

Mr. Keith Nowell
Alameda County LOP
1131 Harbor Bay Parkway
Alameda, California 94502

RECEIVED

By Alameda County Environmental Health 2:58 pm, Apr 26, 2017

Subject:

**Fourth Quarter 2016 and First Quarter 2017
Groundwater Monitoring Report**

Former Atlantic Richfield Company Station #11132
3201 35th Avenue, Oakland, California 94619
Alameda County LOP Case #RO0000014
SFB-RWQCB Case #01-0227

Arcadis U.S., Inc.
1728 3rd Avenue North
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Birmingham
AL 35203
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Dear Mr. Nowell:

Arcadis U.S., Inc. (Arcadis) has prepared this semi-annual groundwater monitoring report (GMR) to document the results of groundwater monitoring and sampling at the former Atlantic Richfield Company (ARCO) Service Station #11132, located at 3201 35th Avenue in Oakland, California (the Site; Figure 1).

If you have any questions or comments regarding the contents of this report, please contact Megan Smoley at 626.590.1502 or by e-mail at Megan.Smoley@arcadis.com.

"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."

Sincerely,

Arcadis U.S., Inc.



Megan Smoley, P.G. No. 8614
Certified Project Manager



ENVIRONMENT

Date:
April 24, 2017

Contact:
Megan Smoley

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Our ref:
GP09BPNA.C112.N0000

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Ms. Shelby Lathrop, Conoco Phillips, 76 Broadway, Sacramento, California 95818

WORK PERFORMED DURING THE FOURTH QUARTER 2016 AND FIRST QUARTER 2017

- Submitted *Third Quarter 2016 Groundwater Monitoring Report* on October 26, 2016.
- Conducted the final quarterly groundwater monitoring and sampling event at newly installed offsite wells MW-10R and MW-11 on December 14, 2016.
- Conducted semi-annual groundwater monitoring and sampling in first quarter 2017 on March 1, 2017.

WORK PROPOSED FOR THE SECOND AND THIRD QUARTER 2017

- Submit the *Fourth Quarter 2016 and First Quarter 2017 Groundwater Monitoring Report*, contained herein.
- Submit findings of foundation survey conducted south of 35th Avenue between Mangels Avenue and Suter Street to Alameda County Local Oversight Program (LOP).
- Submit a work plan for additional characterization after receipt of directive from Alameda County LOP.
- Conduct semiannual groundwater monitoring and sampling in the third quarter 2017.

SITE INFORMATION

| | |
|--|--|
| Current Phase of Project: | Groundwater Monitoring and Sampling |
| Frequency of Monitoring and Sampling | Semi-Annual Gauging (1/3Q): MW-1 through MW-11, OW-1 and RW-1 Semi-Annual Sampling (1/3Q): MW-1, MW-2, MW-5, MW-8, MW-9, MW-10R, MW-11, OW-1 and RW-1 Annual Sampling (1Q): MW-4 and MW-7 Annual Sampling (3Q): MW-3 and MW-6 |
| Have Liquid Phase Hydrocarbons (LPH) Been Measured Onsite, Historically? | Yes |
| Historical Range in Depth to Water (DTW; feet below top of casing [btoc]): | 8.63 (MW-6 1Q/2017) to 32.20 (RW-1 2Q/1994) |

CURRENT QUARTER MONITORING DATA

| | |
|--|---|
| Wells Gauged: | MW-1 through MW-11, RW-1 and OW-1 |
| Wells Sampled: | MW-1, MW-2, MW-4, MW-5, MW-7, MW-8, MW-9, MW-10R, MW-11 and RW-1. OW-1 contained LPH and was not sampled. |
| Monitoring and Sampling Date: | December 14, 2016 and March 1, 2017 |
| LPH Measured This Quarter (thickness in feet): | 1Q 2017: OW-1 (0.19) |
| LPH Recovered This Quarter: | None |
| Cumulative LPH Recovered to Date: | 113.7 gallons |

| | |
|--|--|
| 1Q 2017 DTW Range (feet btoc): | 8.63 (MW-6) to 15.00 (MW-4) |
| 1Q 2017 Groundwater Flow Direction and Gradient (feet/foot): | East-Northeast to Southeast (0.01 ft/ft) |

GROUNDWATER MONITORING AND SAMPLING

During the first quarter 2017 sampling event, HydraSleeves were used to collect groundwater samples at the Site. Prior to groundwater sampling, depths to water were measured to within 0.01 feet below top of casing (btoc) in all wells using an oil/water interface probe. All monitoring and sampling activities were performed by Blaine Tech Services, Inc. (Blaine Tech).

Groundwater samples were submitted under chain-of-custody protocol to ESC Lab Sciences (ESC), a California state-certified laboratory. Samples were analyzed for total petroleum hydrocarbons gasoline range organics (GRO) by EPA Method 8015B, benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX), methyl tert-butyl ether (MTBE), tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), ethanol, 1,2-dichloroethane (1,2-DCA), and ethylene dibromide (EDB) by EPA Method 8260B.

No issues were noted by ESC during sample analysis that would have an adverse effect on the quality of the data and no issues affecting the sampling protocol were noted.

RECOMMENDATIONS

Arcadis recommends continuation of groundwater monitoring and sampling on a semi-annual or annual basis at all site monitoring well locations in accordance with the approved schedule.

LIMITATIONS

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by ESC, and our understanding of the San Francisco Regional Water Quality Control Board (SF-RWQCB) requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Arcadis and ARCO. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

Tables

- 1 Well Construction Details
- 2 Current Groundwater Monitoring and Analytical Data
- 3 Historical Groundwater Monitoring and Analytical Data
- 4 Historical Groundwater Flow Direction and Gradient

Figures

- 1 Site Location Map
- 2 Site Plan
- 3 Groundwater Elevation map – March 1, 2017
- 4 Groundwater Analytical Summary Map – March 1, 2017
- 5 Groundwater Flow Direction Rose Diagram

Attachments

- 1 Groundwater Sampling Data Package
- 2 Certified Laboratory Analytical Reports and Chain of Custody Documentation

TABLES



| Well ID | Completion Date | Total Depth (feet bgs) | Well Depth (feet bgs) | Screen Interval (feet bgs) | Borehole Diameter (inches) | Casing Diameter (inches) | Destruction Date |
|---------|-----------------|------------------------|-----------------------|----------------------------|----------------------------|--------------------------|------------------|
| AS-1 | 09/08/10 | 47 | 45 | 42 - 45 | 8 | 2 | -- |
| MW-1 | 07/30/86 | 45 | 45 | 10 - 45 | 8 | 2 | -- |
| MW-2 | 07/31/86 | 35 | 35 | 10 - 35 | 8 | 2 | -- |
| MW-3 | 07/31/86 | 35 | 35 | 10 - 35 | 8 | 2 | -- |
| MW-4 | 01/29/90 | 41 | 40 | 10 - 40 | 8 | 2 | -- |
| MW-5 | 02/01/90 | 35 | 35 | 10 - 35 | 8 | 2 | -- |
| MW-6 | 02/01/90 | 35 | 35 | 15 - 35 | 8 | 2 | -- |
| MW-7 | 02/01/90 | 35 | 35 | 17 - 35 | 8 | 2 | -- |
| MW-8 | 01/25/91 | 41.5 | 40 | 20 - 40 | 8 | 2 | -- |
| MW-9 | 02/26/91 | 35 | 35 | 15 - 35 | 8 | 2 | -- |
| MW-10 | 02/27/91 | 36 | 35 | 20 - 35 | 8 | 2 | 02/03/16 |
| MW-10R | 02/03/16 | 27 | 26 | 11 - 26 | 8 | 2 | -- |
| MW-11 | 02/10/16 | 28 | 26 | 11 - 26 | 8 | 2 | -- |
| OW-1 | 09/08/10 | 40 | 42 | 20 - 40 | 8 | 2 | -- |
| RW-1 | 01/29/90 | 41.5 | 40 | 20 - 40 | 12 | 6 | -- |
| SVE-1 | 09/07/10 | 20 | 20 | 10 - 20 | 8 | 2 | -- |
| VM-1 | 09/07/10 | 20 | 20 | 10 - 20 | 8 | 2 | -- |
| VM-2 | 09/07/10 | 20 | 22 | 10 - 20 | 8 | 2 | -- |

Notes:

- AS = air sparge well
- MW = monitoring Well
- OW = observation well
- RW = groundwater recovery well
- SVE = soil vapor extraction well
- VM = soil vapor monitoring well
- bgs = below ground surface
- = not applicable

Table 2
 Current Groundwater Monitoring and Analytical Data
 CA-11132
 3201 35th Ave, Oakland CA

| Well ID | Date | Type | 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 | 03/01/2017 | | 169.75 | 12.77 | -- | 156.98 | 6,770 | 6.31 | 1.12 | 89.20 | 8.1 | 7.51 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.40 | |
| MW-2 | 03/01/2017 | | 168.14 | 11.95 | -- | 156.19 | 35,000 | 7,630 | 897 | 1,810 | 3,920 | 175 | <500 | <100 | <100 | <100 | <100 | <100 | <10,000 | 3.13 | |
| MW-3 | 03/01/2017 | | 167.17 | 10.16 | -- | 157.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 03/01/2017 | | 170.36 | 15.00 | -- | 155.36 | <100 | <1.00 | <1.00 | <1.00 | <3.00 | 2.31 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.99 | |
| MW-5 | 03/01/2017 | | 165.14 | 8.89 | -- | 156.25 | 426 | 32.8 | 1.01 | 22.6 | 8.62 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 2.65 | |
| MW-6 | 03/01/2017 | | 165.40 | 8.63 | -- | 156.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 03/01/2017 | | 168.08 | 12.75 | -- | 155.33 | <100 | <1.00 | <1.00 | <3.00 | 7.44 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.87 | |
| MW-8 | 03/01/2017 | | 165.74 | 9.40 | -- | 156.34 | 21,500 | 138 | 57.2J | 1,120 | 1,880 | <100 | <500 | <100 | <100 | <100 | <100 | <100 | <10,000 | 2.91 | |
| MW-9 | 03/01/2017 | | 166.20 | 9.44 | -- | 156.76 | 9,210 | 1.92 | <1.00 | 16.7 | 3.65 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 3.24 | |
| MW-10R | 12/14/2016 | | 166.80 | 14.81 | -- | 151.99 | 19,800 | 2,610 | 382 | 702 | 2,000 | 1.14 | 78.5 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.25 | |
| MW-10R | 03/01/2017 | | 166.80 | 11.23 | -- | 155.57 | 15,600 | 1,610 | 1,410 | 799 | 2,340 | <50.0 | <250 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <5,000 | 1.96 | |
| MW-11 | 12/14/2016 | | 165.64 | 13.09 | -- | 152.55 | 260 | <1.00 | <5.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.77 | |
| MW-11 | 03/01/2017 | | 165.64 | 10.95 | -- | 154.69 | 42.4J | <1.00 | <1.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.91 | |
| RW-1 | 03/01/2017 | | 168.01 | 10.63 | -- | 157.38 | 225 | <1.00 | <1.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 2.31 | |
| OW-1 | 03/01/2017 | | -- | 12.04 | 0.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |

Notes:

- TOC = Top of casing measured
- DTW = Depth to water
- LNAPL = Light non-aqueous phase liquid (LPH)
- 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
- DIPE = Di-isopropyl ether
- ETBE = Ethyl tert-butyl ether
- TAME = tert-Amyl methyl ether
- DO = Dissolved oxygen
- 1,2-DCA = 1,2-dichloroethane
- EDB = 1,2-dibromoethane
- ft msl = Feet above mean sea level
- J3 = The associated batch QC was outside the established quality control range for precision.
- = 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 and pH were obtained through field measurements
- GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008; the analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through August 6, 2009 and EPA method 8260B (C6-C12) from March 4, 2010 to the present

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-11132
 3201 35th Ave, Oakland CA



| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes | |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-----------|-------|
| MW-1 | 11/15/2006 | | 169.75 | 21.98 | 0.18 | 147.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 02/14/2007 | | 169.75 | 17.12 | 0.17 | 152.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 05/22/2007 | | 169.75 | 19.49 | 0.01 | 150.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 08/15/2007 | | 169.75 | 22.24 | 0.01 | 147.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 11/08/2007 | | 169.75 | 21.84 | 0.01 | 147.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 02/20/2008 | | 169.75 | 16.52 | 0.02 | 153.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 05/07/2008 | | 169.75 | 20.91 | 0.02 | 148.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 08/20/2008 | | 169.75 | 22.77 | 0.02 | 146.98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 11/17/2008 | | 169.75 | 22.05 | -- | 147.70 | 27,000 | 780 | 30 | 1,800 | 1,400 | 590 | 350 | <10 | <10 | <10 | <10 | 27 | <6,000 | -- | -- | | |
| MW-1 | 02/25/2009 | | 169.75 | 15.28 | 0.02 | 154.47 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 04/08/2009 | | 169.75 | 18.18 | -- | 151.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 05/28/2009 | | 169.75 | 19.62 | 0.01 | 150.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 06/16/2009 | | 169.75 | 20.94 | 0.01 | 148.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 08/06/2009 | | 169.75 | 22.31 | 0.01 | 147.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 03/04/2010 | | 169.75 | 14.27 | -- | 155.48 | 14,000 | 45 | <10 | 610 | 390 | <10 | <80 | <10 | <10 | <10 | <10 | <10 | <2,000 | 0.54 | -- | (P) | |
| MW-1 | 09/02/2010 | | 169.75 | 22.32 | -- | 147.43 | 8,200 | 10 | <5.0 | 230 | 140 | <5.0 | <40 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1,000 | -- | -- | (NP) | |
| MW-1 | 03/15/2011 | | 169.75 | 14.99 | -- | 154.76 | 4,500 | <5.0 | <5.0 | 56 | 30 | 16 | <40 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2,500 | -- | -- | (P,t) | |
| MW-1 | 08/17/2011 | | 169.75 | 20.41 | -- | 149.34 | 1,200 | <1.0 | <1.0 | 24 | 15 | 8.3 | <8.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <500 | -- | -- | (P) | |
| MW-1 | 02/06/2012 | | 169.75 | 18.69 | -- | 151.06 | 710 | <1.0 | <1.0 | 2.9 | 2.2 | 10 | 100 | <1.0 | <1.0 | <1.0 | <1.0(*) | <1.0 | <500 | -- | -- | (P) | |
| MW-1 | 08/21/2012 | | 169.75 | 21.77 | -- | 147.98 | 5,000 | 230 | 7.3 | 230 | 68 | 77 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | 4.3 | <1,300 | -- | -- | | |
| MW-1 | 02/04/2013 | | 169.75 | 18.36 | (Sheen) | 151.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 08/01/2013 | | 169.75 | 22.25 | 0.15 | 147.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |
| MW-1 | 02/27/2014 | | 169.75 | 19.82 | 0.07 | 149.98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 08/27/2014 | | 169.75 | 22.03 | 0.15 | 147.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-1 | 03/27/2015 | | 169.75 | 19.54 | -- | 150.21 | 7,900 | 17 | <2.5 | 110 | 25 | 13 | <100 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2,500 | 3.23 | -- | (odor, t) | |
| MW-1 | 08/27/2015 | | 169.75 | 21.64 | 0.1 | 148.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |
| MW-1 | 03/28/2016 | | 169.75 | 14.78 | -- | 154.97 | 8,110 | 6.67J | <50.0 | 59.6 | <30.0 | 5.80J | 43.5J | <10.0 | <10.0J3 | <10.0 | <10.0 | <10.0 | <1,000 | 1.75 | -- | | |
| MW-1 | 09/07/2016 | | 169.75 | 20.98 | -- | 148.77 | 9,940 | 143 | 5.44J | 123 | 15.2 | <5.00 | <25.0 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <500 | 0.22 | -- | | |
| MW-1 | 03/01/2017 | | 169.75 | 12.77 | -- | 156.98 | 6,770 | 6.31 | 1.12 | 89.20 | 8.1 | 7.51 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.40 | -- | | |
| MW-2 | 03/07/1991 | | 168.14 | 19.18 | -- | 148.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 04/01/1991 | | 168.14 | 15.21 | -- | 152.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 07/03/1992 | | 168.14 | 20.93 | -- | 147.21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 10/05/1992 | | 168.14 | 22.74 | -- | 145.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 01/13/1993 | | 168.14 | 15.55 | -- | 152.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 04/23/1993 | | 168.14 | 16.54 | -- | 151.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 07/12/1993 | | 168.14 | 20.46 | -- | 147.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 10/21/1993 | | 168.14 | 24.91 | -- | 143.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 01/21/1994 | | 168.14 | 21.20 | -- | 146.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 04/20/1994 | | 168.14 | 22.44 | -- | 145.70 | 1,800 | 140 | 370 | 54 | 290 | 24 | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | |
| MW-2 | 08/01/1994 | | 168.14 | 22.24 | -- | 145.90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 12/23/1994 | | 168.14 | 16.25 | -- | 151.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 01/26/1995 | | 168.14 | 14.55 | -- | 153.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 06/08/1995 | | 168.14 | 21.18 | -- | 146.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 08/22/1995 | | 168.14 | 22.76 | -- | 145.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 10/27/1995 | | 168.14 | 23.61 | -- | 144.53 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 01/25/1996 | | 168.14 | 15.95 | -- | 152.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 04/19/1996 | | 168.14 | 17.33 | -- | 150.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 07/23/1996 | | 168.14 | 21.25 | -- | 146.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 11/11/1996 | | 168.14 | 22.27 | -- | 145.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 01/21/1997 | | 168.14 | 15.19 | -- | 152.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 04/29/1997 | | 168.14 | 20.22 | -- | 147.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 04/30/1997 | | -- | -- | -- | -- | 130,000 | 4,600 | 15,000 | 6,000 | 37,000 | <5,000 | -- | -- | -- | -- | -- | -- | -- | -- | 5 | -- | |
| MW-2 | 08/21/1997 | | 168.14 | 21.74 | -- | 146.40 | 110,000 | 6,000 | 16,000 | 4,700 | 28,000 | <500 | -- | -- | -- | -- | -- | -- | -- | -- | 4.6 | -- | |
| MW-2 | 11/05/1997 | | 168.14 | 21.61 | -- | 146.53 | 120,000 | 7,800 | 18,000 | 4,900 | 28,100 | <2,500 | -- | -- | -- | -- | -- | -- | -- | -- | 4.6 | -- | |
| MW-2 | 02/03/1998 | | 168.14 | 11.51 | -- | 156.63 | 75,000 | 590 | 1,500 | 1,800 | 12,800 | <2,500 | -- | -- | -- | -- | -- | -- | -- | -- | 4.5 | -- | |
| MW-2 | 05/28/1998 | | 168.14 | 16.51 | -- | 151.63 | 79,000 | 3,900 | 3,100 | 3,100 | 18,000 | 900 | -- | -- | -- | -- | -- | -- | -- | -- | 4.3 | -- | |
| MW-2 | 12/30/1998 | | 168.14 | 17.70 | -- | 150.44 | 95,000 | 4,700 | 3,500 | 3,700 | 21,000 | <250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 02/02/1999 | | 168.14 | 15.46 | -- | 152.68 | 170,000 | 3,500 | 1,500 | 5,200 | 34,000 | <500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 05/10/1999 | | 168.14 | 16.52 | -- | 151.62 | 84,000 | 3,200 | 3,200 | 3,700 | 20,000 | 75 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 08/24/1999 | | 168.14 | 20.73 | -- | 147.41 | 130,000 | 9,100 | 9,200 | 4,700 | 27,000 | <250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 11/03/1999 | | 168.14 | 20.93 | -- | 147.21 | 120,000 | 10,000 | 21,000 | 4,700 | 30,200 | 2,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 03/01/2000 | | 168.14 | 13.37 | -- | 154.77 | 39,000 | 1,400 | 1,500 | 1,700 | 8,100 | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 04/21/2000 | | 168.14 | 16.59 | -- | 151.55 | 68,000 | 3,300 | 2,500 | 3,100 | 20,000 | 260 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 07/31/2000 | | 168.14 | 16.37 | -- | 151.77 | 99,000 | 5,600 | 1,400 | 4,300 | 22,000 | 490 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 11/20/2000 | | 168.14 | 19.71 | -- | 148.43 | 37,000 | 5,100 | 1,500 | 1,300 | 4,800 | 2,800 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 02/18/2001 | | 168.14 | 15.29 | -- | 152.85 | 54,000 | 5,020 | 3,880 | 2,850 | 15,400 | 1,010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 06/07/2001 | | 168.14 | 19.43 | -- | 148.71 | 110,000 | 7,240 | 4,380 | 4,160 | 22,100 | 567 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 09/05/2001 | | 168.14 | 22.44 | -- | 145.70 | 69,000 | 5,750 | 5,790 | 2,770 | 14,200 | 1,510 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 11/30/2001 | | 168.14 | 19.58 | -- | 148.56 | 120,000 | 7,270 | 6,540 | 4,590 | 23,000 | 794 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-2 | 02/20/2002 | | 168.14 | 16.39 | -- | 151.75 | 56,000 | 2,410 | 2,270 | 2,910 | | | | | | | | | | | | | |

