | 19 | --- | 19 | <2.0 | <2.0 | <2.0 | 320 | 21.70 | 14.00 | 7.70 |
| MW-1 | 10/26/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 21.70 | 14.30 | 7.40 |
| MW-1 | 12/13/2005 | <50.0 | 7.55 | 2.14 | 2.39 | 2.73 | --- | 18.6 | --- | --- | --- | --- | 21.70 | 14.27 | 7.43 |
| MW-1 | 3/8/2006 | <50.0 | 1.95 | <0.500 | 1.29 | 2.42 | --- | 13.6 | --- | --- | --- | --- | 21.70 | 12.10 | 9.60 |
| MW-1 | 6/27/2006 | 180 | 22 | 1.9 | 8.0 | 25 | --- | 34 | --- | --- | --- | --- | 21.70 | 12.70 | 9.00 |
| MW-1 | 9/25/2006 | 160 | 16 | <0.50 | 2.1 | 11 | --- | 23 | <1.0 | <1.0 | <1.0 | <10 | 21.70 | 14.07 | 7.63 |
| MW-1 | 12/21/2006 | 120 | 3.2 | <0.50 | <0.50 | <1.0 | --- | 27 | --- | --- | --- | --- | 21.70 | 14.27 | 7.43 |
| MW-1 | 3/20/2007 | <50 | 1.8 | <0.50 | <0.50 | <1.0 | --- | 15 | --- | --- | --- | --- | 21.70 | 13.61 | 8.09 |
| MW-1 | 6/18/2007 | 98 | 7.5 | 0.27 p | 0.52 p | 1.4 | --- | 19 | --- | --- | --- | --- | 21.70 | 14.42 | 7.28 |
| MW-1 | 8/30/2007 | 94 r | 6.6 | <1.0 | <1.0 | 0.82 p | --- | 19 | <2.0 | <2.0 | <2.0 | <10 | 21.70 | 14.84 | 6.86 |
| MW-1 | 12/28/2007 | 67 r | 4.8 | <1.0 | <1.0 | <1.0 | --- | 23 | --- | --- | --- | --- | 21.70 | 15.01 | 6.69 |
| MW-1 | 3/26/2008 | <50 | 3.7 | <1.0 | <1.0 | <1.0 | --- | 12 | --- | --- | --- | --- | 21.70 | 14.16 | 7.54 |
| MW-1 | 5/29/2008 | 310 | 20 | 1.3 | 13 | 39 | --- | 22 | --- | --- | --- | --- | 21.70 | 14.76 | 6.94 |
| MW-1 | 9/25/2008 | 66 | 3.8 | <1.0 | <1.0 | <1.0 | --- | 14 | <2.0 | <2.0 | <2.0 | <10 | 21.70 | 15.31 | 6.39 |
| MW-1 | 12/16/2008 | <50 | 2.6 | <1.0 | <1.0 | <1.0 | --- | 17 | --- | --- | --- | --- | 21.70 | 14.30 | 7.40 |
| MW-1 | 2/26/2009 | 79 | 5.9 | <1.0 | <1.0 | <1.0 | --- | 20 | --- | --- | --- | --- | 21.70 | 14.51 | 7.19 |
| MW-1 | 5/26/2009 | 160 | 15 | <1.0 | 6.2 | 15 | --- | 28 | --- | --- | --- | --- | 21.70 | 14.74 | 6.96 |
| MW-1 | 9/2/2009 | 220 | 28 | <1.0 | <1.0 | 22 | --- | 28 | <2.0 | <2.0 | <2.0 | <10 | 21.70 | 15.61 | 6.09 |
| MW-1 | 3/10/2010 | 99 | 12 | <1.0 | <1.0 | <1.0 | --- | 27 | --- | --- | --- | --- | 21.70 | 13.85 | 7.85 |
| MW-1 | 8/31/2010 | 170 | 23 | <1.0 | <1.0 | 18 | --- | 20 | <2.0 | <2.0 | <2.0 | 13 | 21.70 | 15.08 | 6.62 |
| **MW-1** | **3/8/2011** | **120** | **15** | **0.60** | **1.2** | **1.5** | **---** | 17 | **---** | **---** | **---** | **---** | **21.70** | **13.35** | **8.35** |
| MW-2 | 12/17/1998 | <5,000 | <50 | <50 | <50 | <50 | 11,000 | --- | --- | --- | --- | --- | 19.61 | 12.07 | 7.54 |
| MW-2 | 3/9/1999 | <250 | 5.20 | <2.50 | <2.50 | <2.50 | 9,870 | --- | --- | --- | --- | --- | 19.61 | 11.46 | 8.15 |
| MW-2 | 6/16/1999 | <50.0 | 0.569 | <0.500 | <0.500 | <0.500 | 3,440 | --- | --- | --- | --- | --- | 19.61 | 12.26 | 7.35 |
| MW-2 | 9/29/1999 | 58.6 | 2.51 | 0.978 | <0.500 | <0.500 | 3,930 | --- | --- | --- | --- | --- | 19.61 | 12.51 | 7.10 |
| MW-2 | 12/22/1999 | <2,000 | 50.4 | <20.0 | <20.0 | <20.0 | 15,000 | --- | --- | --- | --- | --- | 19.61 | 13.40 | 6.21 |
| MW-2 | 3/21/2000 | <5,000 | 94.7 | <50.0 | <50.0 | <50.0 | 13,900 | --- | --- | --- | --- | --- | 19.61 | 10.36 | 9.25 |
| MW-2 | 6/20/2000 | 101 | 5.95 | <0.500 | <0.500 | 0.552 | 7,670 | --- | --- | --- | --- | --- | 19.61 | 11.12 | 8.49 |
| MW-2 | 9/21/2000 | <2,000 | <20.0 | <20.0 | <20.0 | <20.0 | 4,460 | --- | --- | --- | --- | --- | 19.61 | 11.95 | 7.66 |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 11/30/2000 | 81.1 | 4.46 | 0.924 | 0.841 | 3.23 | 3,450 | --- | --- | --- | --- | --- | 19.61 | 12.48 | 7.13 |
| MW-2 | 3/6/2001 | <500 | 183 | <5.00 | <5.00 | <5.00 | 14,000 | --- | --- | --- | --- | --- | 19.61 | 11.10 | 8.51 |
| MW-2 | 6/28/2001 | <1,000 | <10 | <10 | <10 | <10 | --- | 4,200 | --- | --- | --- | --- | 19.61 | 12.40 | 7.21 |
| MW-2 | 9/12/2001 | <2,000 | 120 | <20 | <20 | <20 | --- | 17,000 | --- | --- | --- | --- | 19.61 | 12.45 | 7.16 |
| MW-2 | 12/12/2001 | <1,000 | <10 | <10 | <10 | <10 | --- | 3,000 | --- | --- | --- | --- | 19.61 | 12.14 | 7.47 |
| MW-2 | 3/8/2002 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | --- | 1,100 | --- | --- | --- | --- | 19.61 | 11.68 | 7.93 |
| MW-2 | 6/6/2002 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | --- | 2,000 | --- | --- | --- | --- | 19.61 | 11.95 | 7.66 |
| MW-2 | 9/9/2002 | <200 | <2.0 | <2.0 | <2.0 | <2.0 | --- | 740 | --- | --- | --- | --- | 19.62 | 12.38 | 7.24 |
| MW-2 | 12/12/2002 | <200 | <2.0 | <2.0 | <2.0 | <2.0 | --- | 1,000 | --- | --- | --- | --- | 19.62 | 12.40 | 7.22 |
| MW-2 | 2/26/2003 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | --- | 1,600 | --- | --- | --- | --- | 19.62 | 12.69 | 6.93 |
| MW-2 | 4/15/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.62 | 12.81 | 6.81 |
| MW-2 | 6/13/2003 | <500 | <5.0 | <5.0 | <5.0 | <10 | --- | 790 | --- | --- | --- | --- | 19.62 | 12.65 | 6.97 |
| MW-2 | 9/26/2003 | <250 | <2.5 | <2.5 | <2.5 | <5.0 | --- | 250 | --- | --- | --- | --- | 18.20 | 12.95 | 5.25 |
| MW-2 | 11/24/2003 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 87 | --- | --- | --- | --- | 18.20 | 12.89 | 5.31 |
| MW-2 | 3/1/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 35 | --- | --- | --- | --- | 18.20 | 10.08 | 8.12 |
| MW-2 | 6/15/2004 | 66 b | <0.50 | <0.50 | <0.50 | <1.0 | --- | 110 | --- | --- | --- | --- | 18.20 | 12.85 | 5.35 |
| MW-2 | 9/16/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 26 | <2.0 | <2.0 | <2.0 | <5.0 | 18.20 | 12.00 | 6.20 |
| MW-2 | 12/29/2004 | <50 | <0.50 | 0.73 | <0.50 | <1.0 | --- | 43 | --- | --- | --- | --- | 18.20 | 11.60 | 6.60 |
| MW-2 | 2/28/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.20 | 9.71 | 8.49 |
| MW-2 | 3/23/2005 | 340 f | 3.9 | <2.0 | <2.0 | <4.0 | --- | 370 | --- | --- | --- | --- | 18.20 | 10.10 | 8.10 |
| MW-2 | 5/18/2005 | <100 | 4.6 | <1.0 | <1.0 | 3.3 | --- | 160 | --- | --- | --- | --- | 18.20 | 10.21 | 7.99 |
| MW-2 | 8/16/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.20 | 10.53 | 7.67 |
| MW-2 | 9/15/2005 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 11 | <2.0 | <2.0 | <2.0 | 520 | 18.20 | 11.98 | 6.22 |
| MW-2 | 10/26/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.20 | 11.38 | 6.82 |
| MW-2 | 12/13/2005 | <50.0 | <0.500 | 1.66 | <0.500 | <0.500 | --- | 2.11 | --- | --- | --- | --- | 18.20 | 10.71 | 7.49 |
| MW-2 | 3/8/2006 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | --- | <0.500 | --- | --- | --- | --- | 18.20 | 9.50 | 8.70 |
| MW-2 | 6/27/2006 | <100 m | <1.0 m | <1.0 m | <1.0 m | <1.0 m | --- | 9.1 m | --- | --- | --- | --- | 18.20 | 9.73 | 8.47 |
| MW-2 | 9/25/2006 | 83 n | <2.5 | <2.5 | <2.5 | <5.0 | --- | <5.0 | <5.0 | <5.0 | <5.0 | 4,500 | 18.20 | 11.08 | 7.12 |
| MW-2 | 12/21/2006 | 160 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 1.6 | --- | --- | --- | --- | 18.20 | 11.30 | 6.90 |
| MW-2 | 3/20/2007 | <50 | 0.98 | <0.50 | <0.50 | <1.0 | --- | 18 | --- | --- | --- | --- | 18.20 | 10.76 | 7.44 |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

