

Ms. Karel Detterman  
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Oakland, California 94609

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Subject:

**First Quarter 2018 Groundwater Monitoring Report**

Former BP Facility No. 0374  
6407 Telegraph Avenue, Oakland, California 94609  
Alameda County LOP Case #RO0000078  
SF-RWQCB Case #01-0114

ENVIRONMENT

Date:  
April 30, 2018

Dear Ms. Detterman:

Contact:  
James M. Jacobsen, P.G.

On behalf of BP West Coast Products, LLC (BP), Arcadis U.S., Inc. (Arcadis) is submitting the enclosed Semi-Annual Monitoring Report for the First Quarter 2018. The enclosed quarterly report was prepared for the above-referenced case number.

Phone:  
916.865.3144

"I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

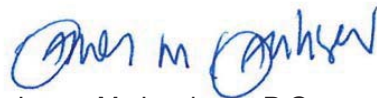
Email:  
[james.jacobsen@arcadis.com](mailto:james.jacobsen@arcadis.com)

If you have any questions, please contact the undersigned.

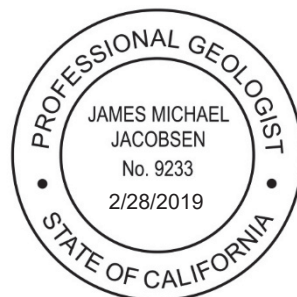
Our ref:  
GP16BPNA.CA01.40000

Sincerely,

Arcadis US., Inc.



James M. Jacobsen, P.G.  
Project Manager



Copies:  
San Francisco Regional Water Quality Control Board - GeoTracker

**SEMI-ANNUAL MONITORING AND STATUS REPORT**  
**First Quarter 2018**  
**April 30, 2018**

|                                   |  |          |   |
|-----------------------------------|--|----------|---|
| Station No:                       | <u>0374</u>  | Address: | <u>6407 Telegraph Avenue, Oakland, CA 94609</u> |
| Arcadis Contact/Phone No.:        | <u>James Jacobsen / 916.865.3144</u>   |          |   |
| Arcadis Project No.:              | <u>GP16BPNA.CA01.40000</u>   |          |   |
| Primary Agency/Regulatory ID No.: | <u>Alameda County Local Oversight Program /<br/>Karel Detterman / Case No. RO0000078</u> |          |   |
| Other Agencies to Receive Copies: | <u>San Francisco Regional Water Quality Control Board /<br/>Case No. 01-0114</u>         |          |   |

**WORK PERFORMED DURING FIRST QUARTER 2018:**

1. Conducted semi-annual groundwater sampling on January 19, 2018. Figures illustrating the Site location and Site features are provided as **Figure 1** and **Figure 2**, respectively. The following summarizes the First Quarter 2018 event:
  - Prior to gauging, all monitoring wells were left open for at least 15 minutes for the water column to equilibrate with atmospheric pressure.
  - Gauged monitoring wells MW-1 through MW-4 and MW-6 through MW-9. Sampled monitoring wells MW-1, MW-2, MW-4, and MW-6 through MW-9. Monitoring well MW-5 was not gauged or sampled because a vehicle was parked over the monitoring well. A copy of the field notes for the January 19, 2018 groundwater monitoring event are provided as **Attachment 1**.
  - Monitoring wells were sampled for the analysis of Gasoline Range Organics (GRO), benzene, toluene, ethylbenzene, total xylenes (collectively BTEX), fuel oxygenates including methyl tert butyl ether (MTBE), tert butyl alcohol (TBA), diisopropyl ether (DIPE), and ether tert butyl ether (ETBE), and lead scavengers including 1,2-Dichloroethane (1,2-DCA), ethylene dibromide (EDB), and ethanol according to United States Environmental Protection Agency (USEPA) Method 8260B. A copy of the laboratory analytical report is provided as **Attachment 2**.
2. A review of the analytical laboratory results, summarized in **Table 1** and **Table 2**, indicates the following:
  - GRO concentrations were detected exceeding the San Francisco Bay Regional Water Quality Control Board (SFB-RWQCB) Environmental Screening Level (ESL) at monitoring well MW-8. GRO concentrations at MW-1, MW-2, MW-4, MW-7, and MW-9 were not detected above the laboratory report limit (LRL).
  - Benzene concentrations were detected exceeding the SFB-RWQCB ESL at monitoring well MW-4 and MW-8. Benzene concentrations at MW-1, MW-2, MW-4, MW-7, and MW-9 were not detected above the LRL.

- Toluene concentrations were detected exceeding the SFB-RWQCB ESL at monitoring well MW-4. Toluene concentrations at MW-1, MW-2, MW-7, MW-8, and MW-9 were not detected above the LRL.
  - Ethylbenzene concentrations were detected exceeding the SFB-RWQCB ESL at monitoring well MW-4. Ethylbenzene was detected above the LRL in MW-8 but was below the ESL. The remaining monitoring wells did not have detections of ethylbenzene above the LRL.
  - Xylenes (total) concentrations were detected exceeding the SFB-RWQCB ESL at monitoring well MW-4. Xylenes (total) concentrations at MW-1, MW-2, MW-7, MW-8, and MW-9 were not detected above the LRL.
  - MTBE concentrations were detected exceeding the SFB-RWQCB ESL at wells MW-1, MW-2, MW-7, MW-8, and MW-9. The MTBE concentration at MW-4 was not detected above the LRL.
3. Prepared the First Quarter 2018 Groundwater Monitoring Report.
  4. Responded to Alameda County Environmental Health (ACEH) correspondence regarding revisions and additions to the work proposed in the shallow soil assessment and monitoring well installation work plan on February 6, 2018.

### **PROPOSED WORK:**

1. Conduct shallow soil and soil vapor assessment and monitoring well installation in accordance with ACEH correspondence, dated March 16, 2018.
2. Evaluate the case against the SFB-RWQCB ESLs and the State Water Resource Control Board's Low Threat Closure Policy Criteria (SWRCB 2012).
3. Conduct semi-annual groundwater monitoring and sampling in the Third Quarter 2018.
4. Prepare the Third Quarter 2018 Groundwater Monitoring Report.

|  |  |
|--|--|
| Current Phase of Project:                                      | Monitoring   |
| Frequency of Monitoring/Sampling:                              | Semi-annual  |
| Is Light Non-Aqueous Phase Liquid (LNAPL) Present On-site:     | No   |
| LNAPL Detected During the current quarter (thickness in feet): | NA   |
| Approximate Depth to Groundwater (feet below top of casing):   | Range: 2.16 (MW-6) to 7.10 (MW-8)  |
| Groundwater Flow Direction:                                    | Southwest  |
| Groundwater Flow Magnitude (foot/foot):                        | 0.02   |
| Agency Directive Requirements:                                 | Semi-annual monitoring and reporting<br>Conduct shallow soil assessment and groundwater monitoring well installation |

## DISCUSSION

The First Quarter 2018 gradient magnitude and direction is generally consistent with previous monitoring events. In general, depth-to-groundwater increased on average of 1.77-feet. A figure illustrating the potentiometric surface, as determined from the January 19, 2018 monitoring data, is provided as **Figure 3**. Groundwater flow is presented in a rose diagram in **Figure 4**.

The most elevated GRO and benzene concentrations continue to be detected at monitoring well MW-4; however, concentrations are within the historical range of detections. While concentrations of benzene continue to exceed the SFB-RWQCB ESL in MW-4 and MW-8, the groundwater benzene concentrations are below the Groundwater Specific Criteria of the State Water Resources Control Board's Low Threat Closure Policy (SWRCB 2012). Current groundwater monitoring and analytical data are summarized in **Table 1**, **Table 2**, and on **Figure 5**. Historic groundwater monitoring and analytical data are summarized in **Table 3**. Hydrographs for select monitoring wells are presented in **Attachment 3**. GRO, benzene, and MTBE concentrations maps are shown on **Figure 6** through **Figure 8**, respectively.

Arcadis submitted the *Shallow Soil Assessment and Monitoring Well Installation Work Plan*, dated August 23, 2017, to reassess historic soil analytical data and further delineate the groundwater plume. ACEH approved the work plan on November 16, 2017 with the following modifications: 1) soil vapor samples must be collected from the existing soil gas probes, 2) instead of reinstalling MW-4 a soil boring should be advanced instead, and 3) completion of an underground utility survey across Alcatraz Avenue. Arcadis responded with additional scope of work revisions and ACEH responded on March 16, 2018. The scope-of-work outlined in the *Shallow Soil Assessment and Monitoring Well Installation Work Plan*, the ACEH directive, dated November 16, 2017 correspondence, and the ACEH directive, dated March 16, 2018 will be implemented in May 2018.

Bi-annual groundwater monitoring will also continue, as required, on the current schedule. The next groundwater monitoring event is scheduled to occur during the Third Quarter of 2018.

## **ENCLOSURES:**

### **Tables**

Table 1 – Current Groundwater Monitoring and Analytical Data – GRO/BTEX

Table 2 – Current Analytical Data - Oxygenates

Table 3 – Historical Groundwater Monitoring and Analytical Data

### **Figures**

Figure 1 – Site Location Map

Figure 2 – Site Plan

Figure 3 – Groundwater Elevation Contour Map January 19, 2018

Figure 4 – Groundwater Flow Direction Rose Diagram

Figure 5 – Groundwater Analysis Concentration Map January 19, 2018

Figure 6 – GRO Concentration Map January 19, 2018

Figure 7 – Benzene Concentration Map January 19, 2018

Figure 8 – MTBE Concentration Map January 19, 2018

### **Attachments**

Attachment 1 – Groundwater Monitoring Field Forms

Attachment 2 – Groundwater Analytical Laboratory Report

Attachment 3 – Hydrographs

# TABLES



Table 1  
Current Groundwater Monitoring and Analytical Data - GRO/BTEX  
Former BP Service Station No. 0374  
6407 Telegraph Avenue  
Oakland, California

| Well ID | Date      | TOC<br>(ft msl) | DTW<br>(ft) | Measured<br>LNAPL<br>Thickness<br>(ft) | GW Elev<br>(ft msl) | GRO<br>(µg/L)        | B<br>(µg/L) | T<br>(µg/L) | E<br>(µg/L) | X<br>(µg/L) | DO<br>(mg/l) | Notes       |
|---------|-----------|-----------------|-------------|--|---------------------|----------------------|-------------|-------------|-------------|-------------|--------------|-------------|
| MW-1    | 1/19/2018 | 164.45          | 6.88        | --                                     | 157.57              | <50                  | <0.50       | <0.50       | <0.50       | <1.0        | 0.28         |             |
| MW-2    | 1/19/2018 | 163.49          | 7.05        | --                                     | 156.44              | <50                  | <0.50       | <0.50       | <0.50       | <1.0        | 0.11         |             |
| MW-3    | 1/19/2018 | 166.80          | 4.20        | --                                     | 162.60              | --                   | --          | --          | --          | --          | --           | Not sampled |
| MW-4    | 1/19/2018 | 162.48          | 6.34        | --                                     | 156.14              | <5,000               | 490         | 40          | 40          | 49          | 0.10         |             |
| MW-5    | 1/19/2018 | 156.90          | --          | --                                     | --                  | --                   | --          | --          | --          | --          | --           | Not sampled |
| MW-6    | 1/19/2018 | 159.41          | 2.16        | --                                     | 157.25              | --                   | --          | --          | --          | --          | --           | Not sampled |
| MW-7    | 1/19/2018 | 164.80          | 6.67        | --                                     | 158.13              | <50                  | <0.50       | <0.50       | <0.50       | <1.0        | 0.12         |             |
| MW-8    | 1/19/2018 | 164.14          | 7.10        | --                                     | 157.04              | 830                  | 73          | <0.50       | 3.9         | <1.0        | 0.21         |             |
| MW-9    | 1/19/2018 | 163.77          | 6.79        | --                                     | 156.98              | <50                  | <0.50       | <0.50       | <0.50       | <1.0        | 0.09         |             |
|         |           |                 |             |  |                     | <b>SF-RWQCB ESLs</b> | <b>1.0</b>  | <b>40</b>   | <b>30</b>   | <b>20</b>   |              |             |

**Notes:**

TOC = top of casing measured  
 DTW = depth to water  
 LNAPL = light non-aqueous phase liquid  
 GW Elev = groundwater elevation  
 GRO = gasoline range organics  
 B = benzene  
 T = toluene  
 E = ethylbenzene  
 X = total xylenes  
 DO = dissolved oxygen

**BOLD** = concentration exceeds SF-RWQCB ESLs  
 SF-RWQCB ESLs - San Francisco Regional Water Quality Control Board Environmental Screening Level - Direct Exposure Human Health Risk levels - MCL Priority  
 ft msl = feet above mean sea level  
 -- = not analyzed/applicable/measured/available  
 < = not detected at or above specified laboratory reporting limit  
 µg/L = micrograms per liter  
 mg/L = milligrams per liter  
 Values for DO were obtained through field measurements

| Well ID              | MTBE<br>(µg/L) | TBA<br>(µg/L) | 1,2-DCA<br>(µg/L) | EDB<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | Ethanol<br>(µg/L) | Notes |
|----------------------|----------------|---------------|-------------------|---------------|----------------|----------------|----------------|-------------------|-------|
| MW-1                 | 8.5            | <10           | <0.50             | <0.50         | <0.50          | <0.50          | <0.50          | <150              |       |
| MW-2                 | 24             | <10           | <0.50             | <0.50         | <0.50          | <0.50          | <0.50          | <150              |       |
| MW-3                 | --             | --            | --                | --            | --             | --             | --             | --                |       |
| MW-4                 | <10            | <200          | <10               | <10           | <10            | <10            | <10            | <3,000            |       |
| MW-5                 | --             | --            | --                | --            | --             | --             | --             | --                |       |
| MW-6                 | --             | --            | --                | --            | --             | --             | --             | --                |       |
| MW-7                 | 36             | <10           | <0.50             | <0.50         | <0.50          | <0.50          | <0.50          | <150              |       |
| MW-8                 | 57             | <10           | <0.50             | <0.50         | <0.50          | <0.50          | 0.77           | <150              |       |
| MW-9                 | 61             | <10           | <0.50             | <0.50         | <0.50          | <0.50          | <0.50          | <150              |       |
| <b>SF-RWQCB ESLs</b> | <b>5.0</b>     | <b>12</b>     | <b>0.5</b>        | <b>0.05</b>   | --             | --             | --             | --                | --    |

**Notes:**

MTBE = methyl tert-butyl ether  
 TBA = tert-butyl alcohol  
 1,2-DCA = 1,2-dichloroethane  
 EDB = 1,2-dibromoethane  
 DIPE = di-isopropyl ether  
 ETBE = ethyl tert-butyl ether  
 TAME = tert-Amyl methyl ether

**BOLD** = concentration exceeds SF-RWQCB ESLs

SF-RWQCB ESLs = San Francisco Regional Water Quality Control Board Environmental Screening Levels - Direct Exposure Human Health Risk levels - MCL Priority

-- = not analyzed/applicable/measured/available

< = not detected at or above specified laboratory reporting limit

µg/L = micrograms per liter

ID = Analyte identified by RT & presence of single mass ion



Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 Former BP Service Station No. 0374  
 6407 Telegraph Avenue  
 Oakland, California



| Well ID    | Date       | TOC (ft msl) | DTW (ft) | Measured LNAPL Thickness (ft) | GW Elev (ft msl) | GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | TBA (µg/L) | 1,2-DCA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | EDB (µg/L) | TAME (µg/L) | Ethanol (µg/L) | DO (mg/l) | Notes |       |
|------------|------------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------|-------|
| MW-1       | 6/20/2000  | 158.91       | 6.86     | --                            | 152.05           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 9/28/2000  | 158.91       | 7.50     | --                            | 151.41           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 12/17/2000 | 158.91       | 7.49     | --                            | 151.42           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 3/23/2001  | 158.91       | 5.90     | --                            | 153.01           | <5.0       | <0.5     | <0.5     | <0.5     | <0.5     | 2.710       | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 6/21/2001  | 158.91       | 7.45     | --                            | 151.46           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 9/23/2001  | 158.91       | 8.46     | --                            | 150.45           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 12/31/2001 | 158.91       | 5.50     | --                            | 153.41           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 3/21/2002  | 158.91       | 4.71     | --                            | 154.20           | <5,000     | <5.0     | <5.0     | <5.0     | <5.0     | 2,000       | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 4/17/2002  | 158.91       | 5.54     | --                            | 153.37           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 12/8/2002  | 158.91       | 7.77     | --                            | 151.14           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 6/12/2002  | 158.91       | 7.65     | --                            | 151.26           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 1/29/2003  | 158.91       | 5.88     | --                            | 153.03           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
|            | 5/23/2003  | 158.91       | 5.62     | --                            | 153.29           | <10,000    | <100     | <100     | <100     | <100     | <100        | 1,600      | <4,000         | --          | <100        | <100       | <100        | <100           | <20,000   | 1.30  | b     |
|            | 4/9/2003   | 158.91       | 7.85     | --                            | 151.06           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --    |
|            | 11/20/2003 | 158.91       | 8.17     | --                            | 150.74           | 1,600      | <10      | <10      | <10      | <10      | <10         | 1,500      | <400           | --          | <10         | <10        | <10         | <10            | <2,000    | 1.70  | a2    |
|            | 2/2/2004   | 164.57       | 6.71     | --                            | 157.66           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --    |
|            | 5/14/2004  | 164.57       | 7.08     | --                            | 157.49           | <2,500     | <25      | <25      | <25      | <25      | <25         | 1,200      | <1,000         | <25         | <25         | <25        | <25         | <25            | <5,000    | 1.40  | f     |
|            | 2/9/2004   | 164.57       | 8.12     | --                            | 156.45           | 980        | <5.0     | <5.0     | <5.0     | <5.0     | <5.0        | 660        | <200           | <5.0        | <5.0        | <5.0       | <5.0        | <5.0           | <1,000    | 3.80  |       |
|            | 4/1/2004   | 164.57       | 7.38     | --                            | 157.19           | 1,700      | <10      | <10      | <10      | <10      | <10         | 580        | <400           | <10         | <10         | <10        | <10         | <10            | <2,000    | 6.00  |       |
|            | 8/2/2005   | 164.57       | 6.60     | --                            | 157.97           | <1,000     | <10      | <10      | <10      | <10      | <10         | 610        | <400           | <10         | <10         | <10        | <10         | <10            | <2,000    | 0.71  |       |
|            | 9/5/2005   | 164.57       | 6.84     | --                            | 157.73           | 640        | <5.0     | <5.0     | <5.0     | <5.0     | 6           | 620        | <1,000         | <5.0        | <5.0        | <5.0       | <5.0        | <5.0           | <1,000    | 3.12  | a2    |
|            | 11/8/2005  | 164.57       | 7.36     | --                            | 157.21           | 540        | <2.5     | <2.5     | <2.5     | <2.5     | 4           | 390        | 250            | <2.5        | <2.5        | <2.5       | <2.5        | <2.5           | <500      | 0.80  | a2    |
|            | 11/18/2005 | 164.57       | 8.02     | --                            | 156.55           | 350        | <2.5     | <2.5     | <2.5     | <2.5     | <2.5        | 340        | <100           | <2.5        | <2.5        | <2.5       | <2.5        | <2.5           | <500      | 2.60  | a2, e |
|            | 2/16/2006  | 164.57       | 6.44     | --                            | 158.13           | 350        | <2.5     | <2.5     | <2.5     | <2.5     | <2.5        | 340        | <100           | <2.5        | <2.5        | <2.5       | <2.5        | <2.5           | <1,500    | 1.60  | e     |
|            | 5/30/2006  | 164.57       | 6.87     | --                            | 157.70           | 270        | <2.5     | <2.5     | <2.5     | <2.5     | <2.5        | 420        | <200           | <2.5        | <2.5        | <2.5       | <2.5        | <2.5           | <1,500    | 4.73  | a2    |
|            | 8/24/2006  | 164.57       | 7.75     | --                            | 156.82           | 95         | <5.0     | <5.0     | <5.0     | <5.0     | <5.0        | 180        | <200           | <5.0        | <5.0        | <5.0       | <5.0        | <5.0           | <3,000    | 0.65  |       |
|            | 11/1/2006  | 164.57       | 8.28     | --                            | 156.29           | 120        | <5.0     | <5.0     | <5.0     | <5.0     | <5.0        | 220        | <200           | <5.0        | <5.0        | <5.0       | <5.0        | <5.0           | <3,000    | 1.65  | a2    |
|            | 7/2/2007   | 164.57       | 7.40     | --                            | 157.17           | 120        | <5.0     | <5.0     | <5.0     | <5.0     | <5.0        | 190        | <200           | <5.0        | <5.0        | <5.0       | <5.0        | <5.0           | <3,000    | 1.88  | a2    |
|            | 8/5/2007   | 164.57       | 6.50     | --                            | 158.07           | <500       | <5.0     | <5.0     | <5.0     | <5.0     | <5.0        | 420        | <200           | <5.0        | <5.0        | <5.0       | <5.0        | <5.0           | <3,000    | 1.21  | e     |
|            | 8/8/2007   | 164.57       | 8.17     | --                            | 156.40           | 82         | <0.50    | <0.50    | <0.50    | <0.50    | <0.50       | 170        | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <300      | 1.16  | e     |
| 11/14/2007 | 164.57     | 8.01         | --       | 156.56                        | 170              | <2.5       | <2.5     | <2.5     | <2.5     | <2.5     | 210         | <100       | <2.5           | <2.5        | <2.5        | <2.5       | <2.5        | <1,500         | 1.92      |       |       |
| 2/22/2008  | 164.57     | 6.00         | --       | 158.57                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 250         | <100       | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 2.57      |       |       |
| 5/24/2008  | 164.57     | 7.58         | --       | 156.99                        | <50              | <5.0       | <5.0     | <5.0     | <5.0     | <5.0     | 380         | <100       | <5.0           | <5.0        | <5.0        | <5.0       | <5.0        | <3,000         | 2.28      |       |       |
| 8/21/2008  | 164.57     | 8.60         | --       | 155.97                        | <50              | <2.5       | <2.5     | <2.5     | <2.5     | <2.5     | 170         | <50        | <2.5           | <2.5        | <2.5        | <2.5       | <2.5        | <1,500         | 2.16      |       |       |
| 11/19/2008 | 164.57     | 8.88         | --       | 155.69                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 30          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 2.12      |       |       |
| 2/23/2009  | 164.57     | 6.40         | --       | 158.17                        | 78               | <2.5       | <2.5     | <2.5     | <2.5     | <2.5     | 240         | <50        | <2.5           | <2.5        | <2.5        | <2.5       | <2.5        | <1,500         | 2.19      |       |       |
| 5/14/2009  | 164.57     | 6.67         | --       | 157.90                        | 53               | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 200         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 1.75      |       |       |
| 8/20/2009  | 164.57     | 8.25         | --       | 156.32                        | 150              | <2.0       | <2.0     | <2.0     | <2.0     | <2.0     | 170         | <40        | <2.0           | <2.0        | <2.0        | <2.0       | <2.0        | <1,200         | 2.14      |       |       |
| 2/19/2010  | 164.57     | 6.07         | --       | 158.50                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 170         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 0.92      |       |       |
| 10/8/2010  | 164.57     | 7.58         | --       | 156.99                        | <50              | <2.5       | <2.5     | <2.5     | <2.5     | <2.5     | 230         | <50        | <2.5           | <2.5        | <2.5        | <2.5       | <2.5        | <1,500         | 3.86      |       |       |
| 12/16/2010 | 164.45     | 6.64         | --       | 157.81                        | <50              | <2.0       | <2.0     | <2.0     | <2.0     | <2.0     | 140         | <40        | <2.0           | <2.0        | <2.0        | <2.0       | <2.0        | <1,200         | 1.20      |       |       |
| 2/14/2011  | 164.45     | 7.10         | --       | 157.35                        | <50              | <2.5       | <2.5     | <2.5     | <2.5     | <2.5     | 170         | <50        | <2.5           | <2.5        | <2.5        | <2.5       | <2.5        | <1,500         | 1.18      |       |       |
| 5/20/2011  | 164.45     | 6.38         | --       | 158.07                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |       |
| 8/15/2011  | 164.45     | 7.24         | --       | 157.21                        | <50              | <2.5       | <2.5     | <2.5     | <2.5     | <2.5     | 130         | <50        | <2.5           | <2.5        | <2.5        | <2.5       | <2.5        | <1,500         | 2.54      |       |       |
| 2/2/2012   | 164.45     | 7.32         | --       | 157.13                        | <50              | <1.0       | <1.0     | <1.0     | <1.0     | <1.0     | 66          | <20        | <1.0           | <1.0        | <1.0        | <1.0       | <1.0        | <600           | 1.01      |       |       |
| 9/8/2012   | 164.45     | 6.69         | --       | 157.76                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 170         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 1.65      |       |       |
| 2/14/2013  | 164.45     | 5.97         | --       | 158.48                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 140         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 1.74      |       |       |
| 8/22/2013  | 164.45     | 7.87         | --       | 156.58                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 91          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 5.69      |       |       |
| 11/2/2014  | 164.45     | 7.75         | --       | 156.70                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 28          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 2.02      |       |       |
| 8/15/2014  | 164.45     | 8.51         | --       | 155.94                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 120         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 1.82      |       |       |
| 12/2/2015  | 164.45     | 6.57         | --       | 157.88                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 130         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 1.00      |       |       |
| 8/31/2015  | 164.45     | 8.88         | --       | 155.57                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 110         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 1.32      |       |       |
| 3/17/2016  | 164.45     | 4.82         | --       | 159.63                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 140         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 11.94     |       |       |
| 9/9/2016   | 164.45     | 8.97         | --       | 155.48                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 110         | <20        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <500           | --        |       |       |
| 3/14/2017  | 164.45     | 4.24         | --       | 160.21                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 98          | <20        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <500           | 0.59      |       |       |
| 9/19/2017  | 164.45     | 8.21         | --       | 156.24                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 39          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 0.51      |       |       |
| 1/19/2018  | 164.45     | 6.88         | --       | 157.57                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 8.5         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 0.28      |       |       |