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-11132
 3201 35th Ave, Oakland CA

| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes | |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-------|---------------|
| MW-3 | 10/27/1995 | | 167.17 | 22.43 | -- | 144.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 10/30/1995 | | -- | -- | -- | -- | 51 | 2.4 | <0.50 | <0.50 | <1.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | 6.9 | -- | |
| MW-3 | 01/25/1996 | | 167.17 | 14.03 | -- | 153.14 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 5.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 04/19/1996 | | 167.17 | 15.26 | -- | 151.91 | 460 | 55 | 4 | 33 | 63 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 9.4 | -- | |
| MW-3 | 07/23/1996 | | 167.17 | 19.19 | -- | 147.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 9.2 | -- | |
| MW-3 | 11/11/1996 | | 167.17 | 20.24 | -- | 146.93 | <250 | <2.5 | <5.0 | <5.0 | <5.0 | <50 | -- | -- | -- | -- | -- | -- | -- | -- | 8.4 | -- | |
| MW-3 | 01/21/1997 | | 167.17 | 13.09 | -- | 154.08 | <50 | <0.5 | <1.0 | <1.0 | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 5.4 | -- | |
| MW-3 | 04/29/1997 | | 167.17 | 18.14 | -- | 149.03 | <50 | <0.5 | <1.0 | <1.0 | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 4.3 | -- | |
| MW-3 | 08/21/1997 | | 167.17 | 19.64 | -- | 147.53 | <50 | <0.5 | <1.0 | <1.0 | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 4.9 | -- | |
| MW-3 | 11/05/1997 | | 167.17 | 19.95 | -- | 147.22 | <250 | <2.5 | <5.0 | <5.0 | <5.0 | <50 | -- | -- | -- | -- | -- | -- | -- | -- | 4.5 | -- | |
| MW-3 | 02/03/1998 | | 167.17 | 10.57 | -- | 156.60 | <50 | <0.50 | <1.0 | <1.0 | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 | -- | |
| MW-3 | 05/28/1998 | | 167.17 | 14.65 | -- | 152.52 | 330 | <2.5 | <5.0 | <5.0 | <5.0 | <50 | -- | -- | -- | -- | -- | -- | -- | -- | 4.2 | -- | |
| MW-3 | 12/30/1998 | | 167.17 | 16.63 | -- | 150.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/02/1999 | | 167.17 | 13.12 | -- | 154.05 | <250 | <5.0 | <5.0 | <5.0 | <5.0 | <50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 05/10/1999 | | 167.17 | 14.21 | -- | 152.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/24/1999 | | 167.17 | 14.36 | -- | 152.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/03/1999 | | 167.17 | 19.21 | -- | 147.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 03/01/2000 | | 167.17 | 15.17 | -- | 152.00 | <50 | <0.5 | 0.57 | <0.5 | 0.62 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 04/21/2000 | | 167.17 | 14.88 | -- | 152.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 07/31/2000 | | 167.17 | 15.29 | -- | 151.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/20/2000 | | 167.17 | 17.31 | -- | 149.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/18/2001 | | 167.17 | 12.85 | -- | 154.32 | 160 | 1.95 | 1.31 | 10.2 | 9.09 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 06/07/2001 | | 167.17 | 18.00 | -- | 149.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 09/05/2001 | | 167.17 | 20.32 | -- | 146.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/30/2001 | | 167.17 | 16.94 | -- | 150.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/20/2002 | | 167.17 | 14.84 | -- | 152.33 | 86 | <0.5 | 0.845 | 6.58 | 5.75 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 06/20/2002 | | 167.17 | 18.40 | -- | 148.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 09/11/2002 | | 167.17 | 20.06 | -- | 147.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/12/2002 | | 167.17 | 19.84 | -- | 147.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 01/27/2003 | | 167.17 | 14.83 | -- | 152.34 | 850 | 20 | 9.7 | 24 | 45 | 0.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 01/29/2003 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.76 | <20 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| MW-3 | 05/22/2003 | | 167.17 | 15.60 | -- | 151.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 07/28/2003 | | 167.17 | 20.12 | -- | 147.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/18/2003 | | 167.17 | 19.15 | -- | 148.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/23/2004 | | 167.17 | 13.53 | -- | 153.64 | 160 | <0.50 | 1.1 | 9.6 | 12 | <0.50 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | -- | -- | | |
| MW-3 | 05/04/2004 | | 167.17 | 18.61 | -- | 148.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/04/2004 | | 167.17 | 19.21 | -- | 147.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/10/2004 | | 167.17 | 17.48 | -- | 149.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/15/2005 | | 167.17 | 14.31 | -- | 152.86 | 500 | 7.8 | 1.8 | 9.2 | 9.6 | 1.7 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | -- | -- | | |
| MW-3 | 05/16/2005 | | 167.17 | 13.11 | -- | 154.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/17/2005 | | 167.17 | 18.53 | -- | 148.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/18/2005 | | 167.17 | 19.34 | -- | 147.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/07/2006 | | 167.17 | 11.64 | -- | 155.53 | 65 | <0.50 | <0.50 | 1.4 | 2.3 | <0.50 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | -- | -- | | |
| MW-3 | 05/19/2006 | | 167.17 | 14.88 | -- | 152.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/23/2006 | | 167.17 | 19.43 | -- | 147.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/15/2006 | | 167.17 | 19.22 | -- | 147.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/14/2007 | | 167.17 | 13.80 | -- | 153.37 | 200 | 1.1 | <0.50 | 5.9 | 3.2 | 3.8 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | 0.68 | -- | | |
| MW-3 | 05/22/2007 | | 167.17 | 16.80 | -- | 150.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/15/2007 | | 167.17 | 19.87 | -- | 147.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/08/2007 | | 167.17 | 19.27 | -- | 147.90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/20/2008 | | 167.17 | 13.58 | -- | 153.59 | 240 | 1.1 | <0.50 | 0.99 | 0.79 | 2.3 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | 2.58 | -- | | |
| MW-3 | 05/07/2008 | | 167.17 | 18.32 | -- | 148.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/20/2008 | | 167.17 | 20.29 | -- | 146.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 11/17/2008 | | 167.17 | 19.35 | -- | 147.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/25/2009 | | 167.17 | 11.77 | -- | 155.40 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | 3.45 | -- | | |
| MW-3 | 05/28/2009 | | 167.17 | 17.02 | -- | 150.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/06/2009 | | 167.17 | 19.87 | -- | 147.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 03/04/2010 | | 167.17 | 10.79 | -- | 156.38 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <4.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | 3.16 | -- | (P) | |
| MW-3 | 09/02/2010 | | 167.17 | 19.32 | -- | 147.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 03/15/2011 | | 167.17 | 11.77 | -- | 155.40 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <4.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 | -- | -- | (P) | |
| MW-3 | 08/17/2011 | | 167.17 | 17.98 | -- | 149.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/06/2012 | | 167.17 | 15.92 | -- | 151.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/21/2012 | | 167.17 | 19.42 | -- | 147.75 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/04/2013 | | 167.17 | 15.75 | -- | 151.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (slight odor) |
| MW-3 | 08/01/2013 | | 167.17 | 19.78 | -- | 147.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 02/27/2014 | | 167.17 | 16.95 | -- | 150.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/27/2014 | | 167.17 | 19.64 | -- | 147.53 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 03/27/2015 | | 167.17 | 17.16 | -- | 150.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 08/27/2015 | | 167.17 | 19.40 | -- | 147.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 03/28/2016 | | 167.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-3 | 09/07/2016 | | 167.17 | 18.75 | -- | 148.42 | 280 | <1.00 | <5.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 0.40 | -- | | |
| MW-3 | 03/01/2017 | | 167.17 | 10.16 | -- | 157.01 | | | | | | | | | | | | | | | | | |

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-11132
 3201 35th Ave, Oakland CA

| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes | |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-------|--|
| MW-4 | 12/21/1990 | | -- | -- | -- | -- | -- | -- | -- | -- | 0.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 03/07/1991 | | 170.36 | 20.72 | -- | 149.64 | -- | 2.2 | 3.8 | 1.5 | 2.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 04/01/1991 | | 170.36 | 17.49 | -- | 152.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 06/27/1991 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 07/03/1992 | | 170.36 | 22.16 | -- | 148.20 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 10/05/1992 | | 170.36 | 23.38 | -- | 146.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 01/13/1993 | | 170.36 | 17.58 | -- | 152.78 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 04/23/1993 | | 170.36 | 15.72 | -- | 154.64 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 07/12/1993 | | 170.36 | 21.74 | -- | 148.62 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 10/21/1993 | | 170.36 | 23.84 | -- | 146.52 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 01/21/1994 | | 170.36 | 22.42 | -- | 147.94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 04/20/1994 | | 170.36 | 22.66 | -- | 147.70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | 2.2 | -- | |
| MW-4 | 08/01/1994 | | 170.36 | 23.01 | -- | 147.35 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | 1.9 | -- | |
| MW-4 | 12/23/1994 | | 170.36 | 17.03 | -- | 153.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 01/26/1995 | | 170.36 | 17.42 | -- | 152.94 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.5 | -- | |
| MW-4 | 06/08/1995 | | 170.36 | 21.55 | -- | 148.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 08/22/1995 | | 170.36 | 23.47 | -- | 146.89 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | 6.4 | -- | |
| MW-4 | 10/27/1995 | | 170.36 | 24.50 | -- | 145.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 01/25/1996 | | 170.36 | 18.74 | -- | 151.62 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 04/19/1996 | | 170.36 | 18.63 | -- | 151.73 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 07/23/1996 | | 170.36 | 22.56 | -- | 147.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/11/1996 | | 170.36 | 23.63 | -- | 146.73 | <50 | <1.0 | <1.0 | <1.0 | <1.0 | 34 | -- | -- | -- | -- | -- | -- | -- | -- | 8.2 | -- | |
| MW-4 | 01/21/1997 | | 170.36 | 16.59 | -- | 153.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 04/29/1997 | | 170.36 | 21.43 | -- | 148.93 | <50 | <0.5 | <1.0 | <1.0 | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 | -- | |
| MW-4 | 08/21/1997 | | 170.36 | 22.91 | -- | 147.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/05/1997 | | 170.36 | 22.34 | -- | 148.02 | 60 | <0.5 | <1.0 | <1.0 | <1.0 | 76 | -- | -- | -- | -- | -- | -- | -- | -- | 4.9 | -- | |
| MW-4 | 02/03/1998 | | 170.36 | 12.26 | -- | 158.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 05/28/1998 | | 170.36 | 18.50 | -- | 151.86 | 70 | <0.5 | <1.0 | <1.0 | <1.0 | 160 | -- | -- | -- | -- | -- | -- | -- | -- | 4.2 | -- | |
| MW-4 | 12/30/1998 | | 170.36 | 19.69 | -- | 150.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/02/1999 | | 170.36 | 18.26 | -- | 152.10 | 70 | <1.0 | <1.0 | <1.0 | <1.0 | 130 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 05/10/1999 | | 170.36 | 17.86 | -- | 152.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 08/24/1999 | | 170.36 | 17.93 | -- | 152.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/03/1999 | | 170.36 | 22.78 | -- | 147.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 03/01/2000 | | 170.36 | 18.04 | -- | 152.32 | <50 | <0.5 | 0.67 | <0.5 | 0.7 | 110 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 04/21/2000 | | 170.36 | 17.36 | -- | 153.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 07/31/2000 | | 170.36 | 17.83 | -- | 152.53 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/20/2000 | | 170.36 | 18.91 | -- | 151.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/18/2001 | | 170.36 | 17.72 | -- | 152.64 | 88 | <0.5 | <0.5 | <0.5 | <0.5 | 97.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 06/07/2001 | | 170.36 | 20.23 | -- | 150.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 09/05/2001 | | 170.36 | 22.76 | -- | 147.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/30/2001 | | 170.36 | 21.30 | -- | 149.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/20/2002 | | 170.36 | 19.32 | -- | 151.04 | 76 | <0.5 | <0.5 | <0.5 | <1.0 | 81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 06/20/2002 | | 170.36 | 20.71 | -- | 149.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 09/11/2002 | | 170.36 | 22.22 | -- | 148.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/12/2002 | | 170.36 | 22.22 | -- | 148.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 01/29/2003 | | 170.36 | 19.80 | -- | 150.56 | 100 | <0.5 | <0.5 | <0.5 | <0.5 | 66 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <40 | -- | -- | |
| MW-4 | 05/22/2003 | | 170.36 | 19.35 | -- | 151.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 07/28/2003 | | 170.36 | 22.18 | -- | 148.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/18/2003 | | 170.36 | 21.65 | -- | 148.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/23/2004 | | 170.36 | 17.53 | -- | 152.83 | 75 | <0.50 | <0.50 | <0.50 | <0.50 | 65 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | -- | -- | |
| MW-4 | 05/04/2004 | | 170.36 | 20.62 | -- | 149.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 08/04/2004 | | 170.36 | 21.30 | -- | 149.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/10/2004 | | 170.36 | 20.65 | -- | 149.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/15/2005 | | 170.36 | 18.91 | -- | 151.45 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 62 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | -- | -- | |
| MW-4 | 05/16/2005 | | 170.36 | 17.34 | -- | 153.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 08/17/2005 | | 170.36 | 21.31 | -- | 149.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/18/2005 | | 170.36 | 21.67 | -- | 148.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/07/2006 | | 170.36 | 16.74 | -- | 153.62 | 100 | <0.50 | <0.50 | 1 | 3 | 29 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | -- | -- | |
| MW-4 | 05/19/2006 | | 170.36 | 18.22 | -- | 152.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 08/23/2006 | | 170.36 | 20.95 | -- | 149.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/15/2006 | | 170.36 | 22.21 | -- | 148.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/14/2007 | | 170.36 | 18.25 | -- | 152.11 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 61 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | 0.95 | -- | |
| MW-4 | 05/22/2007 | | 170.36 | 20.16 | -- | 150.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 08/15/2007 | | 170.36 | 22.34 | -- | 148.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/08/2007 | | 170.36 | 21.86 | -- | 148.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/20/2008 | | 170.36 | 17.74 | -- | 152.62 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 36 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | 2.13 | -- | |
| MW-4 | 05/07/2008 | | 170.36 | 21.38 | -- | 148.98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 08/20/2008 | | 170.36 | 22.44 | -- | 147.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 11/17/2008 | | 170.36 | 22.20 | -- | 148.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-4 | 02/25/2009 | | 170.36 | 16.81 | -- | 153.55 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 26 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | 2.8 | -- | -- | |
| MW-4 | 05/28/2009 | | 170.36 | 20.37 | -- | 149.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-11132
 3201 35th Ave, Oakland CA

| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-------|
| MW-6 | 02/18/2001 | | 165.40 | 11.33 | -- | 154.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 06/07/2001 | | 165.40 | 16.36 | -- | 149.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 09/05/2001 | | 165.40 | 18.61 | -- | 146.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 11/30/2001 | | 165.40 | 15.20 | -- | 150.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/20/2002 | | 165.40 | 12.74 | -- | 152.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 06/20/2002 | | 165.40 | 16.68 | -- | 148.72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 09/11/2002 | | 165.40 | 18.38 | -- | 147.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 11/12/2002 | | 165.40 | 18.78 | -- | 146.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 01/29/2003 | | 165.40 | 14.45 | -- | 150.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 05/22/2003 | | 165.40 | 14.36 | -- | 151.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 07/28/2003 | | 165.40 | 18.43 | -- | 146.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 11/18/2003 | | 165.40 | 17.48 | -- | 147.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/23/2004 | | 165.40 | 11.54 | -- | 153.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 05/04/2004 | | 165.40 | 16.58 | -- | 148.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 08/04/2004 | | 165.40 | 18.12 | -- | 147.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 11/10/2004 | | 165.40 | 15.75 | -- | 149.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/15/2005 | | 165.40 | 12.50 | -- | 152.90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 05/16/2005 | | 165.40 | 11.51 | -- | 153.89 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | -- | -- | -- |
| MW-6 | 08/17/2005 | | 165.40 | 16.85 | -- | 148.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/07/2006 | | 165.40 | 9.93 | -- | 155.47 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | -- | -- | -- |
| MW-6 | 08/23/2006 | | 165.40 | 16.35 | -- | 149.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 11/15/2006 | | 165.40 | 17.42 | -- | 147.98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/14/2007 | | 165.40 | 12.03 | -- | 153.37 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | 1.07 | -- | -- |
| MW-6 | 05/22/2007 | | 165.40 | 15.11 | -- | 150.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 08/15/2007 | | 165.40 | 18.08 | -- | 147.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 11/08/2007 | | 165.40 | 17.79 | -- | 147.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/20/2008 | | 165.40 | 11.81 | -- | 153.59 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | 1.29 | -- | -- |
| MW-6 | 05/07/2008 | | 165.40 | 16.75 | -- | 148.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/25/2009 | | 165.40 | 9.99 | -- | 155.41 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <300 | 2.39 | -- | -- |
| MW-6 | 08/06/2009 | | 165.40 | 18.33 | -- | 147.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 03/04/2010 | | 165.40 | 9.11 | -- | 156.29 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <4.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | 0.88 | -- | (P) |
| MW-6 | 09/02/2010 | | 165.40 | 17.80 | -- | 147.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 03/15/2011 | | 165.40 | 10.08 | -- | 155.32 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <4.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 | -- | -- | (P) |
| MW-6 | 08/17/2011 | | 165.40 | 16.50 | -- | 148.90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/06/2012 | | 165.40 | 14.44 | -- | 150.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 08/21/2012 | | 165.40 | 17.91 | -- | 147.49 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/04/2013 | | 165.40 | 14.13 | -- | 151.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 08/01/2013 | | 165.40 | 18.27 | -- | 147.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 02/27/2014 | | 165.40 | 15.33 | -- | 150.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 08/27/2014 | | 165.40 | 19.12 | -- | 146.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 03/27/2015 | | 165.40 | 15.58 | -- | 149.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 08/27/2015 | | 165.40 | 17.92 | -- | 147.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 03/28/2016 | | 165.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (NS) |
| MW-6 | 09/07/2016 | | 165.40 | 17.12 | -- | 148.28 | <100 | <1.00 | <5.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.63 | -- | -- |
| MW-6 | 03/01/2017 | | 165.40 | 8.63 | -- | 156.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 03/07/1991 | | 167.61 | 19.04 | -- | 148.57 | -- | -- | 0.4 | 0.3 | 2.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 04/01/1991 | | 167.61 | 15.18 | -- | 152.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 06/27/1991 | | -- | -- | -- | -- | 70 | 17 | 4 | 0.8 | 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 09/27/1991 | | -- | -- | -- | -- | -- | 0.4 | -- | -- | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 12/18/1991 | | -- | -- | -- | -- | -- | 0.7 | 2.9 | 0.8 | 3.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 07/03/1992 | | 167.61 | 20.28 | -- | 147.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 10/05/1992 | | 167.61 | 21.56 | -- | 146.05 | <50 | <0.5 | <0.5 | <0.5 | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 01/13/1993 | | 167.61 | 15.41 | -- | 152.20 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 04/23/1993 | | 167.61 | 15.84 | -- | 151.77 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 07/12/1993 | | 167.61 | 19.84 | -- | 147.77 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 10/21/1993 | | 167.61 | 21.61 | -- | 146.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 01/21/1994 | Dup | 167.61 | 20.49 | -- | 147.12 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| MW-7 | 01/21/1994 | | 167.61 | 20.49 | -- | 147.12 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 04/20/1994 | | 167.61 | 20.54 | -- | 147.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | 1.5 | -- | -- |
| MW-7 | 08/01/1994 | | 167.61 | 20.99 | -- | 146.62 | <50 | 0.7 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- | -- | -- | -- | 1.9 | -- | -- |
| MW-7 | 12/23/1994 | | 167.61 | 15.00 | -- | 152.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 01/26/1995 | | 167.61 | 14.69 | -- | 152.92 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | 7 | -- | -- |
| MW-7 | 06/08/1995 | | 167.61 | 19.87 | -- | 147.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 08/22/1995 | | 167.61 | 21.49 | -- | 146.12 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | 6.4 | -- | -- |
| MW-7 | 10/27/1995 | | 167.61 | 22.53 | -- | 145.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 01/25/1996 | | 167.61 | 17.21 | -- | 150.40 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 04/19/1996 | | 167.61 | 17.09 | -- | 150.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 07/23/1996 | | 167.61 | 21.02 | -- | 146.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 11/11/1996 | | 167.61 | 22.03 | -- | 145.58 | <50 | <0.5 | <1.0 | <1.0 | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | 7.8 | -- | -- |
| MW-7 | 01/21/1997 | | 167.61 | 15.06 | -- | 152.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 04/29/1997 | | 167.61 | 20.11 | -- | 147.50 | <50 | <0.5 | <1.0 | <1.0 | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | 4.4 | -- | -- |

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-11132
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| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes | |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-------|-----|
| MW-7 | 08/21/1997 | | 167.61 | 21.59 | -- | 146.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/05/1997 | | 167.61 | 20.05 | -- | 147.56 | <50 | <0.5 | <1.0 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 4.4 | -- | |
| MW-7 | 02/03/1998 | | 167.61 | 9.97 | -- | 157.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 05/28/1998 | | 167.61 | 13.52 | -- | 154.09 | <50 | <0.5 | <1.0 | -- | <1.0 | <10 | -- | -- | -- | -- | -- | -- | -- | -- | 4.3 | -- | |
| MW-7 | 12/30/1998 | | 167.61 | 18.33 | -- | 149.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/02/1999 | | 167.61 | 12.33 | -- | 155.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 05/10/1999 | | 167.61 | 13.52 | -- | 154.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 08/24/1999 | | 167.61 | 14.01 | -- | 153.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/03/1999 | | 167.61 | 19.91 | -- | 147.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 03/01/2000 | | 167.61 | 19.89 | -- | 147.72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 04/21/2000 | | 167.61 | 17.94 | -- | 149.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 07/31/2000 | | 167.61 | 17.33 | -- | 150.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/20/2000 | | 167.61 | 18.41 | -- | 149.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/18/2001 | | 167.61 | 15.13 | -- | 152.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 06/07/2001 | | 167.61 | 18.75 | -- | 148.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 09/05/2001 | | 167.61 | 20.48 | -- | 147.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/30/2001 | | 167.61 | 20.11 | -- | 147.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/20/2002 | | 167.61 | 18.40 | -- | 149.21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 06/20/2002 | | 167.61 | 18.62 | -- | 148.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 09/11/2002 | | 167.61 | 20.05 | -- | 147.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/12/2002 | | 167.61 | 21.13 | -- | 146.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 01/29/2003 | | 167.61 | 19.10 | -- | 148.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 05/22/2003 | | 167.61 | 18.83 | -- | 148.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 07/28/2003 | | 167.61 | 19.88 | -- | 147.73 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/18/2003 | | 167.61 | 20.50 | -- | 147.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/23/2004 | | 168.08 | 15.92 | -- | 152.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 05/04/2004 | | 168.08 | 18.86 | -- | 149.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 08/04/2004 | | 168.08 | 19.10 | -- | 148.98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/10/2004 | | 168.08 | 20.25 | -- | 147.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/15/2005 | | 168.08 | 16.37 | -- | 151.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 08/17/2005 | | 168.08 | 19.74 | -- | 148.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/18/2005 | | 168.08 | 20.82 | -- | 147.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/07/2006 | | 168.08 | 14.26 | -- | 153.82 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | 270 | <200 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <3,000 | -- | -- | |
| MW-7 | 05/19/2006 | | 168.08 | 16.51 | -- | 151.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 08/23/2006 | | 168.08 | 20.30 | -- | 147.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/15/2006 | | 168.08 | 20.85 | -- | 147.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/14/2007 | | 168.08 | 16.57 | -- | 151.51 | 520 | <5.0 | <5.0 | <5.0 | <5.0 | 740 | <200 | <5.0 | <5.0 | <5.0 | <5.0 | 9.6 | <3,000 | 3.08 | -- | -- | |
| MW-7 | 05/22/2007 | | 168.08 | 18.40 | -- | 149.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 08/15/2007 | | 168.08 | 20.85 | -- | 147.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/08/2007 | | 168.08 | 20.41 | -- | 147.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/20/2008 | | 168.08 | 15.90 | -- | 152.18 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 700 | 13 | 0.6 | <0.50 | <0.50 | <0.50 | 12 | <100 | 4.34 | -- | -- | |
| MW-7 | 05/07/2008 | | 168.08 | 19.41 | -- | 148.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 08/20/2008 | | 168.08 | 21.34 | -- | 146.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 11/17/2008 | | 168.08 | 20.54 | -- | 147.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/25/2009 | | 168.08 | 14.89 | -- | 153.19 | 130 | <20 | <20 | <20 | <20 | 540 | <400 | <20 | <20 | <20 | <20 | <20 | <20 | <12,000 | 4.28 | -- | |
| MW-7 | 05/28/2009 | | 168.08 | 18.57 | -- | 149.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 08/06/2009 | | 168.08 | 20.83 | -- | 147.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 03/04/2010 | | 168.08 | 14.02 | -- | 154.06 | 430 | <0.50 | <0.50 | <0.50 | <1.0 | 920 | 4 | 0.74 | <0.50 | <0.50 | <0.50 | 17 | <100 | 3.3 | -- | (P) | |
| MW-7 | 09/02/2010 | | 168.08 | 20.43 | -- | 147.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 03/15/2011 | | 168.08 | 14.86 | -- | 153.22 | <1,000 | <0.50 | <0.50 | <0.50 | <1.0 | 990 | 130 | 0.81 | <0.50 | <0.50 | <0.50 | 17 | <250 | -- | -- | (P) | |
| MW-7 | 08/17/2011 | | 168.08 | 19.01 | -- | 149.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/06/2012 | | 168.08 | 18.20 | -- | 149.88 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 22 | <4.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 | -- | -- | (P) |
| MW-7 | 08/21/2012 | | 168.08 | 20.29 | -- | 147.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/04/2013 | | 168.08 | 17.60 | -- | 150.48 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | 290 | <4.0 | <0.50 | <0.50 | <0.50 | <0.50 | 6.4 | <250 | -- | -- | | |
| MW-7 | 08/01/2013 | | 168.08 | 20.68 | -- | 147.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 02/27/2014 | | 168.08 | 18.86 | -- | 149.22 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 | -- | -- | |
| MW-7 | 08/27/2014 | | 168.08 | 19.65 | -- | 148.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 03/27/2015 | | 168.08 | 18.09 | -- | 149.99 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 240 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | 3.3 | <500 | 3.42 | -- | -- | |
| MW-7 | 08/27/2015 | | 168.08 | 19.59 | -- | 148.49 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 03/28/2016 | | 168.08 | 13.92 | -- | 154.16 | 222 | <1.00 | <5.00 | <1.00 | <3.00 | 458 | <5.00 | <1.00 | <1.00J3 | <1.00 | <1.00 | 7 | <100 | 2.51 | -- | -- | |
| MW-7 | 09/07/2016 | | 168.08 | 18.90 | -- | 149.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 03/01/2017 | | 168.08 | 12.75 | -- | 155.33 | <100 | <1.00 | <1.00 | <1.00 | <3.00 | 7.44 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 1.87 | -- | |
| MW-8 | 03/07/1991 | | 165.74 | 16.72 | -- | 149.02 | 2.7 | 780 | 450 | 64 | 310 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 04/01/1991 | | 165.74 | 12.54 | -- | 153.20 | 15,000 | 3,600 | 2,600 | 410 | 1,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 06/27/1991 | | -- | -- | -- | -- | 12,000 | 3,400 | 1,100 | 240 | 750 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 09/27/1991 | | -- | -- | -- | -- | 41 | 5,700 | 5,200 | 1,100 | 4,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 12/18/1991 | | -- | -- | -- | -- | 3.2 | 990 | 150 | 120 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 07/03/1992 | | 165.74 | 18.78 | -- | 146.96 | 72,000 | 19,000 | 32,000 | 3,000 | 15,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 10/05/1992 | | 165.74 | 20.48 | -- | 145.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 01/13/1993 | | 165.74 | 12.87 | -- | 152.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 04/23/1993 | | 165.74 | 13.90 | -- | 151.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-11132
 3201 35th Ave, Oakland CA



| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes | |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-------|-----|
| MW-8 | 07/12/1993 | | 165.74 | 18.30 | -- | 147.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 10/21/1993 | | 165.74 | 21.91 | -- | 142.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 01/21/1994 | | 165.74 | 19.12 | -- | 146.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 04/20/1994 | | 165.74 | 19.28 | -- | 146.46 | 26,000 | 1,700 | 4,100 | 960 | 4,000 | 632 | -- | -- | -- | -- | -- | -- | -- | -- | 1.1 | -- | |
| MW-8 | 12/23/1994 | | 165.74 | 13.81 | -- | 151.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 06/08/1995 | | 165.74 | 17.82 | -- | 147.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 08/22/1995 | | 165.74 | 19.41 | -- | 146.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 10/27/1995 | | 165.74 | 20.47 | -- | 145.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 01/25/1996 | | 165.74 | 13.35 | -- | 152.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 04/19/1996 | | 165.74 | 14.40 | -- | 151.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 07/23/1996 | | 165.74 | 18.35 | -- | 147.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 11/11/1996 | | 165.74 | 19.41 | -- | 146.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 01/21/1997 | | 165.74 | 12.29 | -- | 153.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 08/21/1997 | | 165.74 | 19.61 | -- | 146.13 | 240,000 | 1,100 | 9,300 | 4,100 | 31,100 | <1,000 | -- | -- | -- | -- | -- | -- | -- | -- | 5.2 | -- | |
| MW-8 | 11/05/1997 | | 165.74 | 19.45 | -- | 146.29 | 57,000 | 790 | 2,700 | 2,300 | 15,200 | <1,000 | -- | -- | -- | -- | -- | -- | -- | -- | 5 | -- | |
| MW-8 | 02/03/1998 | | 165.74 | 9.33 | -- | 156.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 02/04/1998 | | -- | -- | -- | -- | 94,000 | 570 | 1,500 | 2,100 | 15,200 | <2,500 | -- | -- | -- | -- | -- | -- | -- | -- | 5.5 | -- | |
| MW-8 | 12/30/1998 | | 165.74 | 15.48 | -- | 150.26 | 120,000 | 460 | 2,300 | 2,200 | 15,000 | 150 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 02/02/1999 | | 165.74 | 18.29 | -- | 147.45 | 82,000 | 450 | 2,200 | 3,700 | 26,000 | <500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 05/10/1999 | | 165.74 | 15.62 | -- | 150.12 | 28,000 | 740 | 1,800 | 1,100 | 5,800 | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 08/24/1999 | | 165.74 | 18.41 | -- | 147.33 | 75,000 | 530 | 1,400 | 3,300 | 21,000 | 150 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 11/03/1999 | | 165.74 | 18.71 | -- | 147.03 | 70,000 | 600 | 1,300 | 3,600 | 20,500 | 750 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 03/01/2000 | | 165.74 | 19.37 | -- | 146.37 | 27,000 | 1,600 | 1,200 | 2,600 | 6,600 | 120 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 11/20/2000 | | 165.74 | 17.42 | -- | 148.32 | 1,300,000 | 1,400 | 1,700 | 20,000 | 16,000 | 5,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 09/05/2001 | | 165.74 | 21.45 | 0.04 | 144.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 11/30/2001 | | 165.74 | 18.31 | -- | 147.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 02/20/2002 | | 165.74 | 14.02 | -- | 151.72 | 20,000 | 163 | 114 | 403 | 3,810 | 80.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 06/20/2002 | | 165.74 | 17.56 | -- | 148.18 | 28,000 | 466 | 141 | 962 | 5,850 | 2,520 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 09/11/2002 | | 165.74 | 19.45 | -- | 146.29 | 190,000 | 1,500 | 670 | 4,500 | 23,000 | 1,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 11/12/2002 | | 165.74 | 19.15 | -- | 146.59 | 420 | 6.4 | 2.9 | 16 | 110 | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 01/29/2003 | | 165.74 | 15.02 | -- | 150.72 | 200,000 | 810 | <500 | 2,000 | 11,000 | <500 | <2,000 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <4,000 | -- | |
| MW-8 | 05/22/2003 | | 165.74 | 15.07 | -- | 150.67 | -- | -- | -- | -- | -- | -- | <1,000 | -- | <25 | <25 | <25 | <25 | <25 | <25 | <5,000 | -- | |
| MW-8 | 06/24/2003 | | 165.74 | 17.95 | -- | 147.79 | 43,000 | 860 | 300 | 2,100 | 9,600 | 46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 07/28/2003 | | 165.74 | 19.45 | -- | 146.29 | 62,000 | 690 | 300 | 1,800 | 15,000 | 2,100 | <4,000 | <100 | <100 | <100 | <100 | <100 | <100 | <20,000 | -- | -- | |
| MW-8 | 08/12/2003 | | 165.74 | 19.40 | 0.01 | 146.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 09/12/2003 | | 165.74 | 19.34 | -- | 146.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 11/18/2003 | | 165.74 | 18.80 | 0.01 | 146.94 | 8,800 | 500 | 37 | 530 | 930 | 1,700 | <400 | -- | <10 | <10 | -- | -- | 20 | <2,000 | -- | -- | |
| MW-8 | 02/23/2004 | | 165.74 | 12.82 | 0.01 | 152.92 | 32,000 | 840 | 360 | 1,000 | 7,100 | 110 | <2,000 | <50 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | |
| MW-8 | 05/04/2004 | | 165.74 | 18.87 | 0.01 | 146.87 | 42,000 | 570 | 230 | 1,700 | 8,400 | 2,000 | <1,000 | <25 | <25 | <25 | <25 | 33 | <5,000 | -- | -- | | |
| MW-8 | 08/04/2004 | | 165.74 | 19.37 | 0.05 | 146.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 09/22/2004 | | 165.74 | 19.60 | -- | 146.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 11/10/2004 | | 165.74 | 16.58 | -- | 149.16 | 11,000 | 790 | 61 | 1,000 | 830 | 74 | <1,000 | <25 | <25 | <25 | <25 | <25 | <25 | <5,000 | -- | -- | |
| MW-8 | 02/15/2005 | | 165.74 | 12.85 | -- | 152.89 | 38,000 | 1,300 | 390 | 2,300 | 7,900 | <50 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | | |
| MW-8 | 05/16/2005 | | 165.74 | 12.22 | -- | 153.52 | 31,000 | 1,000 | 360 | 2,500 | 7,500 | <50 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | | |
| MW-8 | 08/17/2005 | | 165.74 | 17.80 | -- | 147.94 | 60,000 | 540 | 240 | 2,500 | 8,600 | <50 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | | |
| MW-8 | 11/18/2005 | | 165.74 | 21.02 | -- | 144.72 | 33,000 | 340 | 120 | 1,400 | 4,900 | 140 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | | |
| MW-8 | 02/07/2006 | | 165.74 | 10.73 | -- | 155.01 | 5,700 | 94 | 27 | 260 | 820 | 7.5 | <200 | <50 | <50 | <50 | <50 | <50 | <3,000 | -- | -- | | |
| MW-8 | 05/19/2006 | | 165.74 | 13.89 | -- | 151.85 | 40,000 | 1,100 | 320 | 2,900 | 6,000 | <25 | <1,000 | <25 | <25 | <25 | <25 | <25 | <25 | <15,000 | -- | -- | |
| MW-8 | 08/23/2006 | | 165.74 | 18.85 | -- | 146.89 | 21,000 | 520 | 150 | 1,800 | 6,300 | 82 | <1,000 | <25 | <25 | <25 | <25 | <25 | <25 | <15,000 | -- | -- | |
| MW-8 | 11/15/2006 | | 165.74 | 18.75 | -- | 146.99 | 3,300 | 81 | <25 | 130 | 430 | 110 | <1,000 | <25 | <25 | <25 | <25 | <25 | <25 | <15,000 | 0.81 | -- | |
| MW-8 | 02/14/2007 | | 165.74 | 13.45 | (Sheen) | 152.29 | 9,300 | 320 | <25 | 360 | 710 | 82 | <1,000 | <25 | <25 | <25 | <25 | <25 | <25 | <15,000 | 1.89 | -- | |
| MW-8 | 05/22/2007 | | 165.74 | 15.92 | (Sheen) | 149.82 | 17,000 | 370 | 51 | 760 | 1,600 | 11 | <400 | <10 | <10 | <10 | <10 | <10 | <10 | <6,000 | 1.05 | -- | |
| MW-8 | 08/15/2007 | | 165.74 | 19.11 | (Sheen) | 146.63 | 17,000 | 170 | 44 | 1,000 | 2,700 | 28 | <400 | <10 | <10 | <10 | <10 | <10 | <6,000 | 3.93 | -- | | |
| MW-8 | 11/08/2007 | | 165.74 | 18.46 | (Sheen) | 147.28 | 24,000 | 150 | 43 | 1,100 | 3,200 | 27 | <1,000 | <25 | <25 | <25 | <25 | <25 | <25 | <15,000 | 1.29 | -- | |
| MW-8 | 08/20/2008 | | 165.74 | 19.66 | 0.01 | 146.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 02/25/2009 | | 165.74 | 11.50 | (Sheen) | 154.24 | 3,400 | 160 | 11 | 88 | 65 | 35 | <200 | <10 | <10 | <10 | <10 | <10 | <6,000 | 2.18 | -- | | |
| MW-8 | 04/08/2009 | | 165.74 | 14.55 | -- | 151.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 05/28/2009 | | 165.74 | 16.12 | (Sheen) | 149.62 | 8,300 | 410 | 54 | 660 | 800 | <2.5 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,500 | 0.06 | -- | |
| MW-8 | 06/16/2009 | | 165.74 | 17.63 | -- | 148.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-8 | 03/04/2010 | | 165.74 | 10.33 | -- | 155.41 | 11,000 | 520 | 110 | 830 | 1,600 | <5.0 | <40 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1,000 | 0.82 | -- | (P) |
| MW-8 | 09/02/2010 | | 165.74 | 18.52 | -- | 147.22 | 6,900 | 180 | 24 | 280 | 480 | <5.0 | <40 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1,000 | -- | -- | (P) |
| MW-8 | 03/15/2011 | | 165.74 | 11.03 | -- | 154.71 | 14,000 | 470 | 150 | 1,400 | 3,000 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,200 | -- | -- | (P) | |
| MW-8 | 08/17/2011 | | 165.74 | 17.14 | -- | 148.60 | 4,100 | 180 | 24 | 280 | 340 | <5.0 | <40 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2,500 | -- | -- | (P) |
| MW-8 | 02/06/2012 | | 165.74 | 15.07 | -- | 150.67 | 5,100 | 140 | 18 | 210 | 220 | <5.0 | <40 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2,900 | -- | -- | (P) |
| MW-8 | 08/21/2012 | | 165.74 | 18.88 | -- | 146.86 | 3,600 | 220 | 25 | 170 | 170 | <5.0 | <40 | < | | | | | | | | | |

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-1132
 3201 35th Ave, Oakland CA

| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes | |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-------|-------|
| MW-8 | 09/07/2016 | | 165.74 | 17.63 | -- | 148.11 | 8,220 | 49.8 | 12.3J | 245 | 180 | <5.00 | <25.0 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 0.32 | -- | | |
| MW-8 | 03/01/2017 | | 165.74 | 9.40 | -- | 156.34 | 21,500 | 138 | 57.2J | 1,120 | 1,880 | <100 | <500 | <100 | <100 | <100 | <100 | <100 | <10,000 | 2.91 | -- | | |
| MW-9 | 03/07/1991 | | 166.20 | 16.79 | -- | 149.41 | 7.1 | 220 | 4 | 2.4 | 2,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 04/01/1991 | | 166.20 | 12.89 | -- | 153.31 | 14,000 | 2,000 | 2,600 | 360 | 1,600 | <10 | <80 | <10 | <10 | <10 | <10 | <10 | <2,000 | -- | -- | | |
| MW-9 | 06/27/1991 | | -- | -- | -- | -- | 3,600 | 520 | 400 | 85 | 310 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 09/27/1991 | | -- | -- | -- | -- | 3.2 | 720 | 150 | 50 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 12/18/1991 | | -- | -- | -- | -- | -- | 2.5 | 1.1 | 0.3 | 5.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 07/03/1992 | | 166.20 | 18.89 | -- | 147.31 | 5,700 | 17,000 | 840 | 230 | 800 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 10/05/1992 | | 166.20 | 20.52 | -- | 145.68 | 1,400 | 440 | 17 | 14 | 100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 01/13/1993 | Dup | 166.20 | 12.92 | -- | 153.28 | 11,000 | 1,200 | 1,600 | 330 | 1,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| MW-9 | 01/13/1993 | | 166.20 | 12.92 | -- | 153.28 | 11,000 | 1,200 | 1,700 | 340 | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 04/23/1993 | | 166.20 | 14.08 | -- | 152.12 | 24,000 | 2,800 | 4,500 | 730 | 3,400 | 350 | 2,600 | <5.0 | <5.0 | <5.0 | <5.0 | 12 | <1,000 | -- | -- | | |
| MW-9 | 07/12/1993 | Dup | 166.20 | 18.44 | -- | 147.76 | 10,000 | 1,200 | 900 | 310 | 1,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| MW-9 | 07/12/1993 | | 166.20 | 18.44 | -- | 147.76 | 13,000 | 1,400 | 1,100 | 360 | 1,400 | 20.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 10/21/1993 | | 166.20 | 21.81 | -- | 143.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 01/21/1994 | | 166.20 | 19.28 | -- | 146.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 04/20/1994 | Dup | 166.20 | 19.72 | -- | 146.48 | 45,000 | 2,700 | 6,800 | 1,200 | 8,200 | 740 | 160 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <500 | -- | -- | (Dup) | |
| MW-9 | 04/20/1994 | | 166.20 | 19.72 | -- | 146.48 | 43,000 | 2,800 | 6,800 | 1,300 | 7,900 | 768 | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | |
| MW-9 | 08/01/1994 | | 166.20 | 20.18 | -- | 146.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 12/23/1994 | | 166.20 | 14.22 | -- | 151.98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 01/26/1995 | | 166.20 | 11.85 | -- | 154.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 06/08/1995 | | 166.20 | 18.33 | -- | 147.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 08/22/1995 | | 166.20 | 19.95 | -- | 146.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 10/27/1995 | | 166.20 | 20.88 | -- | 145.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 01/25/1996 | | 166.20 | 13.84 | -- | 152.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 07/23/1996 | | 166.20 | 18.84 | -- | 147.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 11/11/1996 | | 166.20 | 19.91 | -- | 146.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 01/21/1997 | | 166.20 | 12.93 | -- | 153.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 04/29/1997 | | 166.20 | 18.03 | 0.1 | 148.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 04/30/1997 | | -- | -- | -- | -- | 78,000 | 1,900 | 3,600 | 3,100 | 20,600 | <5.00 | <4.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <100 | 5.5 | -- | | |
| MW-9 | 08/21/1997 | | 166.20 | 19.56 | -- | 146.64 | 110,000 | 2,100 | 3,400 | 2,300 | 18,800 | <500 | -- | -- | -- | -- | -- | -- | -- | -- | 5.1 | -- | |
| MW-9 | 11/05/1997 | | 166.20 | 20.59 | 0.01 | 145.60 | 59,000 | 1,400 | 1,700 | 2,200 | 17,000 | <500 | -- | -- | -- | -- | -- | -- | -- | -- | 4.5 | -- | |
| MW-9 | 02/03/1998 | | 166.20 | 10.56 | -- | 155.64 | 55,000 | 490 | 1,200 | 1,400 | 10,200 | <1,000 | -- | -- | -- | -- | -- | -- | -- | -- | 4.9 | -- | |
| MW-9 | 05/28/1998 | Dup | 166.20 | 14.21 | -- | 151.99 | 53,000 | 290 | 830 | 1,400 | 10,500 | <500 | <40 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1,000 | -- | -- | (Dup) |
| MW-9 | 05/28/1998 | | 166.20 | 14.21 | -- | 151.99 | 430 | 250 | 1,200 | 1,500 | 11,400 | <250 | 4 | 0.74 | <0.50 | <0.50 | <0.50 | 17 | <100 | 3.8 | -- | | |
| MW-9 | 12/30/1998 | | 166.20 | 15.61 | -- | 150.59 | 83,000 | 860 | 1,300 | 2,400 | 21,000 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 02/02/1999 | | 166.20 | 12.33 | -- | 153.87 | 75,000 | 530 | 960 | 1,900 | 17,000 | <50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 05/10/1999 | | 166.20 | 15.67 | -- | 150.53 | 22,000 | 600 | 1,500 | 1,100 | 4,400 | 72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 08/24/1999 | | 166.20 | 19.10 | -- | 147.10 | 85,000 | 850 | 1,300 | 1,700 | 20,000 | <250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 11/03/1999 | | 166.20 | 19.58 | -- | 146.62 | 72,000 | 700 | 780 | 1,900 | 19,000 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 03/01/2000 | | 166.20 | 13.19 | -- | 153.01 | 34,000 | 78 | 490 | 1,100 | 8,200 | 63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 04/21/2000 | | 166.20 | 14.29 | -- | 151.91 | 55,000 | 260 | 920 | 1,500 | 16,000 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 07/31/2000 | | 166.20 | 15.01 | -- | 151.19 | 1,200,000 | 1,500 | 6,300 | 15,000 | 120,000 | 1,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 11/20/2000 | | 166.20 | 18.23 | -- | 147.97 | 320,000 | 3,500 | 19,000 | 5,000 | 40,000 | 3,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 02/18/2001 | | 166.20 | 13.14 | -- | 153.06 | 32,000 | 290 | 417 | 1,180 | 10,400 | 121 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 06/07/2001 | | 166.20 | 17.41 | -- | 148.79 | 96,000 | 421 | 704 | 2,330 | 17,300 | 223 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 09/05/2001 | | 166.20 | 20.56 | -- | 145.64 | 39,000 | 445 | 323 | 1,240 | 8,940 | 310 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 11/30/2001 | | 166.20 | 17.42 | -- | 148.78 | 60,000 | 310 | 586 | 1,890 | 14,200 | 285 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 02/20/2002 | | 166.20 | 13.87 | -- | 152.33 | 14,000 | 64 | 122 | 897 | 2,650 | 293 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 06/20/2002 | | 166.20 | 18.22 | -- | 147.98 | 29,000 | 307 | 168 | 1,100 | 5,670 | 208 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 09/11/2002 | | 166.20 | 20.27 | -- | 145.93 | 230,000 | 1,400 | 680 | 3,600 | 23,000 | <2,500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 11/12/2002 | | 166.20 | 19.40 | -- | 146.80 | 840 | 5.8 | 3.6 | 28 | 160 | 21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 01/29/2003 | | 166.20 | 14.30 | 0.1 | 151.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 05/22/2003 | | 166.20 | 15.16 | -- | 151.04 | 23,000 | 420 | <50 | 1,000 | 2,900 | <50 | 38 | <0.50 | <50 | <50 | <0.50 | <50 | <100 | -- | -- | | |
| MW-9 | 07/28/2003 | | 166.20 | 19.55 | 0.01 | 146.65 | 1,500,000 | <500 | <500 | 9,800 | 79,000 | <500 | <20,000 | <500 | <500 | <500 | <500 | <500 | <100,000 | -- | -- | | |
| MW-9 | 08/12/2003 | | 166.20 | 19.60 | 0.01 | 146.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 09/12/2003 | | 166.20 | 19.60 | 0.01 | 146.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 11/18/2003 | | 166.20 | 18.98 | 0.01 | 147.22 | 19,000 | 250 | 18 | 690 | 2,400 | 45 | <400 | <10 | <10 | <10 | <10 | <10 | <2,000 | -- | -- | | |
| MW-9 | 02/23/2004 | | 166.20 | 13.91 | 0.01 | 152.29 | 91,000 | <250 | 440 | 2,200 | 13,000 | <250 | <10,000 | <250 | <250 | <250 | <250 | <250 | <50,000 | -- | -- | | |
| MW-9 | 05/04/2004 | | 166.20 | 18.11 | 0.01 | 148.09 | 39,000 | 230 | 44 | 1,100 | 4,200 | <25 | <1,000 | <25 | <25 | <25 | <25 | <25 | <5,000 | -- | -- | | |
| MW-9 | 08/04/2004 | | 166.20 | 18.90 | 0.03 | 147.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 09/22/2004 | | 166.20 | 19.69 | -- | 146.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 11/10/2004 | | 166.20 | 16.95 | -- | 149.25 | 31,000 | 300 | <50 | 1,100 | 3,800 | <50 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | | |
| MW-9 | 02/15/2005 | | 166.20 | 12.95 | -- | 153.25 | 19,000 | 200 | <50 | 720 | 2,000 | <50 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | | |
| MW-9 | 05/16/2005 | | 166.20 | 12.53 | -- | 153.67 | 17,000 | 99 | 15 | 770 | 2,500 | <10 | 4.4 | <10 | <10 | <10 | <10 | <10 | <2,000 | -- | -- | | |
| MW-9 | 08/17/2005 | | 166.20 | 18.03 | -- | 148.17 | 28,000 | 160 | 26 | 1,000 | 2,700 | <12 | <500 | <12 | <12 | <12 | <12 | <12 | <2,500 | -- | -- | | |
| MW-9 | 11/18/2005 | | 166.20 | 19.04 | -- | 147.16 | 12,000 | 98</ | | | | | | | | | | | | | | | |