| *Well ID* | *Date* | *TPPH (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)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 6/18/2007 | 86 q | <0.50 | <1.0 | <1.0 | <1.0 | --- | 2.4 | --- | --- | --- | --- | 18.20 | 11.35 | 6.85 |
| MW-2 | 8/30/2007 | 110 r | <0.50 | <1.0 | <1.0 | <1.0 | --- | 2.2 | 6.3 | 0.30 p | <2.0 | 2,700 | 18.20 | 11.80 | 6.40 |
| MW-2 | 12/28/2007 | <50 r | <2.5 | <5.0 | <5.0 | <5.0 | --- | 2.1 p | --- | --- | --- | --- | 18.20 | 11.69 | 6.51 |
| MW-2 | 3/26/2008 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | --- | 18.20 | 11.23 | 6.97 |
| MW-2 | 5/29/2008 | 130 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 3.0 | --- | --- | --- | --- | 18.20 | 11.83 | 6.37 |
| MW-2 | 9/25/2008 | 380 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 3.7 | 7.9 | <2.0 | <2.0 | 4,200 | 18.20 | 13.21 | 4.99 |
| MW-2 | 12/16/2008 | 220 | <1.0 | <2.0 | <2.0 | <2.0 | --- | 2.1 | --- | --- | --- | --- | 18.20 | 12.40 | 5.80 |
| MW-2 | 2/26/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.9 | --- | --- | --- | --- | 18.20 | 10.56 | 7.64 |
| MW-2 | 5/26/2009 | 140 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 2.6 | --- | --- | --- | --- | 18.20 | 11.03 | 7.17 |
| MW-2 | 9/2/2009 | 270 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 2.2 | 4.9 | <2.0 | <2.0 | 4,600 | 18.20 | 12.01 | 6.19 |
| MW-2 | 3/10/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 37 | --- | --- | --- | --- | 18.20 | 9.96 | 8.24 |
| MW-2 | 8/31/2010 | 110 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 6.2 | 2.8 | <2.0 | <2.0 | 3,300 | 18.20 | 11.30 | 6.90 |
| **MW-2** | **3/8/2011** | **<50** | **0.66** | **<0.50** | **<0.50** | **<1.0** | **---** | 28 | **---** | **---** | **---** | **---** | **18.20** | **9.86** | **8.34** |
| MW-3 | 12/17/1998 | 30,000 | 890 | 110 | 2,100 | 4,300 | 42,000 | 43,000 | --- | --- | --- | --- | 19.05 | 11.65 | 7.40 |
| MW-3 | 3/9/1999 | 22,700 | 536 | <200 | 1,030 | 1,510 | 35,400 | 38,500 | --- | --- | --- | --- | 19.05 | 11.03 | 8.02 |
| MW-3 | 6/16/1999 | 19,300 | 625 | 129 | 805 | 1,210 | 42,400 | 51,600 | --- | --- | --- | --- | 19.05 | 11.89 | 7.16 |
| MW-3 | 9/29/1999 | 20,200 | 727 | 155 | 1,000 | 1,180 | 84,100 | 136,000 a | --- | --- | --- | --- | 19.05 | 12.35 | 6.70 |
| MW-3 | 12/22/1999 | 44,500 | 767 | 64.4 | 1,810 | 2,090 | 191,000 | 186,000 a | --- | --- | --- | --- | 19.05 | 13.45 | 5.60 |
| MW-3 | 3/21/2000 | <25,000 | 466 | <250 | 727 | 2,280 | 126,000 | 155,000 | --- | --- | --- | --- | 19.05 | 10.00 | 9.05 |
| MW-3 | 6/20/2000 | 16,200 | 1,140 | 98.8 | 1,140 | 1,410 | 579,000 | 376,000 a | --- | --- | --- | --- | 19.05 | 11.15 | 7.90 |
| MW-3 | 9/21/2000 | <50,000 | 712 | <500 | 520 | 795 | 293,000 | 298,000 | --- | --- | --- | --- | 19.05 | 11.58 | 7.47 |
| MW-3 | 11/30/2000 | 18,000 | 1,050 | 124 | 1,120 | 2,010 | 543,000 a | 403,000 a | --- | --- | --- | --- | 19.05 | 12.10 | 6.95 |
| MW-3 | 3/6/2001 | 19,900 | 1,290 | 115 | 1,450 | 1,760 | 706,000 | 149,000 | --- | --- | --- | --- | 19.05 | 11.00 | 8.05 |
| MW-3 | 6/28/2001 | <50,000 | 1,200 | <250 | 1,100 | 1,300 | --- | 610,000 | --- | --- | --- | --- | 19.05 | 11.96 | 7.09 |
| MW-3 | 9/12/2001 | <20,000 | 430 | <200 | 230 | 480 | --- | 390,000 | --- | --- | --- | --- | 19.05 | 12.05 | 7.00 |
| MW-3 | 10/23/2001 | 11,000 | 350 | <100 | 210 | 440 | --- | 290,000 | --- | --- | --- | --- | 19.05 | 12.62 | 6.43 |
| MW-3 | 12/12/2001 | <20,000 | 280 | <200 | <200 | <200 | --- | 160,000 | --- | --- | --- | --- | 19.05 | 11.83 | 7.22 |
| MW-3 | 3/8/2002 | <20,000 | 270 | <200 | <200 | <200 | --- | 340,000 | --- | --- | --- | --- | 19.05 | 11.26 | 7.79 |
| MW-3 | 6/6/2002 | <50,000 | 290 | <250 | <250 | <250 | --- | 290,000 | --- | --- | --- | --- | 19.05 | 11.50 | 7.55 |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 9/9/2002 | <20,000 | <200 | <200 | <200 | <200 | --- | 230,000 | --- | --- | --- | --- | 19.06 | 11.92 | 7.14 |
| MW-3 | 12/12/2002 | <50,000 | <200 | <200 | <200 | <500 | --- | 190,000 | --- | --- | --- | --- | 19.06 | 10.95 | 8.11 |
| MW-3 | 2/26/2003 | <25,000 | <250 | <250 | <250 | <250 | --- | 210,000 | --- | --- | --- | --- | 19.06 | 15.01 | 4.05 |
| MW-3 | 4/15/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.06 | 15.12 | 3.94 |
| MW-3 | 6/13/2003 | <25,000 | <250 | <250 | <250 | <500 | --- | 27,000 | --- | --- | --- | --- | 19.06 | 15.25 | 3.81 |
| MW-3 | 9/26/2003 | <10,000 | <100 | <100 | <100 | <200 | --- | 15,000 | --- | --- | --- | --- | 18.08 | 16.65 c | --- |
| MW-3 | 11/24/2003 | <10,000 | <100 | <100 | <100 | <200 | --- | 9,900 | --- | --- | --- | --- | 18.08 | 15.13 | 2.95 |
| MW-3 | 3/1/2004 | <10,000 | <100 | <100 | <100 | <200 | --- | 8,000 | --- | --- | --- | --- | 18.08 | 9.97 | 8.11 |
| MW-3 | 6/15/2004 | <10,000 | <100 | <100 | <100 | <200 | --- | 6,900 | --- | --- | --- | --- | 18.08 | 15.05 | 3.03 |
| MW-3 | 9/16/2004 | <500 | <5.0 | <5.0 | <5.0 | <10 | --- | 1,000 | <20 | <20 | <20 | 75 | 18.08 | 14.70 | 3.38 |
| MW-3 | 12/29/2004 | <250 | 2.8 | <2.5 | <2.5 | <5.0 | --- | 580 | --- | --- | --- | --- | 18.08 | 14.83 | 3.25 |
| MW-3 | 2/28/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.08 | 9.60 | 8.48 |
| MW-3 | 3/23/2005 | <1,000 | <10 | <10 | <10 | <20 | --- | 1500 | --- | --- | --- | --- | 18.08 | 12.68 | 5.40 |
| MW-3 | 5/18/2005 | 1200 | 49 | <10 | 47 | <20 | --- | 3400 | --- | --- | --- | --- | 18.08 | 10.60 | 7.48 |
| MW-3 | 8/16/2005 | --- | --- | --- | --- | --- | --- | 330 | --- | --- | --- | --- | 18.08 | 15.22 | 2.86 |
| MW-3 | 9/15/2005 | <1,000 | <10 | <10 | <10 | <20 | --- | 140 | <40 | <40 | <40 | 180 | 18.08 | 15.30 | 2.78 |
| MW-3 | 10/26/2005 | --- | --- | --- | --- | --- | --- | 48 | --- | --- | --- | --- | 18.08 | 15.00 | 3.08 |
| MW-3 | 12/13/2005 | 482 | 4.56 | 1.64 h | <0.500 | <0.500 | --- | 72.5 | --- | --- | --- | 273 | 18.08 | 11.18 | 6.90 |
| MW-3 | 3/8/2006 | 627 | 2.62 | <0.500 | 1.71 | 1.25 | --- | 175 | --- | --- | --- | 483 | 18.08 | 14.95 | 3.13 |
| MW-3 | 6/27/2006 | 530 | 8.3 | <2.5 | 9.5 | 3.5 | --- | 100 | --- | --- | --- | --- | 18.08 | 14.63 | 3.45 |
| MW-3 | 9/25/2006 | 520 | 12 | <2.5 | 6.5 | <5.0 | --- | 110 | <5.0 | <5.0 | <5.0 | 2,900 | 18.08 | 11.23 | 6.85 |
| MW-3 | 12/21/2006 | 120 | 2.2 | <0.50 | <0.50 | <1.0 | --- | 1.7 | --- | --- | --- | 120 | 18.08 | 11.22 | 6.86 |
| MW-3 | 3/20/2007 | 150 | 0.96 | 1.2 | <0.50 | <1.0 | --- | 19 | --- | --- | --- | 300 | 18.08 | 11.35 | 6.73 |
| MW-3 | 6/18/2007 | 180 | 2.2 | <1.0 | <1.0 | <1.0 | --- | 14 | --- | --- | --- | 780 | 18.08 | 11.22 | 6.86 |
| MW-3 | 8/30/2007 | 200 r | 3.5 | <1.0 | <1.0 | 0.29 p | --- | 29 | <2.0 | <2.0 | <2.0 | 1,500 | 18.08 | 13.59 | 4.49 |
| MW-3 | 12/28/2007 | 140 r | 2.7 | 0.34 p | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | 98 | 18.08 | 11.79 | 6.29 |
| MW-3 | 3/26/2008 | 120 | 1.3 | 1.6 | <1.0 | <1.0 | --- | 3.4 | --- | --- | --- | 150 | 18.08 | 11.05 | 7.03 |
| MW-3 | 5/29/2008 | 130 | 2.4 | <1.0 | <1.0 | <1.0 | --- | 6.0 | --- | --- | --- | 250 | 18.08 | 11.69 | 6.39 |
| MW-3 | 9/25/2008 | 410 | 9.3 | <1.0 | <1.0 | <1.0 | --- | 13 | <2.0 | <2.0 | <2.0 | 1,200 | 18.08 | 12.00 | 6.08 |
| MW-3 | 12/16/2008 | 410 | 14 | <1.0 | <1.0 | <1.0 | --- | 5.5 | --- | --- | --- | 560 | 18.08 | 11.71 | 6.37 |

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 2/26/2009 | 640 | 3.1 | <1.0 | <1.0 | <1.0 | --- | 1.3 | --- | --- | --- | 10 | 18.08 | 10.71 | 7.37 |
| MW-3 | 5/26/2009 | 250 | 1.8 | <1.0 | <1.0 | <1.0 | --- | 2.2 | --- | --- | --- | 59 | 18.08 | 11.53 | 6.55 |
| MW-3 | 9/2/2009 | 260 | 5.3 | <1.0 | <1.0 | <1.0 | --- | 7.0 | <2.0 | <2.0 | <2.0 | 350 | 18.08 | 12.34 | 5.74 |
| MW-3 | 3/10/2010 | 89 | <0.50 | <1.0 | <1.0 | 1.0 | --- | <1.0 | --- | --- | --- | <10 | 18.08 | 10.29 | 7.79 |
| MW-3 | 8/31/2010 | 81 | 1.1 | <1.0 | <1.0 | <1.0 | --- | 5.5 | <2.0 | <2.0 | <2.0 | 230 | 18.08 | 11.80 | 6.28 |
| **MW-3** | **3/8/2011** | **<50** | **<0.50** | **<0.50** | **<0.50** | **<1.0** | **---** | **<1.0** | **---** | **---** | **---** | **<10** | **18.08** | **10.37** | **7.71** |
| MW-4 | 5/13/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.64 | --- |
| MW-4 | 5/20/2002 | <1,000 | <10 | <10 | <10 | <10 | --- | 4,600 | --- | --- | --- | --- | --- | 10.64 | --- |
| MW-4 | 6/6/2002 | <1,000 | <10 | <10 | <10 | <10 | --- | 4,800 | --- | --- | --- | --- | --- | 10.61 | --- |
| MW-4 | 9/9/2002 | Unable to sample | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.03 | 11.07 | 6.96 |
| MW-4 | 9/18/2002 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | --- | 1,000 | --- | --- | --- | --- | 18.03 | 11.15 | 6.88 |
| MW-4 | 12/12/2002 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | --- | 370 | --- | --- | --- | --- | 18.03 | 11.13 | 6.90 |
| MW-4 | 2/26/2003 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | <5.0 | --- | --- | --- | --- | 18.03 | 10.61 | 7.42 |
| MW-4 | 4/15/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.03 | 10.73 | 7.30 |
| MW-4 | 6/13/2003 | 180 b | <0.50 | 110 | <0.50 | <1.0 | --- | 2.3 | --- | --- | --- | --- | 18.03 | 10.88 | 7.15 |
| MW-4 | 9/26/2003 | <5,000 | <50 | <50 | <50 | <100 | --- | 13,000 | --- | --- | --- | --- | 18.03 | 11.58 | 6.45 |
| MW-4 | 11/24/2003 | <13,000 | <130 | <130 | <130 | <250 | --- | 11,000 | --- | --- | --- | --- | 18.03 | 11.78 | 6.25 |
| MW-4 | 3/1/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 18.03 | 9.47 | 8.56 |
| MW-4 | 6/15/2004 | <500 | <5.0 | <5.0 | <5.0 | <10 | --- | 630 | --- | --- | --- | --- | 18.03 | 11.38 | 6.65 |
| MW-4 | 9/16/2004 | <100 | <1.0 | 12 | <1.0 | <2.0 | --- | 280 | <4.0 | <4.0 | <4.0 | 280 | 18.03 | 11.80 | 6.23 |
| MW-4 | 12/29/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 18.03 | 10.63 | 7.40 |
| MW-4 | 2/28/2005 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <0.50 | --- | --- | --- | --- | 18.03 | 9.20 | 8.83 |
| MW-4 | 3/23/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.03 | 9.43 | 8.60 |
| MW-4 | 5/18/2005 | 1,900 | <5.0 | <5.0 | 16 | 97 | --- | 910 | --- | --- | --- | --- | 18.03 | 9.75 | 8.28 |
| MW-4 | 8/16/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.03 | 10.85 | 7.18 |
| MW-4 | 9/15/2005 | <2,500 | <25 | <25 | <25 | 85 | --- | 5,100 | <100 | <100 | <100 | 400 | 18.03 | 11.30 | 6.73 |
| MW-4 | 10/26/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.03 | 11.45 | 6.58 |
| MW-4 | 12/13/2005 | 3,480 | <0.500 | 1.54 h | <0.500 | <0.500 | --- | 2,490 j | --- | --- | --- | 201 | 18.03 | 11.70 | 6.33 |
| MW-4 | 3/8/2006 | 1,560 | <0.500 | 0.910 | <0.500 | 3.39 | --- | 0.870 | --- | --- | --- | <10.0 | 18.03 | 9.25 | 8.78 |