Table 3  
Historical Groundwater Monitoring and Analytical Data  
Former BP Service Station No. 0374  
6407 Telegraph Avenue  
Oakland, California

| Well ID    | Date       | TOC<br>(ft msl) | DTW<br>(ft) | Measured<br>LNAPL<br>Thickness<br>(ft) | GW Elev<br>(ft msl) | GRO<br>(µg/L) | B<br>(µg/L) | T<br>(µg/L) | E<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | 1,2-DCA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | EDB<br>(µg/L) | TAME<br>(µg/L) | Ethanol<br>(µg/L) | DO<br>(mg/l) | Notes |    |
|------------|------------|-----------------|-------------|--|---------------------|---------------|-------------|-------------|-------------|-------------|----------------|---------------|-------------------|----------------|----------------|---------------|----------------|-------------------|--------------|-------|----|
| MW-2       | 6/20/2000  | 157.92          | 7.67        | --                                     | 150.25              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    |    |
|            | 9/28/2000  | 157.92          | 8.51        | --                                     | 149.41              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    |    |
|            | 12/17/2000 | 157.92          | 8.14        | --                                     | 149.78              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    |    |
|            | 3/23/2001  | 157.92          | 7.21        | --                                     | 150.71              | <50           | <0.5        | <0.5        | <0.5        | <0.5        | <2.5           | <2.5          | <2.5              | <2.5           | <2.5           | <2.5          | <2.5           | <2.5              | <2.5         | <2.5  |    |
|            | 6/21/2001  | 157.92          | 7.99        | --                                     | 149.93              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 9/23/2001  | 157.92          | 8.52        | --                                     | 149.40              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 12/31/2001 | 157.92          | 6.01        | --                                     | 151.91              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 3/21/2002  | 157.92          | 5.95        | --                                     | 151.97              | <50           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5           | 45            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 4/17/2002  | 157.92          | 6.45        | --                                     | 151.47              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 12/8/2002  | 157.92          | 8.08        | --                                     | 149.84              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 6/12/2002  | 157.92          | 8.29        | --                                     | 149.63              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 1/29/2003  | 157.92          | 7.22        | --                                     | 150.70              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | b  |
|            | 5/23/2003  | 157.92          | 6.85        | --                                     | 151.07              | <50           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5           | 55            | <20               | --             | <0.5           | <0.5          | 0.53           | <100              | 1.40         | --    | -- |
|            | 4/9/2003   | 157.92          | 7.94        | --                                     | 149.98              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 11/20/2003 | 157.92          | 8.05        | --                                     | 149.87              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 2/2/2004   | 163.46          | 7.00        | --                                     | 156.46              | 74            | <0.5        | <0.5        | <0.5        | <0.5        | <0.5           | 37            | <20               | <0.5           | <0.5           | <0.5          | <0.5           | <100              | 1.10         | --    | f  |
|            | 5/14/2004  | 163.46          | 7.97        | --                                     | 155.49              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 2/9/2004   | 163.46          | 8.19        | --                                     | 155.27              | <250          | <2.5        | <2.5        | <2.5        | <2.5        | <2.5           | 67            | <100              | <2.5           | <2.5           | <2.5          | <2.5           | <500              | 2.70         | --    | -- |
|            | 4/11/2004  | 163.46          | 7.54        | --                                     | 155.92              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 8/2/2005   | 163.46          | 6.72        | --                                     | 156.74              | <50           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5           | 30            | <20               | <0.5           | <0.5           | <0.5          | <0.5           | <100              | 0.86         | --    | -- |
|            | 9/6/2005   | 163.46          | 7.16        | --                                     | 156.30              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 11/8/2005  | 163.46          | 7.85        | --                                     | 155.61              | <50           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5           | 35            | <20               | <0.5           | <0.5           | <0.5          | <0.5           | <100              | 1.00         | --    | a  |
|            | 1/18/2006  | 163.46          | 8.23        | --                                     | 155.23              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 2/16/2006  | 163.46          | 6.82        | --                                     | 156.64              | <50           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5           | 39            | <20               | <0.5           | <0.5           | <0.5          | <0.5           | <300              | 1.30         | --    | -- |
|            | 5/30/2006  | 163.46          | 7.23        | --                                     | 156.23              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 8/24/2006  | 163.46          | 8.00        | --                                     | 155.46              | 60            | <0.5        | <0.5        | <0.5        | <0.5        | <0.5           | 25            | <20               | <0.5           | <0.5           | <0.5          | <0.5           | <300              | 0.90         | --    | -- |
|            | 1/11/2006  | 163.46          | 8.38        | --                                     | 155.08              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 7/2/2007   | 163.46          | 7.88        | --                                     | 155.68              | <50           | 0.5         | <0.5        | <0.5        | <0.5        | <0.5           | 7             | <20               | <0.5           | <0.5           | <0.5          | <0.5           | <300              | 0.94         | --    | -- |
|            | 8/5/2007   | 163.46          | 7.28        | --                                     | 156.18              | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    | -- |
|            | 8/9/2007   | 163.46          | 8.38        | --                                     | 155.08              | 88            | 3.2         | <0.5        | <0.5        | <0.5        | <0.5           | 7             | <20               | <0.5           | <0.5           | <0.5          | <0.5           | <300              | 0.94         | --    | -- |
| 11/14/2007 | 163.46     | 8.10            | --          | 155.36                                 | --                  | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    |    |
| 2/22/2008  | 163.46     | 6.75            | --          | 156.71                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <0.5        | 24             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 2.18              | --           | --    |    |
| 5/24/2008  | 163.46     | 7.98            | --          | 155.48                                 | --                  | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    |    |
| 8/21/2008  | 163.46     | 8.58            | --          | 154.88                                 | <50                 | 2.6           | <0.5        | <0.5        | <0.5        | <0.5        | 5              | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 2.20              | --           | --    |    |
| 11/19/2008 | 163.46     | 8.66            | --          | 154.80                                 | --                  | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    |    |
| 2/23/2009  | 163.46     | 6.67            | --          | 156.79                                 | 74                  | 1             | <0.5        | <0.5        | <0.5        | <0.5        | 24             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 2.25              | --           | --    |    |
| 5/14/2009  | 163.46     | 7.02            | --          | 156.44                                 | --                  | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    |    |
| 8/20/2009  | 163.46     | 8.41            | --          | 155.05                                 | 82                  | 2.4           | <0.5        | <0.5        | <0.5        | <0.5        | 8              | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 2.19              | --           | --    |    |
| 2/19/2010  | 163.46     | 7.36            | --          | 156.10                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <0.5        | 22             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 0.81              | --           | --    |    |
| 10/8/2010  | 163.46     | 7.69            | --          | 155.77                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <0.5        | 23             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 2.40              | --           | --    |    |
| 12/16/2010 | 163.49     | 7.12            | --          | 156.37                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <0.5        | 17             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 0.89              | --           | --    |    |
| 2/14/2011  | 163.49     | 7.35            | --          | 156.14                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <0.5        | 11             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 0.87              | --           | --    |    |
| 5/20/2011  | 163.49     | 7.02            | --          | 156.47                                 | --                  | --            | --          | --          | --          | --          | --             | --            | --                | --             | --             | --            | --             | --                | --           | --    |    |
| 8/15/2011  | 163.49     | 7.62            | --          | 155.87                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <0.5        | 2              | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 1.45              | --           | --    |    |
| 2/2/2012   | 163.49     | 7.56            | --          | 155.93                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <0.5        | 2              | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <300           | 0.85              | --           | --    |    |
| 9/8/2012   | 163.49     | 6.31            | --          | 157.18                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 73             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <150           | 1.28              | --           | --    |    |
| 2/14/2013  | 163.49     | 6.03            | --          | 157.46                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 46             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <150           | 1.71              | --           | --    |    |
| 8/22/2013  | 163.49     | 7.79            | --          | 155.70                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 82             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <1.10          | <150              | 4.16         | --    | -- |
| 11/2/2014  | 163.49     | 7.12            | --          | 156.37                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 8              | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <0.5           | <150              | 2.32         | --    | -- |
| 8/15/2014  | 163.49     | 8.53            | --          | 154.96                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 61             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <0.73          | <150              | 2.90         | --    | -- |
| 12/2/2015  | 163.49     | 6.98            | --          | 156.51                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 57             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <0.5           | <150              | 0.78         | --    | -- |
| 8/31/2015  | 163.49     | 8.77            | --          | 154.72                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 40             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <0.5           | <150              | 0.90         | --    | -- |
| 3/17/2016  | 163.49     | 5.64            | --          | 157.95                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 49             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <0.5           | <150              | 0.00         | --    | -- |
| 9/9/2016   | 163.49     | 9.02            | --          | 154.97                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 20             | <20           | <0.5              | <0.5           | <0.5           | <0.5          | <0.5           | <500              | 0.70         | --    | -- |
| 3/14/2017  | 163.49     | 6.24            | --          | 157.25                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 45             | <20           | <0.5              | <0.5           | <0.5           | <0.5          | <0.5           | <500              | 0.70         | --    | -- |
| 9/20/2017  | 163.49     | 8.38            | --          | 155.11                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 18             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <0.5           | <150              | 0.15         | --    | -- |
| 1/19/2018  | 163.49     | 7.05            | --          | 156.44                                 | <50                 | <0.5          | <0.5        | <0.5        | <0.5        | <1.0        | 24             | <10           | <0.5              | <0.5           | <0.5           | <0.5          | <0.5           | <150              | 0.11         | --    | -- |

Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 Former BP Service Station No. 0374  
 6407 Telegraph Avenue  
 Oakland, California



| Well ID    | Date       | TOC (ft msl) | DTW (ft) | Measured LNAPL Thickness (ft) | GW Elev (ft msl) | GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | TBA (µg/L) | 1,2-DCA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | EDB (µg/L) | TAME (µg/L) | Ethanol (µg/L) | DO (mg/l) | Notes |    |    |
|------------|------------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------|----|----|
| MW-3       | 6/20/2000  | 153.64       | 6.42     | --                            | 147.22           | <50        | <0.5     | <0.5     | <0.5     | <1.0     | <10         | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |    |
|            | 9/28/2000  | 153.64       | 7.31     | --                            | 146.33           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
|            | 12/17/2000 | 153.64       | 6.45     | --                            | 147.19           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
|            | 3/23/2001  | 153.64       | 6.01     | --                            | 147.63           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 6/21/2001  | 153.64       | 6.80     | --                            | 146.84           | 110        | 5.5      | <0.5     | 5        | 4        | 3           | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 9/23/2001  | 153.64       | 7.32     | --                            | 146.32           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 12/31/2001 | 153.64       | 4.48     | --                            | 149.16           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <0.5        | 5          | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 3/21/2002  | 153.64       | 4.36     | --                            | 149.28           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 4/17/2002  | 153.64       | 5.31     | --                            | 148.33           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <0.5        | 9          | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 12/8/2002  | 153.64       | 7.00     | --                            | 146.84           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 6/12/2002  | 153.64       | 7.32     | --                            | 146.32           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <0.5        | 6          | --             | --          | --          | --         | --          | --             | --        | 1.40  | -- | -- |
|            | 1/29/2003  | 153.64       | 6.07     | --                            | 147.57           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | b  |
|            | 5/23/2003  | 153.64       | 6.45     | --                            | 147.19           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <0.5        | 2          | <20            | --          | <0.50       | <0.50      | <0.50       | <0.50          | <100      | 0.90  | -- | c  |
|            | 4/9/2003   | 153.64       | 6.83     | --                            | 146.71           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | c  |
|            | 11/20/2003 | 153.64       | 7.04     | --                            | 146.60           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | c  |
|            | 2/2/2004   | 159.21       | 5.82     | --                            | 153.29           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | f  |
|            | 5/14/2004  | 159.21       | 7.52     | --                            | 151.69           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 2/9/2004   | 159.21       | 7.19     | --                            | 152.02           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | <0.50       | 7          | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <100      | 9.30  | -- | -- |
|            | 4/11/2004  | 159.21       | 6.40     | --                            | 152.81           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 8/2/2005   | 159.21       | 6.01     | --                            | 153.20           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 9/6/2005   | 159.21       | 6.74     | --                            | 152.47           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 11/8/2005  | 159.21       | 6.77     | --                            | 152.44           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | <0.50       | 11         | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <100           | 1.90      | --    | a  |    |
|            | 1/18/2006  | 159.21       | 7.83     | --                            | 151.38           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 2/16/2006  | 159.21       | 7.26     | --                            | 151.95           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 5/30/2006  | 159.21       | 5.82     | --                            | 153.39           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 8/24/2006  | 159.21       | 7.00     | --                            | 152.21           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | <0.50       | 8          | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 1.15      | --    | -- |    |
|            | 1/11/2006  | 159.21       | 7.50     | --                            | 151.71           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 7/2/2007   | 159.21       | 6.90     | --                            | 152.31           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 8/5/2007   | 159.21       | 5.95     | --                            | 153.26           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- | -- |
|            | 8/9/2007   | 159.21       | 7.47     | --                            | 151.74           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | <0.50       | 1          | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 1.21      | --    | -- |    |
| 11/14/2007 | 159.21     | 7.05         | --       | 152.16                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 2/22/2008  | 159.21     | 5.50         | --       | 153.71                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 5/24/2008  | 159.21     | 7.03         | --       | 152.18                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 8/21/2008  | 159.21     | 7.80         | --       | 151.41                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 3           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <300        | 2.11           | --        | --    | -- |    |
| 1/19/2009  | 159.21     | 7.89         | --       | 151.52                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 2/23/2009  | 159.21     | 7.28         | --       | 151.93                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 5/14/2009  | 159.21     | 6.17         | --       | 153.04                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 8/20/2009  | 159.21     | 7.38         | --       | 151.83                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 2           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <300        | 2.05           | --        | --    | -- |    |
| 2/19/2010  | 159.21     | 5.31         | --       | 153.90                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 10/8/2010  | 159.21     | 7.12         | --       | 152.09                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 2           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 1.27      | --    | -- |    |
| 12/16/2010 | 159.21     | 5.65         | --       | 153.66                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 2/14/2011  | 159.21     | 6.20         | --       | 153.01                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 5/20/2011  | 159.21     | 5.77         | --       | 153.44                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 8/15/2011  | 159.21     | 6.41         | --       | 152.80                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 1           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <300        | 1.04           | --        | --    | -- |    |
| 2/2/2012   | 159.21     | 6.34         | --       | 152.87                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 9/8/2012   | 159.21     | 6.62         | --       | 152.59                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 2           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <150        | 1.16           | --        | --    | -- |    |
| 2/14/2013  | 159.21     | 6.09         | --       | 153.12                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 8/22/2013  | 159.21     | 7.15         | --       | 152.06                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 1           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <150        | 4.35           | --        | --    | -- |    |
| 11/2/2014  | 159.21     | 5.79         | --       | 153.42                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 8/15/2014  | 159.21     | 6.30         | --       | 152.91                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 1           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 0.15      | --    | -- |    |
| 12/2/2015  | 159.21     | 3.41         | --       | 155.80                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 8/31/2015  | 159.21     | 7.30         | --       | 151.91                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 1           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 0.90      | --    | -- |    |
| 3/16/2016  | 159.21     | 2.50         | --       | 156.71                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 9/9/2016   | 166.80     | 7.56         | --       | 159.24                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | <0.50       | <20        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <500           | --        | --    | -- |    |
| 3/14/2017  | 166.80     | 2.70         | --       | 164.10                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |
| 9/20/2017  | 166.80     | 6.64         | --       | 160.16                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 1.1         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 0.19      | --    | -- |    |
| 1/19/2018  | 166.80     | 4.20         | --       | 162.60                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | -- |    |

Table 3  
Historical Groundwater Monitoring and Analytical Data  
Former BP Service Station No. 0374  
6407 Telegraph Avenue  
Oakland, California