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-11132
 3201 35th Ave, Oakland CA



| Well ID | Date | Type | 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) | NAPL (µg/L) | Notes | |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|--------|-----|
| MW-9 | 05/22/2007 | | 166.20 | 16.14 | (Sheen) | 150.06 | 16,000 | 80 | <25 | 460 | 1,200 | <25 | <1,000 | <25 | <25 | <25 | <25 | <25 | <15,000 | 0.81 | -- | | |
| MW-9 | 08/15/2007 | | 166.20 | 19.31 | (Sheen) | 146.89 | 5,900 | 27 | <2.5 | 59 | 170 | 27 | <100 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,500 | 2.57 | -- | | |
| MW-9 | 11/08/2007 | | 166.20 | 18.70 | -- | 147.50 | 6,100 | 29 | <5.0 | 98 | 250 | 52 | <200 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <3,000 | 1.24 | -- | | |
| MW-9 | 02/20/2008 | | 166.20 | 12.79 | 0.03 | 153.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-9 | 05/07/2008 | | 166.20 | 17.68 | 0.03 | 148.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-9 | 08/20/2008 | | 166.20 | 19.75 | 0.01 | 146.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-9 | 11/17/2008 | | 166.20 | 18.73 | -- | 147.47 | 10,000 | 24 | <2.5 | 160 | 140 | 33 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,500 | -- | -- | | |
| MW-9 | 02/25/2009 | | 166.20 | 11.23 | (Sheen) | 154.97 | 14,000 | 60 | <10 | 550 | 140 | <10 | <200 | <10 | <10 | <10 | <10 | <10 | <6,000 | 2.27 | -- | | |
| MW-9 | 04/08/2009 | | 166.20 | 14.21 | -- | 151.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-9 | 05/28/2009 | | 166.20 | 16.33 | (Sheen) | 149.87 | 8,000 | 49 | <2.5 | 790 | 140 | <2.5 | <200 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <6,000 | 0.07 | -- | | |
| MW-9 | 06/16/2009 | | 166.20 | 17.82 | 0.01 | 148.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-9 | 08/06/2009 | | 166.20 | 19.25 | (Sheen) | 146.95 | 6,800 | 19 | <2.0 | 120 | 250 | 18 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1,200 | 0 | -- | | |
| MW-9 | 03/04/2010 | | 166.20 | 10.32 | -- | 155.88 | 6,000 | 29 | <2.5 | <2.5 | 100 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <500 | 0.62 | -- | (P) | |
| MW-9 | 09/02/2010 | | 166.20 | 18.72 | -- | 147.48 | 5,700 | 31 | <2.5 | 160 | 120 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <500 | -- | -- | (NP) | |
| MW-9 | 03/15/2011 | | 166.20 | 11.08 | -- | 155.12 | 6,500 | 17 | <2.5 | 150 | 73 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,200 | -- | -- | (P) | |
| MW-9 | 08/17/2011 | | 166.20 | 17.35 | -- | 148.85 | 5,200 | 9.5 | <2.5 | 71 | 54 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,300 | -- | -- | | |
| MW-9 | 02/06/2012 | | 166.20 | 15.52 | -- | 150.68 | 4,200 | 14 | <2.5 | 49 | 22 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,300 | -- | -- | (P) |
| MW-9 | 08/21/2012 | | 166.20 | 18.79 | -- | 147.41 | 4,200 | 22 | <2.5 | 42 | 21 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,300 | -- | -- | | |
| MW-9 | 02/04/2013 | | 166.20 | 14.16 | -- | 152.04 | 4,100 | 4.8 | <2.5 | 34 | 13 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,300 | -- | -- | | |
| MW-9 | 08/01/2013 | | 166.20 | 19.16 | -- | 147.04 | 5,500 | 4.8 | <2.5 | 36 | 21 | <2.5 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,300 | -- | -- | | |
| MW-9 | 02/27/2014 | | 166.20 | 16.27 | -- | 149.93 | 6,300 | 9.1 | <2.5 | 36 | 11 | <2.5 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,300 | -- | -- | | |
| MW-9 | 08/27/2014 | | 166.20 | 18.94 | -- | 147.26 | 5,400 | 8.5 | <2.5 | 41 | 6.3 | <2.5 | <100 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2,500 | 0.2 | 17 | (odor) | |
| MW-9 | 03/27/2015 | | 166.20 | 16.42 | -- | 149.78 | 6,500 | 7.8 | <2.5 | 38 | 5.6 | <2.5 | <100 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2,500 | 1.96 | -- | | |
| MW-9 | 08/27/2015 | | 166.20 | 18.69 | -- | 147.51 | 10,000 | 10.7 | <5.00 | 21.7 | 2.86J | <1.00 | <10,000 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 2.59 | -- | | |
| MW-9 | 03/28/2016 | | 166.20 | 10.96 | -- | 155.24 | 7,630 | 4.41 | <5.00 | 26.8 | 6.32 | <1.00 | <5.00 | <1.00 | <1.00J3 | <1.00 | <1.00 | <1.00 | <100 | 3.96 | -- | | |
| MW-9 | 09/07/2016 | | 166.20 | 17.89 | -- | 148.31 | 7,730 | 7.22 | <5.00 | 17.4 | 2.7J | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 0.24 | -- | | |
| MW-9 | 03/01/2017 | | 166.20 | 9.44 | -- | 156.76 | 9,210 | 1.92 | <1.00 | 16.7 | 3.65 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 3.24 | -- | | |
| MW-10 | 03/07/1991 | | 167.01 | 18.09 | -- | 148.92 | 1.6 | 120 | 190 | 32 | 230 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 04/01/1991 | | 167.01 | 13.92 | -- | 153.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 06/27/1991 | | -- | -- | -- | -- | 12,000 | 7,300 | 500 | 150 | 300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 09/27/1991 | | -- | -- | -- | -- | 57 | 12,000 | 7,200 | 1,400 | 4,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 12/18/1991 | | -- | -- | -- | -- | 5.3 | 2,500 | 120 | 36 | 79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 07/03/1992 | | 167.01 | 19.92 | -- | 147.09 | 8,600 | 5,100 | 1,300 | 180 | 690 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 10/05/1992 | | 167.01 | 21.92 | -- | 145.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 01/13/1993 | | 167.01 | 14.43 | -- | 152.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 04/23/1993 | | 167.01 | 15.26 | -- | 151.75 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 07/12/1993 | | 167.01 | 19.78 | -- | 147.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 10/21/1993 | | 167.01 | 22.90 | -- | 144.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 01/21/1994 | | 167.01 | 20.25 | -- | 146.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 04/20/1994 | | 167.01 | 20.74 | -- | 146.27 | 100,000 | 12,000 | 24,000 | 2,400 | 14,000 | 1,577 | -- | -- | -- | -- | -- | -- | -- | 1 | -- | | |
| MW-10 | 08/01/1994 | | 167.01 | 22.00 | -- | 145.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 12/23/1994 | | 167.01 | 16.08 | -- | 150.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 01/26/1995 | | 167.01 | 13.68 | -- | 153.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 06/08/1995 | | 167.01 | 19.08 | -- | 147.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 08/22/1995 | | 167.01 | 20.73 | -- | 146.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 10/27/1995 | | 167.01 | 21.69 | -- | 145.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 01/25/1996 | | 167.01 | 15.05 | -- | 151.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 04/19/1996 | | 167.01 | 16.26 | -- | 150.75 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 07/23/1996 | | 167.01 | 20.18 | -- | 146.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 11/11/1996 | | 167.01 | 21.20 | -- | 145.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 01/21/1997 | | 167.01 | 13.66 | -- | 153.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 04/29/1997 | | 167.01 | 18.71 | -- | 148.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 04/30/1997 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 08/21/1997 | | 167.01 | 20.19 | -- | 146.82 | 170,000 | 9,700 | 38,000 | 4,700 | 30,500 | <5,000 | -- | -- | -- | -- | -- | -- | -- | 5.6 | -- | | |
| MW-10 | 11/05/1997 | | 167.01 | 20.52 | -- | 146.49 | 80,000 | 3,800 | 12,000 | 2,700 | 15,700 | <500 | -- | -- | -- | -- | -- | -- | -- | 4.4 | -- | | |
| MW-10 | 02/03/1998 | | 167.01 | 10.62 | -- | 156.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 02/04/1998 | | -- | -- | -- | -- | 72,000 | 500 | 1,300 | 1,700 | 12,000 | <1,000 | -- | -- | -- | -- | -- | -- | -- | 5.1 | -- | | |
| MW-10 | 05/28/1998 | | 167.01 | 15.46 | -- | 151.55 | 220,000 | 3,200 | 24,000 | 5,200 | 43,000 | <1,000 | -- | -- | -- | -- | -- | -- | -- | 4.8 | -- | | |
| MW-10 | 12/30/1998 | | 167.01 | 16.65 | -- | 150.36 | 110,000 | 3,500 | 14,000 | 5,800 | 50,000 | <50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 02/02/1999 | | 167.01 | 14.58 | -- | 152.43 | 74,000 | 1,000 | 2,800 | 1,000 | 26,000 | 860 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 05/10/1999 | | 167.01 | 15.72 | -- | 151.29 | 81,000 | 2,800 | 2,800 | 3,000 | 17,000 | 220 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 08/24/1999 | | 167.01 | 19.85 | -- | 147.16 | 54,000 | 3,500 | 3,800 | 1,500 | 9,100 | <250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 11/03/1999 | | 167.01 | 20.00 | -- | 147.01 | 30,000 | 3,000 | 3,500 | 1,200 | 5,000 | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 03/01/2000 | | 167.01 | 14.62 | -- | 152.39 | 62,000 | 320 | 1,200 | 1,100 | 26,000 | 4,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 04/21/2000 | | 167.01 | 15.46 | -- | 151.55 | 88,000 | 2,700 | 7,400 | 3,700 | 35,000 | 2,400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 11/20/2000 | | 167.01 | 18.74 | -- | 148.27 | 78,000 | 3,800 | 5,500 | 2,800 | 13,000 | 450 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 02/18/2001 | | 167.01 | 14.10 | -- | 152.91 | 39,000 | 1,050 | 1,160 | 1,550 | 14,700 | 4,180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| MW-10 | 06/07/2001 | | 167.01 | 18.78 | -- | 148.23 | 76,000 | 2,480 | 2,840 | 3,330 | 2 | | | | | | | | | | | | |

Table 3
Historical Groundwater Monitoring and Analytical Data
CA-11132
3201 35th Ave, Oakland CA



| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|-----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-------|
| MW-10 | 06/20/2002 | | 167.01 | 18.80 | -- | 148.21 | 44,000 | 2,040 | 3,050 | 1,690 | 8,430 | 224 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 09/11/2002 | | 167.01 | 20.52 | -- | 146.49 | 28,000 | 1,200 | 2,700 | 1,400 | 6,800 | <250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 11/12/2002 | | 167.01 | 20.37 | 0.07 | 146.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 01/29/2003 | | 167.01 | 16.33 | 0.03 | 150.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 05/22/2003 | | 167.01 | 16.32 | -- | 150.69 | 13,000 | 2,100 | 850 | 630 | 1,600 | 300 | <2,000 | -- | <50 | <50 | -- | <50 | <10,000 | -- | -- | -- |
| MW-10 | 06/24/2003 | | 167.01 | 18.73 | 0.04 | 148.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 07/28/2003 | | 167.01 | 20.39 | 0.04 | 146.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 08/12/2003 | | 167.01 | 20.43 | 0.01 | 146.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 09/12/2003 | | 167.01 | 20.41 | -- | 146.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 11/18/2003 | | 167.01 | 19.55 | 0.01 | 147.46 | 9,900 | 2,200 | 530 | 320 | 860 | <50 | <2,000 | -- | <50 | <50 | -- | <50 | <10,000 | -- | -- | -- |
| MW-10 | 02/23/2004 | | 167.01 | 15.45 | 0.01 | 151.56 | 46,000 | 1,900 | 2,000 | 1,800 | 9,000 | 180 | <4,000 | <100 | <100 | <100 | <100 | <100 | <20,000 | -- | -- | -- |
| MW-10 | 05/04/2004 | | 167.01 | 18.81 | 0.01 | 148.20 | 35,000 | 3,100 | 3,600 | 1,400 | 5,600 | <25 | <1,000 | <25 | <25 | <25 | <25 | <25 | <5,000 | -- | -- | -- |
| MW-10 | 08/04/2004 | | 167.01 | 18.90 | -- | 148.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 09/22/2004 | | 167.01 | 20.60 | -- | 146.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 11/10/2004 | | 167.01 | 17.95 | -- | 149.06 | 9,800 | 470 | 91 | 450 | 1,700 | 230 | <1,000 | <25 | <25 | <25 | <25 | <25 | <5,000 | -- | -- | -- |
| MW-10 | 01/13/2005 | | 167.01 | 12.21 | -- | 154.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 02/15/2005 | | 167.01 | 14.19 | -- | 152.82 | 30,000 | 510 | 330 | 1,800 | 7,200 | 77 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | -- |
| MW-10 | 05/16/2005 | | 167.01 | 13.85 | -- | 153.16 | 37,000 | 540 | 730 | 2,100 | 9,200 | <50 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | -- |
| MW-10 | 08/17/2005 | | 167.01 | 19.01 | -- | 148.00 | 15,000 | 1,100 | 420 | 1,200 | 4,100 | <50 | <2,000 | <50 | <50 | <50 | <50 | <50 | <10,000 | -- | -- | -- |
| MW-10 | 11/18/2005 | | 167.01 | 19.95 | -- | 147.06 | 12,000 | 1,200 | 240 | 550 | 1,300 | 16 | <500 | <12 | <12 | <12 | <12 | <12 | <2,500 | -- | -- | -- |
| MW-10 | 02/07/2006 | | 167.01 | 12.28 | (Sheen) | 154.73 | 22,000 | 340 | 580 | 1,300 | 4,500 | 73 | <1,000 | <25 | <25 | <25 | <25 | <25 | <15,000 | -- | -- | -- |
| MW-10 | 05/19/2006 | | 167.01 | 15.12 | -- | 151.89 | 40,000 | 690 | 430 | 2,600 | 4,900 | <25 | <1,000 | <25 | <25 | <25 | <25 | <25 | <15,000 | -- | -- | -- |
| MW-10 | 08/23/2006 | | 167.01 | 20.00 | -- | 147.01 | 13,000 | 1,500 | 540 | 1,200 | 3,000 | <10 | <400 | <10 | <10 | <10 | <10 | <10 | <6,000 | -- | -- | -- |
| MW-10 | 11/15/2006 | | 167.01 | 19.84 | -- | 147.17 | 3,800 | 700 | 22 | 67 | 160 | 54 | <400 | <10 | <10 | <10 | <10 | <10 | <6,000 | 0.65 | -- | -- |
| MW-10 | 02/14/2007 | | 167.01 | 14.94 | (Sheen) | 152.07 | 37,000 | 350 | 120 | 2,400 | 8,100 | 120 | <400 | <10 | <10 | <10 | <25 | <10 | <6,000 | 2.12 | -- | -- |
| MW-10 | 05/22/2007 | | 167.01 | 17.17 | (Sheen) | 149.84 | 13,000 | 810 | 130 | 750 | 2,200 | 15 | <400 | <10 | <10 | <10 | <10 | <10 | <6,000 | 0.06 | -- | -- |
| MW-10 | 08/15/2007 | | 167.01 | 20.30 | (Sheen) | 146.71 | 4,400 | 550 | 38 | 160 | 310 | <10 | <400 | <10 | <10 | <10 | <10 | <10 | <6,000 | 3.09 | -- | -- |
| MW-10 | 11/08/2007 | | 167.01 | 19.58 | (Sheen) | 147.43 | 13,000 | 970 | 130 | 480 | 1,600 | 6 | <200 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <3,000 | 1.47 | -- | -- |
| MW-10 | 02/20/2008 | | 167.01 | 14.27 | 0.05 | 152.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 05/07/2008 | | 167.01 | 18.61 | -- | 148.40 | 16,000 | 970 | 150 | 770 | 2,000 | <20 | <400 | <20 | <20 | <20 | <20 | <20 | <12,000 | 2.18 | -- | -- |
| MW-10 | 08/20/2008 | | 167.01 | 20.71 | 0.01 | 146.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 11/17/2008 | | 167.01 | 19.71 | -- | 147.30 | 10,000 | 960 | 57 | 270 | 720 | 23 | <400 | <20 | <20 | <20 | <20 | <20 | <12,000 | -- | -- | -- |
| MW-10 | 02/25/2009 | | 167.01 | 13.10 | -- | 153.91 | 2,900 | 53 | 14 | 69 | 160 | 170 | 280 | <10 | <10 | <10 | <10 | <10 | <6,000 | 4.06 | -- | -- |
| MW-10 | 04/08/2009 | | 167.01 | 15.91 | -- | 151.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 05/28/2009 | | 167.01 | 17.37 | (Sheen) | 149.64 | 15,000 | 640 | 280 | 790 | 2,500 | 65 | 110 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,500 | 0.03 | -- | -- |
| MW-10 | 06/16/2009 | | 167.01 | 18.79 | 0.01 | 148.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 08/06/2009 | | 167.01 | 20.19 | (Sheen) | 146.82 | 23,000 | 850 | 490 | 1,200 | 4,100 | <25 | <500 | <25 | <25 | <25 | <25 | <25 | <15,000 | 0.06 | -- | -- |
| MW-10 | 03/04/2010 | | 167.01 | 12.32 | -- | 154.69 | 12,000 | 71 | 72 | 740 | 1,800 | <2.5 | 160 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <500 | 0.56 | -- | (P) |
| MW-10 | 09/02/2010 | | 167.01 | 19.63 | -- | 147.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (b.i) |
| MW-10 | 03/15/2011 | | 167.01 | 13.20 | -- | 153.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (b.i) |
| MW-10 | 08/17/2011 | | 167.01 | 18.27 | -- | 148.74 | 4,000 | 780 | 39 | 250 | 290 | <5.0 | <40 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <2,500 | -- | -- | (P) |
| MW-10 | 02/06/2012 | | 167.01 | 16.32 | -- | 150.69 | 6,300 | 1,100 | 39 | 340 | 470 | <5.0 | <40 | <5.0 | <5.0 | <5.0 | <5.0(*) | <5.0 | <2,500 | -- | -- | (P) |
| MW-10 | 08/21/2012 | | 167.01 | 19.66 | 0.02 | 147.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |
| MW-10 | 02/04/2013 | | 167.01 | 15.75 | (Sheen) | 151.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 08/01/2013 | | 167.01 | 20.03 | 0.01 | 146.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |
| MW-10 | 02/27/2014 | | 167.01 | 17.65 | 0.01 | 149.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 08/27/2014 | | 167.01 | 19.69 | 0.01 | 147.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 03/27/2015 | | 167.01 | 17.19 | 0.01 | 149.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (b.i) |
| MW-10 | 08/27/2015 | | 167.01 | 19.26 | 0.02 | 147.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |
| MW-10R | 03/28/2016 | | 166.80 | 12.50 | -- | 154.30 | 38,000 | 3,830 | 2,810 | 1,130 | 5,310 | 1.3 | 40.5 | <1.00 | <1.00J3 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.82 | -- |
| MW-10R | 06/19/2016 | | 166.80 | 17.51 | -- | 149.29 | 24,800 | 447 | 68.8 | 1,090 | 1,950 | <1.00 | 18.9 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 0.32 | -- |
| MW-10R | 09/07/2016 | | 166.80 | 18.43 | -- | 148.37 | 32,300 | 2,520 | 693 | 3,010 | 8,140 | <5.00 | <250 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <5,000 | 0.24 | -- | -- |
| MW-10R | 12/14/2016 | | 166.80 | 14.81 | -- | 151.99 | 19,800 | 2,610 | 382 | 702 | 2,000 | 1.14 | 78.5 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.25 | -- |
| MW-10R | 03/01/2017 | | 166.80 | 11.23 | -- | 155.57 | 15,600 | 1,610 | 1,410 | 799 | 2,340 | <50.0 | <250 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <5,000 | 1.96 | -- | -- |
| MW-11 | 03/28/2016 | | 165.64 | 11.32 | -- | 154.32 | <100 | <1.00 | <5.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00J3 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.12 | -- |
| MW-11 | 06/19/2016 | | 165.64 | 15.71 | -- | 149.93 | 197 | <1.00 | <5.00 | <1.00 | <3.00(J3) | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 0.35 | -- |
| MW-11 | 09/07/2016 | | 165.64 | 17.91 | -- | 147.73 | 244 | <1.00 | <5.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 0.20 | -- |
| MW-11 | 12/14/2016 | | 165.64 | 13.09 | -- | 152.55 | 260 | <1.00 | <5.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.77 | -- |
| MW-11 | 03/01/2017 | | 165.64 | 10.95 | -- | 154.69 | 42.4J | <1.00 | <1.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.91 | -- |
| RW-1 | 03/07/1991 | | 168.01 | 17.62 | -- | 150.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| RW-1 | 04/01/1991 | | 168.01 | 14.40 | -- | 153.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| RW-1 | 07/03/1992 | | 168.01 | 20.66 | -- | 147.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| RW-1 | 10/05/1992 | | 168.01 | 23.34 | -- | 144.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| RW-1 | 01/13/1993 | | 168.01 | 16 | | | | | | | | | | | | | | | | | | |