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

| *Well ID* | *Date* | *TPPH (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)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | 6/27/2006 | 75 | <0.50 | 18 | <0.50 | <0.50 | --- | 63 | --- | --- | --- | <20 | 18.03 | 10.12 | 7.91 |
| MW-4 | 9/25/2006 | 670 n | <10 | <10 | <10 | <20 | --- | 1,400 | <20 | <20 | <20 | 430 | 18.03 | 11.23 | 6.80 |
| MW-4 | 12/21/2006 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 2.0 | --- | --- | --- | 6.8 | 18.03 | 10.37 | 7.66 |
| MW-4 | 3/20/2007 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | <1.0 | --- | --- | --- | <10 | 18.03 | 9.84 | 8.19 |
| MW-4 | 6/18/2007 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | 7.1 p | 18.03 | 10.62 | 7.41 |
| MW-4 | 8/30/2007 | <50 r | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | <2.0 | <2.0 | <2.0 | <10 | 18.03 | 11.93 | 6.10 |
| MW-4 | 12/28/2007 | 160 r, q | <0.50 | 130 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | <10 | 18.03 | 11.97 | 6.06 |
| MW-4 | 3/26/2008 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | <10 | 18.03 | 11.34 | 6.69 |
| MW-4 | 5/29/2008 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 3.4 | --- | --- | --- | <10 | 18.03 | 11.87 | 6.16 |
| MW-4 | 9/25/2008 | <50 | <0.50 | 1.3 | <1.0 | <1.0 | --- | 4.5 | <2.0 | <2.0 | <2.0 | <10 | 18.03 | 12.35 | 5.68 |
| MW-4 | 12/16/2008 | 630 | <0.50 | 360 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | <10 | 18.03 | 12.47 | 5.56 |
| MW-4 | 2/26/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | <10 | 18.03 | 10.29 | 7.74 |
| MW-4 | 5/26/2009 | <50 | <0.50 | 3.6 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | <10 | 18.03 | 11.74 | 6.29 |
| MW-4 | 9/2/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 5.9 | <2.0 | <2.0 | <2.0 | <10 | 18.03 | 12.60 | 5.43 |
| MW-4 | 3/10/2010 | <50 | <0.50 | 1.6 | <1.0 | <1.0 | --- | <1.0 | --- | --- | --- | <10 | 18.03 | 9.95 | 8.08 |
| MW-4 | 8/31/2010 | 400 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.1 | <2.0 | <2.0 | <2.0 | 30 | 18.03 | 12.12 | 5.91 |
| **MW-4** | **3/8/2011** | **73 n** | **<0.50** | **44** | **<0.50** | **<1.0** | **---** | **<1.0** | **---** | **---** | **---** | **<10** | **18.03** | **10.66** | **7.37** |
| MW-5 | 5/13/2002 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.40 | --- |
| MW-5 | 5/20/2002 | <2,500 | <25 | <25 | <25 | <25 | --- | 17,000 | --- | --- | --- | --- | --- | 10.41 | --- |
| MW-5 | 6/6/2002 | <5,000 | <50 | <50 | <50 | <50 | --- | 15,000 | --- | --- | --- | --- | --- | 10.36 | --- |
| MW-5 | 9/9/2002 | Unable to sample | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.78 | 10.82 | 6.96 |
| MW-5 | 9/18/2002 | <2,500 | <25 | <25 | <25 | <25 | --- | 16,000 | --- | --- | --- | --- | 17.78 | 10.81 | 6.97 |
| MW-5 | 12/12/2002 | <2,500 | <25 | <25 | <25 | <25 | --- | 13,000 | --- | --- | --- | --- | 17.78 | 10.83 | 6.95 |
| MW-5 | 2/26/2003 | <2,000 | <20 | <20 | <20 | <20 | --- | 7,500 | --- | --- | --- | --- | 17.78 | 10.57 | 7.21 |
| MW-5 | 4/15/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.78 | 10.69 | 7.09 |
| MW-5 | 6/13/2003 | <2,500 | <25 | <25 | <25 | <50 | --- | 4,400 | --- | --- | --- | --- | 17.78 | 10.82 | 6.96 |
| MW-5 | 9/26/2003 | <2,500 | <25 | <25 | <25 | <50 | --- | 4,700 | --- | --- | --- | --- | 17.78 | 11.49 | 6.29 |
| MW-5 | 11/24/2003 | <10,000 | <100 | <100 | <100 | <200 | --- | 7,100 | --- | --- | --- | --- | 17.78 | 11.70 | 6.08 |
| MW-5 | 3/1/2004 | <2,000 | <20 | <20 | <20 | <40 | --- | 2,800 | --- | --- | --- | --- | 17.78 | 9.68 | 8.10 |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| *Well ID* | *Date* | *TPPH (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)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5 | 6/15/2004 | <2,000 | <20 | <20 | <20 | <40 | --- | 2,100 | --- | --- | --- | --- | 17.78 | 11.28 | 6.50 |
| MW-5 | 9/16/2004 | <2,000 | <20 | <20 | <20 | <40 | --- | 2,200 | <80 | <80 | <80 | 2,800 | 17.78 | 11.62 | 6.16 |
| MW-5 | 12/29/2004 | <2,000 | <20 | <20 | <20 | <40 | --- | 3,700 | --- | --- | --- | --- | 17.78 | 11.11 | 6.67 |
| MW-5 | 2/28/2005 | <200 | <2.0 | <2.0 | <2.0 | <4.0 | --- | 740 | --- | --- | --- | --- | 17.78 | 9.50 | 8.28 |
| MW-5 | 3/23/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.78 | 9.70 | 8.08 |
| MW-5 | 5/18/2005 | <50 g | <0.50 | <0.50 | <0.50 | <1.0 | --- | 180 | --- | --- | --- | --- | 17.78 | 9.49 | 8.29 |
| MW-5 | 6/17/2005 | --- | --- | --- | --- | --- | --- | 270 | --- | --- | --- | --- | 17.78 | 9.89 | 7.89 |
| MW-5 | 7/15/2005 | --- | --- | --- | --- | --- | --- | 350 | --- | --- | --- | --- | 17.78 | 10.20 | 7.58 |
| MW-5 | 8/16/2005 | --- | --- | --- | --- | --- | --- | 270 | --- | --- | --- | --- | 17.78 | 10.50 | 7.28 |
| MW-5 | 9/15/2005 | <250 | <2.5 | <2.5 | <2.5 | <5.0 | --- | 500 | <10 | <10 | <10 | 670 | 17.78 | 10.96 | 6.82 |
| MW-5 | 10/26/2005 | --- | --- | --- | --- | --- | --- | 260 | --- | --- | --- | --- | 17.78 | 11.22 | 6.56 |
| MW-5 | 12/13/2005 | 438 | <0.500 | 1.49 h | <0.500 | <0.500 | --- | 167 | --- | --- | --- | 452 | 17.78 | 11.05 | 6.73 |
| MW-5 | 3/8/2006 | 330 | <0.500 | <0.500 | <0.500 | <0.500 | --- | 169 | --- | --- | --- | 206 | 17.78 | 9.30 | 8.48 |
| MW-5 | 6/27/2006 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | 60 | --- | --- | --- | 75 | 17.78 | 9.83 | 7.95 |
| MW-5 | 9/25/2006 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 22 | <1.0 | <1.0 | <1.0 | <10 | 17.78 | 10.96 | 6.82 |
| MW-5 | 12/21/2006 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 2.4 | --- | --- | --- | <5.0 | 17.78 | 11.00 | 6.78 |
| MW-5 | 3/20/2007 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 1.7 | --- | --- | --- | <10 | 17.78 | 10.51 | 7.27 |
| MW-5 | 6/18/2007 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 2.0 | --- | --- | --- | 61 | 17.78 | 11.18 | 6.60 |
| MW-5 | 8/30/2007 | <50 r | <0.50 | <1.0 | <1.0 | <1.0 | --- | 2.3 | <2.0 | <2.0 | <2.0 | 170 | 17.78 | 11.65 | 6.13 |
| MW-5 | 12/28/2007 | <50 r | <0.50 | <1.0 | <1.0 | <1.0 | --- | 3.0 | --- | --- | --- | 830 | 17.78 | 11.90 | 5.88 |
| MW-5 | 3/26/2008 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.7 | --- | --- | --- | 55 | 17.78 | 11.11 | 6.67 |
| MW-5 | 5/29/2008 | 65 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 3.9 | --- | --- | --- | 940 | 17.78 | 11.52 | 6.26 |
| MW-5 | 9/25/2008 | 64 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 3.3 | <2.0 | <2.0 | <2.0 | 560 | 17.78 | 12.00 | 5.78 |
| MW-5 | 12/16/2008 | 63 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 3.3 | --- | --- | --- | 850 | 17.78 | 12.30 | 5.48 |
| MW-5 | 2/26/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 2.1 | --- | --- | --- | 850 | 17.78 | 11.08 | 6.70 |
| MW-5 | 5/26/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.2 | --- | --- | --- | 19 | 17.78 | 11.43 | 6.35 |
| MW-5 | 9/2/2009 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.6 | <2.0 | <2.0 | <2.0 | 180 | 17.78 | 12.24 | 5.54 |
| MW-5 | 3/10/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.3 | --- | --- | --- | 170 | 17.78 | 10.59 | 7.19 |
| MW-5 | 8/31/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.8 | <2.0 | <2.0 | <2.0 | 490 | 17.78 | 11.75 | 6.03 |
| **MW-5** | **3/8/2011** | **<50** | **<0.50** | **<0.50** | **<0.50** | **<1.0** | **---** | **1.0** | **---** | **---** | **---** | **270** | **17.78** | **10.44** | **7.34** |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| *Well ID* | *Date* | *TPPH (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)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 3/28/2003 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.10 | --- | --- |
| MW-6 | 4/7/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.10 | 13.80 | 4.30 |
| MW-6 | 4/15/2003 | 14,000 | <250 | <250 | <250 | <500 | --- | 41,000 | --- | --- | --- | --- | 18.10 | 15.05 | 3.05 |
| MW-6 | 6/13/2003 | <10,000 | <100 | <100 | <100 | <200 | --- | 27,000 | --- | --- | --- | --- | 18.10 | 14.42 | 3.68 |
| MW-6 | 9/26/2003 | <5,000 | <50 | <50 | <50 | <100 | --- | 11,000 | --- | --- | --- | --- | 18.05 | 18.35 c | --- |
| MW-6 | 11/24/2003 | <10,000 | <100 | <100 | <100 | <200 | --- | 5,000 | --- | --- | --- | --- | 18.05 | 14.68 | 3.37 |
| MW-6 | 3/1/2004 | <1,000 | <10 | <10 | <10 | <20 | --- | 2,500 | --- | --- | --- | --- | 18.05 | 9.84 | 8.21 |
| MW-6 | 6/15/2004 | <1,000 | <10 | <10 | <10 | <20 | --- | 2,800 | --- | --- | --- | --- | 18.05 | 14.82 | 3.23 |
| MW-6 | 9/16/2004 | <1,000 | <10 | <10 | <10 | <20 | --- | 830 | <40 | <40 | <40 | 610 | 18.05 | 14.20 | 3.85 |
| MW-6 | 12/29/2004 | <200 | <2.0 | <2.0 | <2.0 | <4.0 | --- | 530 | --- | --- | --- | --- | 18.05 | 14.78 | 3.27 |
| MW-6 | 2/28/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.05 | 9.58 | 8.47 |
| MW-6 | 3/23/2005 | 290 f | <2.0 | <2.0 | <2.0 | <4.0 | --- | 590 | --- | --- | --- | --- | 18.05 | 14.22 | 3.83 |
| MW-6 | 5/18/2005 | 390 | 8.7 | <0.50 | 0.93 | 9.0 | --- | 68 | --- | --- | --- | --- | 18.05 | 9.79 | 8.26 |
| MW-6 | 8/16/2005 | --- | --- | --- | --- | --- | --- | 34 | --- | --- | --- | --- | 18.05 | 10.64 | 7.41 |
| MW-6 | 9/15/2005 | <500 | <5.0 | <5.0 | <5.0 | <10 | --- | 45 | <20 | <20 | <20 | 21,000 e | 18.05 | 11.83 | 6.22 |
| MW-6 | 10/26/2005 | --- | --- | --- | --- | --- | --- | 31 | --- | --- | --- | --- | 18.05 | 11.31 | 6.74 |
| MW-6 | 12/13/2005 | 982 | <0.500 | 1.36 h | <0.500 | <0.500 | --- | 35.1 | --- | --- | --- | 11,300 i | 18.05 | 11.22 | 6.83 |
| MW-6 | 3/8/2006 | 2,110 | <0.500 | <0.500 | <0.500 | <0.500 | --- | 29.6 | --- | --- | --- | 21,800 | 18.05 | 9.50 | 8.55 |
| MW-6 | 6/27/2006 | 510 | <0.50 | <0.50 | <0.50 | <0.50 | --- | 94 | --- | --- | --- | <20 | 18.05 | 9.84 | 8.21 |
| MW-6 | 9/25/2006 | 730 n | <25 | <25 | <25 | <50 | --- | <50 | <50 | <50 | <50 | 16,000 | 18.05 | 11.08 | 6.97 |
| MW-6 | 12/21/2006 | 890 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 30 | --- | --- | --- | 33,000 | 18.05 | 11.12 | 6.93 |
| MW-6 | 3/20/2007 | <1,200 o | <12 | <12 | <12 | <25 | --- | 30 | --- | --- | --- | 33,000 | 18.05 | 10.66 | 7.39 |
| MW-6 | 6/18/2007 | 400 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 34 | --- | --- | --- | 82,000 | 18.05 | 11.30 | 6.75 |
| MW-6 | 8/30/2007 | 650 r | <50 | <100 | <100 | <100 | --- | 38 p | <200 | <200 | <200 | 32,000 | 18.05 | 11.81 | 6.24 |
| MW-6 | 12/28/2007 | 170 r | <25 | <50 | <50 | <50 | --- | 28 p | --- | --- | --- | 36,000 | 18.05 | 11.97 | 6.08 |
| MW-6 | 3/26/2008 | 1,300 | <5.0 | <10 | <10 | <10 | --- | 26 | --- | --- | --- | 36,000 | 18.05 | 10.83 | 7.22 |
| MW-6 | 5/29/2008 | 2,500 | <25 | <50 | <50 | <50 | --- | <50 | --- | --- | --- | 41,000 | 18.05 | 11.80 | 6.25 |
| MW-6 | 9/25/2008 | 4,100 | <25 | <50 | <50 | <50 | --- | <50 | <100 | <100 | <100 | 44,000 | 18.05 | 12.23 | 5.82 |
| MW-6 | 12/16/2008 | 1,900 | <10 | <20 | <20 | <20 | --- | <20 | --- | --- | --- | 28,000 | 18.05 | 12.40 | 5.65 |