| Well ID    | Date       | TOC (ft msl) | DTW (ft) | Measured LNAPL Thickness (ft) | GW Elev (ft msl) | GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | TBA (µg/L) | 1,2-DCA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | EDB (µg/L) | TAME (µg/L) | Ethanol (µg/L) | DO (mg/l) | Notes |         |   |
|------------|------------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------|---------|---|
| MW-4       | 6/20/2000  | 156.53       | 7.50     | --                            | 149.03           | 20,000     | 5,100    | 440      | 1,000    | 1,700    | <250        | --         | --             | --          | --          | --         | --          | --             | --        | c     |         |   |
|            | 9/28/2000  | 156.53       | 8.20     | --                            | 148.33           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
|            | 12/17/2000 | 156.53       | 8.11     | --                            | 148.42           | 4,320      | 1,240    | <20      | 27       | 249      | <100        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
|            | 3/23/2001  | 156.53       | 6.89     | --                            | 149.84           | 2,800      | 470      | 16       | 19       | 160      | 130         | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
|            | 6/21/2001  | 156.53       | 8.01     | --                            | 147.62           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      |   |
|            | 9/23/2001  | 156.53       | 8.91     | --                            | 152.11           | 4,600      | 1,500    | 100      | 160      | 210      | 160         | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
|            | 12/31/2001 | 156.53       | 4.42     | --                            | 151.55           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      |   |
|            | 3/21/2002  | 156.53       | 4.98     | --                            | 150.30           | 7,100      | 2,200    | 110      | 290      | 450      | <250        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
|            | 4/17/2002  | 156.53       | 6.23     | --                            | 148.29           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
|            | 12/8/2002  | 156.53       | 8.24     | --                            | 148.11           | 1,500      | 410      | 7        | 20       | 29       | 43          | --         | --             | --          | --          | --         | --          | --             | --        | 1.10  | a       |   |
|            | 6/12/2002  | 156.53       | 8.42     | --                            | 149.33           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      | b |
|            | 1/29/2003  | 156.53       | 7.20     | --                            | 149.33           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      |   |
|            | 5/23/2003  | 156.53       | 7.18     | --                            | 149.35           | <5,000     | 1,300    | 89       | 210      | 260      | <50         | <50        | <50            | <50         | <50         | <50        | <50         | <50            | <10,000   | 1.40  | b       |   |
|            | 4/9/2003   | 156.53       | 8.15     | --                            | 148.38           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      | c |
|            | 11/20/2003 | 156.53       | 8.73     | --                            | 147.80           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      |   |
|            | 2/2/2004   | 163.25       | 6.25     | --                            | 157.00           | 980        | 280      | 21       | 29       | 38       | 29          | 29         | <100           | <2.5        | <2.5        | <2.5       | 2.60        | <500           | 1.40      | 1.40  | c, f, g |   |
|            | 5/14/2004  | 163.25       | 8.36     | --                            | 154.87           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      | g |
|            | 2/9/2004   | 163.25       | 8.36     | --                            | 154.89           | 260        | 11       | <10      | 6        | 14       | 28          | <10        | <40            | <10         | <10         | <10        | <10         | <10            | <200      | 2.40  | g       |   |
|            | 4/11/2004  | 163.25       | 7.71     | --                            | 155.54           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      | g |
|            | 8/2/2005   | 163.25       | 6.27     | --                            | 156.98           | 7,500      | 1,700    | 320      | 480      | 920      | 45          | <1,000     | <25            | <25         | <25         | <25        | <25         | <25            | <5,000    | 0.85  | c, g    |   |
|            | 9/5/2005   | 163.25       | 5.90     | --                            | 157.35           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      | g |
|            | 11/8/2005  | 163.25       | 7.96     | --                            | 155.29           | 3,100      | 1,100    | 41       | 160      | 110      | 32          | <400       | <10            | <10         | <10         | <10        | <10         | <10            | <2,000    | 0.60  | g       |   |
|            | 11/18/2005 | 163.25       | 8.57     | --                            | 154.68           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      | g |
|            | 2/16/2006  | 163.25       | 6.28     | --                            | 156.97           | 9,400      | 1,800    | 130      | 600      | 420      | 35          | <400       | <10            | <10         | <10         | <10        | <10         | <10            | <8,000    | 0.50  | g       |   |
|            | 5/30/2006  | 162.47       | 7.02     | --                            | 155.45           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      | g |
|            | 8/24/2006  | 162.47       | 8.26     | --                            | 154.21           | 3,600      | 1,400    | 21       | 110      | 70       | 39          | <100       | <2.5           | <2.5        | <2.5        | <2.5       | <2.5        | <1,500         | 1.00      | 1.00  | g       |   |
|            | 1/11/2006  | 162.47       | 8.67     | --                            | 153.80           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      |   |
|            | 7/2/2007   | 162.47       | 8.02     | --                            | 154.45           | 3,100      | 570      | 17       | 170      | 110      | 67          | <400       | <10            | <10         | <10         | <10        | <10         | <10            | <6,000    | 0.95  |         |   |
|            | 8/5/2007   | 162.47       | 7.03     | --                            | 155.44           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      |   |
|            | 8/8/2007   | 162.47       | 8.60     | --                            | 153.87           | 2,900      | 630      | 22       | 67       | 57       | 72          | <400       | <10            | <10         | <10         | <10        | <10         | <10            | <8,000    | 0.93  |         |   |
|            | 11/14/2007 | 162.47       | 8.53     | --                            | 153.94           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      |   |
|            | 2/22/2008  | 162.47       | 6.25     | --                            | 156.22           | 3,900      | 860      | 39       | 180      | 92       | 70          | <200       | <10            | <10         | <10         | <10        | <10         | <10            | <6,000    | 2.31  |         |   |
| 5/24/2008  | 162.47     | --           | --       | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | d       |   |
| 8/21/2008  | 162.47     | 8.96         | --       | 153.51                        | 3,700            | 1,100      | 26       | 85       | 130      | 53       | <400        | <20        | <20            | <20         | <20         | <20        | <20         | <12,000        | 2.26      |       |         |   |
| 11/19/2008 | 162.47     | 9.20         | --       | 153.27                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
| 2/23/2009  | 162.47     | 6.35         | --       | 156.12                        | 3,000            | 220        | 9        | 23       | 19       | 39       | <100        | <50        | <50            | <50         | <50         | <50        | <50         | <3,000         | 2.21      |       |         |   |
| 5/14/2009  | 162.47     | 7.00         | --       | 155.47                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
| 8/20/2009  | 162.47     | 8.05         | --       | 154.42                        | 5,700            | 1,100      | 35       | 110      | 100      | 23       | <400        | <20        | <20            | <20         | <20         | <20        | <20         | <12,000        | 2.17      |       |         |   |
| 2/19/2010  | 162.47     | 5.71         | --       | 156.76                        | 12,000           | 1,200      | 120      | 230      | 390      | <50      | <50         | <100       | <50            | <50         | <50         | <50        | <50         | <3,000         | 0.81      | i     |         |   |
| 10/8/2010  | 162.47     | 7.59         | --       | 154.88                        | 9,700            | 1,500      | 120      | 400      | 400      | <20      | <400        | <20        | <20            | <20         | <20         | <20        | <20         | <12,000        | 3.81      |       |         |   |
| 12/16/2010 | 162.48     | 6.83         | --       | 155.65                        | 15,000           | 1,800      | 82       | 270      | 210      | <25      | <500        | <25        | <25            | <25         | <25         | <25        | <25         | <15,000        | 0.49      | j     |         |   |
| 2/14/2011  | 162.48     | 7.33         | --       | 155.15                        | 280              | <0.50      | <0.50    | 3        | 11       | 13       | <10         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 0.80      |       |         |   |
| 5/20/2011  | 162.48     | 6.89         | --       | 155.59                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |   |
| 8/15/2011  | 162.48     | 7.59         | --       | 154.89                        | 8,600            | 2,100      | 86       | 250      | 210      | <12      | <250        | <12        | <12            | <12         | <12         | <12        | <12         | <7,500         | 1.02      | i     |         |   |
| 2/2/2012   | 162.48     | 7.71         | --       | 154.77                        | 4,600            | 1,000      | 34       | 33       | 33       | <12      | <250        | <12        | <12            | <12         | <12         | <12        | <12         | <7,500         | 0.60      |       |         |   |
| 9/8/2012   | 162.48     | 6.57         | --       | 155.91                        | 3,200            | 660        | 44       | 53       | 57       | <50      | <100        | <50        | <50            | <50         | <50         | <50        | <50         | <1,500         | 1.09      |       |         |   |
| 2/14/2013  | 162.48     | 6.26         | --       | 156.22                        | 7,200            | 1,400      | 150      | 390      | 700      | 330      | <10         | <200       | <10            | <10         | <10         | <10        | <10         | <3,000         | 1.20      |       |         |   |
| 8/22/2013  | 162.48     | 7.59         | --       | 154.89                        | 6,900            | 1,600      | 100      | 120      | 330      | <10      | <200        | <10        | <10            | <10         | <10         | <10        | <10         | <3,000         | 4.50      |       |         |   |
| 11/2/2014  | 162.48     | 7.13         | --       | 155.35                        | 140              | 800        | 80       | 84       | 230      | <50      | <100        | <50        | <50            | <50         | <50         | <50        | <50         | <1,500         | 1.03      |       |         |   |
| 8/15/2014  | 162.48     | 8.33         | --       | 154.15                        | 6,300            | 900        | 45       | 38       | 92       | <50      | <100        | <50        | <50            | <50         | <50         | <50        | <50         | <1,500         | 0.21      |       |         |   |
| 12/2/2015  | 162.48     | 5.98         | --       | 156.50                        | 7,000            | 1,200      | 8        | 31       | 22       | <0.50    | <10         | <0.50      | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <1,500         | 0.61      |       |         |   |
| 8/31/2015  | 162.48     | 8.66         | --       | 153.82                        | 6,300            | 570        | 43       | 27       | 52       | <50      | <100        | <50        | <50            | <50         | <50         | <50        | <50         | <1,500         | 0.88      |       |         |   |
| 3/17/2016  | 162.48     | 3.25         | --       | 159.23                        | 8,700            | 1,100      | 160      | 870      | 560      | <10      | <200        | <10        | <10            | <10         | <10         | <10        | <10         | <3,000         | 0.00      |       |         |   |
| 9/9/2016   | 162.48     | 8.60         | --       | 153.68                        | 4,400            | 1,100      | 51       | 14       | 61       | <10      | <100        | <10        | <10            | <10         | <10         | <10        | <10         | <10,000        | --        |       |         |   |
| 3/14/2017  | 162.48     | 3.75         | --       | 158.73                        | 6,800            | 770        | 97       | 650      | 420      | <10      | <400        | <10        | <10            | <10         | <10         | <10        | <10         | <10,000        | 0.57      |       |         |   |
| 9/20/2017  | 162.48     | 8.10         | --       | 154.38                        | 6,900            | 1,100      | 61       | 27       | 130      | <10      | <200        | <10        | <10            | <10         | <10         | <10        | <10         | <3,000         | 0.36      |       |         |   |
| 1/19/2018  | 162.48     | 6.34         | --       | 156.14                        | <5,000           | 490        | 40       | 40       | 49       | <10      | <200        | <10        | <10            | <10         | <10         | <10        | <10         | <3,000         | 0.1       |       |         |   |

Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 Former BP Service Station No. 0374  
 6407 Telegraph Avenue  
 Oakland, California



| Well ID    | Date       | TOC (ft msl) | DTW (ft) | Measured LNAPL Thickness (ft) | GW Elev (ft msl) | GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | TBA (µg/L) | 1,2-DCA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | EDB (µg/L) | TAME (µg/L) | Ethanol (µg/L) | DO (mg/l) | Notes |         |      |
|------------|------------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------|---------|------|
| MW-5       | 6/20/2000  | 151.33       | 7.84     | --                            | 143.99           | <50        | <0.5     | <0.5     | <0.5     | <1.0     | <1.0        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 9/28/2000  | 151.33       | 8.37     | --                            | 142.96           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 12/17/2000 | 151.33       | 8.36     | --                            | 142.97           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 3/23/2001  | 151.33       | 7.55     | --                            | 143.78           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 6/21/2001  | 151.33       | 8.20     | --                            | 143.13           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 9/23/2001  | 151.33       | 8.68     | --                            | 142.65           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 12/31/2001 | 151.33       | 7.57     | --                            | 143.76           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 3/21/2002  | 151.33       | 6.12     | --                            | 145.21           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 4/17/2002  | 151.33       | 6.61     | --                            | 144.72           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |         |      |
|            | 12/8/2002  | 151.33       | 8.14     | --                            | 143.19           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | 4.10  |         |      |
|            | 6/12/2002  | 151.33       | 8.65     | --                            | 142.68           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | 1.10  |         |      |
|            | 1/29/2003  | 151.33       | 7.22     | --                            | 144.11           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | 1.00  |         |      |
|            | 5/23/2003  | 151.33       | 7.31     | --                            | 144.02           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | 1.10  |         |      |
|            | 4/9/2003   | 151.33       | 9.50     | --                            | 141.83           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | 3.20  |         |      |
|            | 11/20/2003 | 151.33       | 8.31     | --                            | 143.02           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | --      |      |
|            | 2/2/2004   | 151.33       | 6.92     | --                            | 144.41           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | c, f, h |      |
|            | 5/14/2004  | 151.33       | 8.56     | --                            | 142.77           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | h       |      |
|            | 2/9/2004   | 151.33       | 8.79     | --                            | 142.54           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.0        | <0.5       | <2.0           | <0.5        | <0.5        | <0.5       | <0.5        | <100           | <100      | 3.50  | h       |      |
|            | 4/11/2004  | 151.33       | 8.33     | --                            | 143.00           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | h       |      |
|            | 8/2/2005   | 151.33       | 7.28     | --                            | 144.05           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | 3.50    | c, h |
|            | 9/5/2005   | 151.33       | 8.19     | --                            | 143.14           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | 3.20    | h    |
|            | 11/8/2005  | 151.33       | 8.39     | --                            | 142.94           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.0        | <0.5       | <2.0           | <0.5        | <0.5        | <0.5       | <0.5        | <100           | <100      | 1.20  | h       |      |
|            | 11/18/2005 | 151.33       | 11.25    | --                            | 140.08           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | 1.20    | h    |
|            | 2/16/2006  | 151.33       | 9.22     | --                            | 142.11           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | 3.50    | h    |
|            | 5/30/2006  | 151.33       | 7.52     | --                            | 143.81           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | 3.50    | h    |
|            | 8/24/2006  | 151.33       | 7.95     | --                            | 143.38           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.0        | <0.5       | <2.0           | <0.5        | <0.5        | <0.5       | <0.5        | <300           | <300      | 2.60  | h       |      |
|            | 1/11/2006  | 151.33       | 8.32     | --                            | 143.01           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | 2.60    | h    |
|            | 7/2/2007   | 151.33       | 8.25     | --                            | 143.08           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | 2.60    | h    |
|            | 8/5/2007   | 151.33       | 7.60     | --                            | 143.73           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    | 2.60    | h    |
|            | 8/8/2007   | 151.33       | 8.12     | --                            | 143.21           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.0        | <0.5       | <2.0           | <0.5        | <0.5        | <0.5       | <0.5        | <300           | <300      | 3.26  | h       |      |
| 11/14/2007 | 151.33     | 9.10         | --       | 142.23                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 3.26  | h       |      |
| 2/22/2008  | 151.33     | 7.48         | --       | 143.85                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 3.26  | h       |      |
| 5/24/2008  | 151.33     | 8.12         | --       | 143.21                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 3.26  | h       |      |
| 8/21/2008  | 151.33     | 8.65         | --       | 142.68                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 2.14      | h     |         |      |
| 11/19/2008 | 151.33     | 11.86        | --       | 139.47                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 2.14  | h       |      |
| 2/23/2009  | 151.33     | 10.20        | --       | 141.13                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 2.14  | h       |      |
| 5/14/2009  | 151.33     | 9.63         | --       | 141.70                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 2.14  | h       |      |
| 8/20/2009  | 151.33     | 8.52         | --       | 142.81                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 2.01      | h     |         |      |
| 2/19/2010  | 151.33     | --           | --       | 148.88                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <1.0     | <0.5        | <1.0       | <0.5           | <0.5        | <0.5        | <0.5       | <150        | <150           | 1.25      | h     |         |      |
| 10/8/2010  | 156.90     | 8.05         | --       | 148.85                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 1.15      | d     |         |      |
| 12/16/2010 | 156.90     | 8.10         | --       | 148.80                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 1.15  | d       |      |
| 2/14/2011  | 156.90     | --           | --       | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 1.15  | d       |      |
| 5/20/2011  | 156.90     | --           | --       | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 1.15  | d       |      |
| 8/15/2011  | 156.90     | 7.91         | --       | 148.99                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 2.46      | d     |         |      |
| 2/2/2012   | 156.90     | 8.08         | --       | 148.82                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 2.46  | d       |      |
| 9/8/2012   | 156.90     | 8.02         | --       | 148.88                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <1.0     | <0.5        | <1.0       | <0.5           | <0.5        | <0.5        | <0.5       | <150        | <150           | 1.25      | d     |         |      |
| 2/14/2013  | 156.90     | 7.54         | --       | 149.36                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 1.25  | d       |      |
| 8/22/2013  | 156.90     | 8.34         | --       | 148.56                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 4.33      | d     |         |      |
| 11/2/2014  | 156.90     | 7.61         | --       | 149.29                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 4.33  | d       |      |
| 8/15/2014  | 156.90     | 8.06         | --       | 148.84                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 2.33      | d     |         |      |
| 12/2/2015  | 156.90     | 5.32         | --       | 151.58                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 2.33  | d       |      |
| 8/31/2015  | 156.90     | 7.78         | --       | 149.12                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 0.83      | d     |         |      |
| 3/17/2016  | 156.90     | 3.75         | --       | 153.15                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 0.83  | d       |      |
| 9/8/2016   | 156.90     | 7.29         | --       | 149.61                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 1.15      | d     |         |      |
| 3/14/2017  | 156.90     | 4.29         | --       | 152.61                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 1.15  | d       |      |
| 9/21/2017  | 156.90     | 5.75         | --       | 151.15                        | <50              | <0.5       | <0.5     | <0.5     | <0.5     | <2.0     | <0.5        | <2.0       | <0.5           | <0.5        | <0.5        | <0.5       | <300        | <300           | 0.13      | d     |         |      |
| 1/19/2018  | 156.90     | --           | --       | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | 0.13  | d       |      |

Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 Former BP Service Station No. 0374  
 6407 Telegraph Avenue  
 Oakland, California



| Well ID    | Date       | TOC (ft msl) | DTW (ft) | Measured LNAPL Thickness (ft) | GW Elev (ft msl) | GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | TBA (µg/L) | 1,2-DCA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | EDB (µg/L) | TAME (µg/L) | Ethanol (µg/L) | DO (mg/l) | Notes |    |   |
|------------|------------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------|----|---|
| MW-6       | 6/20/2000  | 153.84       | 4.79     | --                            | 149.05           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 9/28/2000  | 153.84       | 5.39     | --                            | 148.45           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 12/17/2000 | 153.84       | 4.71     | --                            | 149.13           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 3/23/2001  | 153.84       | 4.69     | --                            | 149.15           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <2.5        | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 6/21/2001  | 153.84       | 5.22     | --                            | 148.62           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 9/23/2001  | 153.84       | 5.40     | --                            | 148.44           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 12/31/2001 | 153.84       | 3.95     | --                            | 149.89           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 3/21/2002  | 153.84       | 2.94     | --                            | 150.90           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | 5           | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 4/17/2002  | 153.84       | 5.11     | --                            | 148.73           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 12/8/2002  | 153.84       | 5.23     | --                            | 148.61           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 12/6/2002  | 153.84       | 5.29     | --                            | 148.55           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 1/29/2003  | 153.84       | 4.79     | --                            | 149.05           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 5/23/2003  | 153.84       | 4.31     | --                            | 149.53           | <50        | <0.5     | <0.5     | <0.5     | <0.5     | <0.5        | 9          | <20            | --          | <0.50       | <0.50      | <0.50       | <100           | <100      | 1.00  | b  |   |
|            | 4/9/2003   | 153.84       | 5.84     | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    | d |
|            | 11/20/2003 | 153.84       | 6.31     | --                            | 147.53           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 2/2/2004   | 159.41       | 4.78     | --                            | 154.63           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    | f |
|            | 5/14/2004  | 159.41       | 6.29     | --                            | 153.12           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    | d |
|            | 2/9/2004   | 159.41       | 5.79     | --                            | 153.62           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    | d |
|            | 4/11/2004  | 159.41       | --       | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    | d |
|            | 8/2/2005   | 159.41       | 5.13     | --                            | 154.28           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 9/6/2005   | 159.41       | 4.52     | --                            | 154.89           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 11/8/2005  | 159.41       | 5.02     | --                            | 154.39           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | <0.50       | 8          | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <100           | <100      | 2.10  | a2 |   |
|            | 11/18/2005 | 159.41       | 6.31     | --                            | 153.10           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 2/16/2006  | 159.41       | 4.24     | --                            | 155.17           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 5/30/2006  | 159.41       | 4.45     | --                            | 154.96           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 8/24/2006  | 159.41       | 5.18     | --                            | 154.23           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | <0.50       | 12         | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <300           | <300      | 3.40  |    |   |
|            | 1/11/2006  | 159.41       | 6.05     | --                            | 153.36           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 7/2/2007   | 159.41       | 5.00     | --                            | 154.41           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 8/5/2007   | 159.41       | 4.30     | --                            | 155.11           | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        | --    |    |   |
|            | 8/9/2007   | 159.41       | 5.51     | --                            | 153.90           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | <0.50       | 1          | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <300           | <300      | 2.94  |    |   |
| 11/14/2007 | 159.41     | 5.38         | --       | 154.03                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 2/22/2008  | 159.41     | 4.70         | --       | 154.71                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 5/24/2008  | 159.41     | 5.25         | --       | 154.16                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 8/21/2008  | 159.41     | 6.14         | --       | 153.27                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 2           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <300        | <300           | 1.99      |       |    |   |
| 11/19/2008 | 159.41     | 5.94         | --       | 153.47                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 2/23/2009  | 159.41     | 5.00         | --       | 154.41                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 5/14/2009  | 159.41     | 4.60         | --       | 154.81                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 8/20/2009  | 159.41     | 5.65         | --       | 153.76                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 2           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <300        | <300           | 1.98      |       |    |   |
| 2/19/2010  | 159.41     | 7.28         | --       | 152.13                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 10/8/2010  | 159.41     | 5.02         | --       | 154.39                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 4           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <300        | <300           | 1.99      |       |    |   |
| 12/16/2010 | 159.41     | 4.50         | --       | 154.91                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       | j  |   |
| 2/14/2011  | 159.41     | 4.80         | --       | 154.61                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 5/20/2011  | 159.41     | 4.29         | --       | 155.12                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 8/15/2011  | 159.41     | 4.52         | --       | 154.89                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 2           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <300        | <300           | 1.55      |       |    |   |
| 2/2/2012   | 159.41     | --           | --       | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       | d  |   |
| 9/8/2012   | 159.41     | 4.65         | --       | 154.76                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 4           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <150        | <150           | 1.14      |       |    |   |
| 2/14/2013  | 159.41     | --           | --       | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       | d  |   |
| 8/22/2013  | 159.41     | --           | --       | --                            | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       | d  |   |
| 11/2/2014  | 159.41     | 4.67         | --       | 154.74                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 8/15/2014  | 159.41     | 2.84         | --       | 156.57                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 2           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | <150      | 1.08  |    |   |
| 12/2/2015  | 159.41     | 1.40         | --       | 158.01                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 8/31/2015  | 159.41     | 5.19         | --       | 154.22                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 1           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | <150      | 1.05  |    |   |
| 3/17/2016  | 159.41     | 1.32         | --       | 158.09                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 9/9/2016   | 159.41     | 5.97         | --       | 153.44                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | <0.50       | <20        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <500           | <500      | --    |    |   |
| 3/14/2017  | 159.41     | 1.34         | --       | 158.07                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |
| 9/19/2017  | 159.41     | 5.40         | --       | 154.01                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | <0.50       | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | <150      | 0.30  |    |   |
| 1/19/2018  | 159.41     | 2.16         | --       | 157.25                        | --               | --         | --       | --       | --       | --       | --          | --         | --             | --          | --          | --         | --          | --             | --        |       |    |   |

Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 Former BP Service Station No. 0374  
 6407 Telegraph Avenue  
 Oakland, California



| Well ID    | Date       | TOC (ft msl) | DTW (ft) | Measured LNAPL Thickness (ft) | GW Elev (ft msl) | GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | TBA (µg/L) | 1,2-DCA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | EDB (µg/L) | TAME (µg/L) | Ethanol (µg/L) | DO (mg/l) | Notes   |  |
|------------|------------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|---------|--|
| MW-7       | 12/16/2010 | 164.80       | 6.52     | --                            | 158.28           | 700        | <0.50    | <0.50    | 15       | 32       | 62          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | --        | j       |  |
|            | 2/14/2011  | 164.80       | 6.77     | --                            | 158.03           | 7,100      | 1,700    | 98       | 260      | 210      | <20         | <400       | <20            | <20         | <20         | <20        | <20         | <12,000        | 1.02      |         |  |
|            | 5/20/2011  | 164.80       | 5.84     | --                            | 158.96           | 570        | <0.50    | <0.50    | 37       | 25       | 5           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 1.66      | I (GRO) |  |
|            | 8/15/2011  | 164.80       | 6.96     | --                            | 157.84           | 420        | <1.0     | <1.0     | 49       | 7        | 14          | <20        | <1.0           | <1.0        | <1.0        | <1.0       | <1.0        | <600           | 0.58      |         |  |
|            | 2/2/2012   | 164.80       | 7.15     | --                            | 157.65           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | 6           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <300      | 0.45    |  |
|            | 9/8/2012   | 164.80       | 5.05     | --                            | 159.75           | 85         | <0.50    | <0.50    | 6        | 1        | 7           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <150      | 1.04    |  |
|            | 2/14/2013  | 164.80       | 4.38     | --                            | 160.42           | 310        | 1        | <0.50    | 2        | 6        | 5           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 1.31      |         |  |
|            | 8/22/2013  | 164.80       | 7.39     | --                            | 157.41           | 78         | <0.50    | <0.50    | 4        | <1.0     | 3           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 4.01      |         |  |
|            | 11/2/2013  | 164.80       | 7.37     | --                            | 157.43           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | 12          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <150      | 1.90    |  |
|            | 8/15/2014  | 164.80       | 8.39     | --                            | 156.41           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | 50          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <150      | 0.74    |  |
|            | 12/2/2015  | 164.80       | 6.76     | --                            | 158.04           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | 4           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <150      | 0.65    |  |
|            | 8/31/2015  | 164.80       | 8.50     | --                            | 156.30           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | 27          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <150      | 0.80    |  |
|            | 3/17/2016  | 164.80       | 5.03     | --                            | 159.77           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | 2           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <150      | 0.32    |  |
|            | 9/9/2016   | 164.80       | 8.69     | --                            | 156.11           | <50        | <0.50    | <0.50    | <0.50    | <0.50    | 1.0         | 72         | <20            | <0.50       | <0.50       | <0.50      | <0.50       | <0.50          | <500      | --      |  |
|            | 3/14/2017  | 164.80       | 4.97     | --                            | 159.83           | <50        | 1.8      | <0.50    | 1.3      | 1.0      | 1.3         | <20        | <10            | <0.50       | <0.50       | <0.50      | <0.50       | <500           | 0.55      |         |  |
| 9/20/2017  | 164.80     | 8.00         | --       | 156.80                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 42          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 0.18      |         |  |
| 1/19/2018  | 164.80     | 6.67         | --       | 158.73                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 36          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 0.12      |         |  |
| 12/16/2010 | 164.14     | 6.85         | --       | 157.29                        | 520              | 43         | <0.50    | 4        | 21       | 150      | <10         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | 1.70        | <300           | 0.46      | j       |  |
| 2/14/2011  | 164.14     | 7.30         | --       | 156.84                        | <50              | <2.0       | <2.0     | <2.0     | <2.0     | <2.0     | 110         | <40        | <2.0           | <2.0        | <2.0        | <2.0       | <2.0        | <1,200         | 1.07      |         |  |
| 5/20/2011  | 164.14     | 6.88         | --       | 157.26                        | <50              | <2.0       | <2.0     | <2.0     | <2.0     | 88       | <40         | <40        | <2.0           | <2.0        | <2.0        | <2.0       | <2.0        | <1,200         | 1.35      |         |  |
| 8/15/2011  | 164.14     | 6.00         | --       | 158.14                        | <50              | 5.2        | <1.0     | 10       | 10       | <1.0     | 57          | <20        | <1.0           | <1.0        | <1.0        | <1.0       | <1.0        | <600           | 0.51      |         |  |
| 2/2/2012   | 164.14     | 7.57         | --       | 156.57                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <0.50    | 4           | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <300           | 0.88      |         |  |
| 9/8/2012   | 164.14     | 6.08         | --       | 158.06                        | 110              | 67         | <0.50    | <0.50    | <0.50    | <1.0     | 150         | 31         | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 1.16      |         |  |
| 2/14/2013  | 164.14     | 5.70         | --       | 158.44                        | 720              | 350        | <2.0     | <2.0     | <2.0     | <4.0     | 240         | 150        | <2.0           | <2.0        | <2.0        | <2.0       | 5.20        | <600           | 1.23      |         |  |
| 8/22/2013  | 164.14     | 7.95         | --       | 156.19                        | <50              | 1.5        | <0.50    | <0.50    | <0.50    | <1.0     | 180         | 39         | <0.50          | <0.50       | <0.50       | <0.50      | 2.80        | <150           | 3.96      |         |  |
| 11/2/2014  | 164.14     | 7.56         | --       | 156.58                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 78          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | 0.83        | <150           | 1.93      |         |  |
| 8/15/2014  | 164.14     | 8.65         | --       | 155.49                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 21          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 1.92      |         |  |
| 12/2/2015  | 164.14     | 7.13         | --       | 157.01                        | <50              | <0.50      | <0.50    | <0.50    | <0.50    | <1.0     | 47          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <0.50       | <150           | 6.27      |         |  |
| 8/31/2015  | 164.14     | 8.63         | --       | 155.31                        | 230              | 57         | <0.50    | <0.50    | <0.50    | <1.0     | 110         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | 2.30        | <150           | 1.15      |         |  |
| 3/17/2016  | 164.14     | 5.86         | --       | 158.28                        | <50              | 6.1        | <0.50    | <0.50    | <0.50    | <1.0     | 69          | <10        | <0.50          | <0.50       | <0.50       | <0.50      | 0.52        | <150           | 0.47      |         |  |
| 9/9/2016   | 164.14     | 9.14         | --       | 155.00                        | 75               | 37         | <0.50    | <0.50    | <0.50    | <1.0     | 67          | <20        | <0.50          | <0.50       | <0.50       | <0.50      | 1.20        | <500           | --        |         |  |
| 3/14/2017  | 164.14     | 6.30         | --       | 157.84                        | 270              | 10         | <0.50    | 1.1      | <1.0     | 45       | <20         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | <500        | 0.65           |           |         |  |
| 9/21/2017  | 164.14     | 8.48         | --       | 155.66                        | 370              | 19         | <0.50    | 1.3      | <1.0     | 64       | <10         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | 0.85        | <150           | 0.11      |         |  |
| 1/19/2018  | 164.14     | 7.10         | --       | 157.04                        | 830              | 73         | <0.50    | 3.9      | <1.0     | 57       | <10         | <10        | <0.50          | <0.50       | <0.50       | <0.50      | 0.77        | <150           | 0.21      |         |  |

Table 3  
Historical Groundwater Monitoring and Analytical Data  
Former BP Service Station No. 0374  
6407 Telegraph Avenue  
Oakland, California

| Well ID | Date       | TOC<br>(ft msl) | DTW<br>(ft) | Measured<br>LNAPL<br>Thickness<br>(ft) | GW Elev<br>(ft msl) | GRO<br>(µg/L) | B<br>(µg/L) | T<br>(µg/L) | E<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | 1,2-DCA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | EDB<br>(µg/L) | TAME<br>(µg/L) | Ethanol<br>(µg/L) | DO<br>(mg/l) | Notes   |
|---------|------------|-----------------|-------------|--|---------------------|---------------|-------------|-------------|-------------|-------------|----------------|---------------|-------------------|----------------|----------------|---------------|----------------|-------------------|--------------|---------|
| MW-9    | 12/16/2010 | 163.77          | 6.63        | --                                     | 157.14              | 330           | 18          | <0.50       | 11          | 38          | 390            | <0.50         | <0.50             | <0.50          | <0.50          | <0.50         | 4.10           | <300              | 0.57         | j       |
|         | 2/14/2011  | 163.77          | 6.85        | --                                     | 156.92              | <50           | <4.0        | <4.0        | <4.0        | <4.0        | 270            | <80           | <4.0              | <4.0           | <4.0           | <4.0          | <4.0           | <2,400            | 0.98         |         |
|         | 5/20/2011  | 163.77          | 6.39        | --                                     | 157.38              | 66            | <4.0        | <4.0        | <4.0        | <4.0        | 280            | <80           | <4.0              | <4.0           | <4.0           | <4.0          | <4.0           | <2,400            | 1.64         | i (GRO) |
|         | 8/15/2011  | 163.77          | 7.09        | --                                     | 156.88              | <50           | <2.0        | <2.0        | <2.0        | <2.0        | 120            | <40           | <2.0              | <2.0           | <2.0           | <2.0          | <2.0           | <1,200            | 0.88         |         |
|         | 2/2/2012   | 163.77          | 7.18        | --                                     | 156.59              | <50           | <0.50       | <0.50       | <0.50       | <0.50       | 34             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <300              | 0.65         |         |
|         | 9/8/2012   | 163.77          | 5.68        | --                                     | 158.09              | 82            | 1.9         | <0.50       | <0.50       | <1.0        | 19             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <150              | 1.61         |         |
|         | 2/14/2013  | 163.77          | 5.27        | --                                     | 158.50              | 250           | 5.2         | <0.50       | <0.50       | <1.0        | 25             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <150              | 1.23         |         |
|         | 8/22/2013  | 163.77          | 7.46        | --                                     | 156.31              | 290           | 0.71        | <0.50       | <0.50       | <1.0        | 31             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | 0.55           | <150              | 4.71         |         |
|         | 11/2/2014  | 163.77          | 7.07        | --                                     | 156.70              | 250           | <0.50       | <0.50       | <0.50       | <1.0        | 39             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <150              | 1.12         |         |
|         | 8/15/2014  | 163.77          | 8.27        | --                                     | 155.50              | 180           | <0.50       | <0.50       | <0.50       | <1.0        | 68             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | 0.67           | <150              | 0.10         |         |
|         | 12/2/2015  | 163.77          | 6.63        | --                                     | 157.74              | <50           | <0.50       | <0.50       | <0.50       | <1.0        | 90             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <150              | 0.61         |         |
|         | 8/31/2015  | 163.77          | 8.50        | --                                     | 155.27              | <50           | <0.50       | <0.50       | <0.50       | <1.0        | 62             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <150              | 0.78         |         |
|         | 3/17/2016  | 163.77          | 4.82        | --                                     | 158.95              | 76            | 0.87        | <0.50       | <0.50       | <1.0        | 18             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <150              | 0.00         |         |
|         | 9/9/2016   | 163.77          | 8.94        | --                                     | 154.83              | <50           | <0.50       | <0.50       | <0.50       | <1.0        | 79             | <20           | <0.50             | <0.50          | <0.50          | <0.50         | 0.61           | <500              | --           |         |
|         | 3/14/2017  | 163.77          | 4.88        | --                                     | 158.79              | 190           | 9.7         | <0.50       | 0.88        | <1.0        | 23             | <20           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <500              | 0.56         |         |
|         | 9/20/2017  | 163.77          | 8.10        | --                                     | 155.67              | <50           | <0.50       | <0.50       | <0.50       | <1.0        | 84             | 17 ID         | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <150              | 0.21         |         |
|         | 1/19/2018  | 163.77          | 6.79        | --                                     | 156.98              | <50           | <0.50       | <0.50       | <0.50       | <1.0        | 61             | <10           | <0.50             | <0.50          | <0.50          | <0.50         | <0.50          | <150              | 0.09         |         |

**Notes:**  
 TOC = top of casing measured  
 DTW = depth to water  
 LNAPL = light non-aqueous phase liquid  
 GW Elev = groundwater elevation  
 GRO = gasoline range organics  
 B = benzene  
 T = toluene  
 E = ethylbenzene  
 X = total xylenes  
 MTBE = methyl tert-butyl ether  
 TBA = tert-butyl alcohol  
 1,2-DCA = 1,2-dichloroethane  
 DIPE = diisopropyl ether  
 ETBE = ethyl tert-butyl ether  
 EDB = 1,2-dibromoethane  
 TAME= tert-Amyl methyl ether  
 DO = dissolved oxygen

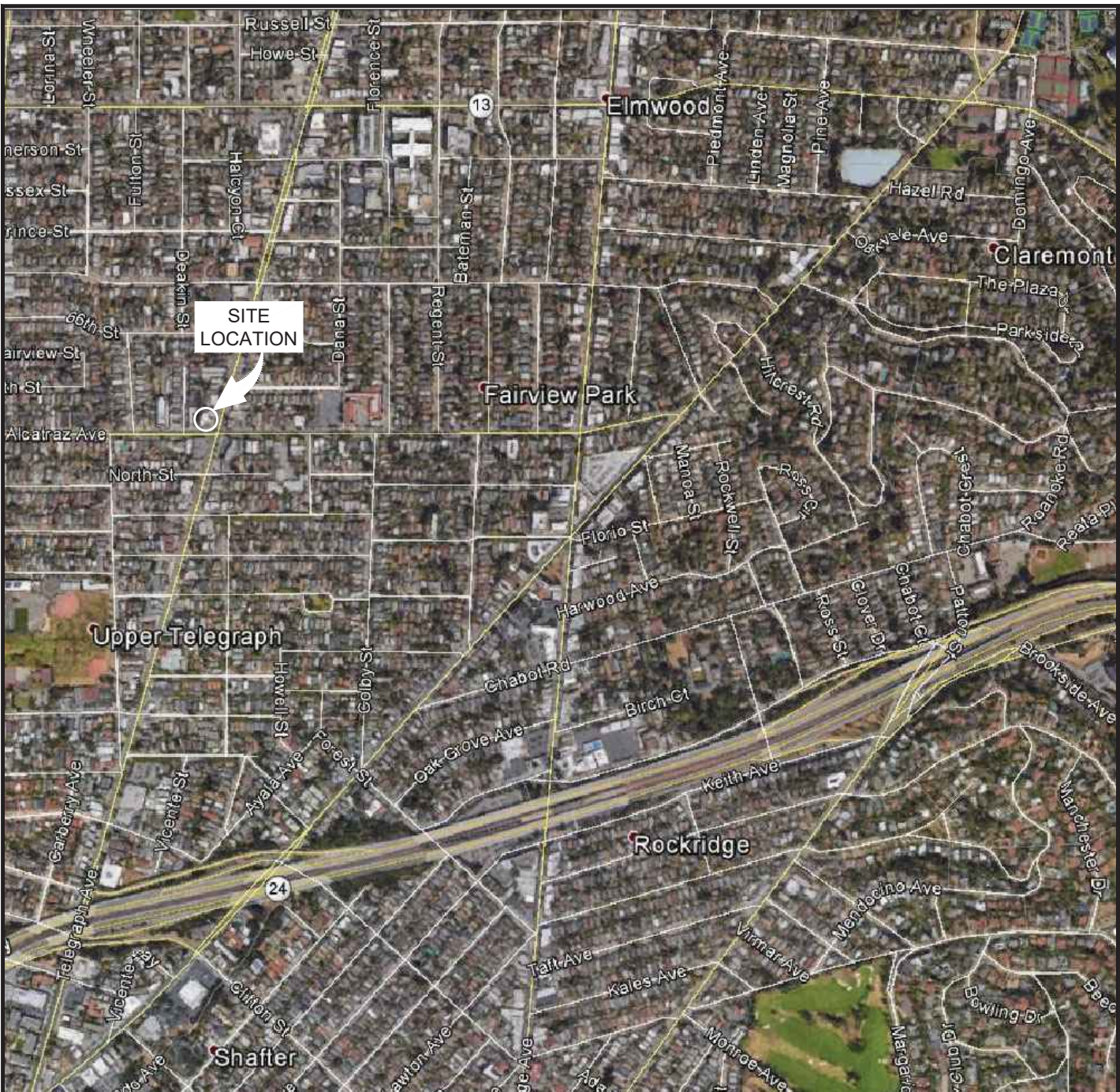
ft msl = feet above mean sea level  
 -- = not analyzed/applicable/measured/available  
 < = not detected at or above specified laboratory reporting limit  
 mg/L = milligrams per liter  
 µg/L = micrograms per liter  
 Values for DO were obtained through field measurements  
 ID= Analyte identified by RT & presence of single mass ion

a = Chromatogram pattern: Gasoline C6-C10 for GRO/TPH-goxygenates  
 b = Beginning this quarter, groundwater samples were analyzed by EPA method 8260B for TPHg, BTEX, and fuel  
 c = Wells gauged with ORC sock in well  
 d = Well inaccessible  
 e = The hydrocarbon result for GRO was partly due to individual peaks in the quantitative range  
 f = Well resurveyed on 1/27/2004 to NAVD88  
 g = Upon review of survey data (1/27/2004), TOC elevation for MW-4 is actually 162.47 ft.  
 h = Upon review of survey data (1/27/2004), MW-5 was not surveyed from the TOC. MW-5 was surveyed from the pavement due to inaccessibility to the TOC. Therefore, survey data for MW-5 from the TOC is unavailable. Historic data prior to 5/30/2006 (change in consultant) not modified  
 i = Quantitation of unknown hydrocarbon(s) in sample based on gasoline  
 j = Surveyed 12/8/2010  
 k = Grab groundwater sample  
 l = Quantitated against gasoline  
 a2 = The continuing calibration verification for ethanol was outside of client contractual limits, however, it was within method acceptance limits. The data should still be useful for its intended purpose

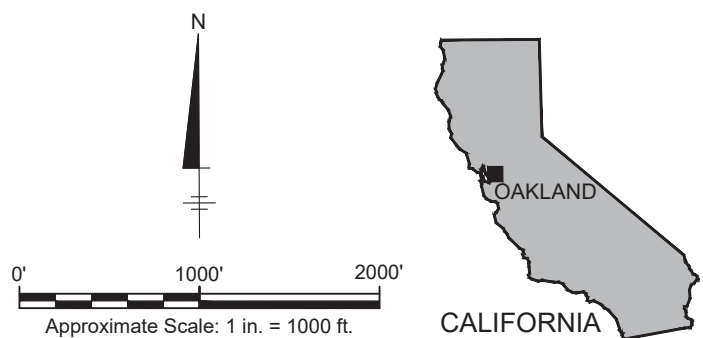


# FIGURES





MAP SOURCE: Google Earth 2016, 37°50'50.91"N, 122°15'21.28"W





FORMER BP SERVICE STATION NO. 0374  
 6407 TELEGRAPH AVENUE  
 OAKLAND, CALIFORNIA

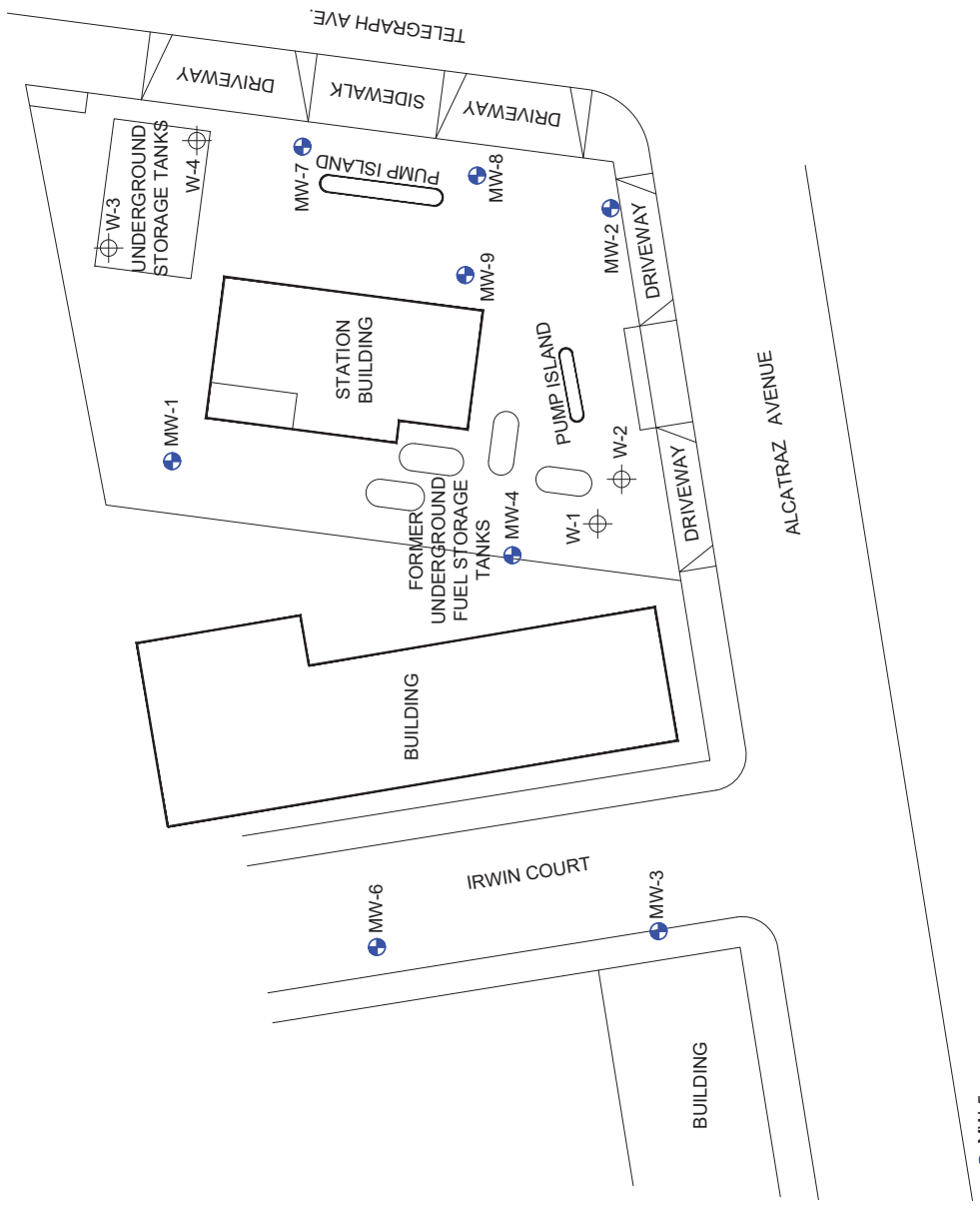
### SITE LOCATION MAP

**ARCADIS** Design & Consultancy  
for natural and  
built assets



**LEGEND:**

-  MONITORING WELL LOCATION
-  TANK PIT MONITORING WELL LOCATION



**NOTES:**

- 1) SITE MAP ADAPTED FROM IT CORPORATION FIGURES.
- 2) SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



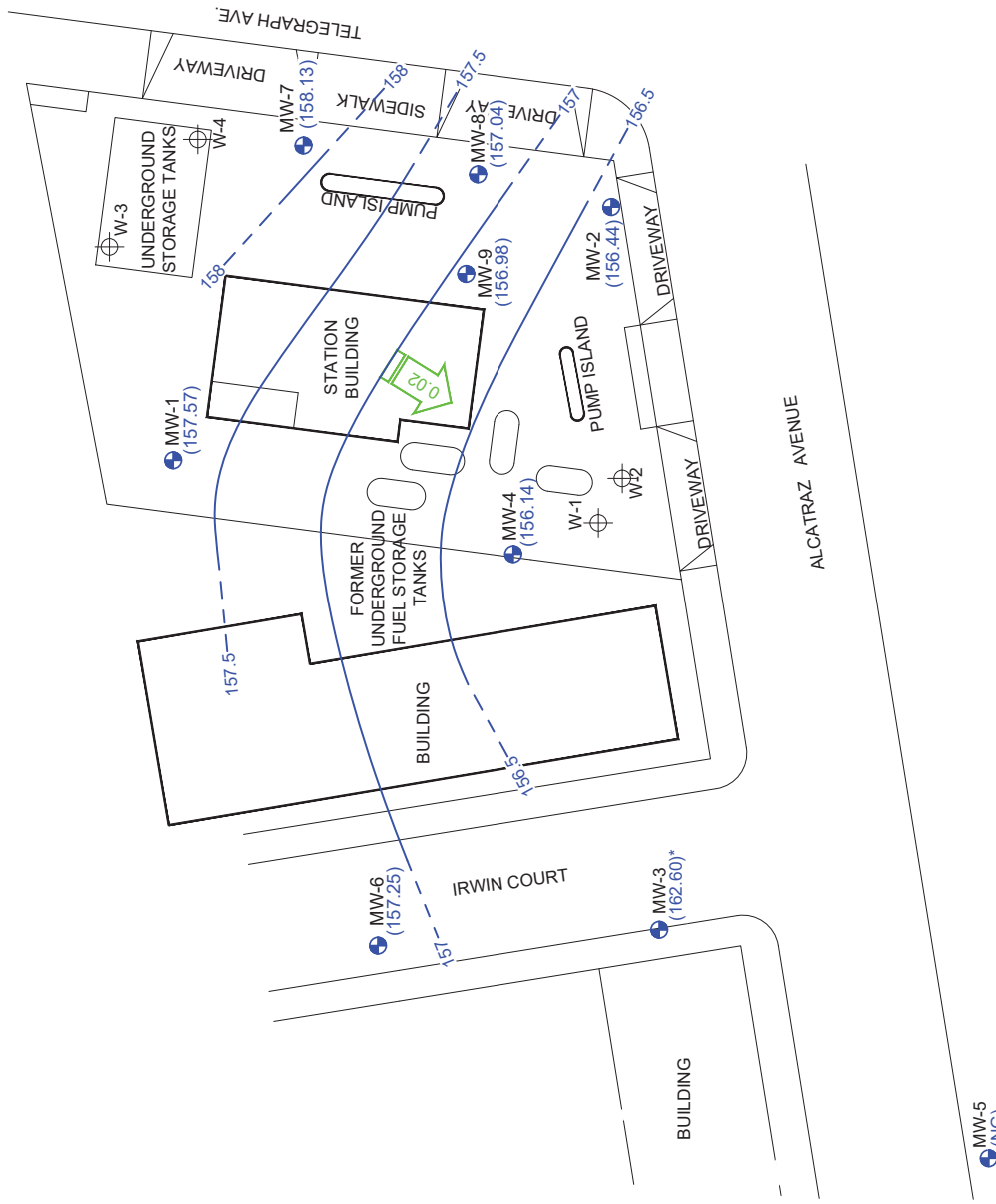
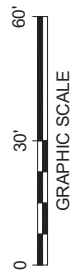
|   |
|---|
| FORMER BP SERVICE STATION NO. 0374<br>6407 TELEGRAPH AVENUE<br>OAKLAND, CALIFORNIA  |
| <b>SITE PLAN</b>  |
|  |
| FIGURE <b>2</b>   |

**LEGEND:**

- MONITORING WELL LOCATION
- ⊕ TANK PIT MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (FEET ABOVE SITE DATUM; DASHED WHERE INFERRED)
- ↑ GROUNDWATER GRADIENT (FT/FT)
- \* WELL NOT USED IN CONTOURING
- (158.13) GROUNDWATER ELEVATION (FEET RELATIVE TO DATUM)
- (NG) NOT GAUGED

**NOTES:**

- 1) SITE MAP ADAPTED FROM ITC CORPORATION FIGURES.
- 2) SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
- 3) GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON JANUARY 19, 2018.