Table 3
 Historical Groundwater Monitoring and Analytical Data
 CA-1132
 3201 35th Ave, Oakland CA



| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|-------|
| RW-1 | 08/01/1994 | | 168.01 | 21.70 | -- | 146.31 | 29,000 | 580 | 950 | 300 | 7,800 | 1,200 | -- | -- | -- | -- | -- | -- | -- | 1.1 | -- | |
| RW-1 | 12/23/1994 | | 168.01 | 16.02 | -- | 151.99 | 1,300 | 25 | 8.6 | 1.4 | 69 | 616 | -- | -- | -- | -- | -- | -- | -- | 1.8 | -- | |
| RW-1 | 01/26/1995 | Dup | 168.01 | 13.78 | -- | 154.23 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| RW-1 | 01/26/1995 | | 168.01 | 13.78 | -- | 154.23 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 06/08/1995 | | 168.01 | 20.05 | -- | 147.96 | 1,300 | 130 | <1.0 | <1.0 | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/22/1995 | Dup | 168.01 | 21.74 | -- | 146.27 | 3,300 | 230 | 13 | 4.9 | 280 | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| RW-1 | 08/22/1995 | | 168.01 | 21.74 | -- | 146.27 | 2,800 | 210 | 9.3 | 4.3 | 250 | <25 | -- | -- | -- | -- | -- | -- | -- | 6.6 | -- | |
| RW-1 | 10/27/1995 | | 168.01 | 32.00 | -- | 136.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 10/30/1995 | Dup | -- | -- | -- | -- | 240 | 1.6 | <1.0 | <1.0 | <2.0 | 630 | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| RW-1 | 10/30/1995 | | -- | -- | -- | -- | 230 | 1.4 | <1.0 | <1.0 | <2.0 | 650 | -- | -- | -- | -- | -- | -- | -- | 6.9 | -- | |
| RW-1 | 01/25/1996 | | 168.01 | 15.41 | -- | 152.60 | 15,000 | 3,400 | 930 | 330 | 2,500 | 5,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 04/19/1996 | Dup | 168.01 | 16.83 | -- | 151.18 | 33,000 | 5,600 | 3,200 | 1,700 | 8,800 | 15,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| RW-1 | 04/19/1996 | | 168.01 | 16.83 | -- | 151.18 | 35,000 | 5,500 | 3,300 | 1,700 | 9,400 | 14,000 | -- | -- | -- | -- | -- | -- | -- | 7.6 | -- | |
| RW-1 | 07/23/1996 | Dup | 168.01 | 20.76 | -- | 147.25 | 47,000 | 3,700 | 2,500 | 930 | 5,300 | 35,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| RW-1 | 07/23/1996 | | 168.01 | 20.76 | -- | 147.25 | 46,000 | 3,600 | 2,300 | 900 | 5,100 | 36,000 | -- | -- | -- | -- | -- | -- | -- | 7.4 | -- | |
| RW-1 | 11/11/1996 | Dup | 168.01 | 21.73 | -- | 146.28 | 31,000 | 2,900 | 1,000 | 860 | 4,600 | 22,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| RW-1 | 11/11/1996 | | 168.01 | 21.73 | -- | 146.28 | 34,000 | 3,000 | 1,200 | 880 | 4,600 | 22,000 | -- | -- | -- | -- | -- | -- | -- | 8.3 | -- | |
| RW-1 | 01/21/1997 | Dup | 168.01 | 14.20 | -- | 153.81 | 270 | 42 | 17 | 2.7 | 36 | 1,500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | (Dup) |
| RW-1 | 01/21/1997 | | 168.01 | 14.20 | -- | 153.81 | 260 | 40 | 16 | 2.7 | 34 | 1,500 | -- | -- | -- | -- | -- | -- | -- | 6.1 | -- | |
| RW-1 | 04/29/1997 | | 168.01 | 19.15 | -- | 148.86 | 32,000 | 3,100 | 590 | 1,300 | 6,000 | 46,000 | -- | -- | -- | -- | -- | -- | -- | 5.3 | -- | |
| RW-1 | 08/21/1997 | | 168.01 | 20.67 | -- | 147.34 | 7,600 | 730 | 58 | 370 | 1,780 | 9,500 | -- | -- | -- | -- | -- | -- | -- | 4.7 | -- | |
| RW-1 | 11/05/1997 | | 168.01 | 21.01 | -- | 147.00 | 39,000 | 2,300 | 86 | 1,300 | 3,840 | 56,000 | -- | -- | -- | -- | -- | -- | -- | 4.5 | -- | |
| RW-1 | 02/03/1998 | | 168.01 | 10.68 | -- | 157.33 | 3,400 | 31 | 11 | 29 | 161 | 3,200 | -- | -- | -- | -- | -- | -- | -- | 5.1 | -- | |
| RW-1 | 05/28/1998 | | 168.01 | 15.55 | -- | 152.46 | 2,000 | 90 | 15 | 60 | 305 | 2,700 | -- | -- | -- | -- | -- | -- | -- | 4.3 | -- | |
| RW-1 | 12/30/1998 | | 168.01 | 17.35 | -- | 150.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 02/02/1999 | | 168.01 | 14.58 | -- | 153.43 | 82,000 | 2,300 | 120 | 2,000 | 3,200 | 78,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 05/10/1999 | | 168.01 | 16.00 | -- | 152.01 | 15,000 | 620 | 88 | 340 | 660 | 61,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/24/1999 | | 168.01 | 20.00 | -- | 148.01 | 52,000 | 1,400 | 170 | 2,200 | 2,900 | 37,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/03/1999 | | 168.01 | 20.39 | -- | 147.62 | 17,000 | 2,500 | 86 | 1,500 | 970 | 54,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 03/01/2000 | | 168.01 | 12.97 | -- | 155.04 | 17,000 | 580 | 78 | 790 | 1,100 | 13,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 04/21/2000 | | 168.01 | 16.02 | -- | 151.99 | 31,000 | 2,100 | 100 | 1,400 | 1,100 | 39,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 07/31/2000 | | 168.01 | 21.89 | -- | 146.12 | 47,000 | 1,300 | 170 | 2,700 | 2,300 | 30,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/20/2000 | | 168.01 | 19.15 | -- | 148.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 02/18/2001 | | 168.01 | 15.35 | -- | 152.66 | 14,000 | 589 | 89 | 600 | 712 | 13,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 06/07/2001 | | 168.01 | 19.09 | -- | 148.92 | 28,000 | 1,140 | 68.2 | 504 | 530 | 19,100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 09/05/2001 | | 168.01 | 22.06 | 0.02 | 145.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/30/2001 | | 168.01 | 19.53 | -- | 148.48 | 20,000 | 405 | 39.4 | 545 | 740 | 8,260 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 02/20/2002 | | 168.01 | 15.99 | -- | 152.02 | 13,000 | 469 | 29 | 434 | 655 | 7,240 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 06/20/2002 | | 168.01 | 19.31 | -- | 148.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 09/11/2002 | | 168.01 | 21.07 | 0.03 | 146.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/12/2002 | | 168.01 | 20.92 | 0.02 | 147.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 01/29/2003 | | 168.01 | 16.31 | 0.04 | 151.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 05/22/2003 | | 168.01 | 16.68 | -- | 151.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 06/24/2003 | | 168.01 | 19.76 | 0.07 | 148.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 07/28/2003 | | 168.01 | 21.04 | 0.04 | 146.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/12/2003 | | 168.01 | 21.41 | 0.01 | 146.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 09/12/2003 | | 168.01 | 21.10 | 0.07 | 146.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/18/2003 | | 168.01 | 20.10 | 0.01 | 147.91 | 12,000 | 770 | <50 | 320 | 250 | 6,100 | 11,000 | -- | <50 | <50 | -- | 160 | <10,000 | -- | -- | |
| RW-1 | 02/23/2004 | | 168.01 | 14.35 | 0.01 | 153.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 05/04/2004 | | 168.01 | 19.58 | 0.02 | 148.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/04/2004 | | 168.01 | 22.05 | 0.05 | 146.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 09/22/2004 | | 168.01 | 21.28 | 0.06 | 146.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/10/2004 | | 168.01 | 18.56 | 0.02 | 149.47 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 01/13/2005 | | 168.01 | 12.51 | 0.01 | 155.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 02/15/2005 | | 168.01 | 15.24 | 0.03 | 152.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 03/07/2005 | | 168.01 | 11.90 | 0.02 | 156.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 05/16/2005 | | 168.01 | 14.39 | 0.02 | 153.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/17/2005 | | 168.01 | 19.91 | 0.03 | 148.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/18/2005 | | 168.01 | 20.36 | 0.07 | 147.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 02/07/2006 | | 168.01 | 12.87 | 0.01 | 155.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 05/19/2006 | | 168.01 | 15.87 | 0.04 | 152.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/23/2006 | | 168.01 | 20.50 | 0.07 | 147.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/15/2006 | | 168.01 | 20.52 | 0.07 | 147.49 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 02/14/2007 | | 168.01 | 15.44 | 0.04 | 152.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 05/22/2007 | | 168.01 | 17.78 | (Sheen) | 150.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/15/2007 | | 168.01 | 20.80 | 0.02 | 147.21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/08/2007 | | 168.01 | 20.32 | 0.01 | 147.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 02/20/2008 | | 168.01 | 14.55 | 0.02 | 153.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/20/2008 | | 168.01 | 21.34 | 0.02 | 146.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 11/17/2008 | | 168.01 | 20.41 | -- | 147.60 | 13,000 | 120 | <20 | 590 | 320 | 120 | <400 | <20 | <20 | <20 | <20 | <20 | <12,000 | -- | -- | |
| RW-1 | 02/25/2009 | | 168.01 | 13.40 | 0.02 | 154.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 04/08/2009 | | 168.01 | 16.45 | -- | 151.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 3
Historical Groundwater Monitoring and Analytical Data
CA-11132
3201 35th Ave, Oakland CA

| Well ID | Date | Type | 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) | NAPH (µg/L) | Notes | |
|---------|------------|------|--------------|----------|-------------------------------|------------------|------------|----------|----------|----------|----------|-------------|------------|----------------|-------------|-------------|------------|-------------|----------------|-----------|-------------|--------|-------|
| RW-1 | 05/28/2009 | | 168.01 | 17.88 | 0.01 | 150.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 06/16/2009 | | 168.01 | 19.30 | 0.01 | 148.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/06/2009 | | 168.01 | 20.72 | 0.01 | 147.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 03/04/2010 | | 168.01 | 12.33 | -- | 155.68 | 8,000 | 20 | <2.5 | 230 | 140 | 110 | 45 | <2.5 | <2.5 | <2.5 | <2.5 | 5.7 | <500 | 1.24 | -- | (P) | |
| RW-1 | 09/02/2010 | | 168.01 | 20.14 | -- | 147.87 | 4,700 | 18 | <2.5 | 78 | 46 | <2.5 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <500 | -- | -- | (NP) | |
| RW-1 | 03/15/2011 | | 168.01 | 13.03 | -- | 154.98 | 7,000 | 3.7 | <2.5 | 44 | 31 | 6.7 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,200 | -- | -- | (P) | |
| RW-1 | 08/17/2011 | | 168.01 | 18.60 | -- | 149.41 | 2,800 | 7.5 | <2.5 | 12 | 10 | 8.8 | <20 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <1,300 | -- | -- | (P) | |
| RW-1 | 02/06/2012 | | 168.01 | 16.81 | -- | 151.20 | 1,300 | 3.1 | <2.5 | 5.2 | 5.1 | 2.9 | <20 | <2.5 | <2.5 | <2.5 | <2.5(*) | <2.5 | <1,300 | -- | -- | (P) | |
| RW-1 | 08/21/2012 | | 168.01 | 20.06 | -- | 147.95 | 1,200 | 10 | 0.58 | 10 | 5.2 | 15 | <4.0 | <0.50 | <0.50 | <0.50 | <0.50 | 1 | <250 | -- | -- | (P) | |
| RW-1 | 02/04/2013 | | 168.01 | 16.36 | (Sheen) | 151.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| RW-1 | 08/01/2013 | | 168.01 | 20.50 | 0.01 | 147.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |
| RW-1 | 02/27/2014 | | 168.01 | 17.66 | -- | 150.35 | 800 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 | -- | -- | -- | |
| RW-1 | 08/27/2014 | | 168.01 | 20.35 | (Sheen) | 147.66 | 2,800 | 5.9 | 1.7 | 12 | 5.2 | 6.7 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <500 | 0.22 | 6.8 | (odor) | |
| RW-1 | 03/27/2015 | | 168.01 | 17.57 | -- | 150.44 | 970 | 0.98 | <0.50 | 0.91 | 1.5 | 0.74 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <500 | 2.35 | -- | (odor) | |
| RW-1 | 08/27/2015 | | 168.01 | 19.90 | -- | 148.11 | 2,550 | 4.57 | 1.14J | 4.54 | 3.66 | <1.00 | 6.22 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <100 | 8.36 | -- | (odor) | |
| RW-1 | 03/28/2016 | | 168.01 | 12.68 | -- | 155.33 | 199 | <1.00 | <5.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00J3 | <1.00 | <1.00 | <1.00 | <100 | 1.01 | -- | | |
| RW-1 | 09/07/2016 | | 168.01 | 19.36 | -- | 148.65 | 1,120 | 2.86 | 0.919J | 2.28 | 2.66J | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 0.18 | -- | | |
| RW-1 | 03/01/2017 | | 168.01 | 10.63 | -- | 157.38 | 225 | <1.00 | <1.00 | <1.00 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <100 | 2.31 | -- | | |
| OW-1 | 09/07/2016 | | -- | 19.74 | 0.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |
| OW-1 | 03/01/2017 | | -- | 12.04 | 0.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | (LPH) |

Notes:
 TOC = Top of casing measured
 DTW = Depth to water
 LNAPL = Light non-aqueous phase liquid (LPH)
 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
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tert-butyl ether
 TAME = tert-Amyl methyl ether
 DO = Dissolved oxygen
 1,2-DCA = 1,2-dichloroethane
 EDB = 1,2-dibromoethane
 Ft msl = Feet above mean sea level
 DUP = Duplicate sample
 -- = Not analyzed/applicable/measured/available
 < = Not detected at or above specified laboratory reporting limit
 mg/L = Milligrams per liter
 µg/L = Micrograms per liter
 NP = Well not purged prior to sampling
 P = Well purged prior to sampling
 b = GWE adjusted assuming a specific gravity of 0.75 for free product
 j = Well not sampled due to presence of LPH and nature of the product
 J = The associated batch QC was outside the established quality control range for precision.
 t = Sheen in well
 y = Sample dilution was done with headspace in the sample vial; the samples were originally analyzed from VOAs without headspace
 * = LCS or LCS D exceeds the control limits
 Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list; TPHg was changed to GRO; the resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported
 Beginning in the Second Quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12
 Values for DO and pH were obtained through field measurements
 GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008; the analysis for GRO was changed to EPA method 8015B (C6-C12)
 for samples collected from the time period February 5, 2008 through August 6, 2009 and EPA method 8260B (C6-C12) from March 4, 2010 to the present
 The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants; Broadbent & Associates, Inc. has not verified the accuracy of this information

Table 4
Historical Groundwater Flow Direction and Gradient
CA-11132
3201 35th Avenue
Oakland, California



Design & Consultancy
for natural and
built assets

| Date Measured | Approximate Gradient Direction | Approximate Gradient Magnitude (ft/ft) |
|---------------|--------------------------------|--|
| 5/19/2006 | South | 0.003 to 0.005 |
| 8/23/2006 | Southwest | 0.01 |
| 11/15/2006 | South | 0.004 |
| 2/14/2007 | Southeast | 0.01 |
| 5/22/2007 | South | 0.005 |
| 8/15/2007 | South-Southwest | 0.008 |
| 11/8/2007 | Southwest | 0.006 |
| 2/20/2008 | Southeast | 0.008 |
| 5/7/2008 | South-Southwest | 0.003 |
| 8/20/2008 | South-Southwest | 0.007 |
| 11/17/2008 | South-Southwest | 0.005 |
| 2/25/2009 | Southeast | 0.01 |
| 5/28/2009 | South | 0.004 |
| 8/6/2009 | South-Southwest | 0.005 |
| 3/4/2010 | East-Southeast | 0.02 |
| 9/2/2010 | Southwest | 0.01 |
| 3/15/2011 | Southeast | 0.01 |
| 8/17/2011 | Southwest | 0.003 |
| 2/6/2012 | Southeast | 0.005 |
| 8/21/2012 | Southwest | 0.007 |
| 2/4/2013 | Southwest | 0.01 |
| 8/1/2013 | Southwest | 0.007 |
| 2/27/2014 | South-Southwest | 0.007 |
| 8/27/2014 | West-Northwest | 0.01 |
| 3/27/2015 | West | 0.004 |
| 8/27/2015 | West-Northwest | 0.01 |
| 3/28/2016 | South | 0.007 |
| 9/7/2016 | Southwest | 0.005 |
| 3/1/2017 | East-Northeast to Southeast | 0.01 |

Notes:

ft/ft = feet per foot

The data within this table collected prior to April 2006 were provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

FIGURES



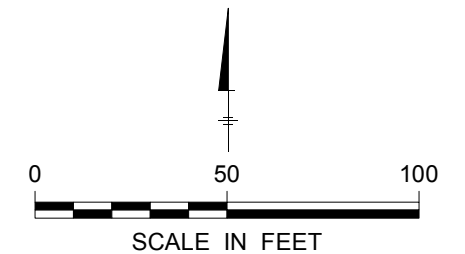
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LEGEND:

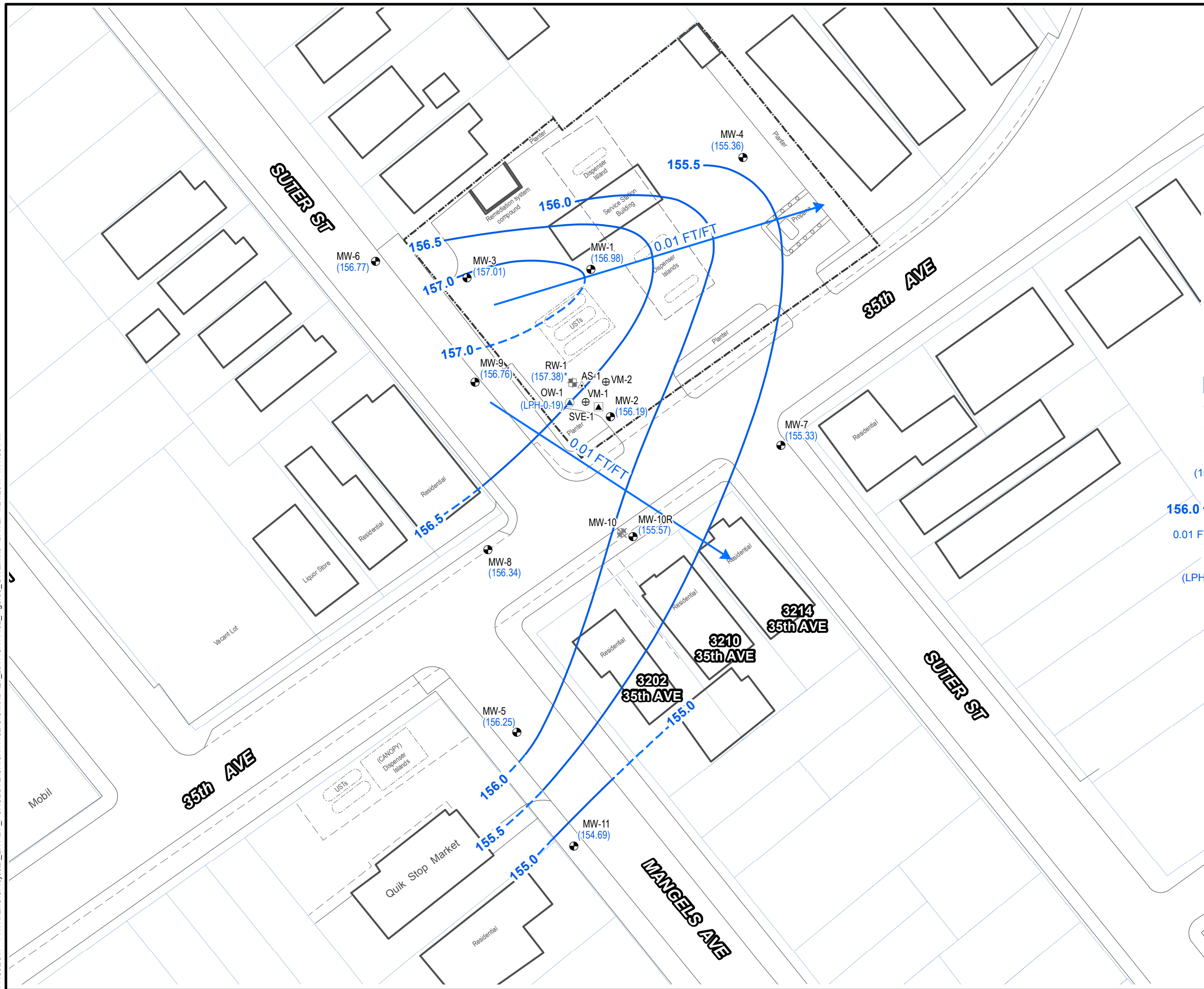
- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- OBSERVATION WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR MONITORING WELL
- SOIL BORING
- CPT/UVOST LOCATION
- SOIL GAS BORING
- AIR SPARGE WELL
- ABANDONED MONITORING WELL
- PROPERTY BOUNDARIES
- PROPERTY BOUNDARY
- CANOPY
- UNDERGROUND STORAGE TANKS

NOTES:
 1. PARCEL DATA BOUNDARIES FROM ALAMEDA COUNTY WEBB SERVER
<https://www.acgov.org/government/geospatial.htm>



| | |
|---|---|
| FORMER BP SERVICE STATION #11132 3201 35TH AVENUE OAKLAND, CALIFORNIA | |
| SITE PLAN | |
| | Design & Consultancy for natural and built assets |
| FIGURE | 2 |

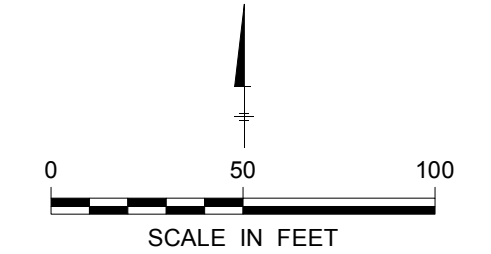
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LEGEND:

- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- OBSERVATION WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR MONITORING WELL
- AIR SPARGE WELL
- ABANDONED MONITORING WELL
- PROPERTY BOUNDARIES
- PROPERTY BOUNDARY
- CANOPY
- UNDERGROUND STORAGE TANKS
- GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION (FOOT PER FOOT)
- LIQUID PHASE HYDROCARBONS - THICKNESS IN FEET
- * NOT USED IN CONTOURING

NOTES:
 1. PARCEL DATA BOUNDARIES FROM ALAMEDA COUNTY WEBB SERVER
<https://www.acgov.org/government/geospatial.htm>