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 2/26/2009 | 1,500 | <10 | <20 | <20 | <20 | --- | <20 | --- | --- | --- | 27,000 | 18.05 | 11.05 | 7.00 |
| MW-6 | 5/26/2009 | 1,500 | <10 | <20 | <20 | <20 | --- | <20 | --- | --- | --- | 29,000 | 18.05 | 11.52 | 6.53 |
| MW-6 | 9/2/2009 | 1,800 | <10 | <20 | <20 | <20 | --- | <20 | <40 | <40 | <40 | 35,000 | 18.05 | 12.25 | 5.80 |
| MW-6 | 3/10/2010 | <1,000 | <10 | <20 | <20 | <20 | --- | <20 | --- | --- | --- | 25,000 | 18.05 | 10.94 | 7.11 |
| MW-6 | 8/31/2010 | 610 | <5.0 | <10 | <10 | <10 | --- | 15 | <20 | <20 | <20 | 20,000 | 18.05 | 11.90 | 6.15 |
| **MW-6** | **12/21/2010** | **<1,000** | **<10** | **<20** | **<20** | **<20** | **---** | **<20** | **---** | **---** | **---** | **19,000** | **18.05** | **11.01** | **7.04** |
| **MW-6** | **3/8/2011** | **<1,200** | **<12** | **<12** | **<12** | **<25** | **---** | **<25** | **---** | **---** | **---** | **8,200** | **18.05** | **10.59** | **7.46** |
| MW-7 | 3/28/2003 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.16 | --- | --- |
| MW-7 | 4/7/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.16 | 13.85 | 5.31 |
| MW-7 | 4/15/2003 | 6,000 | <100 | <100 | <100 | <200 | --- | 19,000 | --- | --- | --- | --- | 19.16 | 13.95 | 5.21 |
| MW-7 | 6/13/2003 | <5,000 | <50 | <50 | <50 | <100 | --- | 5,700 | --- | --- | --- | --- | 19.16 | 13.92 | 5.24 |
| MW-7 | 9/26/2003 | <250 | <2.5 | <2.5 | <2.5 | <5.0 | --- | 110 | --- | --- | --- | --- | 19.13 | 13.85 | 5.28 |
| MW-7 | 11/24/2003 | <50 | <0.50 | 0.59 | <0.50 | 1.7 | --- | 7.6 | --- | --- | --- | --- | 19.13 | 13.99 | 5.14 |
| MW-7 | 3/1/2004 | 67 b | <0.50 | <0.50 | <0.50 | <1.0 | --- | 120 | --- | --- | --- | --- | 19.13 | 10.85 | 8.28 |
| MW-7 | 6/15/2004 | 120 b | <0.50 | <0.50 | <0.50 | <1.0 | --- | 89 | --- | --- | --- | --- | 19.13 | 13.27 | 5.86 |
| MW-7 | 9/16/2004 | <500 | <5.0 | <5.0 | <5.0 | <10 | --- | 130 | <20 | <20 | <20 | 4,700 | 19.13 | 12.83 | 6.30 |
| MW-7 | 12/29/2004 | <500 | <5.0 | <5.0 | <5.0 | <10 | --- | 130 | --- | --- | --- | --- | 19.13 | 11.82 | 7.31 |
| MW-7 | 2/28/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.13 | 10.59 | 8.54 |
| MW-7 | 3/23/2005 | <1,000 | <10 | <10 | <10 | <20 | --- | 16 | --- | --- | --- | --- | 19.13 | 11.16 | 7.97 |
| MW-7 | 5/18/2005 | 67 g | <0.50 | <0.50 | <0.50 | <1.0 | --- | 12 | --- | --- | --- | --- | 19.13 | 10.42 | 8.71 |
| MW-7 | 8/16/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.13 | 11.52 | 7.61 |
| MW-7 | 9/15/2005 | <500 | <5.0 | <5.0 | <5.0 | <10 | --- | 75 | <20 | <20 | <20 | 16,000 | 19.13 | 11.95 | 7.18 |
| MW-7 | 10/26/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.13 | 12.23 | 6.90 |
| MW-7 | 12/13/2005 | 1,210 | <0.500 | <0.500 | <0.500 | <0.500 | --- | 19.1 | --- | --- | --- | 14,600 i | 19.13 | 12.15 | 6.98 |
| MW-7 | 3/8/2006 | 989 | <0.500 | <0.500 | <0.500 | <0.500 | --- | 7.29 | --- | --- | --- | 14,000 | 19.13 | 10.70 | 8.43 |
| MW-7 | 6/27/2006 | 370 | <0.50 | <0.50 | <0.50 | <0.50 | --- | 16 | --- | --- | --- | 20,000 l | 19.13 | 10.77 | 8.36 |
| MW-7 | 9/25/2006 | 840 n | <10 | <10 | <10 | <20 | --- | <20 | <20 | <20 | <20 | 22,000 | 19.13 | 12.04 | 7.09 |
| MW-7 | 12/21/2006 | 740 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 7.5 | --- | --- | --- | 27,000 | 19.13 | 12.18 | 6.95 |
| MW-7 | 3/20/2007 | 460 n | <50 | <50 | <50 | <100 | --- | <100 | --- | --- | --- | 24,000 | 19.13 | 11.67 | 7.46 |

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | 6/18/2007 | 310 q | <5.0 | <10 | <10 | <10 | --- | 2.7 p | --- | --- | --- | 32,000 | 19.13 | 12.31 | 6.82 |
| MW-7 | 8/30/2007 | 560 r | <25 | <50 | <50 | <50 | --- | <50 | <100 | <100 | <100 | 28,000 | 19.13 | 12.76 | 6.37 |
| MW-7 | 12/28/2007 | 74 r | <25 | <50 | <50 | <50 | --- | <50 | --- | --- | --- | 26,000 | 19.13 | 12.85 | 6.28 |
| MW-7 | 3/26/2008 | 1,400 | <5.0 | <10 | <10 | <10 | --- | <10 | --- | --- | --- | 32,000 | 19.13 | 12.04 | 7.09 |
| MW-7 | 5/29/2008 | 3,000 | <25 | <50 | <50 | <50 | --- | <50 | --- | --- | --- | 44,000 | 19.13 | 12.80 | 6.33 |
| MW-7 | 9/25/2008 | 3,600 | <25 | <50 | <50 | <50 | --- | <50 | <100 | <100 | <100 | 36,000 | 19.13 | 13.14 | 5.99 |
| MW-7 | 12/16/2008 | 1,700 | <10 | <20 | <20 | <20 | --- | <20 | --- | --- | --- | 29,000 | 19.13 | 13.34 | 5.79 |
| MW-7 | 2/26/2009 | 1,300 | <10 | <20 | <20 | <20 | --- | <20 | --- | --- | --- | 19,000 | 19.13 | 12.16 | 6.97 |
| MW-7 | 5/26/2009 | 1,600 | <10 | <20 | <20 | <20 | --- | <20 | --- | --- | --- | 32,000 | 19.13 | 12.56 | 6.57 |
| MW-7 | 9/2/2009 | 1,800 | <10 | <20 | <20 | <20 | --- | <20 | <40 | <40 | <40 | 33,000 | 19.13 | 13.44 | 5.69 |
| MW-7 | 3/10/2010 | <1,000 | <10 | <20 | <20 | <20 | --- | <20 | --- | --- | --- | 25,000 | 19.13 | 11.62 | 7.51 |
| MW-7 | 8/31/2010 | <1,000 | <10 | <20 | <20 | <20 | --- | <20 | <40 | <40 | <40 | 27,000 | 19.13 | 12.90 | 6.23 |
| **MW-7** | **12/21/2010** | **<2,500** | **<25** | **<50** | **<50** | <50 | --- | **<50** | --- | --- | --- | 22,000 | **19.13** | **12.11** | **7.02** |
| **MW-7** | **3/8/2011** | **<2,000** | **<20** | **<20** | **<20** | **<40** | --- | <40 | --- | --- | --- | 9,600 | **19.13** | **11.51** | **7.62** |
| MW-8 | 3/28/2003 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.72 | --- | --- |
| MW-8 | 4/7/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.72 | 14.13 | 4.59 |
| MW-8 | 4/15/2003 | 890 | 29 | 22 | 15 | 71 | --- | 430 | --- | --- | --- | --- | 18.72 | 14.10 | 4.62 |
| MW-8 | 6/13/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.72 | 13.94 | 4.78 |
| MW-8 | 9/26/2003 | <250 | 55 | 51 | 33 | 140 | --- | 330 | --- | --- | --- | --- | 18.71 | 14.21 | 4.50 |
| MW-8 | 11/24/2003 | <5,000 | <50 | <50 | <50 | <100 | --- | 5,600 | --- | --- | --- | --- | 18.71 | 14.16 | 4.55 |
| MW-8 | 3/1/2004 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 12 | --- | --- | --- | --- | 18.71 | 10.34 | 8.37 |
| MW-8 | 6/15/2004 | 2,800 | 170 | 240 | 140 | 560 | --- | 440 | --- | --- | --- | --- | 18.71 | 13.88 | 4.83 |
| MW-8 | 9/16/2004 | 2,500 | 180 | 200 | 120 | 490 | --- | 480 | <10 | <10 | <10 | 260 | 18.71 | 13.92 | 4.79 |
| MW-8 | 12/29/2004 | 4,400 | 360 | 600 | 280 | 1,400 | --- | 690 | --- | --- | --- | --- | 18.71 | 13.44 | 5.27 |
| MW-8 | 2/28/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.71 | 10.15 | 8.56 |
| MW-8 | 3/23/2005 | 2,800 | 120 | 190 | 110 | 420 | --- | 300 | --- | --- | --- | --- | 18.71 | 13.79 | 4.92 |
| MW-8 | 5/18/2005 | 250 | 34 | 3.4 | 6.6 | 27 | --- | 110 | --- | --- | --- | --- | 18.71 | 10.85 | 7.86 |
| MW-8 | 8/16/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.71 | 10.95 | 7.76 |
| MW-8 | 9/15/2005 | 460 f | 54 | 21 | 24 | 92 | --- | 250 | <4.0 | <4.0 | <4.0 | 130 | 18.71 | 11.38 | 7.33 |