FORMER BP SERVICE STATION NO. 0374  
6407 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

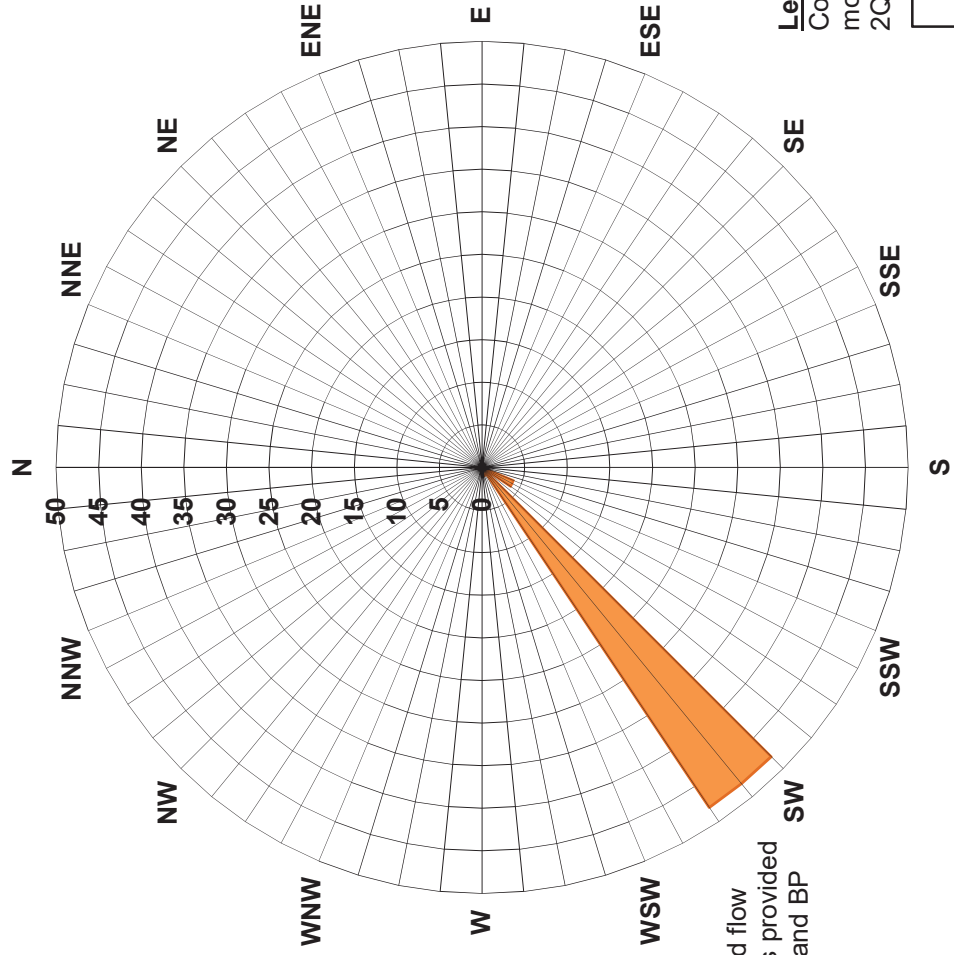
**GROUNDWATER ELEVATION  
CONTOUR MAP  
JANUARY 19, 2018**

ARCADIS

FIGURE 3

**Figure 4**  
**GROUNDWATER FLOW DIRECTION ROSE DIAGRAM**

CA BP-0374  
 6407 Telegraph Avenue  
 Oakland, California 94619



**Note**  
 Historic groundwater gradient and flow direction data, prior to 3Q16, was provided by Broadbent & Associates, Inc. and BP West Coast Products, LLC.

**Legend**  
 Concentric circles represent 53 monitoring events beginning 2Q00 through 1Q18.

Groundwater Flow Direction

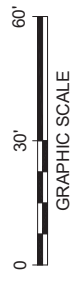
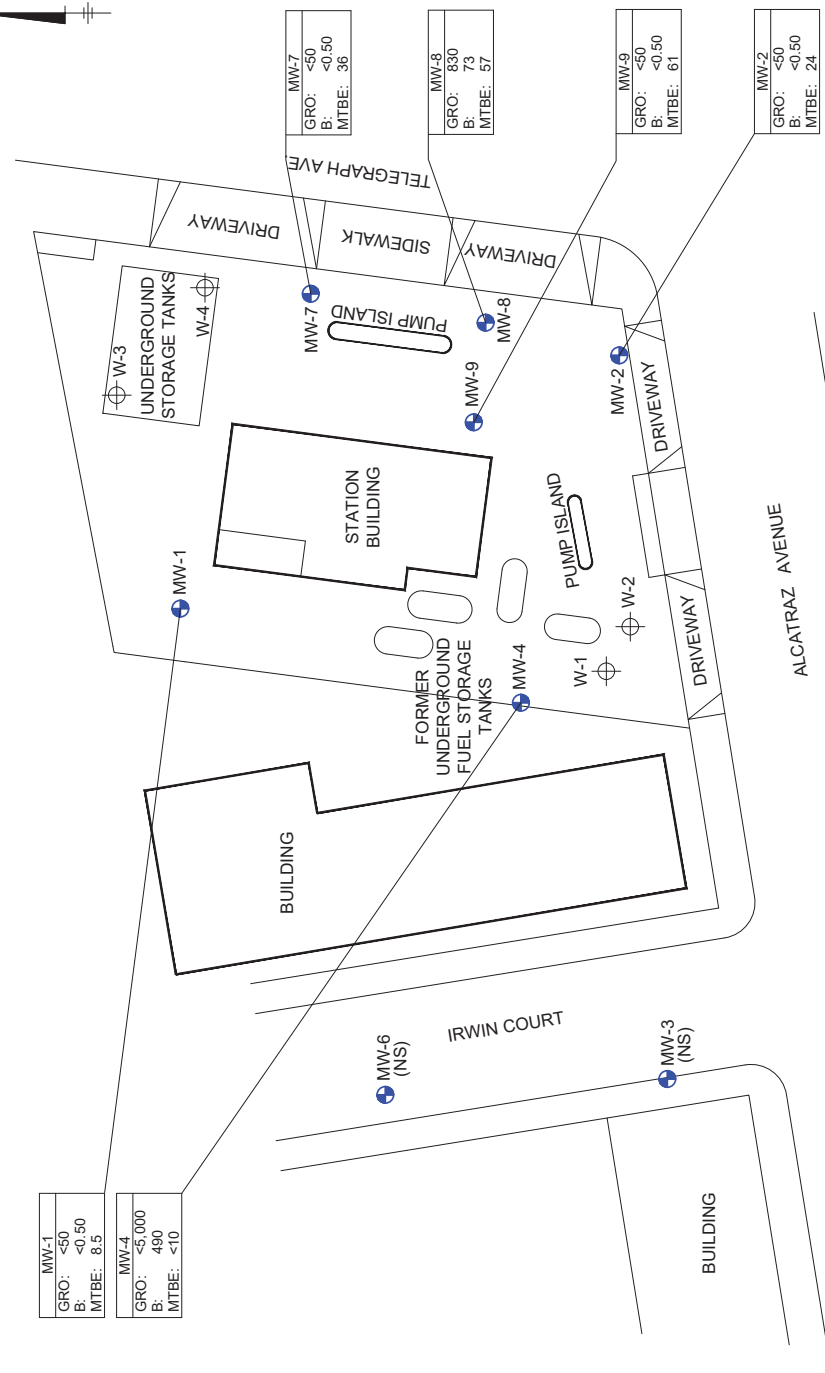
**LEGEND:**

- MONITORING WELL LOCATION
- TANK PIT MONITORING WELL LOCATION
- < LESS THAN LABORATORY REPORTING LIMIT
- (NS) NOT SAMPLED

| MW-8     | SAMPLE LOCATION ID            |
|----------|-------------------------------|
| GRO: 830 | CONCENTRATIONS (ug/L)         |
| B: 73    | GRO: GASOLINE RANGE ORGANICS  |
| MTBE: 57 | B: BENZENE                    |
|          | MTBE: METHYL TERT BUTYL ETHER |

**NOTES:**

- SITE MAP ADAPTED FROM IT CORPORATION FIGURES.
- SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
- GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON JANUARY 19, 2018.

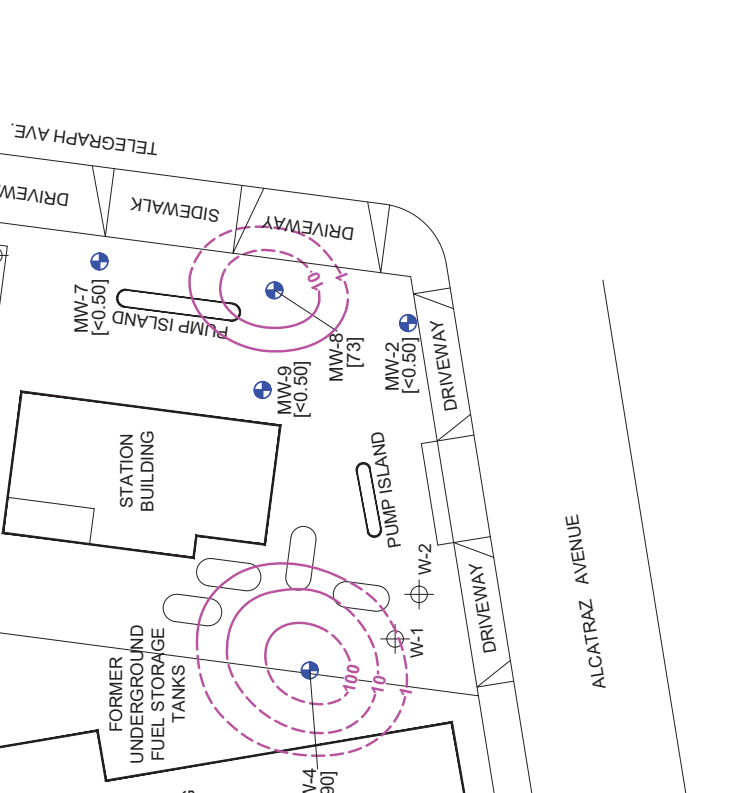


FORMER BP SERVICE STATION NO. 0374  
 6407 TELEGRAPH AVENUE  
 OAKLAND, CALIFORNIA

**GROUNDWATER ANALYSIS  
 CONCENTRATION MAP  
 JANUARY 19, 2018**



|  |                                      |                      |
|--|--------------------------------------|----------------------|
| <p><b>LEGEND:</b></p> <p>⊕ MONITORING WELL LOCATION</p> <p>⊕ TANK PIT MONITORING WELL LOCATION</p> <p>[490] BENZENE CONCENTRATION (μg/L)</p> <p>100 --- BENZENE CONCENTRATION (μg/L) CONTOUR (μg/L; DASHED WHERE INFERRED)</p> <p>&lt; LESS THAN LABORATORY REPORTING LIMIT</p> <p>[NS] NOT SAMPLED</p> <p><b>NOTES:</b></p> <p>1) SITE MAP ADAPTED FROM IT CORPORATION FIGURES.</p> <p>2) SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.</p> <p>3) GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON JANUARY 19, 2018.</p> | <p style="text-align: center;">N</p> | <p>GRAPHIC SCALE</p> |
|--|--------------------------------------|----------------------|



FORMER BP SERVICE STATION NO. 0374  
6407 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

**BENZENE CONCENTRATION MAP  
JANUARY 19, 2018**







**ARCADIS**

FIGURE  
**7**



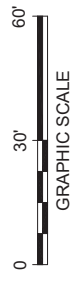
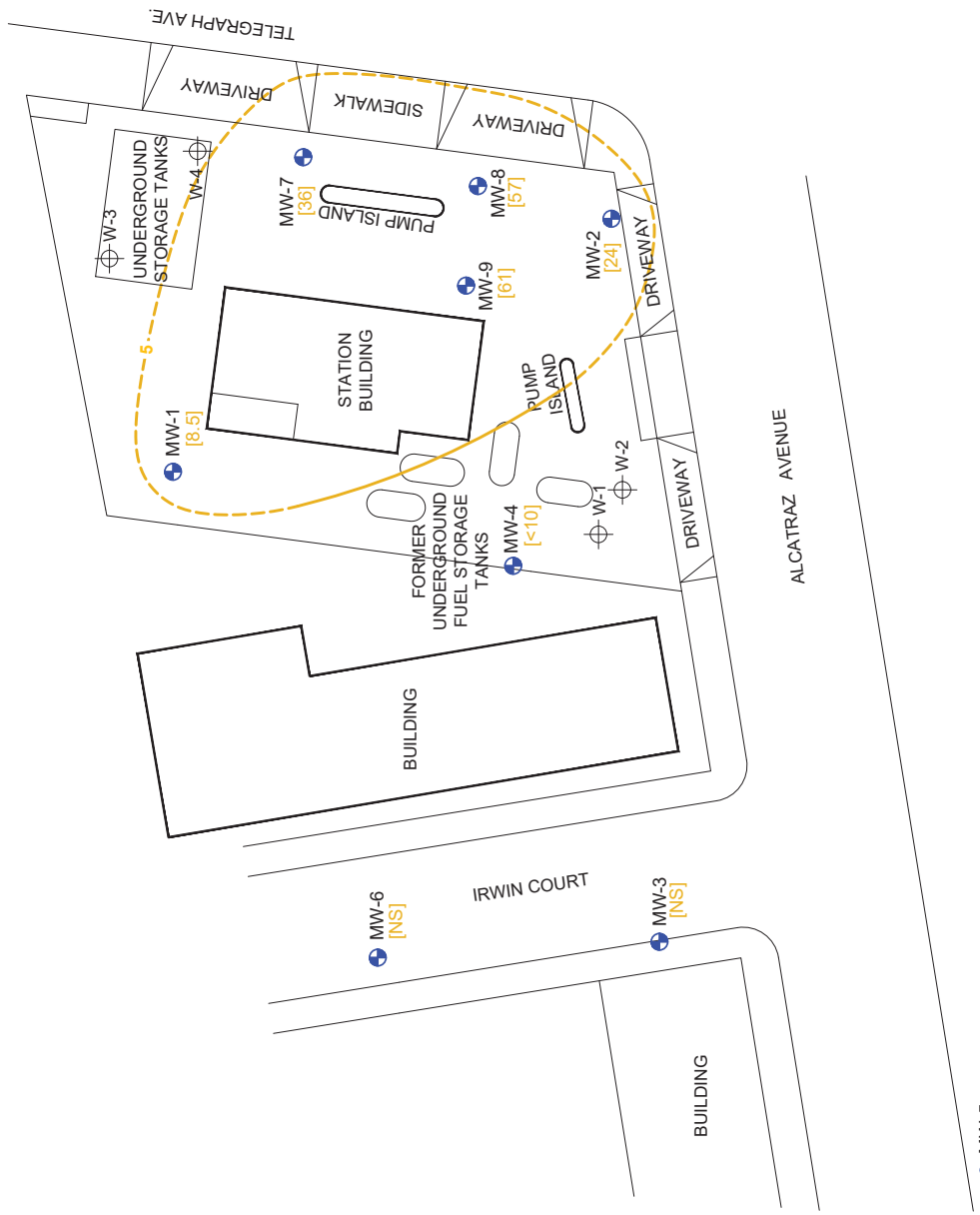


**LEGEND:**

-  MONITORING WELL LOCATION
-  TANK PIT MONITORING WELL LOCATION
-  [61] MTBE CONCENTRATION (µg/L)
-  5--- MTBE CONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
-  < LESS THAN LABORATORY REPORTING LIMIT
-  [NS] NOT SAMPLED

**NOTES:**

- 1) SITE MAP ADAPTED FROM IT CORPORATION FIGURES.
- 2) SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
- 3) GROUNDWATER MONITORING WELLS GAUGED AND SAMPLED ON JANUARY 19, 2018.



|  |
|--|
| FORMER BP SERVICE STATION NO. 0374<br>6407 TELEGRAPH AVENUE<br>OAKLAND, CALIFORNIA                 |
| <b>MTBE CONCENTRATION MAP</b><br>JANUARY 19, 2018  |
|  <b>ARCADIS</b> |

# ATTACHMENT 1

## Groundwater Monitoring Field Forms



**ARCADIS**  
**Water-Level Measurement Form**

Project No: GP16BPNA.CA01.40000  
 Location: Oakland, CA

Date: 1/19/18  
 Recorded By: Jan Weninger

| Well Number | Time | Static Depth to Water (ft btoc) | Depth to Free Product (ft btoc) | Duplicate Reading (ft btoc) | Total Depth (ft btoc) | Comments  |
|-------------|------|---------------------------------|---------------------------------|-----------------------------|-----------------------|---|
| MW-1        | 0747 | 6.88                            | —                               |                             | 26.58                 | 4" / tubing in well   |
| MW-2        | 0758 | 7.05                            | —                               |                             | 26.12                 | 4" / tubing in well   |
| MW-3        | 0800 | 4.20                            | —                               |                             | 26.61                 | 4" / on sidewalk close to stop sign   |
| MW-4        | 0804 | 6.34                            |                                 |                             | 26.90                 | 4" / well located in a steel box on the planter in front of 533 Alcatraz Ave. Car over well |
| MW-5        | —    | —                               | —                               | —                           | —                     |   |
| MW-6        | 0801 | 2.16                            | —                               |                             | 14.66                 | 4" / well cap was next to well casing   |
| MW-7        | 0752 | 6.67                            | —                               |                             | 19.73                 | 4" / tubing in well   |
| MW-8        | 0754 | 7.10                            | —                               |                             | 19.27                 | 4" / strong odor tubing in well   |
| MW-9        | 0756 | 6.79                            | —                               |                             | 19.35                 | 4" / tubing in well   |
|             |      |                                 |                                 |                             |                       |   |
|             |      |                                 |                                 |                             |                       |   |
|             |      |                                 |                                 |                             |                       |   |
|             |      |                                 |                                 |                             |                       |   |

ft btoc Feet below top of casing.

GROUNDWATER SAMPLING LOG

Page 1 of     

Project No.: GPI6BPNA-CA01-40000 Well ID: MW-1 Date: 1/19/18

Project Name / Location: BP 0374 1Q GW SAMPLING / 6407 Telegraph Ave. Weather: sunny / 50°s

Casing Diameter: 4 Well Material: PVC

Total Depth: 26.58' Static Water Level: 6.89 Depth to Product: -  
(ft-btoc) (ft-btoc) (ft-btoc)

Water Column: 19.69 Calculated Volume to be purged:      Actual Volume Purged: 2000 ML  
Gallons in Well: 12.80

Well Casing Volumes:

|              |              |             |             |                  |           |
|--------------|--------------|-------------|-------------|------------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50      | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | <u>4" = 0.65</u> |           |

Purge Method: peri pump Pump on/off: 0836 / 0900

Sample Method: Low flow

| Time | Minutes Elapsed | Rate (gpm) (mL/min) | Depth to Water (ft) | pH   | Cond (mMhos) (mS/cm) | Turbidity (NTU) | DO (mg/L) | Temp (°C) (°F) | ORP (mV) | Color | Odor | Sheen |
|------|-----------------|---------------------|---------------------|------|----------------------|-----------------|-----------|----------------|----------|-------|------|-------|
| 0836 | start           | -                   | 6.95                | -    | -                    | -               | -         | -              | -        | -     | -    | -     |
| 0839 | 3               | 300                 | 7.00                | 7.04 | 932                  | 7.16            | 0.37      | 15.0           | 24.7     | clear | none | none  |
| 0842 | 6               | 600                 | 7.04                | 6.90 | 918                  | 3.62            | 0.35      | 15.3           | 20.8     | "     | "    | "     |
| 0845 | 9               | 900                 | 7.09                | 6.81 | 912                  | 5.22            | 0.30      | 15.5           | 12.7     | "     | "    | "     |
| 0848 | 12              | 1200                | 7.15                | 6.76 | 908                  | 2.49            | 0.28      | 15.7           | 7.1      | "     | "    | "     |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
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|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |

Stablization Parameters: ±0.1 3% 10% 10% 3% ±10 mV

Time sample collected at: 0850

Container: vial # of containers: 6 Preservative: HCl

Condition of Well: good

Tubing Left in well: yes / peri pump tubing Size of tubing: 1/4"

Other issues:     

Sampled by: APB/JW

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No.: GP16 BPNA CA07.00000 Well ID: MW-2 Date: 1/19/18  
 Project Name / Location: BP#0374 10 groundwater sampling/6407 Telenograph Ave. Weather: sunny ~60°F  
 Casing Diameter: 4" Well Material: PVC  
 Total Depth: 26.12 Static Water Level: 7.05 Depth to Product: \_\_\_\_\_  
 (ft-btoc) (ft-btoc) (ft-btoc)

Water Column: 19.07 ft Calculated Volume to be purged: \_\_\_\_\_ Actual Volume Purged: 3100 ml  
 Gallons in Well: 12.40

Well Casing Volumes:

|              |              |             |             |                  |           |
|--------------|--------------|-------------|-------------|------------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50      | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | <b>4" = 0.65</b> |           |

Purge Method: Peri Pump Pump on/off: 1050/1109  
 Sample Method: Slow flow

| Time | Minutes Elapsed | Rate (gpm) (mL/min) | Depth to Water (ft) | pH   | Cond (mMhos) (mS/cm) | Turbidity (NTU) | DO (mg/L) | Temp (°C) (°F) | ORP (mV) | Color | Odor | Sheen |
|------|-----------------|---------------------|---------------------|------|----------------------|-----------------|-----------|----------------|----------|-------|------|-------|
| 1050 | start           | -                   | 7.07                | -    | -                    | -               | -         | -              | -        | -     | -    | -     |
| 1053 | 3               | 180                 | 7.12                | 6.88 | 595                  | 2.17            | 0.16      | 20.7           | 33.5     | clear | mild | -     |
| 1056 | 6               | 180                 | 7.18                | 6.84 | 598                  | 2.73            | 0.13      | 20.8           | 28.5     | clear | mild | -     |
| 1059 | 9               | 180                 | 7.21                | 6.80 | 596                  | 3.56            | 0.11      | 20.9           | 22.9     | clear | mild | -     |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
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|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |

Stabilization Parameters: ±0.1 3% 10% 10% 3% ±10 mV

Time sample collected at: 1104  
 Container: vial # of containers: 6 Preservative: HCL

Condition of Well: good  
 Tubing Left in well: Yes Size of tubing: 1/4" (peri pump)

Other issues: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Sampled by: AMB JW

GROUNDWATER SAMPLING LOG

Project No.: EP16BPNA-01A01-4000 Well ID: MW-4 Date: 1/19/18 Page 1 of 1  
 Project Name / Location: BP0374 1Q GW SAMPLING / 6407 Telegraph Ave Weather: partly cloudy 65°F  
 Casing Diameter: 4 Well Material: PVC  
 Total Depth: 26.90 Static Water Level: 6.48 Depth to Product: —  
 (ft-btoc) (ft-btoc) (ft-btoc)  
 Water Column: 20.42 ft Calculated Volume to be purged: — Actual Volume Purged: 3,700 ml  
 Gallons in Well: 13.27

Well Casing Volumes:

|              |              |             |             |                  |           |
|--------------|--------------|-------------|-------------|------------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50      | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | <u>4" = 0.65</u> |           |

Purge Method: Peri pump Pump on/off: 1206/1227  
 Sample Method: Low flow

| Time | Minutes Elapsed | Rate (gpm) (mL/min) | Depth to Water (ft) | pH   | Cond (mMhos) (mS/cm) | Turbidity (NTU) | DO (mg/L) | Temp (°C) (°F) | ORP (mV) | Color | Odor     | Sheen |
|------|-----------------|---------------------|---------------------|------|----------------------|-----------------|-----------|----------------|----------|-------|----------|-------|
| 1207 | 0               | —                   | 6.48                | —    | —                    | —               | —         | —              | —        | —     | —        | —     |
| 1210 | 3               | 190                 | 6.56                | 6.73 | 888                  | 16.3            | 0.22      | 17.9           | -84.4    | clear | moderate | —     |
| 1213 | 6               | 190                 | 6.66                | 6.71 | 885                  | 13.4            | 0.15      | 17.8           | -94.5    | clear | "        | —     |
| 1216 | 9               | 190                 | 6.80                | 6.71 | 883                  | 14.2            | 0.11      | 17.9           | -106.2   | clear | "        | —     |
| 1219 | 12              | 190                 | 6.90                | 6.72 | 883                  | 14.1            | 0.10      | 18.1           | -115.8   | clear | "        | —     |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |          |       |
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|      |                 |                     |                     |      |                      |                 |           |                |          |       |          |       |

Stabilization Parameters: ±0.1 3% 10% 10% 3% ±10 mV

Time sample collected at: 1220  
 Container: vial # of containers: 6 Preservative: HCL

Condition of Well: good. Well is inside a steel box on planter.  
 Tubing Left in well: Yes Size of tubing: 1/4" (Peri pump)  
 Other issues: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Sampled by: AMP JW

GROUNDWATER SAMPLING LOG

Project No.: GR16BPNA-CA01-40000 Well ID: MW-7 Date: 1/19/18 Page 1 of     

Project Name / Location: BP 0374 1R GW SAMPLING / 6407 Telegraph Ave. Oakland Weather: sunny / 50's

Casing Diameter: 4" Well Material: PVC

Total Depth: 19.73 (ft-btoc) Static Water Level: 0.96 (ft-btoc) Depth to Product: - (ft-btoc)

Water Column: 12.77 ft Calculated Volume to be purged:      Actual Volume Purged: 2500 ML

Gallons in Well: 8.30

Well Casing Volumes:

Gallons/Foot      1" = 0.04      1.5" = 0.09      2.5" = 0.26      3.5" = 0.50      6" = 1.47

                         1.25" = 0.06      2" = 0.16      3" = 0.37      4" = 0.66

Purge Method: Peri pump Pump on/off: 0924/0947

Sample Method: Low flow

| Time | Minutes Elapsed | Rate (gpm) (mL/min) | Depth to Water (ft) | pH   | Cond (mMhos) (mS/cm) | Turbidity (NTU) | DO (mg/L) | Temp (°C) (°F) | ORP (mV) | Color | Odor | Sheen |
|------|-----------------|---------------------|---------------------|------|----------------------|-----------------|-----------|----------------|----------|-------|------|-------|
| 0924 | start           | -                   | 7.00                | -    | -                    | -               | -         | -              | -        | -     | -    | -     |
| 0927 | 3               | ~450                | 7.08                | 7.07 | 795                  | 4.52            | 0.26      | 17.3           | -9.3     | clear | none | none  |
| 0930 | 6               | ~900                | 7.10                | 6.99 | 806                  | 1.14            | 0.15      | 18.5           | -10.0    | "     | "    | "     |
| 0933 | 9               | ~1350               | 7.15                | 6.94 | 812                  | 1.30            | 0.13      | 18.5           | -10.0    | "     | "    | "     |
| 0936 | 12              | 1800                | 7.18                | 6.92 | 811                  | 0.88            | 0.12      | 18.4           | -10.5    | "     | "    | "     |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
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|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |

Stablization Parameters:      ±0.1      3%      10%      10%      3%      ±10 mV

Time sample collected at: 0940

Container: vial # of containers: 6 Preservative: HCl

Condition of Well: good

Tubing Left in well: yes Size of tubing: 1/4" peripump tubing

Other issues: \_\_\_\_\_

Sampled by: ARB / JW

GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No.: GP16BPNA.CA01.40000 Well ID: MW-P Date: 1/19/18  
 Project Name / Location: BP0374 1Q GW Sampling / 6407 Tolo-graph Ave. Weather: Sunny - 55°F  
 Casing Diameter: 4" Well Material: PVC  
 Total Depth: 19.27 (ft-btoc) Static Water Level: 7.25 (ft-btoc) Depth to Product: — (ft-btoc)  
 Water Column: 12.02 Gallons in Well: 7.81 Calculated Volume to be purged: — Actual Volume Purged: 3000ML

Well Casing Volumes:

|              |              |             |             |                  |           |
|--------------|--------------|-------------|-------------|------------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50      | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | <u>4" = 0.65</u> |           |

Purge Method: Peri Pump Pump on/off: 1009 / 1028  
 Sample Method: Low flow

| Time | Minutes Elapsed | Rate (gpm) (mL/min) | Depth to Water (ft) | pH   | Cond (mMhos) (mS/cm) | Turbidity (NTU) | DO (mg/L) | Temp (°C) (°F) | ORP (mV) | Color | Odor | Sheen |
|------|-----------------|---------------------|---------------------|------|----------------------|-----------------|-----------|----------------|----------|-------|------|-------|
| 1009 | start           | —                   | 7.26                | —    | —                    | —               | —         | —              | —        | —     | —    | —     |
| 1012 | 3               | 200                 | 7.30                | 6.70 | 529.5                | 10.1            | 0.33      | 19.9           | 4.3      | clear | yes  | —     |
| 1015 | 6               | 200                 | 7.34                | 6.68 | 540.7                | 8.50            | 0.24      | 20.6           | 2.2      | clear | yes  | —     |
| 1018 | 9               | 200                 | 7.38                | 6.63 | 540.0                | 6.56            | 0.21      | 20.7           | 0.4      | "     | yes  | —     |
| 1021 | 12              | 200                 | 7.43                | 6.62 | 540.7                | 6.44            | 0.21      | 20.7           | 0.9      | "     | yes  | —     |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
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|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |

Stabilization Parameters: ±0.1    3%    10%    10%    3%    ±10 mV

Time sample collected at: 1025  
 Container: vial # of containers: 6 Preservative: HCL

Condition of Well: good.  
 Tubing Left in well: yes Size of tubing: 1/4" (peri pump)

Other issues: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Sampled by: JW / AMB



GROUNDWATER SAMPLING LOG

Page 1 of 1

Project No.: GP16 BP NA CA01.40000 Well ID: MW-9 Date: 1/19/18  
 Project Name / Location: BP# 0374 1Q groundwater sampling/6407 Weather: sunny, ~85°F  
 Casing Diameter: 4" Well Material: PVC Telegraph Ave.  
 Total Depth: 19.35 (ft-btoc) Static Water Level: 6.79 (ft-btoc) Depth to Product: — (ft-btoc)  
 Water Column: 12.56 ft Calculated Volume to be purged: — Actual Volume Purged: 3700 ml  
 Gallons in Well: 8.16

Well Casing Volumes:

|              |              |             |             |                  |           |
|--------------|--------------|-------------|-------------|------------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50      | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | <u>4" = 0.65</u> |           |

Purge Method: Peri Pump Pump on/off: 1132/1152  
 Sample Method: slow flow

| Time | Minutes Elapsed | Rate (gpm) (mL/min) | Depth to Water (ft) | pH   | Cond (mMhos) (mS/cm) | Turbidity (NTU) | DO (mg/L) | Temp (°C) (°F) | ORP (mV) | Color | Odor | Sheen |
|------|-----------------|---------------------|---------------------|------|----------------------|-----------------|-----------|----------------|----------|-------|------|-------|
| 1132 | 0               | —                   | 6.79                | —    | —                    | —               | —         | —              | —        | —     | —    | —     |
| 1135 | 3               | 170                 | 6.88                | 6.69 | 627                  | 7.58            | 0.12      | 20.2           | 28.4     | clear | —    | —     |
| 1138 | 6               | 170                 | 6.95                | 6.61 | 627                  | 2.08            | 0.13      | 20.5           | 27.5     | clear | —    | —     |
| 1141 | 9               | 170                 | 7.00                | 6.58 | 627                  | 8.55            | 0.13      | 20.5           | 25.0     | clear | —    | —     |
| 1144 | 12              | 170                 | 7.05                | 6.58 | 626                  | 7.53            | 0.09      | 20.6           | 22.0     | clear | —    | —     |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
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|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
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|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |
|      |                 |                     |                     |      |                      |                 |           |                |          |       |      |       |

Stabilization Parameters: ±0.1    3%    10%    10%    3%    ±10 mV

Time sample collected at: 1146  
 Container: vial # of containers: 6 Preservative: HCL  
 Condition of Well: good  
 Tubing Left in well: Yes Size of tubing: 1/4" (peri pump)  
 Other issues: \_\_\_\_\_

Sampled by: JW AKB

# ATTACHMENT 2

## Groundwater Analytical Laboratory Report



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-201565-1

Client Project/Site: ARCO 0374, Oakland

For:

ARCADIS U.S. Inc

101 Creekside Ridge Court

2nd Floor

Roseville, California 95678

Attn: Melanie Wong



Authorized for release by:

1/30/2018 9:40:10 AM

Kathleen Robb, Project Manager II

(949)261-1022

[kathleen.robbs@testamericainc.com](mailto:kathleen.robbs@testamericainc.com)

### LINKS

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[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 440-201565-1  | MW-1             | Water  | 01/19/18 08:50 | 01/20/18 11:10 |
| 440-201565-2  | MW-2             | Water  | 01/19/18 11:04 | 01/20/18 11:10 |
| 440-201565-3  | MW-4             | Water  | 01/19/18 12:20 | 01/20/18 11:10 |
| 440-201565-4  | MW-7             | Water  | 01/19/18 09:40 | 01/20/18 11:10 |
| 440-201565-5  | MW-8             | Water  | 01/19/18 10:25 | 01/20/18 11:10 |
| 440-201565-6  | MW-9             | Water  | 01/19/18 11:46 | 01/20/18 11:10 |

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# Case Narrative

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

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## Job ID: 440-201565-1

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### Laboratory: TestAmerica Irvine

#### Narrative

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#### Job Narrative 440-201565-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 1/20/2018 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

#### Receipt Exceptions

The following sample was received at the laboratory without a sample collection date and time documented on the chain of custody: Trip Blank (440-201565-7). The sampling date and default time of 00:01 were used for login.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC VOA

Method(s) 8015B: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH of 7 was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-9 (440-201565-6). The sample was analyzed within 7 days per EPA recommendation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

**Client Sample ID: MW-1**  
**Date Collected: 01/19/18 08:50**  
**Date Received: 01/20/18 11:10**

**Lab Sample ID: 440-201565-1**  
**Matrix: Water**

**Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)**

| Analyte                            | Result     | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------------|------------|-----------|----------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane (EDB)            | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| 1,2-Dichloroethane                 | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| Benzene                            | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| Ethanol                            | ND         |           | 150      | ug/L |   |          | 01/23/18 01:08 | 1       |
| Ethylbenzene                       | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| Ethyl-t-butyl ether (ETBE)         | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| Isopropyl Ether (DIPE)             | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| m,p-Xylene                         | ND         |           | 1.0      | ug/L |   |          | 01/23/18 01:08 | 1       |
| <b>Methyl-t-Butyl Ether (MTBE)</b> | <b>8.5</b> |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| o-Xylene                           | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| Tert-amyl-methyl ether (TAME)      | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| tert-Butyl alcohol (TBA)           | ND         |           | 10       | ug/L |   |          | 01/23/18 01:08 | 1       |
| Toluene                            | ND         |           | 0.50     | ug/L |   |          | 01/23/18 01:08 | 1       |
| Xylenes, Total                     | ND         |           | 1.0      | ug/L |   |          | 01/23/18 01:08 | 1       |
| Surrogate                          | %Recovery  | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)        | 109        |           | 80 - 120 |      |   |          | 01/23/18 01:08 | 1       |
| Dibromofluoromethane (Surr)        | 98         |           | 76 - 132 |      |   |          | 01/23/18 01:08 | 1       |
| Toluene-d8 (Surr)                  | 108        |           | 80 - 128 |      |   |          | 01/23/18 01:08 | 1       |

**Method: 8015B/5030B - Gasoline Range Organics (GC)**

| Analyte                     | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| GRO (C6-C12)                | ND        |           | 50       | ug/L |   |          | 01/26/18 15:05 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 65 - 140 |      |   |          | 01/26/18 15:05 | 1       |

**Client Sample ID: MW-2**  
**Date Collected: 01/19/18 11:04**  
**Date Received: 01/20/18 11:10**

**Lab Sample ID: 440-201565-2**  
**Matrix: Water**

**Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)**

| Analyte                            | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane (EDB)            | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| 1,2-Dichloroethane                 | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| Benzene                            | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| Ethanol                            | ND        |           | 150      | ug/L |   |          | 01/23/18 01:34 | 1       |
| Ethylbenzene                       | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| Ethyl-t-butyl ether (ETBE)         | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| Isopropyl Ether (DIPE)             | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| m,p-Xylene                         | ND        |           | 1.0      | ug/L |   |          | 01/23/18 01:34 | 1       |
| <b>Methyl-t-Butyl Ether (MTBE)</b> | <b>24</b> |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| o-Xylene                           | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| Tert-amyl-methyl ether (TAME)      | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| tert-Butyl alcohol (TBA)           | ND        |           | 10       | ug/L |   |          | 01/23/18 01:34 | 1       |
| Toluene                            | ND        |           | 0.50     | ug/L |   |          | 01/23/18 01:34 | 1       |
| Xylenes, Total                     | ND        |           | 1.0      | ug/L |   |          | 01/23/18 01:34 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)        | 110       |           | 80 - 120 |      |   |          | 01/23/18 01:34 | 1       |

TestAmerica Irvine

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

**Client Sample ID: MW-2**  
**Date Collected: 01/19/18 11:04**  
**Date Received: 01/20/18 11:10**

**Lab Sample ID: 440-201565-2**  
**Matrix: Water**

**Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)**

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| Dibromofluoromethane (Surr) | 97        |           | 76 - 132 |          | 01/23/18 01:34 | 1       |
| Toluene-d8 (Surr)           | 108       |           | 80 - 128 |          | 01/23/18 01:34 | 1       |

**Method: 8015B/5030B - Gasoline Range Organics (GC)**

| Analyte      | Result | Qualifier | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|----|------|---|----------|----------------|---------|
| GRO (C6-C12) | ND     |           | 50 | ug/L |   |          | 01/26/18 16:26 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 65 - 140 |          | 01/26/18 16:26 | 1       |

**Client Sample ID: MW-4**  
**Date Collected: 01/19/18 12:20**  
**Date Received: 01/20/18 11:10**

**Lab Sample ID: 440-201565-3**  
**Matrix: Water**

**Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result     | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|------------|-----------|------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane (EDB)       | ND         |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| 1,2-Dichloroethane            | ND         |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| <b>Benzene</b>                | <b>490</b> |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| Ethanol                       | ND         |           | 3000 | ug/L |   |          | 01/23/18 02:01 | 20      |
| <b>Ethylbenzene</b>           | <b>40</b>  |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| Ethyl-t-butyl ether (ETBE)    | ND         |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| Isopropyl Ether (DIPE)        | ND         |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| <b>m,p-Xylene</b>             | <b>49</b>  |           | 20   | ug/L |   |          | 01/23/18 02:01 | 20      |
| Methyl-t-Butyl Ether (MTBE)   | ND         |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| o-Xylene                      | ND         |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| Tert-amyl-methyl ether (TAME) | ND         |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| tert-Butyl alcohol (TBA)      | ND         |           | 200  | ug/L |   |          | 01/23/18 02:01 | 20      |
| <b>Toluene</b>                | <b>40</b>  |           | 10   | ug/L |   |          | 01/23/18 02:01 | 20      |
| <b>Xylenes, Total</b>         | <b>49</b>  |           | 20   | ug/L |   |          | 01/23/18 02:01 | 20      |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 80 - 120 |          | 01/23/18 02:01 | 20      |
| Dibromofluoromethane (Surr) | 100       |           | 76 - 132 |          | 01/23/18 02:01 | 20      |
| Toluene-d8 (Surr)           | 108       |           | 80 - 128 |          | 01/23/18 02:01 | 20      |

**Method: 8015B/5030B - Gasoline Range Organics (GC)**

| Analyte      | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|------|------|---|----------|----------------|---------|
| GRO (C6-C12) | ND     |           | 5000 | ug/L |   |          | 01/26/18 17:47 | 100     |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100       |           | 65 - 140 |          | 01/26/18 17:47 | 100     |

**Client Sample ID: MW-7**  
**Date Collected: 01/19/18 09:40**  
**Date Received: 01/20/18 11:10**

**Lab Sample ID: 440-201565-4**  
**Matrix: Water**

**Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)**

| Analyte                 | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane (EDB) | ND     |           | 0.50 | ug/L |   |          | 01/23/18 02:27 | 1       |
| 1,2-Dichloroethane      | ND     |           | 0.50 | ug/L |   |          | 01/23/18 02:27 | 1       |

TestAmerica Irvine



# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

**Client Sample ID: MW-7**  
**Date Collected: 01/19/18 09:40**  
**Date Received: 01/20/18 11:10**

**Lab Sample ID: 440-201565-4**  
**Matrix: Water**

## Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                            | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                            | ND        |           | 0.50     | ug/L |   |          | 01/23/18 02:27 | 1       |
| Ethanol                            | ND        |           | 150      | ug/L |   |          | 01/23/18 02:27 | 1       |
| Ethylbenzene                       | ND        |           | 0.50     | ug/L |   |          | 01/23/18 02:27 | 1       |
| Ethyl-t-butyl ether (ETBE)         | ND        |           | 0.50     | ug/L |   |          | 01/23/18 02:27 | 1       |
| Isopropyl Ether (DIPE)             | ND        |           | 0.50     | ug/L |   |          | 01/23/18 02:27 | 1       |
| m,p-Xylene                         | ND        |           | 1.0      | ug/L |   |          | 01/23/18 02:27 | 1       |
| <b>Methyl-t-Butyl Ether (MTBE)</b> | <b>36</b> |           | 0.50     | ug/L |   |          | 01/23/18 02:27 | 1       |
| o-Xylene                           | ND        |           | 0.50     | ug/L |   |          | 01/23/18 02:27 | 1       |
| Tert-amyl-methyl ether (TAME)      | ND        |           | 0.50     | ug/L |   |          | 01/23/18 02:27 | 1       |
| tert-Butyl alcohol (TBA)           | ND        |           | 10       | ug/L |   |          | 01/23/18 02:27 | 1       |
| Toluene                            | ND        |           | 0.50     | ug/L |   |          | 01/23/18 02:27 | 1       |
| Xylenes, Total                     | ND        |           | 1.0      | ug/L |   |          | 01/23/18 02:27 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)        | 108       |           | 80 - 120 |      |   |          | 01/23/18 02:27 | 1       |
| Dibromofluoromethane (Surr)        | 99        |           | 76 - 132 |      |   |          | 01/23/18 02:27 | 1       |
| Toluene-d8 (Surr)                  | 107       |           | 80 - 128 |      |   |          | 01/23/18 02:27 | 1       |

## Method: 8015B/5030B - Gasoline Range Organics (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| GRO (C6-C12)                | ND        |           | 50       | ug/L |   |          | 01/26/18 16:53 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100       |           | 65 - 140 |      |   |          | 01/26/18 16:53 | 1       |

**Client Sample ID: MW-8**  
**Date Collected: 01/19/18 10:25**  
**Date Received: 01/20/18 11:10**

**Lab Sample ID: 440-201565-5**  
**Matrix: Water**

## Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

| Analyte                              | Result      | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|----------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane (EDB)              | ND          |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| 1,2-Dichloroethane                   | ND          |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| <b>Benzene</b>                       | <b>73</b>   |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| Ethanol                              | ND          |           | 150      | ug/L |   |          | 01/23/18 02:53 | 1       |
| <b>Ethylbenzene</b>                  | <b>3.9</b>  |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| Ethyl-t-butyl ether (ETBE)           | ND          |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| Isopropyl Ether (DIPE)               | ND          |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| m,p-Xylene                           | ND          |           | 1.0      | ug/L |   |          | 01/23/18 02:53 | 1       |
| <b>Methyl-t-Butyl Ether (MTBE)</b>   | <b>57</b>   |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| o-Xylene                             | ND          |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| <b>Tert-amyl-methyl ether (TAME)</b> | <b>0.77</b> |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| tert-Butyl alcohol (TBA)             | ND          |           | 10       | ug/L |   |          | 01/23/18 02:53 | 1       |
| Toluene                              | ND          |           | 0.50     | ug/L |   |          | 01/23/18 02:53 | 1       |
| Xylenes, Total                       | ND          |           | 1.0      | ug/L |   |          | 01/23/18 02:53 | 1       |
| Surrogate                            | %Recovery   | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 108         |           | 80 - 120 |      |   |          | 01/23/18 02:53 | 1       |
| Dibromofluoromethane (Surr)          | 97          |           | 76 - 132 |      |   |          | 01/23/18 02:53 | 1       |
| Toluene-d8 (Surr)                    | 108         |           | 80 - 128 |      |   |          | 01/23/18 02:53 | 1       |

TestAmerica Irvine

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

## Client Sample ID: MW-8

Date Collected: 01/19/18 10:25

Date Received: 01/20/18 11:10

## Lab Sample ID: 440-201565-5

Matrix: Water

### Method: 8015B/5030B - Gasoline Range Organics (GC)

| Analyte      | Result | Qualifier | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|----|------|---|----------|----------------|---------|
| GRO (C6-C12) | 830    |           | 50 | ug/L |   |          | 01/26/18 17:20 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 136       |           | 65 - 140 |          | 01/26/18 17:20 | 1       |