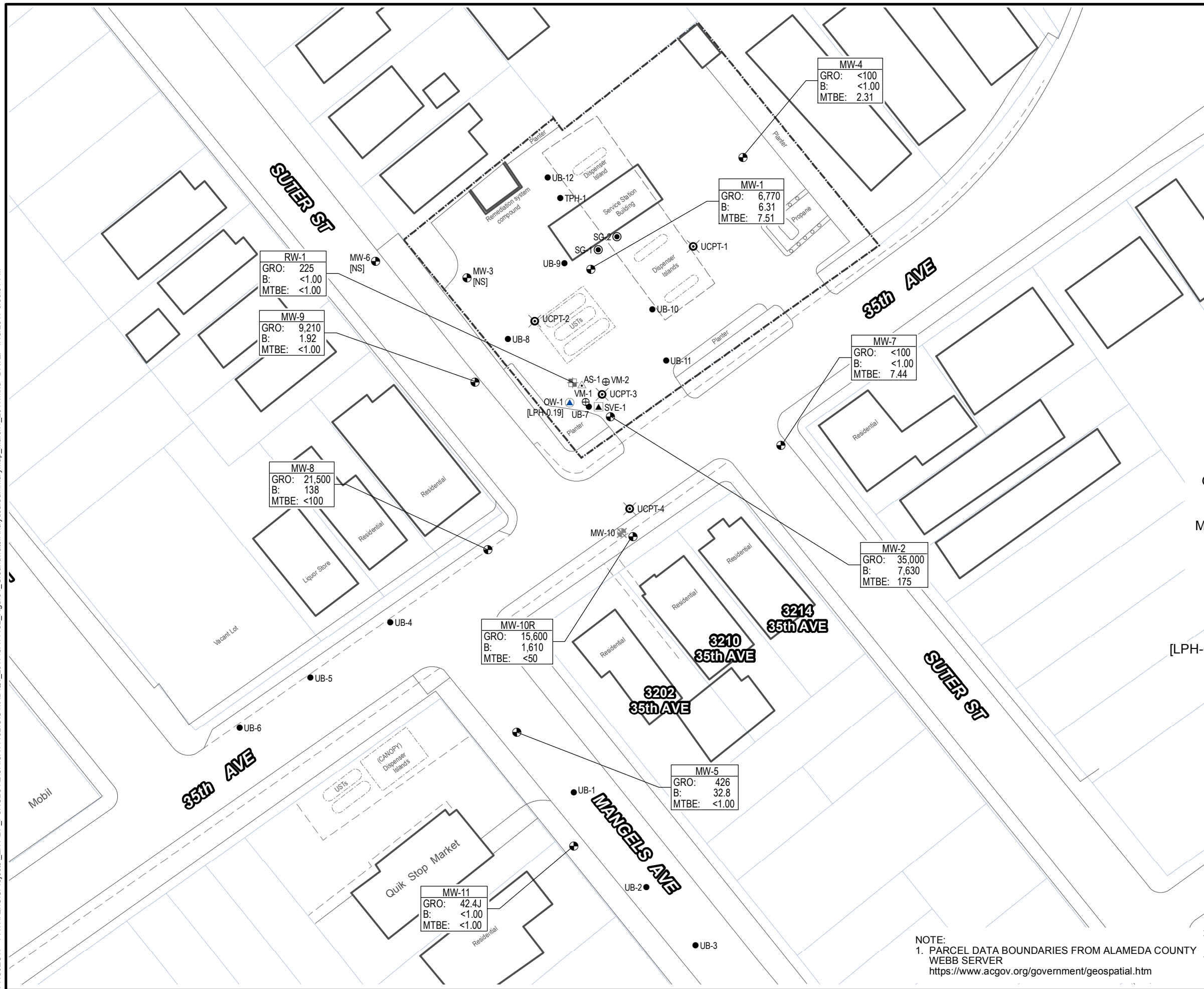
FORMER BP SERVICE STATION #11132
 3201 35TH AVENUE
 OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION MAP
MARCH 1, 2017

ARCADIS Design & Consultancy for natural and built assets

FIGURE **3**

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: MA00749 LD: PIC: PM: TM: PROJECT: PATH: Z:\GIS\Projects\ENVI\BP_FOXGLOVE\CA11132\GIS\MXD\Q1_2017\CA11132_Figure4_GroundwaterAnalyticalSummaryMap_March1_2017.mxd DATE: 4/13/2017 6:56:31 PM

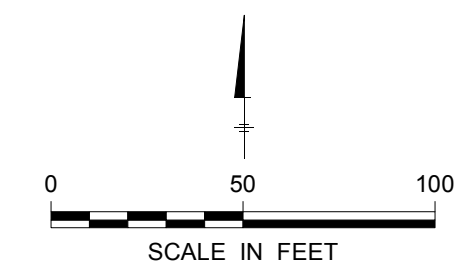


LEGEND:

- GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ▲ OBSERVATION WELL
- ⊖ SOIL VAPOR EXTRACTION WELL
- ⊕ SOIL VAPOR MONITORING WELL
- SOIL BORING
- ⊗ CPT/UVOST LOCATION
- SOIL GAS BORING
- ▲ AIR SPARGE WELL
- ⊗ ABANDONED MONITORING WELL
- ▭ PROPERTY BOUNDARIES
- - - PROPERTY BOUNDARY
- - - CANOPY
- - - UNDERGROUND STORAGE TANKS

| MW-1 | | SAMPLE LOCATION ID |
|-------|-------|--|
| GRO: | 6,770 | CONCENTRATION IN MICROGRAMS PER LITER (µg/L) |
| B: | 6.31 | |
| MTBE: | 7.51 | |
| | | ANALYTE |

- GRO GASOLINE RANGE ORGANICS
- B BENZENE
- MTBE METHYL TERT-BUTYL ETHER
- J CONCENTRATION BETWEEN REPORTING AND DETECTION LIMITS
- [NS] NOT SAMPLED
- < NOT DETECTED AT OR ABOVE STATED LABORATORY REPORTING LIMIT
- [LPH-0.19] LIQUID PHASE HYDROCARBONS - THICKNESS IN FEET

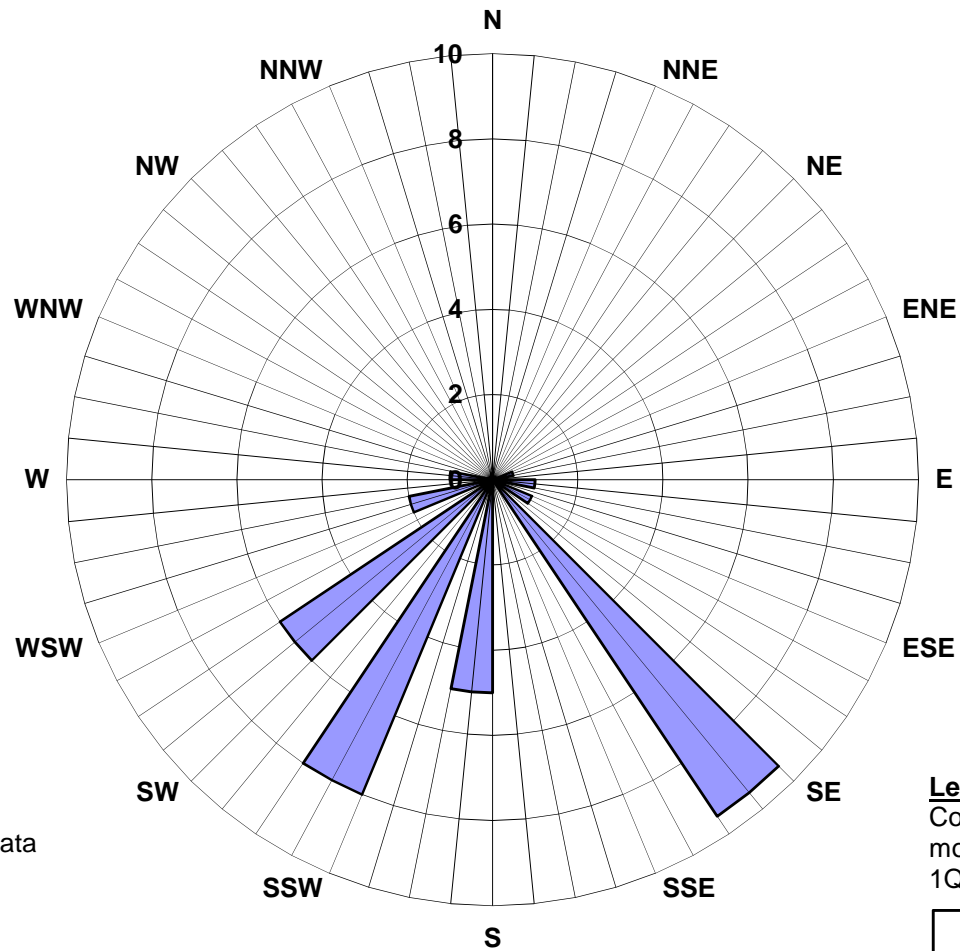


FORMER BP SERVICE STATION #11132
 3201 35TH AVENUE
 OAKLAND, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY MAP
MARCH 1, 2017

NOTE:
 1. PARCEL DATA BOUNDARIES FROM ALAMEDA COUNTY WEBB SERVER
<https://www.acgov.org/government/geospatial.htm>

Figure 5
Groundwater Flow Direction Rose Diagram
CA BP 11132
3201 35th Ave
Oakland, California 94619



Note
 Groundwater gradient and flow data beginning 1Q05 through 3Q11 monitoring events provided by Broadbent & Associates, Inc.

Legend
 Concentric circles represent 34 monitoring events beginning 1Q05 through 1Q17.
 ■ Groundwater Flow Direction

ATTACHMENT 1

Groundwater Sampling Data Package



BP WELL MONITORING DATA SHEET

| | |
|------------------------------|---|
| Project #: 161214-NM2 | Station #: 11132 |
| Sampler: NM | Date: 12/14/16 |
| Well I.D.: MW-10R | Well Diameter: (2) 3 4 6 8 |
| Total Well Depth: 22.91 | Depth to Water: 14.81 |
| Depth to Free Product: _____ | Thickness of Free Product (feet): _____ |
| Referenced to: (PVC) Grade | |

DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Method:

- Bailer Waterra
- Disposable Bailer Peristaltic
- Positive Air Displacement Extraction Pump
- Electric Submersible Extraction Pump
- Other: _____

Sampling Method:

- Bailer Other: hydrosteeve
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Instruments Used:

- (Myron L Ultrameter) HACH Turbidimeter
- Durham Geoslope Indicator YSI 556 Flow-Thru Cell
- (GeoTech Interface Probe) (YSI 550 DO Meter)
- MMC Interface Probe Other: _____

Model #: _____ Pump Depth: _____

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

$$\frac{(\text{Gals.}) \times \text{Specified Volumes}}{\text{I Case Volume}} = \text{Calculated Volume (Gals.)}$$

| Time | Temp (°F) | pH | Cond. (mS or μS) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|----------------------------------|-----------|------|------------------|------------------|---------------|-------------------|
| * Sleeve deployed after sampling | | | | | | |
| 1236 | 67.80 | 6.87 | 1603 | >1000 | | odor |

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 12/14/16 Sampling Time: 1237 Depth to Water: _____

Sample I.D.: MW-10R Laboratory: Calscience Other: ESC

Analyzed for: GRO BTEX OXYS ETHANOL (Other) see COC

Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

| | | |
|------------------|-----------------------|-----------------------|
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: 1.25 mg/L |
| | Pre-purge: _____ mV | Post-purge: -231.2 mV |

BP WELL MONITORING DATA SHEET

| | |
|--|---|
| Project #: <u>161214-NM2</u> | Station #: <u>11132</u> |
| Sampler: <u>NM</u> | Date: <u>12/14/16</u> |
| Well I.D.: <u>MW-11</u> | Well Diameter: <u>(2)</u> 3 4 6 8 _____ |
| Total Well Depth: <u>22.69</u> | Depth to Water: <u>13.09</u> |
| Depth to Free Product: _____ | Thickness of Free Product (feet): _____ |
| Referenced to: <u>PVC</u> Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | |

Purge Method:

Bailer Waterra
 Disposable Bailer Peristaltic
 Positive Air Displacement Extraction Pump
 Electric Submersible
 Other: _____

Sampling Method:

Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: hydrosleeve

Instruments Used:

Myron L Ultrameter HACH Turbidimeter
 Durham Geoslope Indicator YSI 556 Flow-Thru Cell
GeoTech Interface Probe YSI 550 DO Meter
 MMC Interface Probe Other: _____

Model #: _____ Pump Depth: _____

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

~~(Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume~~

| Time | Temp (°F) | pH | Cond. (mS or <u>µS</u>) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|--|--------------|-------------|--------------------------|------------------|---------------|-------------------|
| <i>* New sleeve re-deployed after sampling</i> | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| <u>1213</u> | <u>67.82</u> | <u>7.08</u> | <u>873</u> | <u>>1000</u> | | |

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 12/14/16 Sampling Time: 1214 Depth to Water: _____

Sample I.D.: MW-11 Laboratory: Calscience Other ESC

Analyzed for: GRO BTEX OXYS ETHANOL Other: See COC

Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

| | | | |
|--------------------|------------------------------|------------------------------|--|
| D.O. (if req'd): | Pre-purge: mg/L | Post-purge: <u>1.77</u> mg/L | |
| O.R.P. (if req'd): | Pre-purge: mV | Post-purge: <u>-180.6</u> mV | |

WELL GAUGING DATA

Project # 170301-CR1 Date 3/1/17 Client Arcadis

Site # 11132 3201 35th Ave. Oakland, CA

| Well ID | Time | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC | Notes |
|---|-------------------------|-----------------|--------------|----------------------------------|--------------------------------------|------------------------------------|---------------------------|----------------------------|--------------------------|-------|
| MW-1 | 0800 0825 | 2 | | | | | 10.95 12.77 | 31.30 | | |
| MW-2 | 0900 | 2 | | | | | 11.95 | 28.54 | | |
| MW-3 | 0918 | 2 | | | | | 10.16 | 33.14 | | |
| MW-4 | 0933 | 2 | | | | | 19.00 | 34.91 | | |
| MW-5 | 1245 | 2 | | | | | 8.89 | 31.96 | | |
| MW-6 | 1150 | 2 | | | | | 8.63 | 34.50 | | |
| MW-7 | 0854 | 2 | | | | | 12.75 | 34.65 | | |
| MW-8 | 0836 | 2 | | | | | 9.40 | 33.20 | | |
| MW-9 | 0830 | 2 | | | | | 9.44 | 26.02 | | |
| MW-10R | 0850 | 2 | | | | | 11.23 | 22.91 | | |
| MW-11 | 0845 | 2 | | | | | 10.95 | 22.74 | | |
| RW-1 | 0940 | 6 | | | | | 10.63 | 38.70 | | |
| OW-1 | 0907 | 2 | | 11.85 | 0.19 | | 12.04 | | ↓ | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| * All caps opened 15 minutes prior to gauging | | | | | | | | | | |

BP WELL MONITORING DATA SHEET

| | |
|--|--|
| Project #: 170301-CR1 | Station #: 1132 |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: MW-1 | Well Diameter: ② 3 4 6 8 |
| Total Well Depth: 31.30 | Depth to Water: 31.30 12.77 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: PVC Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: — | |

Purge Method:

- Bailer Waterra
- Disposable Bailer Peristaltic
- Positive Air Displacement Extraction Pump
- Electric Submersible
- Other: _____
- Model #: _____ Pump Depth: _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: Hydroskene

Instruments Used:

- Myron L Ultrameter HACH Turbidimeter
- Durham Geoslope Indicator YSI 556 Flow-Thru-Cell
- GeoTech Interface Probe YSI 550 DO Meter
- MMC Interface Probe Other: _____

| | |
|-------------------------------|--|
| (Gals.) X _____ = _____ Gals. | |
| 1 Case Volume | Specified Volumes Calculated Volume |

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

| Time | Temp (°F) ^{OF/°C} | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|----------------------------|------|---|------------------|---------------|-------------------|
| 1312 | 19.2 66.96 | 7.07 | 600 | 131 | grab | cloudy/odor |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1312 Depth to Water: 12.77

Sample I.D.: MW-1 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see ca

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

D.O. (if req'd): Pre-purge: 1.40 mg/L Post-purge: 1.40 mg/L

O.R.P. (if req'd): Pre-purge: 114 mV Post-purge: -114 mV

BP WELL MONITORING DATA SHEET

| | |
|--|-------------------------------------|
| Project #: 170301-CR1 | Station #: 11132 |
| Sampler: Colh Rowland | Date: 3/1/17 |
| Well I.D.: MW-2 | Well Diameter: ② 3 4 6 8 |
| Total Well Depth: 28.94 | Depth to Water: 11.95 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: <u>PVC</u> Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: — | |

Purge Method:

- Bailer Waterra
- Disposable Bailer Peristaltic
- Positive Air Displacement Extraction Pump
- Electric Submersible
- Other: _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: Hydro sleeve

Instruments Used:

- Myron L Ultrameter
- HACH Turbidimeter
- Durham Geoslope Indicator
- YSI 556 Flow-Thru Cell
- GeoTech Interface Probe
- YSI 550 DO Meter
- MMC Interface Probe
- Other: _____

Model #: _____ Pump Depth: _____

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

_____ (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|-----------|------|------------------|------------------|---------------|-------------------|
| 1357 | 66.96 | 6.93 | 1502 | 23 | grab | odor |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1357 Depth to Water: 11.95

Sample I.D.: MW-2 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COL

Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

D.O. (if req'd): Pre-purge: 3.13 mg/L Post-purge: 3.13 mg/L

O.R.P. (if req'd): Pre-purge: -81 mV Post-purge: -81 mV

BP WELL MONITORING DATA SHEET

| | |
|--|-------------------------------------|
| Project #: 170301-CR1 | Station #: 11132 11132 |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: MW-4 | Well Diameter: (2) 3 4 6 8 |
| Total Well Depth: 15.00 | Depth to Water: 15.00 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: (PVC) Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | |

Purge Method:

Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Other: _____

Waterra
 Peristaltic
 Extraction Pump

Sampling Method:

Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: hydrosleeve

Instruments Used:

Myron L Ultrameter
 Durham Geoslope Indicator
 GeoTech Interface Probe
 MMC Interface Probe
 HACH Turbidimeter
 YSI 556 Flow-Thru Cell
 YSI 550 DO Meter
 Other: DO meter

Model #: _____ Pump Depth: _____

| | | |
|-----------------|-------------------|-------------------|
| (Gals.) X _____ | = _____ Gals. | |
| 1 Case Volume | Specified Volumes | Calculated Volume |

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

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|-------|-----------|------|------------------|------------------|---------------|-------------------|
| 10:00 | 20.0 | 6.77 | 745 | 104 | grab | cloudy |
| | 68.0 | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 10:00 Depth to Water: 15.00

Sample I.D.: MW-4 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see col

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

| | | |
|--------------------|----------------------|-----------------------|
| D.O. (if req'd): | Pre-purge: 1.99 mg/L | Post-purge: 1.99 mg/L |
| O.R.P. (if req'd): | Pre-purge: 118 mV | Post-purge: 118 mV |

BP WELL MONITORING DATA SHEET

| | |
|--|-------------------------------------|
| Project #: 170301-CR1 | Station #: 11132 |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: MW-5 | Well Diameter: (2) 3 4 6 8 |
| Total Well Depth: 31.96 | Depth to Water: 8.89 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: <u>PVC</u> Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | |

Purge Method:

Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Other: _____

Sampling Method:

Waterra
 Peristaltic
 Extraction Pump
 Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: Hydro sleeve

Instruments Used:

Myron L Ultrameter
 Durham Geoslope Indicator
 GeoTech Interface Probe
 MMC Interface Probe
 HACH Turbidimeter
 YSI 556 Flow-Thru Cell
 YSI 550 DO Meter
 Other: _____

Model #: _____ Pump Depth: _____

| | | |
|-----------------|-------------------|-------------------|
| (Gals.) X _____ | = _____ Gals. | |
| 1 Case Volume | Specified Volumes | Calculated Volume |

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

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|-----------|------|------------------|------------------|---------------|-------------------|
| 1255 | 63.9 | 7.58 | 326 | 7000 | grab | greenish brown |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1255 Depth to Water: 8.89

Sample I.D.: MW-5 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COL

Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

| | | |
|--------------------|----------------------------|-----------------------------|
| D.O. (if req'd): | Pre-purge: <u>265</u> mg/L | Post-purge: <u>265</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: <u>430</u> mV | Post-purge: <u>-43</u> mV |

BP WELL MONITORING DATA SHEET

| | |
|--|-------------------------------------|
| Project #: 170301-CR1 | Station #: 11132 |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: MW-7 | Well Diameter: ② 3 4 6 8 |
| Total Well Depth: 34.65 | Depth to Water: 12.75 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: <u>PVC</u> Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | |

Purge Method:

- Bailer Water
- Disposable Bailer Peristaltic
- Positive Air Displacement Extraction Pump
- Electric Submersible
- Other: _____
- Model #: _____ Pump Depth: _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: Hydro sleeve

Instruments Used:

- Myron L Ultrameter HACH Turbidimeter
- Durham Geoslope Indicator YSI 556 Flow-Thru Cell
- Geo Tech Interface Probe YSI 550 DO Meter
- MMC Interface Probe Other: _____

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

(Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

| Time | Temp (F) | pH | Cond. (mS or μ S) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|-------------------------|------|-----------------------|------------------|---------------|-------------------|
| 1110 | 20.1 68.2 | 7.13 | 273 | 174 | grab | cloudy |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1110 Depth to Water: 12.75

Sample I.D.: MW-7 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COC

Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

| | | | | |
|--------------------|------------|------------------|-------------|------------------|
| D.O. (if req'd): | Pre-purge: | <u>1.87</u> mg/L | Post-purge: | <u>1.87</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: | <u>52</u> mV | Post-purge: | <u>52</u> mV |

BP WELL MONITORING DATA SHEET

| | |
|--|-------------------------------------|
| Project #: 170301-CR1 | Station #: 11132. |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: MW-8 | Well Diameter: (2) 3 4 6 8 |
| Total Well Depth: 33.20 | Depth to Water: 9.40 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: (PVC) Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: | |

Purge Method:

- Bailer Waterra
- Disposable Bailer Peristaltic
- Positive Air Displacement Extraction Pump
- Electric Submersible
- Other: _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: Hydrus leave

Instruments Used:

- (Myron L Ultrameter) (HACH Turbidimeter)
- Durham Geoslope Indicator YSI 556 Flow-Thru Cell
- (GeoTech Interface Probe) (YSI 550 DO Meter)
- MMC Interface Probe Other: _____

Model #: _____ Pump Depth: _____

| | | |
|-----------------|-------------------|-------------------|
| (Gals.) X _____ | = _____ Gals. | |
| 1 Case Volume | Specified Volumes | Calculated Volume |

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

| Time | Temp (°F) | pH | Cond. (mS or μS) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|-----------|------|------------------|------------------|---------------|-------------------|
| 1230 | 67.5 | 7.01 | 1153 | 328 | grab | cloudy |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1230 Depth to Water: 9.40

Sample I.D.: MW-8 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: See COC

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

| | | |
|--------------------|----------------------|-----------------------|
| D.O. (if req'd): | Pre-purge: 2.91 mg/L | Post-purge: 2.91 mg/L |
| O.R.P. (if req'd): | Pre-purge: 411 mV | Post-purge: -41 mV |