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8 | 10/26/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.71 | 11.75 | 6.96 |
| MW-8 | 12/13/2005 | 1,180 | 49.6 | 4.89 h | 15.2 | 76.0 | --- | 320 j | --- | --- | --- | 1,870 | 18.71 | 11.80 | 6.91 |
| MW-8 | 3/8/2006 | 1,040 | 48.0 | 1.82 | 5.07 | 19.9 | --- | 271 | --- | --- | --- | 190 | 18.71 | 10.50 | 8.21 |
| MW-8 | 6/27/2006 | 730 | 80 | <2.5 | 8.6 | 28 | --- | 360 | --- | --- | --- | 500 k | 18.71 | 10.00 | 8.71 |
| MW-8 | 9/25/2006 | 830 | 120 | 4.1 | 3.0 | 15 | --- | 260 | 3.7 | <2.5 | <2.5 | 420 | 18.71 | 11.42 | 7.29 |
| MW-8 | 12/21/2006 | 1,200 | 140 | 3.8 | 2.3 | 12 | --- | 190 | --- | --- | --- | 1,100 | 18.71 | 12.08 | 6.63 |
| MW-8 | 3/20/2007 | 660 | 100 | 2.3 | 1.3 | 2.9 | --- | 280 | --- | --- | --- | 660 | 18.71 | 11.56 | 7.15 |
| MW-8 | 6/18/2007 | 1,200 | 270 | 4.9 | 2.0 | 6.21 | --- | 230 | --- | --- | --- | 1,300 | 18.71 | 11.72 | 6.99 |
| MW-8 | 8/30/2007 | 1,100 r | 160 | 3.8 | 2.3 | 7.64 p | --- | 150 | 5.2 | <2.0 | <2.0 | 840 | 18.71 | 12.22 | 6.49 |
| MW-8 | 12/28/2007 | 610 r | 89 | 1.8 | 0.58 p | 2.33 p | --- | 140 | --- | --- | --- | 820 | 18.71 | 12.26 | 6.45 |
| MW-8 | 3/26/2008 | 240 | 19 | <1.0 | <1.0 | <1.0 | --- | 58 | --- | --- | --- | 390 | 18.71 | 11.45 | 7.26 |
| MW-8 | 5/29/2008 | 290 | 25 | <1.0 | <1.0 | <1.0 | --- | 99 | --- | --- | --- | 800 | 18.71 | 12.13 | 6.58 |
| MW-8 | 9/25/2008 | 500 | 32 | <1.0 | <1.0 | 1.3 | --- | 63 | 2.5 | <2.0 | <2.0 | 930 | 18.71 | 15.31 | 3.40 |
| MW-8 | 12/16/2008 | 550 | 71 | 1.4 | <1.0 | 1.8 | --- | 46 | --- | --- | --- | 1,400 | 18.71 | 12.92 | 5.79 |
| MW-8 | 2/26/2009 | 120 | 0.97 | <1.0 | <1.0 | <1.0 | --- | 4.9 | --- | --- | --- | 62 | 18.71 | 11.50 | 7.21 |
| MW-8 | 5/26/2009 | 200 | 18 | <1.0 | <1.0 | <1.0 | --- | 39 | --- | --- | --- | 710 | 18.71 | 11.91 | 6.80 |
| MW-8 | 9/2/2009 | 480 | 55 | 1.6 | <1.0 | 3.4 | --- | 48 | 2.6 | <2.0 | <2.0 | 1,200 | 18.71 | 12.90 | 5.81 |
| MW-8 | 3/10/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.6 | --- | --- | --- | 14 | 18.71 | 11.02 | 7.69 |
| MW-8 | 8/31/2010 | 650 | 110 | 11 | 6.5 | 25 | --- | 48 | 2.2 | <2.0 | <2.0 | 1,200 | 18.71 | 12.20 | 6.51 |
| **MW-8** | **3/8/2011** | **97** | **<0.50** | **<0.50** | **<0.50** | **<1.0** | **---** | **3.7** | **---** | **---** | **---** | **23** | **18.71** | **10.80** | **7.91** |
| MW-9 | 3/28/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.78 | 11.19 | 7.59 |
| MW-9 | 4/15/2003 | 420 | <2.5 | <2.5 | <2.5 | 6.3 | --- | 37 | --- | --- | --- | --- | 18.78 | 11.24 | 7.54 |
| MW-9 | 6/13/2003 | 290 b | <0.50 | <0.50 | <0.50 | 2.6 | --- | 34 | --- | --- | --- | --- | 18.78 | 11.39 | 7.39 |
| MW-9 | 9/26/2003 | 540 b | <0.50 | <0.50 | <0.50 | 9.2 | --- | 21 | --- | --- | --- | --- | 18.78 | 12.12 | 6.66 |
| MW-9 | 11/24/2003 | 650 d | <0.50 | <0.50 | <0.50 | 6.3 | --- | 14 | --- | --- | --- | --- | 18.78 | 12.30 | 6.48 |
| MW-9 | 3/1/2004 | 230 d | <0.50 | <0.50 | <0.50 | 1.7 | --- | 7.7 | --- | --- | --- | --- | 18.78 | 10.45 | 8.33 |
| MW-9 | 6/15/2004 | 280 | <0.50 | <0.50 | <0.50 | 1.9 | --- | 8.3 | --- | --- | --- | --- | 18.78 | 11.88 | 6.90 |
| MW-9 | 9/16/2004 | 260 | <0.50 | <0.50 | <0.50 | 1.5 | --- | 3.9 | <2.0 | <2.0 | <2.0 | <5.0 | 18.78 | 12.26 | 6.52 |
| MW-9 | 12/29/2004 | 220 | <0.50 | <0.50 | <0.50 | 1.2 | --- | 3.5 | --- | --- | --- | --- | 18.78 | 11.76 | 7.02 |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| Well ID | Date | TPPH (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8 | 8/31/2010 | 650 | 110 | 11 | 6.5 | 25 | --- | 48 | 2.2 | <2.0 | <2.0 | 1,200 | 18.71 | 12.20 | 6.51 |
| **MW-8** | **3/8/2011** | 97 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 3.7 | --- | --- | --- | 23 | 18.71 | 10.80 | 7.91 |
| MW-9 | 3/28/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.78 | 11.19 | 7.59 |
| MW-9 | 4/15/2003 | 420 | <2.5 | <2.5 | <2.5 | 6.3 | --- | 37 | --- | --- | --- | --- | 18.78 | 11.24 | 7.54 |
| MW-9 | 6/13/2003 | 290 b | <0.50 | <0.50 | <0.50 | 2.6 | --- | 34 | --- | --- | --- | --- | 18.78 | 11.39 | 7.39 |
| MW-9 | 9/26/2003 | 540 b | <0.50 | <0.50 | <0.50 | 9.2 | --- | 21 | --- | --- | --- | --- | 18.78 | 12.12 | 6.66 |
| MW-9 | 11/24/2003 | 650 d | <0.50 | <0.50 | <0.50 | 6.3 | --- | 14 | --- | --- | --- | --- | 18.78 | 12.30 | 6.48 |
| MW-9 | 3/1/2004 | 230 d | <0.50 | <0.50 | <0.50 | 1.7 | --- | 7.7 | --- | --- | --- | --- | 18.78 | 10.45 | 8.33 |
| MW-9 | 6/15/2004 | 280 | <0.50 | <0.50 | <0.50 | 1.9 | --- | 8.3 | --- | --- | --- | --- | 18.78 | 11.88 | 6.90 |
| MW-9 | 9/16/2004 | 260 | <0.50 | <0.50 | <0.50 | 1.5 | --- | 3.9 | <2.0 | <2.0 | <2.0 | <5.0 | 18.78 | 12.26 | 6.52 |
| MW-9 | 12/29/2004 | 220 | <0.50 | <0.50 | <0.50 | 1.2 | --- | 3.5 | --- | --- | --- | --- | 18.78 | 11.76 | 7.02 |
| MW-9 | 2/28/2005 | 140 g | <0.50 | <0.50 | <0.50 | <1.0 | --- | 1.5 | --- | --- | --- | --- | 18.78 | 10.21 | 8.57 |
| MW-9 | 3/23/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.78 | 10.14 | 8.64 |
| MW-9 | 5/18/2005 | 210 g | <0.50 | <0.50 | <0.50 | <1.0 | --- | 2.8 | --- | --- | --- | --- | 18.78 | 10.21 | 8.57 |
| MW-9 | 8/16/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.78 | 11.25 | 7.53 |
| MW-9 | 9/15/2005 | 230 g | <0.50 | <0.50 | <0.50 | 1.1 | --- | 2.6 | <2.0 | <2.0 | <2.0 | <5.0 | 18.78 | 11.75 | 7.03 |
| MW-9 | 10/26/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.78 | 11.97 | 6.81 |
| MW-9 | 12/13/2005 | 504 | <0.500 | <0.500 | <0.500 | 2.53 | --- | 2.88 | --- | --- | --- | --- | 18.78 | 11.92 | 6.86 |
| MW-9 | 3/8/2006 | 205 | <0.500 | <0.500 | <0.500 | <0.500 | --- | 1.45 | --- | --- | --- | --- | 18.78 | 10.05 | 8.73 |
| MW-9 | 6/27/2006 | 260 | <0.50 | <0.50 | <0.50 | <0.50 | --- | 1.9 | --- | --- | --- | --- | 18.78 | 10.64 | 8.14 |
| MW-9 | 9/25/2006 | 160 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 1.6 | <1.0 | <1.0 | <1.0 | <10 | 18.78 | 11.78 | 7.00 |
| MW-9 | 12/21/2006 | 300 | <0.50 | <0.50 | <0.50 | <1.0 | --- | 1.4 | --- | --- | --- | --- | 18.78 | 11.86 | 6.92 |
| MW-9 | 3/20/2007 | 150 n | <0.50 | <0.50 | <0.50 | <1.0 | --- | 1.2 | --- | --- | --- | --- | 18.78 | 11.34 | 7.44 |
| MW-9 | 6/18/2007 | 81 | 0.18 p | <1.0 | <1.0 | 0.27 p | --- | 1.2 | --- | --- | --- | --- | 18.78 | 12.01 | 6.77 |
| MW-9 | 8/30/2007 | 52 r | <0.50 | <1.0 | <1.0 | 0.31 p | --- | 1.6 | <2.0 | <2.0 | <2.0 | <10 | 18.78 | 12.49 | 6.29 |
| MW-9 | 12/28/2007 | 61 r | <0.50 | <1.0 | <1.0 | 0.27 p | --- | 1.9 | --- | --- | --- | --- | 18.78 | 12.84 | 5.94 |
| MW-9 | 3/26/2008 | 89 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.6 | --- | --- | --- | --- | 18.78 | 12.30 | 6.48 |
| MW-9 | 5/29/2008 | 130 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 7.4 | --- | --- | --- | --- | 18.78 | 12.61 | 6.17 |

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| *Well ID* | *Date* | *TPPH (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)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-9 | 9/25/2008 | 63 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 17 | <2.0 | <2.0 | <2.0 | <10 | 18.78 | 12.92 | 5.86 |
| MW-9 | 12/16/2008 | 74 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 13 | --- | --- | --- | --- | 18.78 | 13.03 | 5.75 |
| MW-9 | 2/26/2009 | 81 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 14 | --- | --- | --- | --- | 18.78 | 11.94 | 6.84 |
| MW-9 | 5/26/2009 | 140 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 5.8 | --- | --- | --- | --- | 18.78 | 12.47 | 6.31 |
| MW-9 | 9/2/2009 | 54 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 16 | <2.0 | <2.0 | <2.0 | <10 | 18.42 | 13.00 | 5.42 |
| MW-9 | 3/10/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 1.4 | --- | --- | --- | --- | 18.42 | 11.05 | 7.37 |
| MW-9 | 8/31/2010 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | --- | 12 | <2.0 | <2.0 | <2.0 | <10 | 18.42 | 12.35 | 6.07 |

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 28, 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
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
--- = Not applicable

Notes:
a = Sample was analyzed outside the EPA recommended holding time.
b = Hydrocarbon reported does not match the laboratory standard.
c = Measurement is depth to top of pump; unable to reach water with sounder.
d = Sample contains discrete peaks in addition to gasoline.

# TABLE 1

## GROUNDWATER DATA
## SHELL-BRANDED SERVICE STATION
## 610 MARKET STREET, OAKLAND, CALIFORNIA

| *Well ID* | *Date* | *TPPH (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)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

r =Analyzed by the EPA method 8015B(M)
Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998 by Virgil Chavez Land Surveying of Vallejo, CA.
Wells MW-6 through MW-9 surveyed April 10, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.
Wells MW-2, MW-3, MW-6, MW-7, and MW-8 surveyed September 23, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.
Well MW-9 surveyed October 20, 2009 by Virgil Chavez Land Surveying of Vallejo, CA.

# APPENDIX A

# BLAINE TECH SERVICES, INC. - FIELD NOTES

# WELL GAUGING DATA

Project # 10821-SP2 Date 12/21/10 Client SHELL

Site 400 MARKET ST. OAKLAND, CA

| 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-6 | 1400 | 4 | - | - | - | - | 11.01 | 18.71 | ↓ | |
| MW-7 | 1407 | 4 | - | - | - | - | 12.11 | 18.47 | ↓ | |
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# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 101221-JP2 | Site: 610 MARKET ST. |
| Sampler: JP | Date: 12/21/10 |
| Well I.D.: MW-6 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 18.71 | Depth to Water (DTW): 11.01 |
| 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]: 12.55 | |

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

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

5.0 (Gals.) X 3 = 15.0 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 | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1420 | 65.0 | 7.28 | 864.8 | >1000 | 5.0 | |
| | WELL | DEWATERED @ 9 | GALLONS | | | |
| | | | | | | |
| | | | | | | |
| 1505 | 64.3 | 6.64 | 1070 | >1000 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 9.0

Sampling Date: 12/21/10 Sampling Time: 1505 Depth to Water: 11.13

Sample I.D.: MW-6 Laboratory: (CalScience) Columbia Other_____

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

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 #: 101221-JP2 | Site: 610 MARKET ST. |
| Sampler: JP | Date: 12/21/10 |
| Well I.D.: MW-7 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 18.47 | Depth to Water (DTW): 12.11 |
| 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]: 13.38 | |

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

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

| 4.1 (Gals.) X | 3 = | 12.3 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 | radius$^2$ * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1430 | 65.2 | 7.19 | 1071 | 55 | 4.1 | |
| | WELL | DEWATERED | @ 6.0 | GALLONS | | |
| | | | | | | |
| | | | | | | |
| 1450 | 64.8 | 6.64 | 1191 | 48 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 6.0

Sampling Date: 12/21/10 Sampling Time: 1450 Depth to Water: 13.37

Sample I.D.: ~~MW-7~~ MW-7 Laboratory: (CalScience) Columbia Other_____

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

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 610 MARKET ST. OAKLAND, CA Date 12/21/10

Job Number 101221-JP2 Technician J. PARKER 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-6 | X | X | | | | | | | |
| MW-7 | X | X | | | | | | | |
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ell 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 ONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

otes:

# WELL GAUGING DATA

Project # 110308-FSL Date 3-8-11 Client SHELL

Site 610 MARKET ST. OAKLAND, CA

| 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 | 947 | 4 | | | | | 13.35 | 24.25 | TOC | |
| MW-2 | 943 | 4 | | | | | 9.86 | 17.40 | " | |
| MW-3 | 937 | 4 | | | | | 10.37 | 18.35 | " | |
| MW-4 | 953 | 4 | | | | | 10.66 | 19.55 | " | |
| MW-5 | 925 | 4 | | | | | 10.44 | 19.99 | " | |
| MW-6 | 1000 | 4 | | | | | 10.59 | 17.90 | " | |
| MW-7 | 1012 | 4 | | | | | 11.51 | 17.83 | " | |
| MW-8 | 1006 | 4 | | | | | 10.80 | 19.09 | " | |
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# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 110308 - FS2 | Site: 98995750 |
| Sampler: FS | Date: 3-8-11 |
| Well I.D.: MW-1 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 29.25 | Depth to Water (DTW): 13.35 |
| 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]: 15.53 | |

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: ____

| 7.1 (Gals.) X | 3 | = | 21.3 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 | radius$^2$ * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1105 | 66.2 | 6.8 | 844 | 13 | 7.1 | |
| — WELL | | DEWATERED | @ | 13 | GALS | |
| | | | | | | |
| | | | | | | |
| 1215 | 65.3 | 7.0 | 905 | 11 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 13

Sampling Date: 3-8-11 Sampling Time: 1215 Depth to Water: 13.69

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

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

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 #: 110308 - FS2 | Site: 98995750 |
| Sampler: FS | Date: 3-8-11 |
| Well I.D.: MW-2 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 17.40 | Depth to Water (DTW): 9.86 |
| 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]: 11.36 | |

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: _____

5.0 (Gals.) X 3 = 15.0 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 | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1052 | 66.5 | 6.7 | 751 | 20 | 05.0 | |
| — WELL | DEWATERED | | @ | 9 | GALS | |
| | | | | | | |
| | | | | | | |
| 1200 | 65.4 | 7.0 | 829 | 13 | | |

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

Sampling Date: 3-8-11 Sampling Time: 1200 Depth to Water: 9.99

Sample I.D.: MW-2 Laboratory: (Test America) Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE C.O.C.