## Client Sample ID: MW-9

Date Collected: 01/19/18 11:46

Date Received: 01/20/18 11:10

## Lab Sample ID: 440-201565-6

Matrix: Water

### Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

| Analyte                            | Result    | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane (EDB)            | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| 1,2-Dichloroethane                 | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| Benzene                            | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| Ethanol                            | ND        |           | 150  | ug/L |   |          | 01/23/18 03:20 | 1       |
| Ethylbenzene                       | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| Ethyl-t-butyl ether (ETBE)         | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| Isopropyl Ether (DIPE)             | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| m,p-Xylene                         | ND        |           | 1.0  | ug/L |   |          | 01/23/18 03:20 | 1       |
| <b>Methyl-t-Butyl Ether (MTBE)</b> | <b>61</b> |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| o-Xylene                           | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| Tert-amyl-methyl ether (TAME)      | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| tert-Butyl alcohol (TBA)           | ND        |           | 10   | ug/L |   |          | 01/23/18 03:20 | 1       |
| Toluene                            | ND        |           | 0.50 | ug/L |   |          | 01/23/18 03:20 | 1       |
| Xylenes, Total                     | ND        |           | 1.0  | ug/L |   |          | 01/23/18 03:20 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 111       |           | 80 - 120 |          | 01/23/18 03:20 | 1       |
| Dibromofluoromethane (Surr) | 100       |           | 76 - 132 |          | 01/23/18 03:20 | 1       |
| Toluene-d8 (Surr)           | 107       |           | 80 - 128 |          | 01/23/18 03:20 | 1       |

### Method: 8015B/5030B - Gasoline Range Organics (GC)

| Analyte      | Result | Qualifier | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|----|------|---|----------|----------------|---------|
| GRO (C6-C12) | ND     |           | 50 | ug/L |   |          | 01/26/18 19:08 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 65 - 140 |          | 01/26/18 19:08 | 1       |

# Method Summary

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8260B/5030B | Volatile Organic Compounds (GC/MS) | SW846    | TAL IRV    |
| 8015B/5030B | Gasoline Range Organics (GC)       | SW846    | TAL IRV    |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

## Client Sample ID: MW-1

Date Collected: 01/19/18 08:50

Date Received: 01/20/18 11:10

## Lab Sample ID: 440-201565-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B/5030B  |     | 1          | 10 mL          | 10 mL        | 453038       | 01/23/18 01:08       | WC      | TAL IRV |
| Total/NA  | Analysis   | 8015B/5030B  |     | 1          | 10 mL          | 10 mL        | 453898       | 01/26/18 15:05       | KGL     | TAL IRV |

## Client Sample ID: MW-2

Date Collected: 01/19/18 11:04

Date Received: 01/20/18 11:10

## Lab Sample ID: 440-201565-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B/5030B  |     | 1          | 10 mL          | 10 mL        | 453038       | 01/23/18 01:34       | WC      | TAL IRV |
| Total/NA  | Analysis   | 8015B/5030B  |     | 1          | 10 mL          | 10 mL        | 453898       | 01/26/18 16:26       | KGL     | TAL IRV |

## Client Sample ID: MW-4

Date Collected: 01/19/18 12:20

Date Received: 01/20/18 11:10

## Lab Sample ID: 440-201565-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B/5030B  |     | 20         | 10 mL          | 10 mL        | 453038       | 01/23/18 02:01       | WC      | TAL IRV |
| Total/NA  | Analysis   | 8015B/5030B  |     | 100        | 10 mL          | 10 mL        | 453898       | 01/26/18 17:47       | KGL     | TAL IRV |

## Client Sample ID: MW-7

Date Collected: 01/19/18 09:40

Date Received: 01/20/18 11:10

## Lab Sample ID: 440-201565-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B/5030B  |     | 1          | 10 mL          | 10 mL        | 453038       | 01/23/18 02:27       | WC      | TAL IRV |
| Total/NA  | Analysis   | 8015B/5030B  |     | 1          | 10 mL          | 10 mL        | 453898       | 01/26/18 16:53       | KGL     | TAL IRV |

## Client Sample ID: MW-8

Date Collected: 01/19/18 10:25

Date Received: 01/20/18 11:10

## Lab Sample ID: 440-201565-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B/5030B  |     | 1          | 10 mL          | 10 mL        | 453038       | 01/23/18 02:53       | WC      | TAL IRV |
| Total/NA  | Analysis   | 8015B/5030B  |     | 1          | 10 mL          | 10 mL        | 453898       | 01/26/18 17:20       | KGL     | TAL IRV |

## Client Sample ID: MW-9

Date Collected: 01/19/18 11:46

Date Received: 01/20/18 11:10

## Lab Sample ID: 440-201565-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B/5030B  |     | 1          | 10 mL          | 10 mL        | 453038       | 01/23/18 03:20       | WC      | TAL IRV |

TestAmerica Irvine

# Lab Chronicle

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

**Client Sample ID: MW-9**

**Date Collected: 01/19/18 11:46**

**Date Received: 01/20/18 11:10**

**Lab Sample ID: 440-201565-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015B/5030B  |     | 1          | 10 mL          | 10 mL        | 453898       | 01/26/18 19:08       | KGL     | TAL IRV |

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

## Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-453038/9**

**Matrix: Water**

**Analysis Batch: 453038**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                       | MB Result | MB Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-----------|--------------|------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane (EDB)       | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| 1,2-Dichloroethane            | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| Benzene                       | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| Ethanol                       | ND        |              | 150  | ug/L |   |          | 01/22/18 21:33 | 1       |
| Ethylbenzene                  | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| Ethyl-t-butyl ether (ETBE)    | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| Isopropyl Ether (DIPE)        | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| m,p-Xylene                    | ND        |              | 1.0  | ug/L |   |          | 01/22/18 21:33 | 1       |
| Methyl-t-Butyl Ether (MTBE)   | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| o-Xylene                      | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| Tert-amyl-methyl ether (TAME) | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| tert-Butyl alcohol (TBA)      | ND        |              | 10   | ug/L |   |          | 01/22/18 21:33 | 1       |
| Toluene                       | ND        |              | 0.50 | ug/L |   |          | 01/22/18 21:33 | 1       |
| Xylenes, Total                | ND        |              | 1.0  | ug/L |   |          | 01/22/18 21:33 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed      | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------|---------------|---------|
| 4-Bromofluorobenzene (Surr) | 110          |              | 98 - 108 |          | 8120219 01/33 | 1       |
| i bromofluoromethane (Surr) | : D          |              | D6 - 130 |          | 8120219 01/33 | 1       |
| Toluene-d9 (Surr)           | 18:          |              | 98 - 109 |          | 8120219 01/33 | 1       |

**Lab Sample ID: LCS 440-453038/5**

**Matrix: Water**

**Analysis Batch: 453038**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2-Dibromoethane (EDB)       | 25.0        | 25.0       |               | ug/L |   | 100  | 70 - 130     |
| 1,2-Dichloroethane            | 25.0        | 24.5       |               | ug/L |   | 98   | 57 - 138     |
| Benzene                       | 25.0        | 25.4       |               | ug/L |   | 102  | 68 - 130     |
| Ethanol                       | 1000        | 1340       |               | ug/L |   | 134  | 50 - 14G     |
| Ethylbenzene                  | 25.0        | 24.1       |               | ug/L |   | 96   | 70 - 130     |
| Ethyl-t-butyl ether (ETBE)    | 25.0        | 25.4       |               | ug/L |   | 101  | 60 - 136     |
| Isopropyl Ether (DIPE)        | 25.0        | 32.1       |               | ug/L |   | 128  | 58 - 13G     |
| m,p-Xylene                    | 25.0        | 24.0       |               | ug/L |   | 96   | 70 - 130     |
| Methyl-t-Butyl Ether (MTBE)   | 25.0        | 23.3       |               | ug/L |   | 93   | 63 - 131     |
| o-Xylene                      | 25.0        | 24.3       |               | ug/L |   | 97   | 70 - 130     |
| Tert-amyl-methyl ether (TAME) | 25.0        | 22.1       |               | ug/L |   | 88   | 57 - 13G     |
| tert-Butyl alcohol (TBA)      | 250         | 274        |               | ug/L |   | 110  | 70 - 130     |
| Toluene                       | 25.0        | 24.5       |               | ug/L |   | 98   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 18:           |               | 98 - 108 |
| i bromofluoromethane (Surr) | 188           |               | D6 - 130 |
| Toluene-d9 (Surr)           | 180           |               | 98 - 109 |

TestAmerica Irvine

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

## Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-201594-E-1 MS**

**Matrix: Water**

**Analysis Batch: 453038**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier     | Unit | D | %Rec | %Rec. Limits  |
|-------------------------------|---------------|------------------|-------------|-----------|------------------|------|---|------|---------------|
| 1,2-Dibromoethane (EDB)       | ND            |                  | 25.0        | 27.7      |                  | ug/L |   | 111  | 70 - 131      |
| 1,2-Dichloroethane            | ND            |                  | 25.0        | 27.4      |                  | ug/L |   | 110  | 56 - 146      |
| Benzene                       | ND            |                  | 25.0        | 27.0      |                  | ug/L |   | 108  | 66 - 130      |
| Ethanol                       | ND            |                  | 1000        | 1330      |                  | ug/L |   | 133  | 54 - 150      |
| Ethylbenzene                  | ND            |                  | 25.0        | 26.3      |                  | ug/L |   | 105  | 70 - 130      |
| Ethyl-t-butyl ether (ETBE)    | ND            |                  | 25.0        | 27.G      |                  | ug/L |   | 112  | 70 - 130      |
| Isopropyl Ether (DIPE)        | ND            |                  | 25.0        | 35.0      | LM               | ug/L |   | 140  | 64 - 138      |
| m,p-Xylene                    | ND            |                  | 25.0        | 26.4      |                  | ug/L |   | 106  | 70 - 133      |
| Methyl-t-Butyl Ether (MTBE)   | ND            |                  | 25.0        | 26.0      |                  | ug/L |   | 104  | 70 - 130      |
| o-Xylene                      | ND            |                  | 25.0        | 25.G      |                  | ug/L |   | 104  | 70 - 133      |
| Tert-amyl-methyl ether (TAME) | ND            |                  | 25.0        | 24.6      |                  | ug/L |   | 88   | 68 - 133      |
| tert-Butyl alcohol (TBA)      | ND            |                  | 250         | 287       |                  | ug/L |   | 115  | 70 - 130      |
| Toluene                       | ND            |                  | 25.0        | 26.7      |                  | ug/L |   | 107  | 70 - 130      |
|                               |               | <b>MS MS</b>     |             |           |                  |      |   |      |               |
| <b>Surrogate</b>              |               | <b>%Recovery</b> |             |           | <b>Qualifier</b> |      |   |      | <b>Limits</b> |
| 4-Bromofluorobenzene (Surr)   |               | 184              |             |           |                  |      |   |      | 98 - 108      |
| i bromofluoromethane (Surr)   |               | 181              |             |           |                  |      |   |      | D6 - 130      |
| Toluene-d9 (Surr)             |               | 183              |             |           |                  |      |   |      | 98 - 109      |

**Lab Sample ID: 440-201594-E-1 MSD**

**Matrix: Water**

**Analysis Batch: 453038**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier    | Unit | D | %Rec | %Rec. Limits  | RPD | Limit |
|-------------------------------|---------------|------------------|-------------|------------|------------------|------|---|------|---------------|-----|-------|
| 1,2-Dibromoethane (EDB)       | ND            |                  | 25.0        | 27.6       |                  | ug/L |   | 110  | 70 - 131      | 1   | 25    |
| 1,2-Dichloroethane            | ND            |                  | 25.0        | 26.7       |                  | ug/L |   | 107  | 56 - 146      | 3   | 20    |
| Benzene                       | ND            |                  | 25.0        | 26.6       |                  | ug/L |   | 106  | 66 - 130      | 2   | 20    |
| Ethanol                       | ND            |                  | 1000        | 1280       |                  | ug/L |   | 128  | 54 - 150      | 4   | 30    |
| Ethylbenzene                  | ND            |                  | 25.0        | 25.7       |                  | ug/L |   | 103  | 70 - 130      | 2   | 20    |
| Ethyl-t-butyl ether (ETBE)    | ND            |                  | 25.0        | 27.G       |                  | ug/L |   | 112  | 70 - 130      | 0   | 25    |
| Isopropyl Ether (DIPE)        | ND            |                  | 25.0        | 34.4       |                  | ug/L |   | 138  | 64 - 138      | 2   | 25    |
| m,p-Xylene                    | ND            |                  | 25.0        | 25.G       |                  | ug/L |   | 103  | 70 - 133      | 2   | 25    |
| Methyl-t-Butyl Ether (MTBE)   | ND            |                  | 25.0        | 26.2       |                  | ug/L |   | 105  | 70 - 130      | 1   | 25    |
| o-Xylene                      | ND            |                  | 25.0        | 25.4       |                  | ug/L |   | 102  | 70 - 133      | 2   | 20    |
| Tert-amyl-methyl ether (TAME) | ND            |                  | 25.0        | 24.4       |                  | ug/L |   | 88   | 68 - 133      | 1   | 30    |
| tert-Butyl alcohol (TBA)      | ND            |                  | 250         | 282        |                  | ug/L |   | 113  | 70 - 130      | 2   | 25    |
| Toluene                       | ND            |                  | 25.0        | 26.1       |                  | ug/L |   | 104  | 70 - 130      | 2   | 20    |
|                               |               | <b>MSD MSD</b>   |             |            |                  |      |   |      |               |     |       |
| <b>Surrogate</b>              |               | <b>%Recovery</b> |             |            | <b>Qualifier</b> |      |   |      | <b>Limits</b> |     |       |
| 4-Bromofluorobenzene (Surr)   |               | 186              |             |            |                  |      |   |      | 98 - 108      |     |       |
| i bromofluoromethane (Surr)   |               | 188              |             |            |                  |      |   |      | D6 - 130      |     |       |
| Toluene-d9 (Surr)             |               | 183              |             |            |                  |      |   |      | 98 - 109      |     |       |

TestAmerica Irvine

# QC Sample Results

Client: ARCADIS U.S. Inc  
 Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

## Method: 8015B/5030B - Gasoline Range Organics (GC)

**Lab Sample ID: MB 440-453898/5**  
**Matrix: Water**  
**Analysis Batch: 453898**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                     | MB Result | MB Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|----------|------|---|----------|----------------|---------|
| 9 RO (C6-C12)               | ND        |              | 50       | ug/L |   |          | 01/26/18 13:42 | 1       |
| Surrogate                   | %Recovery | MB Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 180       |              | 65 - 148 |      |   |          | 81/26/19 13/40 | 1       |

**Lab Sample ID: LCS 440-453898/4**  
**Matrix: Water**  
**Analysis Batch: 453898**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                     | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|---------------|---------------|------|---|------|--------------|
| 9 RO (C4-C12)               | 800           | 661           |               | ug/L |   | 86   | 80 - 120     |
| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| 4-Bromofluorobenzene (Surr) | : 6           |               | 65 - 148      |      |   |      |              |

**Lab Sample ID: 440-201565-1 MS**  
**Matrix: Water**  
**Analysis Batch: 453898**

**Client Sample ID: MW-1**  
**Prep Type: Total/NA**

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 9 RO (C4-C12)               | ND            |                  | 800         | 702       |              | ug/L |   | 88   | 65 - 140     |
| Surrogate                   | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |              |
| 4-Bromofluorobenzene (Surr) | : 9           |                  | 65 - 148    |           |              |      |   |      |              |

**Lab Sample ID: 440-201565-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 453898**

**Client Sample ID: MW-1**  
**Prep Type: Total/NA**

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 9 RO (C4-C12)               | ND            |                  | 800         | 665        |               | ug/L |   | 87   | 65 - 140     | 1   | 20        |
| Surrogate                   | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr) | : 8           |                  | 65 - 148    |            |               |      |   |      |              |     |           |



# QC Association Summary

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

## GC/MS VOA

### Analysis Batch: 453038

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 440-201565-1       | MW-1                   | Total/NA  | Water  | 8260B/5030B |            |
| 440-201565-2       | MW-2                   | Total/NA  | Water  | 8260B/5030B |            |
| 440-201565-3       | MW-4                   | Total/NA  | Water  | 8260B/5030B |            |
| 440-201565-4       | MW-7                   | Total/NA  | Water  | 8260B/5030B |            |
| 440-201565-5       | MW-8                   | Total/NA  | Water  | 8260B/5030B |            |
| 440-201565-6       | MW-9                   | Total/NA  | Water  | 8260B/5030B |            |
| MB 440-453038/9    | Method Blank           | Total/NA  | Water  | 8260B/5030B |            |
| LCS 440-453038/5   | Lab Control Sample     | Total/NA  | Water  | 8260B/5030B |            |
| 440-201594-E-1 MS  | Matrix Spike           | Total/NA  | Water  | 8260B/5030B |            |
| 440-201594-E-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260B/5030B |            |

## GC VOA

### Analysis Batch: 453898

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|------------------|--------------------|-----------|--------|-------------|------------|
| 440-201565-1     | MW-1               | Total/NA  | Water  | 8015B/5030B |            |
| 440-201565-2     | MW-2               | Total/NA  | Water  | 8015B/5030B |            |
| 440-201565-3     | MW-4               | Total/NA  | Water  | 8015B/5030B |            |
| 440-201565-4     | MW-7               | Total/NA  | Water  | 8015B/5030B |            |
| 440-201565-5     | MW-8               | Total/NA  | Water  | 8015B/5030B |            |
| 440-201565-6     | MW-9               | Total/NA  | Water  | 8015B/5030B |            |
| MB 440-453898/5  | Method Blank       | Total/NA  | Water  | 8015B/5030B |            |
| LCS 440-453898/4 | Lab Control Sample | Total/NA  | Water  | 8015B/5030B |            |
| 440-201565-1 MS  | MW-1               | Total/NA  | Water  | 8015B/5030B |            |
| 440-201565-1 MSD | MW-1               | Total/NA  | Water  | 8015B/5030B |            |

# Definitions/Glossary

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| LM        | MS and/or MSD above acceptance limits. See Blank Spike (LCS) |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

# Accreditation/Certification Summary

Client: ARCADIS U.S. Inc  
Project/Site: ARCO 0374, Oakland

TestAmerica Job ID: 440-201565-1

## Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                | Program                     | EPA Region | Identification Number | Expiration Date |
|--------------------------|-----------------------------|------------|-----------------------|-----------------|
| Alaska                   | State Program               | 10         | CA01531               | 06-30-18        |
| Arizona                  | State Program               | 9          | AZ0671                | 10-14-18        |
| California               | LA Cty Sanitation Districts | 9          | 10256                 | 06-30-18        |
| California               | State Program               | 9          | CA ELAP 2706          | 06-30-18        |
| Guam                     | State Program               | 9          | Cert. No. 17-003R     | 01-23-18 *      |
| Hawaii                   | State Program               | 9          | N/A                   | 01-29-18 *      |
| Kansas                   | NELAP                       | 7          | E-10420               | 07-31-18        |
| Nevada                   | State Program               | 9          | CA015312018-1         | 07-31-18        |
| New Mexico               | State Program               | 6          | N/A                   | 01-29-18 *      |
| Northern Mariana Islands | State Program               | 9          | MP0002                | 01-29-17 *      |
| Oregon                   | NELAP                       | 10         | 4028                  | 01-29-18 *      |
| USDA                     | Federal                     |            | P330-15-00184         | 07-08-18        |
| Washington               | State Program               | 10         | C900                  | 09-03-18        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine



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**Project Contact (Hardcopy or PDF To):**  
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melanie.a.wong@arcadis.com

**Laboratory/Address: Test America**  
17461 Derian Ave Suite 100  
Irvine, CA 92614

**Phone No.:** 949-261-1022  
**Fax No.:** 949-260-3297

**Project Number:** GP16BPNA.CA01 40000  
**Phase Number**

**Project Name:** ARCO #0374

**GeoTracker EDF Report?**  Yes  No

Recommended but not mandatory to complete this section:  
**Sampling Company Log Code:**

**Global ID:** T0600100106

**EDF Deliverable To (Email Address):**  
melanie.a.wong@arcadis.com

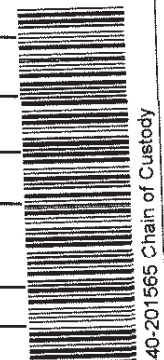
**Sampler:** Angel Torrens-Bonano  
**Signature:** *ATB*

**Project Address:**  
6407 Telegraph Avenue  
Oakland, CA

**Sample Designation**

| Sample Designation | Sampling |      | Container |        |      | Preservative |              |     |                  | Matrix |      |       |      |
|--------------------|----------|------|-----------|--------|------|--------------|--------------|-----|------------------|--------|------|-------|------|
|                    | Date     | Time | 40 ml VOA | SLEEVE | POLY | GLASS        | PLASTIC VIAL | HCl | HNO <sub>3</sub> | ICE    | NONE | WATER | DUST |
| MW-1               | 1/19/18  | 0850 |           |        |      |              |              | X   |                  |        |      | X     |      |
| MW-2               | 1/19/18  | 1104 |           |        |      |              |              | X   |                  |        |      | X     |      |
| MW-4               | 1/19/18  | 1220 |           |        |      |              |              | X   |                  |        |      | X     |      |
| MW-7               | 1/19/18  | 0940 |           |        |      |              |              | X   |                  |        |      | X     |      |
| MW-8               | 1/19/18  | 1025 |           |        |      |              |              | X   |                  |        |      | X     |      |
| MW-9               | 1/19/18  | 1146 |           |        |      |              |              | X   |                  |        |      | X     |      |
| Trip Blank         |          |      |           |        |      |              |              |     |                  |        |      |       |      |

GRO (EPA Method 8260B) X  
BTEX, MTBE, TBA, 1,2-DCA, EDB, ETBE, DPE, TAME, and ethanol (EPA Method 8260B) X



440-201565 Chain of Custody

**Chain-of-Custody Record and Analysis Request**

**Analysis Request**

TAT

12 Hr 24 Hr 48 Hr 72 Hr 1 WK 2 WK

For Lab Use Only

Remarks:

Relinquished by: Angel Torrens-Bonano ANA / ATB  
Date: 1/19/18 1600  
Time Received by: T.A.S.A.C. 9/19/18 16:00

Relinquished by: T.A.S.A.C.  
Date: 1/19/18 1639  
Time Received by: TAIRX 1/20/18 1110

20/1.5 IRSCG c/s

Fed # 4895 5408 4182

LB 1/20/18





101 Creekside Ridge Ct, Suite 200  
 Roseville, CA 95678  
 Phone: 916-786-0320

**Project Contact (Hardcopy or PDF To):**  
 James.Jacobsen@arcadis.com  
 melanie.a.wong@arcadis.com

**Laboratory/Address: Test America**  
 17461 Derian Ave Suite 100  
 Irvine, CA 92614

**Phone No.:** 949-261-1022  
**Fax No.:** 949-260-3297

**Project Number:** GP16BPNA.CA01 40000

**Project Name:** ARCO #0374

**GeoTracker EDF Report?**  Yes  No

Recommended but not mandatory to complete this section:  
**Sampling Company Log Code:**