BP WELL MONITORING DATA SHEET

| | |
|--|-------------------------------------|
| Project #: 170301-CR1 | Station #: 1132 |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: MW-9 | Well Diameter: (2) 3 4 6 8 |
| Total Well Depth: 26.02 | Depth to Water: 9.44 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: (PVC) Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: — | |

Purge Method:

- Bailer Waterra
- Disposable Bailer Peristaltic
- Positive Air Displacement Extraction Pump
- Electric Submersible Extraction Port
- Other: Dedicated Tubing

Sampling Method:

- Bailer Hydrosleeve
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other:

Instruments Used:

- (Myron L Ultrameter) (HACH Turbidimeter)
- Durham Geoslope Indicator YSI 556-Flow-Thru Cell
- (GeoTech Interface Probe) (YSI 550 DO Meter)
- MMC Interface Probe Other: _____

Model #: _____ Pump Depth: _____

| |
|---|
| (Gals.) X _____ = _____ Gals. |
| 1 Case Volume Specified Volumes Calculated Volume |

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

| Time | Temp (°F) | pH | Cond. (mS or μ S) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|-------------------------|------|-----------------------|------------------|---------------|-------------------|
| 1130 | 77.8 64.0 | 7.13 | 722 | 71000 | grab | cloudy |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1130 Depth to Water: 9.44

Sample I.D.: MW-9 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COC

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

| | | |
|--------------------|------------------------------------|-----------------------|
| D.O. (if req'd): | Pre-purge: 3.24 ^{RP} mg/L | Post-purge: 3.24 mg/L |
| O.R.P. (if req'd): | Pre-purge: -97 ^{CP} mV | Post-purge: -97. mV |

BP WELL MONITORING DATA SHEET

| | |
|--|-------------------------------------|
| Project #: 170301-CH | Station #: 11132 |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: MW-10R | Well Diameter: ② 3 4 6 8 |
| Total Well Depth: 22.91 | Depth to Water: 11.23 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: <u>PVC</u> Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: — | |

Purge Method:

- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Other: _____
- Model #: _____

- Waterra
- Peristaltic
- Extraction Pump
- Pump Depth: _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: Hydro sleeve

Instruments Used:

- Myron L Ultrameter
- HACH Turbidimeter
- Durham Geoslope Indicator
- YSI 556 Flow-Thru Cell
- GeoTech Interface Probe
- YSI 550 DO Meter
- MMC Interface Probe
- Other: _____

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

(Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

| Time | Temp (°F) | pH | Cond. (mS or <u>µS</u>) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|-------------------------|------|--------------------------|------------------|---------------|-------------------|
| 1332 | 16.7 62.1 | 7.10 | 1588 | 71000 | grab | greenish brown |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1332 Depth to Water: 11.23

Sample I.D.: MW-10R Laboratory: Calscience Other: FSC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COL

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

| | | | | | |
|--------------------|------------|----------------------|-------------|------|------|
| D.O. (if req'd): | Pre-purge: | 1.96 ^{mg/L} | Post-purge: | 1.96 | mg/L |
| O.R.P. (if req'd): | Pre-purge: | -118 ^{mV} | Post-purge: | -118 | mV |

BP WELL MONITORING DATA SHEET

| | |
|--|---|
| Project #: 170301-021 | Station #: 11132 |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: MW-11 | Well Diameter: <u>2</u> 3 4 6 8 |
| Total Well Depth: 22.74 | Depth to Water: 10.95 |
| Depth to Free Product: _____ | Thickness of Free Product (feet): _____ |
| Referenced to: <u>PVC</u> Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____ | |

Purge Method:

Bailer _____
 Disposable Bailer _____
 Positive Air Displacement _____
 Electric Submersible _____
 Other: _____
 Model #: _____

Sampling Method:

Bailer _____
 Disposable Bailer _____
 Extraction Port _____
 Dedicated Tubing _____
 Other: Hydrosevere

Instruments Used:

Myron L Ultrameter HACH Turbidimeter
 Durham Geoslope Indicator YSI 556 Flow-Thru Cell
GeoTech Interface Probe YSI 550 DO Meter
 MMC Interface Probe Other: _____

Pump Depth: _____

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

(Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

| Time | Temp (°F) | pH | Cond. (mS or <u>µS</u>) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|-------------------------|------|--------------------------|------------------|---------------|-------------------|
| 1035 | 79.9 66.9 | 7.28 | 842 | 71000 | grab | light brown |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1035 Depth to Water: 10.95

Sample I.D.: MW-11 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COL

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

| | | | | |
|------------------|--------------------|------------------|---------------|------------------|
| D.O. (if req'd): | Pre-purge: | <u>1.91</u> mg/L | Post-purge: | <u>1.91</u> mg/L |
| | O.R.P. (if req'd): | Pre-purge: | <u>115</u> mV | Post-purge: |

BP WELL MONITORING DATA SHEET

| | |
|--|--|
| Project #: 170301-CR1 | Station #: 11132 |
| Sampler: Colin Rowland | Date: 3/1/17 |
| Well I.D.: RW-1 | Well Diameter: 2 3 4 <u>6</u> 8 |
| Total Well Depth: 38.70 | Depth to Water: 10.63 |
| Depth to Free Product: — | Thickness of Free Product (feet): — |
| Referenced to: <u>PVC</u> Grade | |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: — | |

Purge Method:

- Bailer Waterra
- Disposable Bailer Peristaltic
- Positive Air Displacement Extraction Pump
- Electric Submersible Extraction Port
- Other: _____

Sampling Method:

- Bailer Dedicated Tubing
- Disposable Bailer Other: Hydro leave

Instruments Used:

- Myron L Ultrameter HACH Turbidimeter
- Durham Geoslope Indicator YSI 556 Flow-Thru Cell
- GeoTech Interface Probe YSI 550 DO Meter
- MMC Interface Probe Other: _____

Model #: _____ Pump Depth: _____

| | | |
|-----------------|-------------------|-------------------|
| (Gals.) X _____ | = _____ Gals. | |
| 1 Case Volume | Specified Volumes | Calculated Volume |

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

| Time | Temp (°F) | pH | Cond. (mS or μ S) | Turbidity (NTUs) | Gals. Removed | Observations/ DTW |
|------|-------------------------|------|-----------------------|------------------|---------------|-------------------|
| 1055 | 20.3 68.9 | 7.03 | 119 | 116 | grab | e cloudy |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: grab

Sampling Date: 3/1/17 Sampling Time: 1055 Depth to Water: 10.63

Sample I.D.: RW-1 Laboratory: Calscience Other: ESC Lab Sciences

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COL

Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

D.O. (if req'd): Pre-purge: 2.39 mg/L Post-purge: 2.31 mg/L

O.R.P. (if req'd): Pre-purge: +29 mV Post-purge: -129 mV

WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client Arcadis Date 3/1/17
 Site Address site #11132 3201 35th Ave. Oakland, CA
 Job Number 170301-CR1 Technician Colin Rowland

| Well ID | Well Inspected - No Corrective Action Required | Water Bailed From Wellbox | Wellbox Components Cleaned | Cap Replaced | Lock Replaced | Other Action Taken (explain below) | Well Not Inspected (explain below) | Repair Order Submitted |
|---------|--|---------------------------------|----------------------------------|-----------------|------------------|---|---|---------------------------|
| MW-1 | X | | | | | | | |
| MW-2 | X | | | | | | | |
| MW-3 | X | | | | | | | |
| MW-4 | | | | | | X | | |
| MW-5 | X | | | | | | | |
| MW-6 | X | | | | | | | |
| MW-7 | X | | | | | | | |
| MW-8 | X | | | | | | | |
| MW-9 | | | | | | X | | |
| MW-10R | X | | | | | | | |
| MW-11 | X | | | | | | | |
| RW-1 | X | | | | | | | |
| OW-1 | X | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTES: MW-4: 1/2 tabs stripped
MW-9: 1/2 bolts missing, 1/2 tabs stripped

ARCADIS Project Name: CA 11132

 Req Due Date (mm/dd/yy): Standard TAT Rush TAT: Yes No

Lab Work Order Number: _____

| | | |
|--|---|--|
| Lab Name: ESC Labs | Facility Address: 3201 35th Ave. | Consultant/Contractor: Blaine Tech Services, Inc. |
| Lab Address: 12065 Lebanon Rd., Mt. Juliet, TN 37122 | City, State, ZIP Code: Oakland, CA | Blaine Tech Project No: ARCADIS/BP- 11132 |
| Lab PM: Jarred Willis | Lead Regulatory Agency: Alameda County EHS / SF RWQCB | Consultant/Contractor Address: 1680 Rogers Ave., San Jose, CA 95112 |
| Lab Phone: 615.758.5858 | California Global ID No.: T0600100213 | Consultant/Contractor PM: Michael Ninokata |
| Lab Shipping Acct: | ARCADIS Project No: GP09BPNA.C112 | Phone: 408.573.0555 x202 |
| Lab Bottle Order No: | ARCADIS PM/ Phone: <u>Megan Smoley</u> | Email EDD To: <u>megan.smoley@arcadis.com</u> |
| Other Info: | Email: <u>megan.smoley@arcadis.com</u> | Invoice To: ARCADIS <input checked="" type="checkbox"/> Contractor _____ |

| Lab No. | Sample Description | Date | Time | Matrix | | | | | | | No. Containers / Preservative | | | Requested Analyses | | | | | | | | | | Report Type & QC Level | | Comments | | | | | | | | | | | |
|---------|--------------------|--------|------|--------------|----------------|-------------|----------------------------|-------------|--------------------------------|------------------|-------------------------------|----------|------------|-----------------------------|------------------------------|---|--|--|--|--|--|--|--|------------------------|--|----------|--|--|--|-------------------------|--|--|--|--|--|--|--|
| | | | | Soil / Solid | Water / Liquid | Air / Vapor | Total Number of Containers | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | Methanol | GRO 8015M) | BTEX, (5) Oxygenates (8260) | 1,2-DCA, EDB, Ethanol (8260) | | | | | | | | | | | | | | Standard <input checked="" type="checkbox"/> | Full Data Package _____ | | | | | | | |
| | MW-1 | 3/1/17 | 1312 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | MW-2 | | 1357 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | MW-4 | | 1012 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | MW-5 | | 1255 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | MW-7 | | 1110 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | MW-8 | | 1230 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | MW-9 | | 1130 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | MW-10R | | 1332 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | MW-11 | | 1035 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| | RW-1 | | 1055 | X | | | 5 | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--------------------------------------|---|---------------------|-------------------|--|---------------------|-------------------|
| Sampler's Name: <u>Colin Rowland</u> | Relinquished By / Affiliation: <u>Colin Rowland (BTS)</u> | Date: <u>3/1/17</u> | Time: <u>1600</u> | Accepted By / Affiliation: <u>Colin Rowland (Sample Custodian)</u> | Date: <u>3/1/17</u> | Time: <u>1607</u> |
| Shipment Method: _____ | Shipment Date: _____ | | | | | |
| Shipment Tracking No: _____ | | | | | | |

Special Instructions: (5) Oxygenates = MTBE, TBA, DIPE, ETBE, TAME

| | | | | |
|--|----------------------|------------------------------------|----------------------|-----------------------------------|
| THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No |
|--|----------------------|------------------------------------|----------------------|-----------------------------------|

ATTACHMENT 2

Certified Laboratory Analytical Report and Chain of Custody Documentation



ARCADIS US - San Francisco, CA

Sample Delivery Group: L878867
Samples Received: 12/15/2016
Project Number: GP09BPNA.C112
Description: CA-11132 - GP09BPNA.C112
Site: 3201 35TH AVENUE
Report To: Megan Smoley
865 Cotting Lane, Suite C
Vacaville, CA 95688










Entire Report Reviewed By:



Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



| | | |
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SAMPLE SUMMARY



MW-10R L878867-01 GW

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|--|----------|----------|-----------------------|------------------------------------|-----------------------------------|
| Collected by NM | | | | Collected date/time 12/14/16 12:37 | Received date/time 12/15/16 09:00 |
| Volatile Organic Compounds (GC) by Method 8015 | WG935863 | 5 | 12/19/16 19:01 | 12/19/16 19:01 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG936892 | 1 | 12/20/16 02:36 | 12/20/16 02:36 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG936892 | 50 | 12/21/16 06:15 | 12/21/16 06:15 | ACG |

1 Cp

2 Tc

3 Ss

MW-11 L878867-02 GW

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|--|----------|----------|-----------------------|------------------------------------|-----------------------------------|
| Collected by NM | | | | Collected date/time 12/14/16 12:14 | Received date/time 12/15/16 09:00 |
| Volatile Organic Compounds (GC) by Method 8015 | WG935863 | 1 | 12/19/16 19:23 | 12/19/16 19:23 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG936892 | 1 | 12/20/16 00:21 | 12/20/16 00:21 | DWR |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|--------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 19800 | | 152 | 500 | 5 | 12/19/2016 19:01 | WG935863 |
| (S) a,a,a-Trifluorotoluene(FID) 86.7 | | | | 62.0-128 | | 12/19/2016 19:01 | WG935863 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 2610 | | 16.6 | 50.0 | 50 | 12/21/2016 06:15 | WG936892 |
| Toluene | 382 | | 39.0 | 250 | 50 | 12/21/2016 06:15 | WG936892 |
| Ethylbenzene | 702 | | 19.2 | 50.0 | 50 | 12/21/2016 06:15 | WG936892 |
| Total Xylenes | 2000 | | 53.0 | 150 | 50 | 12/21/2016 06:15 | WG936892 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 12/20/2016 02:36 | WG936892 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 12/20/2016 02:36 | WG936892 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 12/20/2016 02:36 | WG936892 |
| Ethanol | U | | 42.0 | 100 | 1 | 12/20/2016 02:36 | WG936892 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 12/20/2016 02:36 | WG936892 |
| Methyl tert-butyl ether | 1.14 | | 0.367 | 1.00 | 1 | 12/20/2016 02:36 | WG936892 |
| tert-Butyl alcohol | 78.5 | | 2.40 | 5.00 | 1 | 12/20/2016 02:36 | WG936892 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 12/20/2016 02:36 | WG936892 |
| (S) Toluene-d8 | 99.2 | | | 90.0-115 | | 12/20/2016 02:36 | WG936892 |
| (S) Toluene-d8 | 102 | | | 90.0-115 | | 12/21/2016 06:15 | WG936892 |
| (S) Dibromofluoromethane | 96.9 | | | 79.0-121 | | 12/21/2016 06:15 | WG936892 |
| (S) Dibromofluoromethane | 146 | J1 | | 79.0-121 | | 12/20/2016 02:36 | WG936892 |
| (S) a,a,a-Trifluorotoluene | 106 | | | 90.4-116 | | 12/20/2016 02:36 | WG936892 |
| (S) a,a,a-Trifluorotoluene | 101 | | | 90.4-116 | | 12/21/2016 06:15 | WG936892 |
| (S) 4-Bromofluorobenzene | 98.7 | | | 80.1-120 | | 12/21/2016 06:15 | WG936892 |
| (S) 4-Bromofluorobenzene | 98.5 | | | 80.1-120 | | 12/20/2016 02:36 | WG936892 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 260 | | 30.4 | 100 | 1 | 12/19/2016 19:23 | WG935863 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.4 | | | 62.0-128 | | 12/19/2016 19:23 | WG935863 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | U | | 0.331 | 1.00 | 1 | 12/20/2016 00:21 | WG936892 |
| Toluene | U | | 0.780 | 5.00 | 1 | 12/20/2016 00:21 | WG936892 |
| Ethylbenzene | U | | 0.384 | 1.00 | 1 | 12/20/2016 00:21 | WG936892 |
| Total Xylenes | U | | 1.06 | 3.00 | 1 | 12/20/2016 00:21 | WG936892 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 12/20/2016 00:21 | WG936892 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 12/20/2016 00:21 | WG936892 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 12/20/2016 00:21 | WG936892 |
| Ethanol | U | | 42.0 | 100 | 1 | 12/20/2016 00:21 | WG936892 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 12/20/2016 00:21 | WG936892 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 | 1 | 12/20/2016 00:21 | WG936892 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 | 1 | 12/20/2016 00:21 | WG936892 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 12/20/2016 00:21 | WG936892 |
| (S) Toluene-d8 | 106 | | | 90.0-115 | | 12/20/2016 00:21 | WG936892 |
| (S) Dibromofluoromethane | 107 | | | 79.0-121 | | 12/20/2016 00:21 | WG936892 |
| (S) a,a,a-Trifluorotoluene | 100 | | | 90.4-116 | | 12/20/2016 00:21 | WG936892 |
| (S) 4-Bromofluorobenzene | 96.8 | | | 80.1-120 | | 12/20/2016 00:21 | WG936892 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3185674-2 12/17/16 18:46

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|--|-----------|--------------|--------|----------|
| TPHG C5 - C12 | U | | 30.4 | 100 |
| <i>(S) a,a,a-Trifluorotoluene(FID)</i> | | | | 62.0-128 |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3185674-1 12/17/16 17:49 • (LCSD) R3185674-3 12/17/16 19:24

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|--|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| TPHG C5 - C12 | 5500 | 6030 | 6420 | 110 | 117 | 64.0-125 | | | 6.30 | 20 |
| <i>(S) a,a,a-Trifluorotoluene(FID)</i> | | | | 99.7 | 100 | 62.0-128 | | | | |

5 Sr

6 Qc

L878807-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L878807-01 12/17/16 22:03 • (MS) R3185674-4 12/17/16 20:36 • (MSD) R3185674-5 12/17/16 21:05

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|--|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| TPHG C5 - C12 | 5500 | U | 3140 | 3740 | 57.1 | 67.9 | 1 | 45.1-139 | | | 17.3 | 20 |
| <i>(S) a,a,a-Trifluorotoluene(FID)</i> | | | | | 97.4 | 96.9 | | 62.0-128 | | | | |

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3186006-3 12/19/16 23:04

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------------------------------|-----------|--------------|--------|----------|
| | ug/l | | ug/l | ug/l |
| Benzene | U | | 0.331 | 1.00 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 |
| Di-isopropyl ether | U | | 0.320 | 1.00 |
| Ethylbenzene | U | | 0.384 | 1.00 |
| Ethanol | U | | 42.0 | 100 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 |
| Toluene | U | | 0.780 | 5.00 |
| Xylenes, Total | U | | 1.06 | 3.00 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 |
| <i>(S) Toluene-d8</i> | 109 | | | 90.0-115 |
| <i>(S) Dibromofluoromethane</i> | 108 | | | 79.0-121 |
| <i>(S) a,a,a-Trifluorotoluene</i> | 104 | | | 90.4-116 |
| <i>(S) 4-Bromofluorobenzene</i> | 98.4 | | | 80.1-120 |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3186006-1 12/19/16 21:10 • (LCSD) R3186006-2 12/19/16 21:29

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|-----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | ug/l | ug/l | ug/l | % | % | % | | | % | % |
| Benzene | 25.0 | 23.0 | 25.0 | 91.9 | 100 | 73.0-122 | | | 8.54 | 20 |
| 1,2-Dibromoethane | 25.0 | 23.3 | 25.7 | 93.2 | 103 | 79.8-122 | | | 9.88 | 20 |
| 1,2-Dichloroethane | 25.0 | 23.8 | 26.1 | 95.2 | 104 | 65.3-126 | | | 9.15 | 20 |
| Di-isopropyl ether | 25.0 | 19.8 | 21.4 | 79.2 | 85.6 | 65.1-135 | | | 7.85 | 20 |
| Ethylbenzene | 25.0 | 23.1 | 25.2 | 92.2 | 101 | 80.9-121 | | | 8.69 | 20 |
| Methyl tert-butyl ether | 25.0 | 22.0 | 24.0 | 88.1 | 95.9 | 70.1-125 | | | 8.52 | 20 |
| Toluene | 25.0 | 23.8 | 26.1 | 95.2 | 104 | 77.9-116 | | | 9.05 | 20 |
| Xylenes, Total | 75.0 | 71.3 | 76.6 | 95.1 | 102 | 79.2-122 | | | 7.17 | 20 |
| <i>(S) Toluene-d8</i> | | | | 105 | 104 | 90.0-115 | | | | |
| <i>(S) Dibromofluoromethane</i> | | | | 101 | 102 | 79.0-121 | | | | |
| <i>(S) a,a,a-Trifluorotoluene</i> | | | | 100 | 100 | 90.4-116 | | | | |
| <i>(S) 4-Bromofluorobenzene</i> | | | | 100 | 97.4 | 80.1-120 | | | | |



L878841-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L878841-02 12/20/16 01:57 • (MS) R3186006-4 12/19/16 23:23 • (MSD) R3186006-5 12/19/16 23:43

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene | 25.0 | 5770 | 5510 | 5480 | 0.000 | 0.000 | 20 | 58.6-133 | <u>EV</u> | <u>EV</u> | 0.630 | 20 |
| 1,2-Dibromoethane | 25.0 | ND | 388 | 486 | 77.5 | 97.2 | 20 | 73.8-131 | | <u>J3</u> | 22.5 | 20 |
| 1,2-Dichloroethane | 25.0 | ND | 352 | 430 | 70.3 | 86.1 | 20 | 60.7-132 | | <u>J3</u> | 20.2 | 20 |
| Di-isopropyl ether | 25.0 | 40.9 | 312 | 381 | 54.3 | 67.9 | 20 | 59.9-140 | <u>J6</u> | | 19.7 | 20 |
| Ethylbenzene | 25.0 | 2200 | 2330 | 2490 | 27.0 | 57.8 | 20 | 62.7-136 | <u>V</u> | <u>V</u> | 6.40 | 20 |
| Methyl tert-butyl ether | 25.0 | 2900 | 3040 | 3070 | 28.7 | 34.7 | 20 | 61.4-136 | <u>V</u> | <u>V</u> | 0.970 | 20 |
| Toluene | 25.0 | 12900 | 12000 | 11800 | 0.000 | 0.000 | 20 | 67.8-124 | <u>EV</u> | <u>EV</u> | 1.74 | 20 |
| Xylenes, Total | 75.0 | 10800 | 10900 | 11200 | 0.619 | 26.5 | 20 | 65.6-133 | <u>V</u> | <u>V</u> | 3.51 | 20 |
| <i>(S) Toluene-d8</i> | | | | | 106 | 106 | | 90.0-115 | | | | |
| <i>(S) Dibromofluoromethane</i> | | | | | 89.1 | 87.0 | | 79.0-121 | | | | |
| <i>(S) a,a,a-Trifluorotoluene</i> | | | | | 100 | 101 | | 90.4-116 | | | | |
| <i>(S) 4-Bromofluorobenzene</i> | | | | | 99.1 | 101 | | 80.1-120 | | | | |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Abbreviations and Definitions

| | |
|-----------------|--|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|-----------|---|
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

State Accreditations

| | | | |
|-----------------------|-------------|-----------------------------|-------------------|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Connecticut | PH-0197 | North Carolina ¹ | DW21704 |
| Florida | E87487 | North Carolina ² | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia ¹ | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky ¹ | 90010 | South Dakota | n/a |
| Kentucky ² | 16 | Tennessee ¹⁴ | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