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 #: 110308 - FS2 | Site: 98995750 |
| Sampler: FS | Date: 3-8-11 |
| Well I.D.: MW - 3 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 18.35 | Depth to Water (DTW): 10.37 |
| 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]: 12.56 | |

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: ____

| 5.2 (Gals.) X | 3 | = | 15.6 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 |
|---|---|---|---|---|---|---|
| 1045 | 66.1 | 7.5 | 363 | 42 | 5.2 | |
| — | WELL | DEWATERED | @ | 6 | GALLONS | |
| | | | | | | |
| | | | | | | |
| 1315 | 64.4 | 8.1 | 499 | 41 | — | |

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

Sampling Date: 3-8-11 Sampling Time: 1315 Depth to Water: 10.46

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE C.O.C.

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 #: 110308 - FS2 | Site: 98995750 |
| Sampler: FS | Date: 3-8-11 |
| Well I.D.: MW-4 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 19.55 | Depth to Water (DTW): 10.66 |
| 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]: 12.93 | |

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 = 17.4 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 |
|---|---|---|---|---|---|---|
| 1113 | 65.2 | 6.7 | 678 | 40 | 5.8 | |
| — WELL | DEWATERED | | @ | 9 | GALLONS | |
| | | | | | | |
| | | | | | | |
| 1330 | 65.3 | 7.2 | 700 | 19 | — | |

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

Sampling Date: 3-8-11 Sampling Time: 1330 Depth to Water: 11.27

Sample I.D.: MW-4 Laboratory: (Test America) Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE C.O.C.

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 #: 110308 - FS2 | Site: 98995750 |
| Sampler: FS | Date: 3-8-11 |
| Well I.D.: MW-5 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 19.99 | Depth to Water (DTW): 10.44 |
| 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]: 12.35 | |

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: _____

6.3 (Gals.) X 3 = 18.9 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 |
|---|---|---|---|---|---|---|
| 1030 | 65.3 | 7.5 | 1150 | 43 | 6.3 | |
| — WELL | DEWATERED | @ | 8 | GALS | | |
| | | | | | | |
| | | | | | | |
| 1230 | 64.4 | 7.2 | 1028 | 80 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 8

Sampling Date: 3-8-11 Sampling Time: 1230 Depth to Water: 10.47

Sample I.D.: MW-5 Laboratory: (Test America) Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE C.O.C.

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 #: 110308 - FS2 | Site: 98995750 |
| Sampler: FS | Date: 3-8-11 |
| Well I.D.: MW-6 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 17.90 | Depth to Water (DTW): 10.59 |
| 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]: 14.65 | |

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: _____

| 4.8 (Gals.) X | 3 | = | 14.4 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 |
|---|---|---|---|---|---|---|
| 1124 | 66.7 | 6.7 | 788 | 55 | 4.8 | |
| 1126 | 67.2 | 6.6 | 802 | 47 | 9.6 | |
| — WELL | DEWATERED @ | | | 9.6 | GALLONS | |
| | | | | | | |
| 1345 | 66.7 | 7.1 | 883 | 14 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 9.6

Sampling Date: 3-8-11 Sampling Time: 1345 Depth to Water: 10.59

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE C.O.C.

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 #: 110308 - FS2 | Site: 98995750 |
| Sampler: FS | Date: 3-8-11 |
| Well I.D.: MW-7 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 17.83 | Depth to Water (DTW): 11.51 |
| 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]: 12.77 | |

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: _____

| 4.2 (Gals.) X | 3 | = | 12.6 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 |
|---|---|---|---|---|---|---|
| 1144 | 64.8 | 7.2 | 790 | 79 | 4.2 | |
| WELL DEWATERED AT | | | | 5 | GALS | |
| | | | | | | |
| | | | | | | |
| 1415 | 65.7 | 7.4 | 853 | 52 | — | |

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

Sampling Date: 3-8-11 Sampling Time: ~~1345~~ 1415 Depth to Water: 11.52

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE C.O.C.

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 #: 110308 - FS2 | Site: 98995750 |
| Sampler: FS | Date: 3-8-11 |
| Well I.D.: MW - 8 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 18.07 | Depth to Water (DTW): 10.80 |
| 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]: 12.25 | |

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: _____

| 4.8 (Gals.) X | 3 | = | 14.4 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 |
|---|---|---|---|---|---|---|
| 1134 | 65.7 | 7.0 | 780 | 121 | 4.8 | |
| 1136 | 65.9 | 6.9 | 810 | 50 | 9.6 | |
| — WELL | DEWATERED | | @ 10 | GALLONS | | |
| | | | | | | |
| 1400 | 66.3 | 7.3 | 831 | 41 | — | |

Did well dewater? (Yes) No Gallons actually evacuated: 10

Sampling Date: 3-8-11 Sampling Time: 1400 Depth to Water: 10.87

Sample I.D.: MW - 8 Laboratory: (Test America) Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) SEE C.O.C.

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 610 MARKET ST. OAKLAND, CA Date 3-8-11

Job Number 110308-FS2 Technician FS 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 | ✓ | ✓ | | | | | | | |
| MW-2 | ✓ | | | | | | | | VAULT |
| MW-3 | ✓ | | | | | | | | VAULT |
| MW-4 | ✓ | ✓ | | | | | | | |
| MW-5 | | | | | | | | ✓ | 1/2 TABS BROKEN |
| MW-6 | ✓ | | | | | | | | VAULT |
| MW-7 | ✓ | | | | | | | | VAULT |
| MW-8 | ✓ | | | | | | | | VAULT |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

*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

# CALSCIENCE ENVIRONMENTA LABORATORIES, INC. - LABORATORY REPORT

Calscience
Environmental
Laboratories, Inc.

January 05, 2011

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 10-12-1968**
**Client Reference: 610 Market St., Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/23/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

# Analytical Report

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 12/23/10
Work Order No: 10-12-1968
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 610 Market St., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| MW-6 | 10-12-1968-1-A | 12/21/10 15:05 | Aqueous | GC/MS RR | 12/30/10 | 12/30/10 17:56 | 101230L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 10 | 20 | | Methyl-t-Butyl Ether (MTBE) | ND | 20 | 20 | |
| Ethylbenzene | ND | 20 | 20 | | Tert-Butyl Alcohol (TBA) | 19000 | 200 | 20 | |
| Toluene | ND | 20 | 20 | | TPPH | ND | 1000 | 20 | |
| Xylenes (total) | ND | 20 | 20 | | | | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | Surrogates: | REC (%) | Control Limits | | Qual |
| Dibromofluoromethane | 96 | 80-126 | | | 1,2-Dichloroethane-d4 | 91 | 80-134 | | |
| Toluene-d8 | 97 | 80-120 | | | Toluene-d8-TPPH | 96 | 88-112 | | |
| 1,4-Bromofluorobenzene | 92 | 80-120 | | | | | | | |

| MW-7 | 10-12-1968-2-A | 12/21/10 14:50 | Aqueous | GC/MS RR | 12/30/10 | 12/30/10 18:22 | 101230L01 |
|---|---|---|---|---|---|---|---|

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 25 | 50 | | Methyl-t-Butyl Ether (MTBE) | ND | 50 | 50 | |
| Ethylbenzene | ND | 50 | 50 | | Tert-Butyl Alcohol (TBA) | 22000 | 500 | 50 | |
| Toluene | ND | 50 | 50 | | TPPH | ND | 2500 | 50 | |
| Xylenes (total) | ND | 50 | 50 | | | | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | Surrogates: | REC (%) | Control Limits | | Qual |
| Dibromofluoromethane | 95 | 80-126 | | | 1,2-Dichloroethane-d4 | 90 | 80-134 | | |
| Toluene-d8 | 97 | 80-120 | | | Toluene-d8-TPPH | 96 | 88-112 | | |
| 1,4-Bromofluorobenzene | 90 | 80-120 | | | | | | | |

| Method Blank | 099-12-767-5,112 | N/A | Aqueous | GC/MS RR | 12/30/10 | 12/30/10 13:59 | 101230L01 |
|---|---|---|---|---|---|---|---|

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.50 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| Ethylbenzene | ND | 1.0 | 1 | | Tert-Butyl Alcohol (TBA) | ND | 10 | 1 | |
| Toluene | ND | 1.0 | 1 | | TPPH | ND | 50 | 1 | |
| Xylenes (total) | ND | 1.0 | 1 | | | | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | Surrogates: | REC (%) | Control Limits | | Qual |
| Dibromofluoromethane | 96 | 80-126 | | | 1,2-Dichloroethane-d4 | 92 | 80-134 | | |
| Toluene-d8 | 97 | 80-120 | | | Toluene-d8-TPPH | 96 | 88-112 | | |
| 1,4-Bromofluorobenzene | 92 | 80-120 | | | | | | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

## Quality Control - Spike/Spike Duplicate

| | |
|---|---|
| Blaine Tech Services, Inc. | Date Received: 12/23/10 |
| 1680 Rogers Avenue | Work Order No: 10-12-1968 |
| San Jose, CA 95112-1105 | Preparation: EPA 5030C |
| | Method: LUFT GC/MS / EPA 8260B |

Project 610 Market St., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---|---|---|---|---|---|
| 10-12-1955-3 | Aqueous | GC/MS RR | 12/30/10 | 12/30/10 | 101230S01 |

| Parameter | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|
| Benzene | 95 | 93 | 78-120 | 2 | 0-20 | |
| Ethylbenzene | 99 | 96 | 73-127 | 3 | 0-20 | |
| Toluene | 94 | 91 | 72-126 | 3 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 80 | 79 | 69-123 | 2 | 0-20 | |
| Tert-Butyl Alcohol (TBA) | 97 | 96 | 65-131 | 1 | 0-22 | |

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Quality Control - LCS/LCS Duplicate

| | |
|---|---|
| Blaine Tech Services, Inc. | Date Received: N/A |
| 1680 Rogers Avenue | Work Order No: 10-12-1968 |
| San Jose, CA 95112-1105 | Preparation: EPA 5030C |
| | Method: LUFT GC/MS / EPA 8260B |

Project: 610 Market St., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|
| 099-12-767-5,112 | Aqueous | GC/MS RR | 12/30/10 | 12/30/10 | 101230L01 |

| Parameter | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|
| Benzene | 98 | 95 | 80-120 | 2 | 0-20 | |
| Ethylbenzene | 101 | 100 | 80-123 | 1 | 0-20 | |
| Toluene | 97 | 96 | 79-121 | 0 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 84 | 81 | 72-126 | 4 | 0-22 | |
| Tert-Butyl Alcohol (TBA) | 97 | 93 | 71-125 | 3 | 0-25 | |
| TPPH | 82 | 85 | 65-135 | 5 | 0-30 | |

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Glossary of Terms and Qualifiers

Work Order Number: 10-12-1968

| Qualifier | Definition |
|---|---|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification. |
| 4 | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| ME | LCS Recovery Percentage is within LCS ME Control Limit range. |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

# Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

**Please Check Appropriate Box:**
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

**Print Bill To Contact Name:** Peter Schaefer 240594

**PO #:**

**INCIDENT # (ENV SERVICES):** 98995750 [ ] CHECK IF NO INCIDENT # APPLIES

**SAP #:**

DATE: 12/21/10

PAGE: 1 of 1

| | | | |
|---|---|---|---|
| SAMPLING COMPANY: Blaine Tech Services | LOG CODE: BTSS | SITE ADDRESS: Street and City: 610 Market St., Oakland | State: CA | GLOBAL ID NO: T0600102121 |
| ADDRESS: 1680 Rogers Ave, San Jose, CA 95112 | | EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kremi, CRA, Emeryville | PHONE NO: (510) 420-3335 | E-MAIL: Shelledf@craworld.com | CONSULTANT PROJECT NO: BTS # 101221-JP2 |
| PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata Copy to Shell.Lab.Billing@craworld.com | | SAMPLER NAME(S) (Print): J. PARKER | LAB USE ONLY: 10-12-1968 |
| TELEPHONE: (408)573-0555 | FAX: (408)573-7771 | E-MAIL: mninokata@blainetech.com | |

TURNAROUND TIME (CALENDAR DAYS): [x] 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 :**

Run TPH-d w/Silica Gel Clean Up

- [ ] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT NEEDED
- [x] 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 - Purgeable (8260B) | TPH - Extractable (8015M) | BTEX (8260B) | 5 Oxygenates (8260B) | MTBE (8260B) | TBA (8260B) | DIPE (8260B) | TAME (8260B) | ETBE (8260B) | 1,2 DCA (8260B) | EDB (8260B) | Ethanol (8260B) | Methanol (8015M) | TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-6 | 12/21 | ~~1505~~ | W | 3 | | | | | 3 | X | | X | | X | X | | | | | | | | |
| 2 | MW-7 | " | 1450 | " | 6 | | | | | 6 | X | | X | | X | X | | | | | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) | Received by: (Signature) SAMPLE CUSTODIAN | Date: 12/21/10 | Time: 1615 |
| Relinquished by: (Signature) (Sample Custody) | Received by: (Signature) for Finally CEC | Date: 12/22/10 | Time: 940 |
| Relinquished by: (Signature) 1550 12/22/10 1730 | Received by: (Signature) Wdeath CEC | Date: 12/23/10 | Time: 0815 |

05/2/06 Revision

GSO

**WebShip**

800-322-5555 www.gso.com

1968

*Ship From:*
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

*Ship To:*
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
BTS, ETIC

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 515621659

NPS

ORC

D

GARDEN GROVE

D92843A

87358447

Print Date : 12/22/10 16:33 PM

Package 1 of 1

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

## LABEL INSTRUCTIONS:

**Do not copy or reprint this label for additional shipments - each package must have a unique barcode.**

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.