**Global ID:**  
 T0600100106

**EDF Deliverable To (Email Address):**  
 melanie.a.wong@arcadis.com

**Sampler:** Angel Torrens-Bonano  
**Signature:** *ATB*

**Project Address:**  
 6407 Telegraph Avenue  
 Oakland, CA

**Sample Designation**

| Sample Designation | Date    | Time |
|--------------------|---------|------|
| MW-1               | 1/19/18 | 0850 |
| MW-2               | 1/19/18 | 1104 |
| MW-4               | 1/19/18 | 1220 |
| MW-7               | 1/19/18 | 0940 |
| MW-8               | 1/19/18 | 1025 |
| MW-9               | 1/19/18 | 1146 |
| Trip Blank         |         |      |

| Sampling | Container |        |      |       |       |              | Preservative |                  |     |      | Matrix |      |      |
|----------|-----------|--------|------|-------|-------|--------------|--------------|------------------|-----|------|--------|------|------|
|          | 40 ml VOA | SLEEVE | POLY | AMBER | GLASS | PLASTIC VIAL | HCl          | HNO <sub>3</sub> | ICE | NONE | WATER  | SOIL | DUST |
|          |           |        |      |       |       |              | X            |                  |     |      | X      |      |      |
|          |           |        |      |       |       |              | X            |                  |     |      | X      |      |      |
|          |           |        |      |       |       |              | X            |                  |     |      | X      |      |      |
|          |           |        |      |       |       |              | X            |                  |     |      | X      |      |      |
|          |           |        |      |       |       |              | X            |                  |     |      | X      |      |      |
|          |           |        |      |       |       |              | X            |                  |     |      | X      |      |      |

**Chain-of-Custody Record and Analysis Request**

**Analysis Request**

GRO (EPA Method 826B) X  
 BTEX, MTBE, TBA, 1,2-DCA, EDB, ETBE, DIFE, TAME, and ethanol (EPA Method 8260B) X



440-201565 Chain of Custody

12 Hr 24 Hr 48 Hr 72 Hr 1 WK 2 WK

For Lab Use Only

Please Hold

Remarks:

Relinquished by: *ANA / ATB*  
 Angel Torrens-Bonano  
 Date: 1/19/18 1600  
 Time Received by: *TA-SAC*  
 Date: 1/19/18 1600  
 Time Received by: *TA-SAC*

Relinquished by: *ANA / ATB*  
 Date: 1/19/18 1630  
 Time Received by: *TA-SAC*  
 Date: 1/20/18 1110  
 Time Received by: *TA-SAC*

20/15 IRSCG c/s

Fed # 4895 5408 4182

*LB 1/20/18*



# Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 440-201565-1

**Login Number: 201565**

**List Number: 1**

**Creator: Bonta, Lucia F**

**List Source: TestAmerica Irvine**

| Question  | Answer | Comment     |
|---|--------|-------------|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | True   |             |
| The cooler's custody seal, if present, is intact.   | True   |             |
| Sample custody seals, if present, are intact.   | N/A    | Not Present |
| The cooler or samples do not appear to have been compromised or tampered with.                      | True   |             |
| Samples were received on ice.   | True   |             |
| Cooler Temperature is acceptable.   | True   |             |
| Cooler Temperature is recorded.   | True   |             |
| COC is present.   | True   |             |
| COC is filled out in ink and legible.   | True   |             |
| COC is filled out with all pertinent information.   | True   |             |
| Is the Field Sampler's name present on COC?   | True   |             |
| There are no discrepancies between the containers received and the COC.                             | True   |             |
| Samples are received within Holding Time (excluding tests with immediate HTs)                       | True   |             |
| Sample containers have legible labels.  | True   |             |
| Containers are not broken or leaking.   | True   |             |
| Sample collection date/times are provided.  | False  | TB          |
| Appropriate sample containers are used.   | True   |             |
| Sample bottles are completely filled.   | True   |             |
| Sample Preservation Verified.   | N/A    |             |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                    | True   |             |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True   |             |
| Multiphasic samples are not present.  | True   |             |
| Samples do not require splitting or compositing.  | True   |             |
| Residual Chlorine Checked.  | N/A    |             |

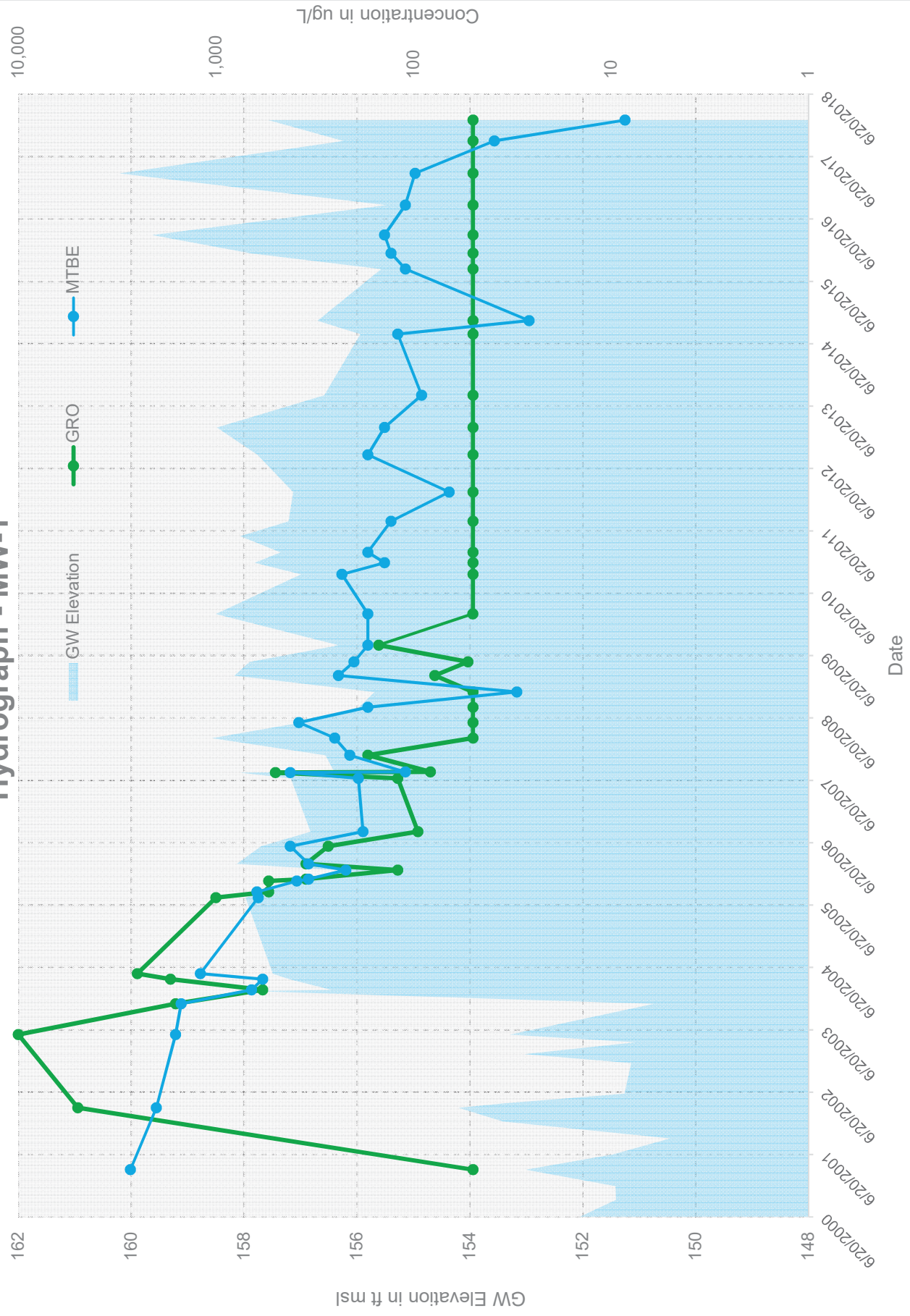


# ATTACHMENT 3

## Hydrographs

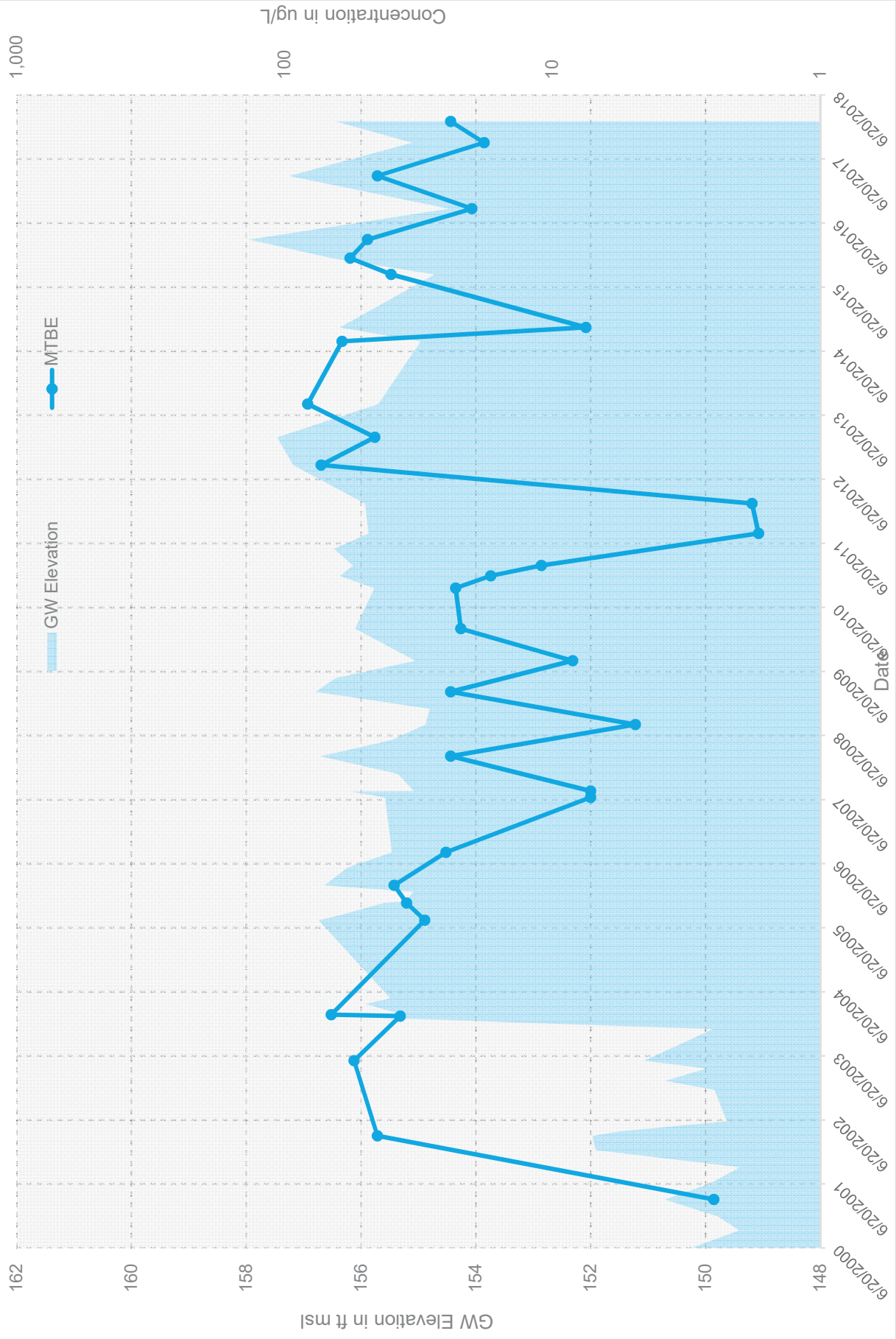


# Hydrograph - MW-1

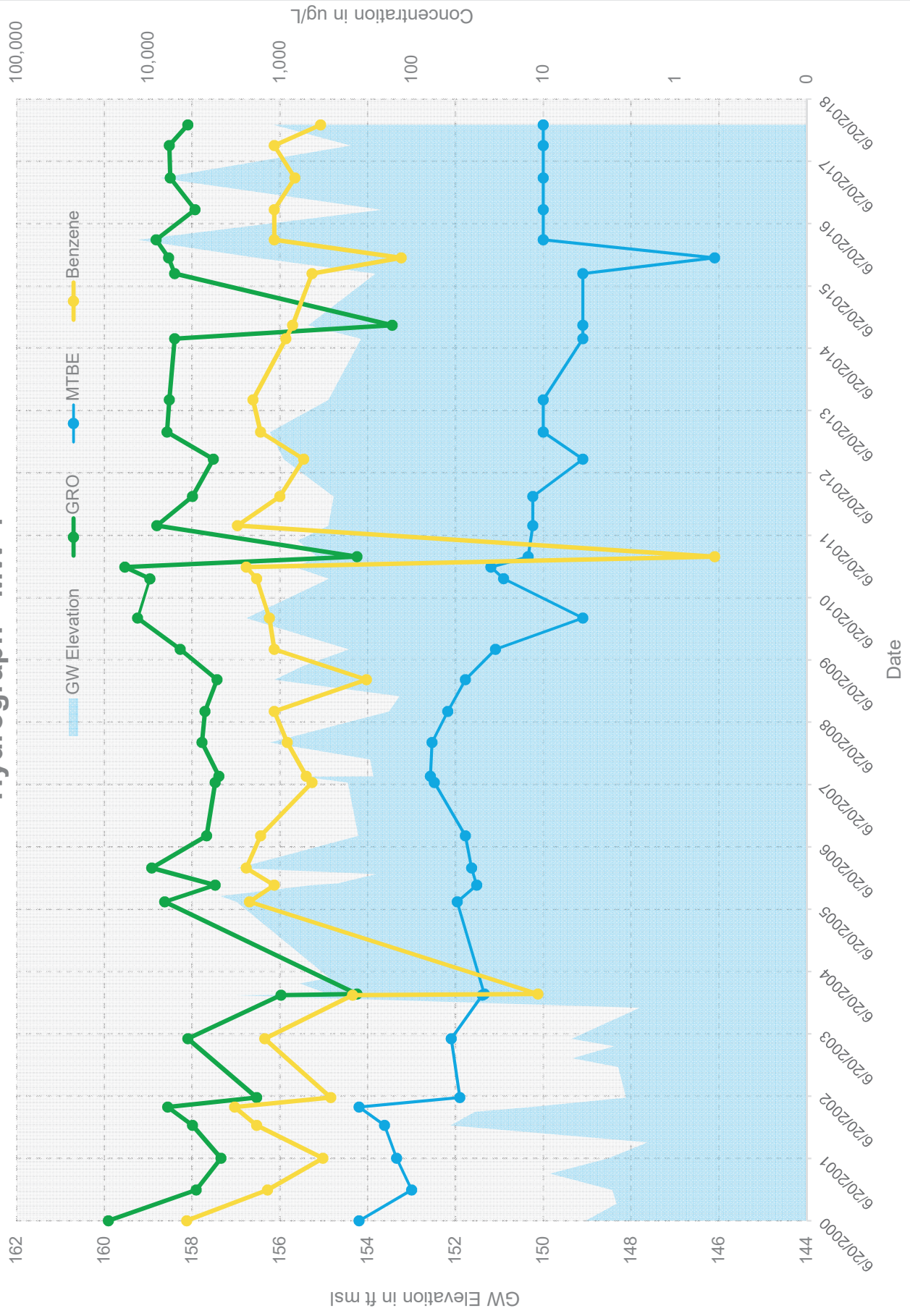




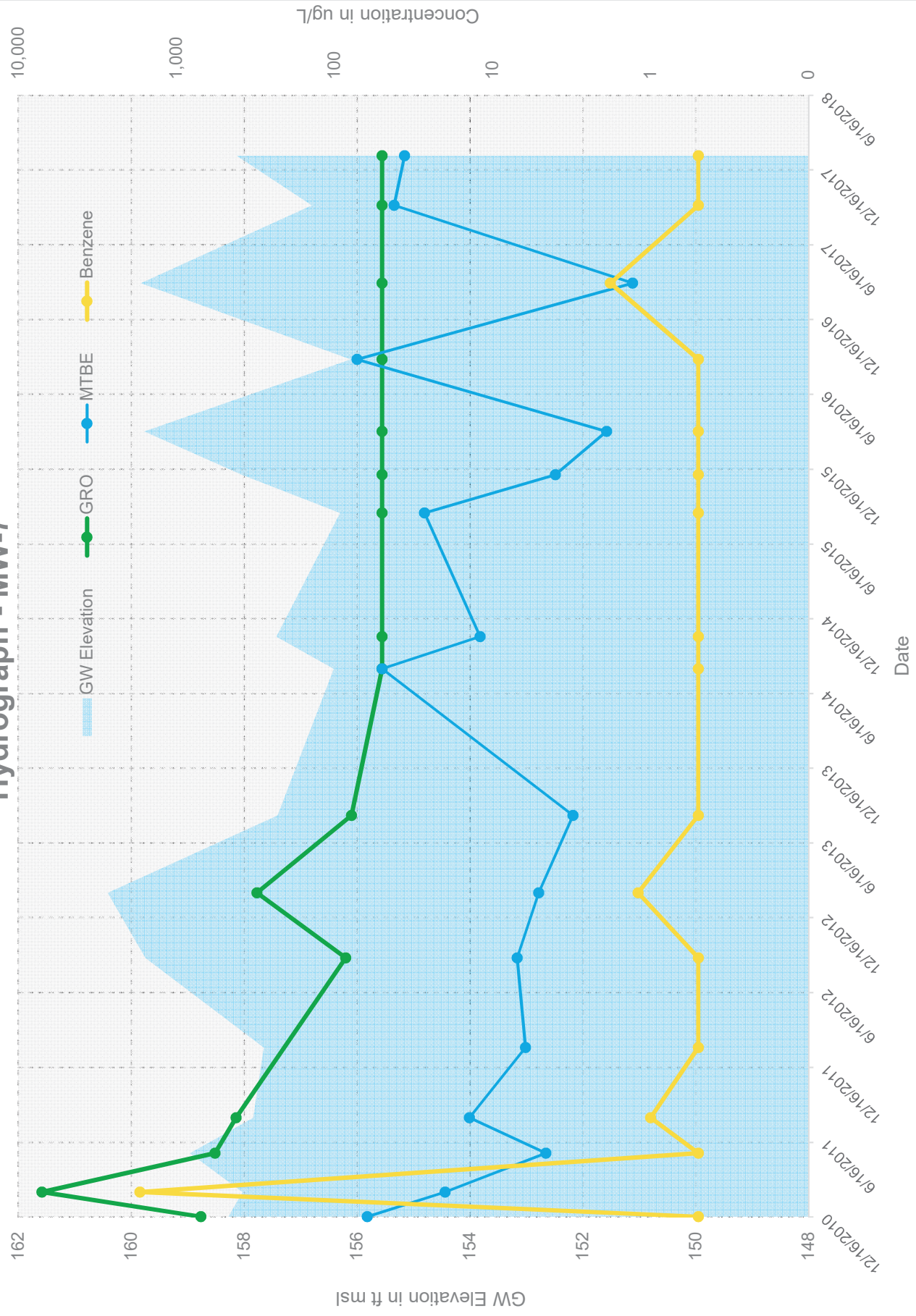
# Hydrograph - MW-2



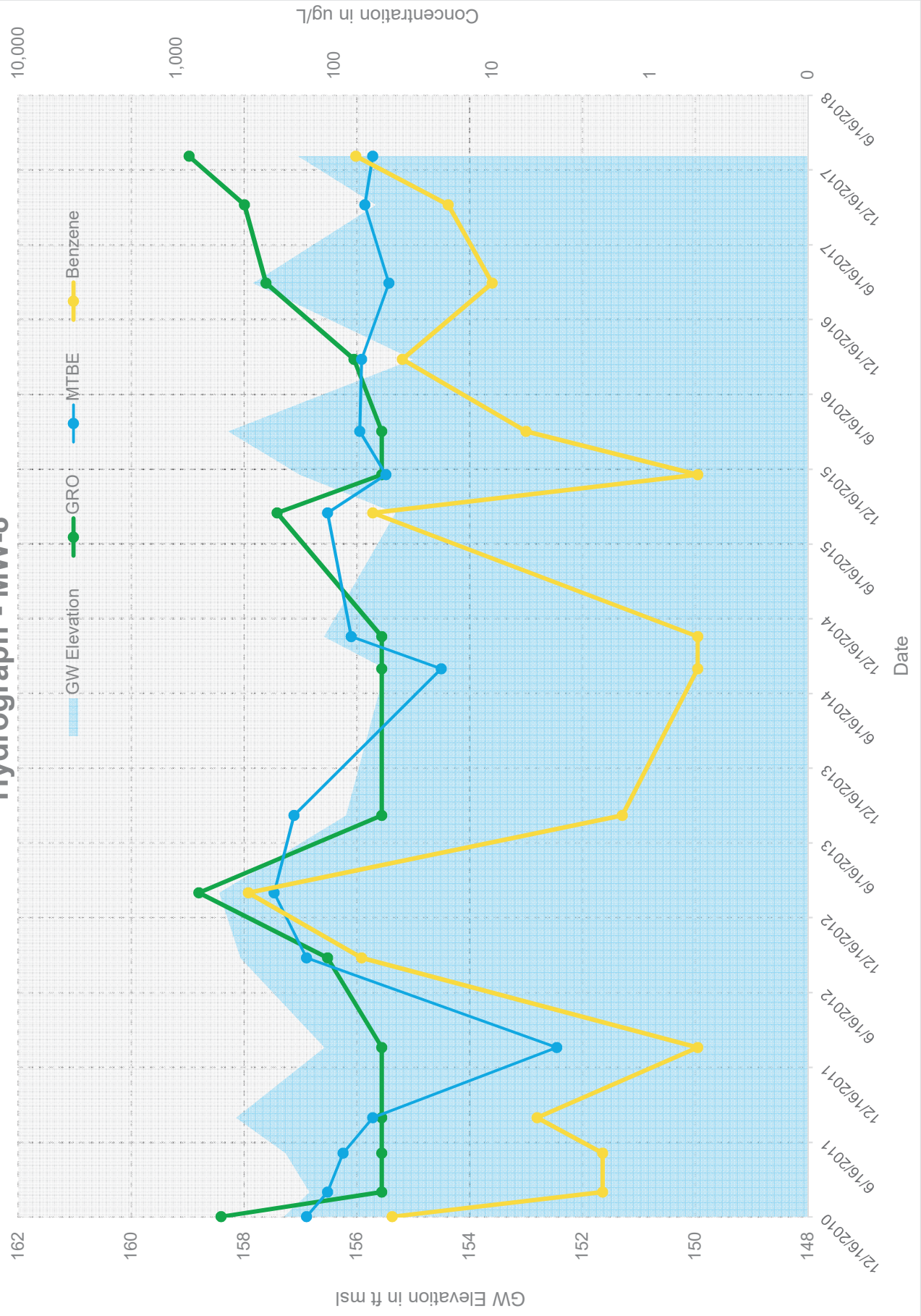
# Hydrograph - MW-4



# Hydrograph - MW-7



# Hydrograph - MW-8



# Hydrograph - MW-9