STEP 2 - Fold this page in half.

STEP 3 - Securely attach this label to your package, do not cover the barcode.

STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

## ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

## TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-12-1968

# SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS DATE: 12/23/10

**TEMPERATURE:** Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.1 °C + 0.5 °C (CF) = 2.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

**Ambient Temperature:** ☐ Air ☐ Filter Initial: WB

**CUSTODY SEALS INTACT:**

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: DT

| SAMPLE CONDITION: | Yes | No | N/A |
|---|---|---|---|
| Chain-Of-Custody (COC) document(s) received with samples | ☑ | ☐ | ☐ |
| COC document(s) received complete | ☑ | ☐ | ☐ |
| ☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| ☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished. | | | |
| Sampler's name indicated on COC | ☑ | ☐ | ☐ |
| Sample container label(s) consistent with COC | ☑ | ☐ | ☐ |
| Sample container(s) intact and good condition | ☑ | ☐ | ☐ |
| Proper containers and sufficient volume for analyses requested | ☑ | ☐ | ☐ |
| Analyses received within holding time | ☑ | ☐ | ☐ |
| pH / Residual Chlorine / Dissolved Sulfide received within 24 hours | ☐ | ☐ | ☑ |
| Proper preservation noted on COC or sample container | ☑ | ☐ | ☐ |
| ☐ Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace | ☑ | ☐ | ☐ |
| Tedlar bag(s) free of condensation | ☐ | ☐ | ☑ |

**CONTAINER TYPE:**

**Solid:** ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

**Water:** ☐VOA ☑VOAh ☐VOA$na_2$ ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGB$na_2$ ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJ$na_2$ ☐_____ ☐_____ ☐_____

**Air:** ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: DT

**Container:** C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: RL

**Preservative:** h: HCL n: $HNO_3$ $na_2$: $Na_2S_2O_3$ na: NaOH p: $H_3PO_4$ s: $H_2SO_4$ znna: $ZnAc_2$+NaOH f: Field-filtered Scanned by: RL

# APPENDIX C

# 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: 610 Market St., Oakland, CA

Sampled: 03/08/11
Received: 03/11/11
Issued: 03/25/11 10:39

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

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*
*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

| LABORATORY ID | CLIENT ID | MATRIX |
|---|---|---|
| IUC1435-01 | MW-1 | Water |
| IUC1435-02 | MW-2 | Water |
| IUC1435-03 | MW-3 | Water |
| IUC1435-04 | MW-4 | Water |
| IUC1435-05 | MW-5 | Water |
| IUC1435-06 | MW-6 | Water |
| IUC1435-07 | MW-7 | Water |
| IUC1435-08 | MW-8 | Water |

Reviewed By:

Philip Sanelle

**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: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

# 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: IUC1435-01 (MW-1 - Water)** | | | | | **Sampled: 03/08/11** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11C2706 | 50 | **120** | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *112 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *93 %* | | | | |
| **Sample ID: IUC1435-02 (MW-2 - Water)** | | | | | **Sampled: 03/08/11** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11C2706 | 50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *95 %* | | | | |
| **Sample ID: IUC1435-03 (MW-3 - Water)** | | | | | **Sampled: 03/08/11** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11C2706 | 50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *106 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *96 %* | | | | |
| **Sample ID: IUC1435-04 (MW-4 - Water)** | | | | | **Sampled: 03/08/11** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11C2695 | 50 | **73** | 1 | 3/21/2011 | 3/21/2011 | QP1 |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *92 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *105 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *92 %* | | | | |
| **Sample ID: IUC1435-05 (MW-5 - Water)** | | | | | **Sampled: 03/08/11** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11C2695 | 50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *94 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *101 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| **Sample ID: IUC1435-06 (MW-6 - Water)** | | | | | **Sampled: 03/08/11** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11C2695 | 1200 | ND | 25 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *107 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *92 %* | | | | |

**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: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

# 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: IUC1435-07 (MW-7 - Water)** | | | | | **Sampled: 03/08/11** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | TPH by GC/MS | 11C2695 | 2000 | ND | 40 | 3/21/2011 | 3/22/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *94 %* | | | | |
| **Sample ID: IUC1435-08 (MW-8 - Water)** | | | | | **Sampled: 03/08/11** | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Volatile Fuel Hydrocarbons (C4-C12)** | TPH by GC/MS | 11C2695 | 50 | **97** | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *92 %* | | | | |

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1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUC1435-01 (MW-1 - Water)** | | | | **Sampled: 03/08/11** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11C2706 | 0.50 | **15** | 1 | 3/21/2011 | 3/21/2011 | |
| **Ethylbenzene** | EPA 8260B | 11C2706 | 0.50 | **1.2** | 1 | 3/21/2011 | 3/21/2011 | |
| **Toluene** | EPA 8260B | 11C2706 | 0.50 | **0.60** | 1 | 3/21/2011 | 3/21/2011 | |
| **Xylenes, Total** | EPA 8260B | 11C2706 | 1.0 | **1.5** | 1 | 3/21/2011 | 3/21/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11C2706 | 1.0 | **17** | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *93 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *112 %* | | | | |
| **Sample ID: IUC1435-02 (MW-2 - Water)** | | | | **Sampled: 03/08/11** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| **Benzene** | EPA 8260B | 11C2706 | 0.50 | **0.66** | 1 | 3/21/2011 | 3/21/2011 | |
| Ethylbenzene | EPA 8260B | 11C2706 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Toluene | EPA 8260B | 11C2706 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Xylenes, Total | EPA 8260B | 11C2706 | 1.0 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11C2706 | 1.0 | **28** | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *95 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| **Sample ID: IUC1435-03 (MW-3 - Water)** | | | | **Sampled: 03/08/11** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11C2706 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Ethylbenzene | EPA 8260B | 11C2706 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Toluene | EPA 8260B | 11C2706 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Xylenes, Total | EPA 8260B | 11C2706 | 1.0 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11C2706 | 1.0 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11C2706 | 10 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *96 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *106 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |

**TestAmerica Irvine**

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

Project ID: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUC1435-04 (MW-4 - Water)** | | | | **Sampled: 03/08/11** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11C2695 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Ethylbenzene | EPA 8260B | 11C2695 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| **Toluene** | EPA 8260B | 11C2695 | 0.50 | **44** | 1 | 3/21/2011 | 3/21/2011 | |
| Xylenes, Total | EPA 8260B | 11C2695 | 1.0 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11C2695 | 1.0 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| tert-Butanol (TBA) | EPA 8260B | 11C2695 | 10 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *92 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *92 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *105 %* | | | | |
| **Sample ID: IUC1435-05 (MW-5 - Water)** | | | | **Sampled: 03/08/11** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11C2695 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Ethylbenzene | EPA 8260B | 11C2695 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Toluene | EPA 8260B | 11C2695 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Xylenes, Total | EPA 8260B | 11C2695 | 1.0 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11C2695 | 1.0 | **1.0** | 1 | 3/21/2011 | 3/21/2011 | |
| **tert-Butanol (TBA)** | EPA 8260B | 11C2695 | 10 | **270** | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *90 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *94 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *101 %* | | | | |
| **Sample ID: IUC1435-06 (MW-6 - Water)** | | | | **Sampled: 03/08/11** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11C2695 | 12 | ND | 25 | 3/21/2011 | 3/21/2011 | |
| Ethylbenzene | EPA 8260B | 11C2695 | 12 | ND | 25 | 3/21/2011 | 3/21/2011 | |
| Toluene | EPA 8260B | 11C2695 | 12 | ND | 25 | 3/21/2011 | 3/21/2011 | |
| Xylenes, Total | EPA 8260B | 11C2695 | 25 | ND | 25 | 3/21/2011 | 3/21/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11C2695 | 25 | ND | 25 | 3/21/2011 | 3/21/2011 | |
| **tert-Butanol (TBA)** | EPA 8260B | 11C2695 | 250 | **8200** | 25 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *92 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *102 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *107 %* | | | | |

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Attention: Lorin King

Project ID: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: IUC1435-07 (MW-7 - Water)** | | | | **Sampled: 03/08/11** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11C2695 | 20 | ND | 40 | 3/21/2011 | 3/22/2011 | |
| Ethylbenzene | EPA 8260B | 11C2695 | 20 | ND | 40 | 3/21/2011 | 3/22/2011 | |
| Toluene | EPA 8260B | 11C2695 | 20 | ND | 40 | 3/21/2011 | 3/22/2011 | |
| Xylenes, Total | EPA 8260B | 11C2695 | 40 | ND | 40 | 3/21/2011 | 3/22/2011 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 11C2695 | 40 | ND | 40 | 3/21/2011 | 3/22/2011 | |
| **tert-Butanol (TBA)** | EPA 8260B | 11C2695 | 400 | **9600** | 40 | 3/21/2011 | 3/22/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *94 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |
| **Sample ID: IUC1435-08 (MW-8 - Water)** | | | | **Sampled: 03/08/11** | | | | |
| **Reporting Units: ug/l** | | | | | | | | |
| Benzene | EPA 8260B | 11C2695 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Ethylbenzene | EPA 8260B | 11C2695 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Toluene | EPA 8260B | 11C2695 | 0.50 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| Xylenes, Total | EPA 8260B | 11C2695 | 1.0 | ND | 1 | 3/21/2011 | 3/21/2011 | |
| **Methyl-tert-butyl Ether (MTBE)** | EPA 8260B | 11C2695 | 1.0 | **3.7** | 1 | 3/21/2011 | 3/21/2011 | |
| **tert-Butanol (TBA)** | EPA 8260B | 11C2695 | 10 | **23** | 1 | 3/21/2011 | 3/21/2011 | |
| *Surrogate: 4-Bromofluorobenzene (80-120%)* | | | | *92 %* | | | | |
| *Surrogate: Dibromofluoromethane (80-120%)* | | | | *99 %* | | | | |
| *Surrogate: Toluene-d8 (80-120%)* | | | | *110 %* | | | | |

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Project ID: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

## 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: 11C2695 Extracted: 03/21/11** | | | | | | | | | | |
| **Blank Analyzed: 03/21/2011 (11C2695-BLK1)** | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | ND | 50 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *22.8* | | *ug/l* | *25.0* | | *91* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.0* | | *ug/l* | *25.0* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| **LCS Analyzed: 03/21/2011 (11C2695-BS2)** | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 355 | 50 | ug/l | 500 | | 71 | 55-130 | | | |
| *Surrogate: Dibromofluoromethane* | *23.9* | | *ug/l* | *25.0* | | *96* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.0* | | *ug/l* | *25.0* | | *104* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.7* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |
| **Matrix Spike Analyzed: 03/21/2011 (11C2695-MS1)** | | | | | **Source: IUC1445-01RE1** | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 1070 | 50 | ug/l | 1720 | ND | 62 | 50-145 | | | |
| *Surrogate: Dibromofluoromethane* | *24.7* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.2* | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 03/21/2011 (11C2695-MSD1)** | | | | | **Source: IUC1445-01RE1** | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 1090 | 50 | ug/l | 1720 | ND | 63 | 50-145 | 2 | 20 | |
| *Surrogate: Dibromofluoromethane* | *24.3* | | *ug/l* | *25.0* | | *97* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.9* | | *ug/l* | *25.0* | | *96* | *80-120* | | | |
| **Batch: 11C2706 Extracted: 03/21/11** | | | | | | | | | | |
| **Blank Analyzed: 03/21/2011 (11C2706-BLK1)** | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | ND | 50 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *23.7* | | *ug/l* | *25.0* | | *95* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.6* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *92* | *80-120* | | | |

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Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

## 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: 11C2706 Extracted: 03/21/11** | | | | | | | | | | |
| **LCS Analyzed: 03/21/2011 (11C2706-BS2)** | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 402 | 50 | ug/l | 500 | | 80 | 55-130 | | | |
| *Surrogate: Dibromofluoromethane* | *22.6* | | *ug/l* | *25.0* | | *90* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.2* | | *ug/l* | *25.0* | | *97* | *80-120* | | | |
| **Matrix Spike Analyzed: 03/21/2011 (11C2706-MS1)** | | | | | **Source: IUC1306-05RE1** | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 1110 | 50 | ug/l | 1720 | ND | 65 | 50-145 | | | |
| *Surrogate: Dibromofluoromethane* | *25.1* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.6* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.9* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 03/21/2011 (11C2706-MSD1)** | | | | | **Source: IUC1306-05RE1** | | | | | |
| Volatile Fuel Hydrocarbons (C4-C12) | 1150 | 50 | ug/l | 1720 | ND | 67 | 50-145 | 4 | 20 | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.2* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |

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Project ID: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 11C2695 Extracted: 03/21/11** | | | | | | | | | | |
| **Blank Analyzed: 03/21/2011 (11C2695-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 | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 1.0 | ug/l | | | | | | | |
| tert-Butanol (TBA) | ND | 10 | ug/l | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.3* | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *22.8* | | *ug/l* | *25.0* | | *91* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.0* | | *ug/l* | *25.0* | | *100* | *80-120* | | | |
| **LCS Analyzed: 03/21/2011 (11C2695-BS1)** | | | | | | | | | | |
| Benzene | 22.7 | 0.50 | ug/l | 25.0 | | 91 | 70-120 | | | |
| Ethylbenzene | 26.0 | 0.50 | ug/l | 25.0 | | 104 | 75-125 | | | |
| Toluene | 25.4 | 0.50 | ug/l | 25.0 | | 102 | 70-120 | | | |
| m,p-Xylenes | 55.0 | 1.0 | ug/l | 50.0 | | 110 | 75-125 | | | |
| o-Xylene | 28.5 | 0.50 | ug/l | 25.0 | | 114 | 75-125 | | | |
| Xylenes, Total | 83.5 | 1.0 | ug/l | 75.0 | | 111 | 70-125 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.2 | 1.0 | ug/l | 25.0 | | 97 | 60-135 | | | |
| tert-Butanol (TBA) | 127 | 10 | ug/l | 125 | | 101 | 70-135 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.0* | | *ug/l* | *25.0* | | *100* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *25.6* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.2* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| **Matrix Spike Analyzed: 03/21/2011 (11C2695-MS1)** | | | | | **Source: IUC1445-01RE1** | | | | | |
| Benzene | 22.2 | 0.50 | ug/l | 25.0 | ND | 89 | 65-125 | | | |
| Ethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | ND | 99 | 65-130 | | | |
| Toluene | 25.0 | 0.50 | ug/l | 25.0 | ND | 100 | 70-125 | | | |
| m,p-Xylenes | 50.6 | 1.0 | ug/l | 50.0 | ND | 101 | 65-130 | | | |
| o-Xylene | 26.0 | 0.50 | ug/l | 25.0 | ND | 104 | 65-125 | | | |
| Xylenes, Total | 76.5 | 1.0 | ug/l | 75.0 | ND | 102 | 60-130 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.2 | 1.0 | ug/l | 25.0 | ND | 93 | 55-145 | | | |
| tert-Butanol (TBA) | 117 | 10 | ug/l | 125 | ND | 94 | 65-140 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.2* | | *ug/l* | *25.0* | | *93* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *24.7* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.8* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |

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Project ID: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 11C2695 Extracted: 03/21/11** | | | | | | | | | | |
| **Matrix Spike Dup Analyzed: 03/21/2011 (11C2695-MSD1)** | | | | | **Source: IUC1445-01RE1** | | | | | |
| Benzene | 22.3 | 0.50 | ug/l | 25.0 | ND | 89 | 65-125 | 0.8 | 20 | |
| Ethylbenzene | 23.6 | 0.50 | ug/l | 25.0 | ND | 94 | 65-130 | 5 | 20 | |
| Toluene | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 70-125 | 5 | 20 | |
| m,p-Xylenes | 52.1 | 1.0 | ug/l | 50.0 | ND | 104 | 65-130 | 3 | 25 | |
| o-Xylene | 26.7 | 0.50 | ug/l | 25.0 | ND | 107 | 65-125 | 3 | 20 | |
| Xylenes, Total | 78.8 | 1.0 | ug/l | 75.0 | ND | 105 | 60-130 | 3 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 24.4 | 1.0 | ug/l | 25.0 | ND | 98 | 55-145 | 5 | 25 | |
| tert-Butanol (TBA) | 122 | 10 | ug/l | 125 | ND | 98 | 65-140 | 5 | 25 | |
| *Surrogate: 4-Bromofluorobenzene* | *23.9* | | *ug/l* | *25.0* | | *96* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *24.3* | | *ug/l* | *25.0* | | *97* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.7* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| **Batch: 11C2706 Extracted: 03/21/11** | | | | | | | | | | |
| **Blank Analyzed: 03/21/2011 (11C2706-BLK1)** | | | | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| Toluene | ND | 0.50 | ug/l | | | | | | | |
| m,p-Xylenes | ND | 1.0 | ug/l | | | | | | | |
| m,p-Xylenes | ND | 1.0 | ug/l | | | | | | | |
| o-Xylene | ND | 0.50 | ug/l | | | | | | | |
| o-Xylene | ND | 0.50 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 1.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 1.0 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 1.0 | ug/l | | | | | | | |
| tert-Butanol (TBA) | ND | 10 | ug/l | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *92* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *23.1* | | *ug/l* | *25.0* | | *92* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *23.7* | | *ug/l* | *25.0* | | *95* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *23.7* | | *ug/l* | *25.0* | | *95* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.6* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *25.6* | | *ug/l* | *25.0* | | *103* | *80-120* | | | |

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Sampled: 03/08/11
Received: 03/11/11

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 11C2706 Extracted: 03/21/11** | | | | | | | | | | |
| **LCS Analyzed: 03/21/2011 (11C2706-BS1)** | | | | | | | | | | |
| Benzene | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-120 | | | |
| Benzene | 21.7 | 0.50 | ug/l | 25.0 | | 87 | 70-120 | | | |
| Ethylbenzene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 75-125 | | | |
| Ethylbenzene | 24.6 | 0.50 | ug/l | 25.0 | | 98 | 75-125 | | | |
| Toluene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-120 | | | |
| Toluene | 24.8 | 0.50 | ug/l | 25.0 | | 99 | 70-120 | | | |
| m,p-Xylenes | 54.9 | 1.0 | ug/l | 50.0 | | 110 | 75-125 | | | |
| m,p-Xylenes | 54.9 | 1.0 | ug/l | 50.0 | | 110 | 75-125 | | | |
| o-Xylene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 75-125 | | | |
| o-Xylene | 28.2 | 0.50 | ug/l | 25.0 | | 113 | 75-125 | | | |
| Xylenes, Total | 83.1 | 1.0 | ug/l | 75.0 | | 111 | 70-125 | | | |
| Xylenes, Total | 83.1 | 1.0 | ug/l | 75.0 | | 111 | 70-125 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.8 | 1.0 | ug/l | 25.0 | | 91 | 60-135 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.8 | 1.0 | ug/l | 25.0 | | 91 | 60-135 | | | |
| tert-Butanol (TBA) | 123 | 10 | ug/l | 125 | | 98 | 70-135 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.8* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *26.8* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *24.2* | | *ug/l* | *25.0* | | *97* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.4* | | *ug/l* | *25.0* | | *105* | *80-120* | | | |
| **Matrix Spike Analyzed: 03/21/2011 (11C2706-MS1)** | | | | | **Source: IUC1306-05RE1** | | | | | |
| Benzene | 21.6 | 0.50 | ug/l | 25.0 | ND | 86 | 65-125 | | | |
| Benzene | 21.6 | 0.50 | ug/l | 25.0 | ND | 86 | 65-125 | | | |
| Ethylbenzene | 24.9 | 0.50 | ug/l | 25.0 | 0.470 | 98 | 65-130 | | | |
| Ethylbenzene | 24.9 | 0.50 | ug/l | 25.0 | 0.470 | 98 | 65-130 | | | |
| Toluene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 70-125 | | | |
| Toluene | 25.5 | 0.50 | ug/l | 25.0 | ND | 102 | 70-125 | | | |
| m,p-Xylenes | 54.7 | 1.0 | ug/l | 50.0 | 2.91 | 104 | 65-130 | | | |
| m,p-Xylenes | 54.7 | 1.0 | ug/l | 50.0 | 2.91 | 104 | 65-130 | | | |
| o-Xylene | 28.5 | 0.50 | ug/l | 25.0 | 1.80 | 107 | 65-125 | | | |
| o-Xylene | 28.5 | 0.50 | ug/l | 25.0 | 1.80 | 107 | 65-125 | | | |
| Xylenes, Total | 83.2 | 1.0 | ug/l | 75.0 | 4.71 | 105 | 60-130 | | | |
| Xylenes, Total | 83.2 | 1.0 | ug/l | 75.0 | 4.71 | 105 | 60-130 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 55-145 | | | |

**TestAmerica Irvine**

Philip Sanelle
Project Manager

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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: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
Received: 03/11/11

## METHOD BLANK/QC DATA

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch: 11C2706 Extracted: 03/21/11** | | | | | | | | | | |
| **Matrix Spike Analyzed: 03/21/2011 (11C2706-MS1)** | | | | | **Source: IUC1306-05RE1** | | | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.5 | 1.0 | ug/l | 25.0 | ND | 90 | 55-145 | | | |
| tert-Butanol (TBA) | 120 | 10 | ug/l | 125 | ND | 96 | 65-140 | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.9* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *24.9* | | *ug/l* | *25.0* | | *99* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *25.1* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *25.1* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.6* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *26.6* | | *ug/l* | *25.0* | | *107* | *80-120* | | | |
| **Matrix Spike Dup Analyzed: 03/21/2011 (11C2706-MSD1)** | | | | | **Source: IUC1306-05RE1** | | | | | |
| Benzene | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 65-125 | 5 | 20 | |
| Benzene | 22.8 | 0.50 | ug/l | 25.0 | ND | 91 | 65-125 | 5 | 20 | |
| Ethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | 0.470 | 97 | 65-130 | 0.9 | 20 | |
| Ethylbenzene | 24.7 | 0.50 | ug/l | 25.0 | 0.470 | 97 | 65-130 | 0.9 | 20 | |
| Toluene | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 70-125 | 3 | 20 | |
| Toluene | 26.3 | 0.50 | ug/l | 25.0 | ND | 105 | 70-125 | 3 | 20 | |
| m,p-Xylenes | 55.1 | 1.0 | ug/l | 50.0 | 2.91 | 104 | 65-130 | 0.7 | 25 | |
| m,p-Xylenes | 55.1 | 1.0 | ug/l | 50.0 | 2.91 | 104 | 65-130 | 0.7 | 25 | |
| o-Xylene | 28.3 | 0.50 | ug/l | 25.0 | 1.80 | 106 | 65-125 | 0.6 | 20 | |
| o-Xylene | 28.3 | 0.50 | ug/l | 25.0 | 1.80 | 106 | 65-125 | 0.6 | 20 | |
| Xylenes, Total | 83.4 | 1.0 | ug/l | 75.0 | 4.71 | 105 | 60-130 | 0.2 | 20 | |
| Xylenes, Total | 83.4 | 1.0 | ug/l | 75.0 | 4.71 | 105 | 60-130 | 0.2 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 55-145 | 8 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 24.3 | 1.0 | ug/l | 25.0 | ND | 97 | 55-145 | 8 | 25 | |
| tert-Butanol (TBA) | 110 | 10 | ug/l | 125 | ND | 88 | 65-140 | 8 | 25 | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *25.5* | | *ug/l* | *25.0* | | *102* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Dibromofluoromethane* | *25.2* | | *ug/l* | *25.0* | | *101* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.2* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |
| *Surrogate: Toluene-d8* | *27.2* | | *ug/l* | *25.0* | | *109* | *80-120* | | | |

**TestAmerica Irvine**

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

Project ID: 610 Market St., Oakland, CA
Report Number: IUC1435

Sampled: 03/08/11
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## DATA QUALIFIERS AND DEFINITIONS

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

**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.

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## Certification Summary

**TestAmerica Irvine**

| Method | Matrix | Nelac | California |
|---|---|---|---|
| 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

IVC1435

# 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 240594

INCIDENT # (ENV SERVICES): 9 8 9 9 5 7 5 0 — ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 3-8-11

PAGE: 1 of 1

PO #: 4 0 - 4 0 3 4 9 7 3

SAP #:

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 610 Market St., Oakland

State: CA

GLOBAL ID NO.: T0600102121

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.: 110308-FS2

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

TELEPHONE: 310-995-4455 x 108

FAX: 310-637-5802

E-MAIL: lking@blainetech.com

SAMPLER NAME(S) (Print): F. SPRINGSTON

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

- ☐ 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) | BTEX (8260B) | 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) | TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | 3-8-11 | 1215 | W | 3 | | | | | 3 | X | | | | X | | | | | | | | | |
| | MW-2 | | 1200 | | | | | | | | X | | | | X | | | | | | | | | |
| | MW-3 | | 1315 | | | | | | | | X | | | | | X | | | | | | | | |
| | MW-4 | | 1330 | | | | | | | | X | | | | | X | | | | | | | | |
| | MW-5 | | 1230 | | | | | | | | X | | | | | X | | | | | | | | |
| | MW-6 | | 1345 | | | | | | | | X | | | | | X | | | | | | | | |
| | MW-7 | | 1415 | | | | | | | | X | | | | | X | | | | | | | | |
| | MW-8 | | 1400 | | | | | | | | X | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | (SAMPLE CUSTODIAN) | 3-8-11 | 1545 |
| | | 3/10/11 | 1245 |
| 3-10-11 1600 | (CS) 4.9 °C | 3/11/11 | 10:30 |

KM 3-11-11 1930

05/2/06 Revision

1102