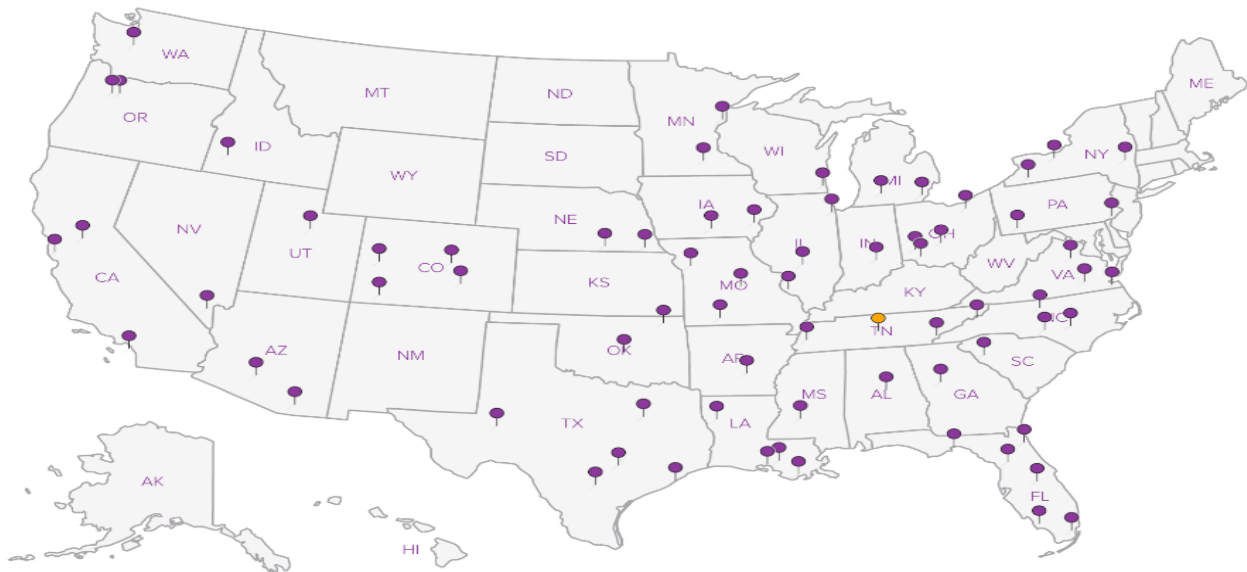
Third Party & Federal Accreditations

| | | | |
|-------------------------------|---------|------|---------|
| A2LA – ISO 17025 | 1461.01 | AIHA | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**





Chain of Custody Record

C193

Page 1 of 1

ARCADIS Project Name: CA 11132

Req Due Date (mm/dd/yy): Standard TAT Rush TAT: Yes No x

Lab Work Order Number:

| | | |
|--|---|---|
| Lab Name: ESC Labs | Facility Address: 3201 35th Ave. | Consultant/Contractor: Blaine Tech Services, Inc. |
| Lab Address: 12065 Lebanon Rd., Mt. Juliet, TN 37122 | City, State, ZIP Code: Oakland, CA | Blaine Tech Project No: ARCADIS/BP- 11132 |
| Lab PM: Jarred Willis | Lead Regulatory Agency: Alameda County EHS / SF RWQCB | Consultant/Contractor Address: 1680 Rogers Ave., San Jose, CA 95112 |
| Lab Phone: 615.758.5858 | California Global ID No.: T0600100213 | Consultant/Contractor PM: Michael Ninokata |
| Lab Shipping Accont: | ARCADIS Project No: GP09BPNA.C112 | Phone: 408.573.0555 x202 |
| Lab Bottle Order No: | ARCADIS PM/ Phone: Megan Smoley | Email EDD To: megan.smoley@arcadis.com |
| Other Info: | Email: megan.smoley@arcadis.com | Invoice To: ARCADIS X Contractor |

| Lab No. | Sample Description | Date | Time | Matrix | | | Total Number of Containers | No. Containers / Preservative | | | | | Requested Analyses | | | | | | Report Type & QC Level | | Comments | | |
|---------|--------------------|----------|------|--------------|----------------|-------------|----------------------------|-------------------------------|--------------------------------|------------------|-----|----------|--------------------|-----------------------------|------------------------------|---|---|--|------------------------|--|----------|--|-------------------|
| | | | | Soil / Solid | Water / Liquid | Air / Vapor | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | Methanol | GRO 8015M | BTEX, (5) Oxygenates (8260) | 1,2-DCA, EDB, Ethanol (8260) | | | | | | | | Standard <u>x</u> |
| | MW-10R | 12/14/16 | 1237 | X | | | 5 | | | | | | | | X | X | X | | | | | | 878867-01 |
| | MW-11 | 12/14/16 | 1214 | X | | | 5 | | | | | | | X | X | X | | | | | | | 02 |
| | TB-11132-12142016 | 12/14/16 | 0800 | X | | | 1 | | | | | | | | | | | | | | | | on hold |

| Sampler's Name: | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|--|-------------------------------|----------|------|------------------------------|----------|------|
| Nicklaus Menge | [Signature] / BTS | 12/14/16 | 1502 | [Signature] Sample Custodian | 12/14/16 | 1502 |
| Shipment Method: FedEx Ship Date: 12/14/16 | [Signature] | 12/14/16 | 1700 | [Signature] | 12-14-16 | 0900 |

Special Instructions: (5) Oxygenates = MTBE, TBA, DIPE, ETBE, TAME
 THIS LINE - LAB USE ONLY: Custody Seals In Place (Yes/No) Temp Blank: Yes / No Cooler Temp on Receipt: 211 °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No

J011



L·A·B S·C·I·E·N·C·E·S

YOUR LAB OF CHOICE

Cooler Receipt Form

| | | | |
|--|-------------------------------------|------|-------------------------------------|
| Client: | ARCADISBP | SDG# | 877867 |
| Cooler Received/Opened On: 12/15/16 | Temperature Upon Receipt: | | 2.4 °c |
| Received By: Dakota Busby | | | |
| Signature: <i>Dakota Busby</i> | | | |
| Receipt Check List | | | |
| | Yes | No | N/A |
| Were custody seals on outside of cooler and intact? | | | <input checked="" type="checkbox"/> |
| Were custody papers properly filled out? | <input checked="" type="checkbox"/> | | |
| Did all bottles arrive in good condition? | <input checked="" type="checkbox"/> | | |
| Were correct bottles used for the analyses requested? | <input checked="" type="checkbox"/> | | |
| Was sufficient amount of sample sent in each bottle? | <input checked="" type="checkbox"/> | | |
| Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC) | | | <input checked="" type="checkbox"/> |
| If applicable, was an observable VOA headspace present? | | | <input checked="" type="checkbox"/> |
| Non Conformance Generated. (If yes see attached NCF) | | | <input checked="" type="checkbox"/> |

March 10, 2017

ARCADIS US - San Francisco, CA

Sample Delivery Group: L893775
Samples Received: 03/03/2017
Project Number: GP09BPNA.C112
Description: CA-11132 - GP09BPNA.C112
Site: 3201 35TH AVENUE
Report To: Megan Smoley
865 Cotting Lane, Suite C
Vacaville, CA 95688

Entire Report Reviewed By:

Brian Ford

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



| | |
|--|----|
| ¹ Cp: Cover Page | 1 |
| ² Tc: Table of Contents | 2 |
| ³ Ss: Sample Summary | 3 |
| ⁴ Cn: Case Narrative | 5 |
| ⁵ Sr: Sample Results | 6 |
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| MW-2 L893775-02 | 7 |
| MW-4 L893775-03 | 8 |
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| MW-8 L893775-06 | 11 |
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| |
|-----------------|
| ¹ Cp |
| ² Tc |
| ³ Ss |
| ⁴ Cn |
| ⁵ Sr |
| ⁶ Qc |
| ⁷ Gl |
| ⁸ Al |
| ⁹ Sc |

SAMPLE SUMMARY



MW-1 L893775-01 GW

| | | | Collected by Colin Rowland | Collected date/time 03/01/17 13:12 | Received date/time 03/03/17 09:00 |
|--|----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 1 | 03/10/17 06:19 | 03/10/17 06:19 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 1 | 03/09/17 22:27 | 03/09/17 22:27 | LRL |

1
Cp

2
Tc

3
Ss

MW-2 L893775-02 GW

| | | | Collected by Colin Rowland | Collected date/time 03/01/17 13:57 | Received date/time 03/03/17 09:00 |
|--|----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 25 | 03/05/17 02:02 | 03/05/17 02:02 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 100 | 03/09/17 08:32 | 03/09/17 08:32 | LRL |

4
Cn

5
Sr

6
Qc

MW-4 L893775-03 GW

| | | | Collected by Colin Rowland | Collected date/time 03/01/17 10:12 | Received date/time 03/03/17 09:00 |
|--|----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 1 | 03/05/17 02:26 | 03/05/17 02:26 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 1 | 03/09/17 05:50 | 03/09/17 05:50 | LRL |

7
Gl

8
Al

9
Sc

MW-5 L893775-04 GW

| | | | Collected by Colin Rowland | Collected date/time 03/01/17 12:55 | Received date/time 03/03/17 09:00 |
|--|----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 1 | 03/05/17 02:50 | 03/05/17 02:50 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 1 | 03/09/17 06:13 | 03/09/17 06:13 | LRL |

MW-7 L893775-05 GW

| | | | Collected by Colin Rowland | Collected date/time 03/01/17 11:10 | Received date/time 03/03/17 09:00 |
|--|----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 1 | 03/05/17 03:14 | 03/05/17 03:14 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 1 | 03/09/17 06:36 | 03/09/17 06:36 | LRL |

MW-8 L893775-06 GW

| | | | Collected by Colin Rowland | Collected date/time 03/01/17 12:30 | Received date/time 03/03/17 09:00 |
|--|----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 10 | 03/05/17 03:38 | 03/05/17 03:38 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 100 | 03/09/17 08:54 | 03/09/17 08:54 | LRL |

MW-9 L893775-07 GW

| | | | Collected by Colin Rowland | Collected date/time 03/01/17 11:30 | Received date/time 03/03/17 09:00 |
|--|----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 10 | 03/05/17 04:02 | 03/05/17 04:02 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 1 | 03/09/17 22:40 | 03/09/17 22:40 | LRL |

SAMPLE SUMMARY



MW-10R L893775-08 GW

Collected by
Colin Rowland

Collected date/time
03/01/17 13:32

Received date/time
03/03/17 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|--|----------|----------|-----------------------|--------------------|---------|
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 10 | 03/10/17 07:04 | 03/10/17 07:04 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 50 | 03/09/17 09:40 | 03/09/17 09:40 | LRL |

1
Cp

2
Tc

3
Ss

MW-11 L893775-09 GW

Collected by
Colin Rowland

Collected date/time
03/01/17 10:35

Received date/time
03/03/17 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|--|----------|----------|-----------------------|--------------------|---------|
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 1 | 03/05/17 04:50 | 03/05/17 04:50 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 1 | 03/09/17 06:59 | 03/09/17 06:59 | LRL |

4
Cn

5
Sr

6
Qc

RW-1 L893775-10 GW

Collected by
Colin Rowland

Collected date/time
03/01/17 10:55

Received date/time
03/03/17 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|--|----------|----------|-----------------------|--------------------|---------|
| Volatile Organic Compounds (GC) by Method 8015 | WG957821 | 1 | 03/05/17 05:15 | 03/05/17 05:15 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG957837 | 1 | 03/09/17 07:22 | 03/09/17 07:22 | LRL |

7
Gl

8
Al

9
Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 6770 | | 30.4 | 100 | 1 | 03/10/2017 06:19 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 112 | | | | 77.0-122 | | 03/10/2017 06:19 | WG957821 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 6.31 | | 0.331 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| Toluene | 1.12 | | 0.412 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| Ethylbenzene | 89.2 | | 0.384 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| Total Xylenes | 8.10 | | 1.06 | 3.00 | 1 | 03/09/2017 22:27 | WG957837 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| Ethanol | U | | 42.0 | 100 | 1 | 03/09/2017 22:27 | WG957837 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| Methyl tert-butyl ether | 7.51 | | 0.367 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 | 1 | 03/09/2017 22:27 | WG957837 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 03/09/2017 22:27 | WG957837 |
| (S) Toluene-d8 | 101 | | | 80.0-120 | | 03/09/2017 22:27 | WG957837 |
| (S) Dibromofluoromethane | 89.3 | | | 76.0-123 | | 03/09/2017 22:27 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 105 | | | 80.0-120 | | 03/09/2017 22:27 | WG957837 |
| (S) 4-Bromofluorobenzene | 95.5 | | | 80.0-120 | | 03/09/2017 22:27 | WG957837 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 35000 | | 760 | 2500 | 25 | 03/05/2017 02:02 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 108 | | | | 77.0-122 | | 03/05/2017 02:02 | WG957821 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 7630 | | 33.1 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| Toluene | 897 | | 41.2 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| Ethylbenzene | 1810 | | 38.4 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| Total Xylenes | 3920 | | 106 | 300 | 100 | 03/09/2017 08:32 | WG957837 |
| 1,2-Dichloroethane | U | | 36.1 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| 1,2-Dibromoethane | U | | 38.1 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| Di-isopropyl ether | U | | 32.0 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| Ethanol | U | | 4200 | 10000 | 100 | 03/09/2017 08:32 | WG957837 |
| Ethyl tert-butyl ether | U | | 27.0 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| Methyl tert-butyl ether | 175 | | 36.7 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| tert-Butyl alcohol | U | | 240 | 500 | 100 | 03/09/2017 08:32 | WG957837 |
| tert-Amyl Methyl Ether | U | | 26.0 | 100 | 100 | 03/09/2017 08:32 | WG957837 |
| (S) Toluene-d8 | 102 | | | 80.0-120 | | 03/09/2017 08:32 | WG957837 |
| (S) Dibromofluoromethane | 101 | | | 76.0-123 | | 03/09/2017 08:32 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 104 | | | 80.0-120 | | 03/09/2017 08:32 | WG957837 |
| (S) 4-Bromofluorobenzene | 105 | | | 80.0-120 | | 03/09/2017 08:32 | WG957837 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 03/05/2017 02:26 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 110 | | | | 77.0-122 | | 03/05/2017 02:26 | WG957821 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | U | | 0.331 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| Toluene | U | | 0.412 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| Ethylbenzene | U | | 0.384 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| Total Xylenes | U | | 1.06 | 3.00 | 1 | 03/09/2017 05:50 | WG957837 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| Ethanol | U | | 42.0 | 100 | 1 | 03/09/2017 05:50 | WG957837 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| Methyl tert-butyl ether | 2.31 | | 0.367 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 | 1 | 03/09/2017 05:50 | WG957837 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 03/09/2017 05:50 | WG957837 |
| (S) Toluene-d8 | 100 | | | 80.0-120 | | 03/09/2017 05:50 | WG957837 |
| (S) Dibromofluoromethane | 101 | | | 76.0-123 | | 03/09/2017 05:50 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 103 | | | 80.0-120 | | 03/09/2017 05:50 | WG957837 |
| (S) 4-Bromofluorobenzene | 106 | | | 80.0-120 | | 03/09/2017 05:50 | WG957837 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 426 | | 30.4 | 100 | 1 | 03/05/2017 02:50 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 102 | | | | 77.0-122 | | 03/05/2017 02:50 | WG957821 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|--------------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 32.8 | | 0.331 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| Toluene | 1.01 | | 0.412 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| Ethylbenzene | 22.6 | | 0.384 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| Total Xylenes | 8.62 | | 1.06 | 3.00 | 1 | 03/09/2017 06:13 | WG957837 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| Ethanol | U | | 42.0 | 100 | 1 | 03/09/2017 06:13 | WG957837 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 | 1 | 03/09/2017 06:13 | WG957837 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 03/09/2017 06:13 | WG957837 |
| (S) Toluene-d8 101 | | | | 80.0-120 | | 03/09/2017 06:13 | WG957837 |
| (S) Dibromofluoromethane 102 | | | | 76.0-123 | | 03/09/2017 06:13 | WG957837 |
| (S) a,a,a-Trifluorotoluene 104 | | | | 80.0-120 | | 03/09/2017 06:13 | WG957837 |
| (S) 4-Bromofluorobenzene 107 | | | | 80.0-120 | | 03/09/2017 06:13 | WG957837 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | U | | 30.4 | 100 | 1 | 03/05/2017 03:14 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 110 | | | | 77.0-122 | | 03/05/2017 03:14 | WG957821 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | U | | 0.331 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| Toluene | U | | 0.412 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| Ethylbenzene | U | | 0.384 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| Total Xylenes | U | | 1.06 | 3.00 | 1 | 03/09/2017 06:36 | WG957837 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| Ethanol | U | | 42.0 | 100 | 1 | 03/09/2017 06:36 | WG957837 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| Methyl tert-butyl ether | 7.44 | | 0.367 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 | 1 | 03/09/2017 06:36 | WG957837 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 03/09/2017 06:36 | WG957837 |
| (S) Toluene-d8 | 100 | | | 80.0-120 | | 03/09/2017 06:36 | WG957837 |
| (S) Dibromofluoromethane | 101 | | | 76.0-123 | | 03/09/2017 06:36 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 104 | | | 80.0-120 | | 03/09/2017 06:36 | WG957837 |
| (S) 4-Bromofluorobenzene | 107 | | | 80.0-120 | | 03/09/2017 06:36 | WG957837 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 21500 | | 304 | 1000 | 10 | 03/05/2017 03:38 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 108 | | | | 77.0-122 | | 03/05/2017 03:38 | WG957821 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 138 | | 33.1 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| Toluene | 57.2 | J | 41.2 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| Ethylbenzene | 1120 | | 38.4 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| Total Xylenes | 1880 | | 106 | 300 | 100 | 03/09/2017 08:54 | WG957837 |
| 1,2-Dichloroethane | U | | 36.1 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| 1,2-Dibromoethane | U | | 38.1 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| Di-isopropyl ether | U | | 32.0 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| Ethanol | U | | 4200 | 10000 | 100 | 03/09/2017 08:54 | WG957837 |
| Ethyl tert-butyl ether | U | | 27.0 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| Methyl tert-butyl ether | U | | 36.7 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| tert-Butyl alcohol | U | | 240 | 500 | 100 | 03/09/2017 08:54 | WG957837 |
| tert-Amyl Methyl Ether | U | | 26.0 | 100 | 100 | 03/09/2017 08:54 | WG957837 |
| (S) Toluene-d8 | 101 | | | 80.0-120 | | 03/09/2017 08:54 | WG957837 |
| (S) Dibromofluoromethane | 101 | | | 76.0-123 | | 03/09/2017 08:54 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 104 | | | 80.0-120 | | 03/09/2017 08:54 | WG957837 |
| (S) 4-Bromofluorobenzene | 106 | | | 80.0-120 | | 03/09/2017 08:54 | WG957837 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 9210 | | 304 | 1000 | 10 | 03/05/2017 04:02 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 109 | | | | 77.0-122 | | 03/05/2017 04:02 | WG957821 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 1.92 | | 0.331 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| Toluene | U | | 0.412 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| Ethylbenzene | 16.7 | | 0.384 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| Total Xylenes | 3.65 | | 1.06 | 3.00 | 1 | 03/09/2017 22:40 | WG957837 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| Ethanol | U | | 42.0 | 100 | 1 | 03/09/2017 22:40 | WG957837 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 | 1 | 03/09/2017 22:40 | WG957837 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 03/09/2017 22:40 | WG957837 |
| (S) Toluene-d8 | 101 | | | 80.0-120 | | 03/09/2017 22:40 | WG957837 |
| (S) Dibromofluoromethane | 89.3 | | | 76.0-123 | | 03/09/2017 22:40 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 103 | | | 80.0-120 | | 03/09/2017 22:40 | WG957837 |
| (S) 4-Bromofluorobenzene | 94.0 | | | 80.0-120 | | 03/09/2017 22:40 | WG957837 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 15600 | | 304 | 1000 | 10 | 03/10/2017 07:04 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) | 89.2 | | | 77.0-122 | | 03/10/2017 07:04 | WG957821 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 1610 | | 16.6 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| Toluene | 1410 | | 20.6 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| Ethylbenzene | 799 | | 19.2 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| Total Xylenes | 2340 | | 53.0 | 150 | 50 | 03/09/2017 09:40 | WG957837 |
| 1,2-Dichloroethane | U | | 18.0 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| 1,2-Dibromoethane | U | | 19.0 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| Di-isopropyl ether | U | | 16.0 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| Ethanol | U | | 2100 | 5000 | 50 | 03/09/2017 09:40 | WG957837 |
| Ethyl tert-butyl ether | U | | 13.5 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| Methyl tert-butyl ether | U | | 18.4 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| tert-Butyl alcohol | U | | 120 | 250 | 50 | 03/09/2017 09:40 | WG957837 |
| tert-Amyl Methyl Ether | U | | 13.0 | 50.0 | 50 | 03/09/2017 09:40 | WG957837 |
| (S) Toluene-d8 | 101 | | | 80.0-120 | | 03/09/2017 09:40 | WG957837 |
| (S) Dibromofluoromethane | 101 | | | 76.0-123 | | 03/09/2017 09:40 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 105 | | | 80.0-120 | | 03/09/2017 09:40 | WG957837 |
| (S) 4-Bromofluorobenzene | 107 | | | 80.0-120 | | 03/09/2017 09:40 | WG957837 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 42.4 | J | 30.4 | 100 | 1 | 03/05/2017 04:50 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 110 | | | | 77.0-122 | | 03/05/2017 04:50 | WG957821 |

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | U | | 0.331 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| Toluene | U | | 0.412 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| Ethylbenzene | U | | 0.384 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| Total Xylenes | U | | 1.06 | 3.00 | 1 | 03/09/2017 06:59 | WG957837 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| Ethanol | U | | 42.0 | 100 | 1 | 03/09/2017 06:59 | WG957837 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 | 1 | 03/09/2017 06:59 | WG957837 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 03/09/2017 06:59 | WG957837 |
| (S) Toluene-d8 | 101 | | | 80.0-120 | | 03/09/2017 06:59 | WG957837 |
| (S) Dibromofluoromethane | 101 | | | 76.0-123 | | 03/09/2017 06:59 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 103 | | | 80.0-120 | | 03/09/2017 06:59 | WG957837 |
| (S) 4-Bromofluorobenzene | 108 | | | 80.0-120 | | 03/09/2017 06:59 | WG957837 |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------------|--------|-----------|------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| TPHG C5 - C12 | 225 | | 30.4 | 100 | 1 | 03/05/2017 05:15 | WG957821 |
| (S) a,a,a-Trifluorotoluene(FID) 110 | | | | 77.0-122 | | 03/05/2017 05:15 | WG957821 |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------------|--------|-----------|-------|----------|----------|------------------|--------------------------|
| | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | U | | 0.331 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| Toluene | U | | 0.412 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| Ethylbenzene | U | | 0.384 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| Total Xylenes | U | | 1.06 | 3.00 | 1 | 03/09/2017 07:22 | WG957837 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| Ethanol | U | | 42.0 | 100 | 1 | 03/09/2017 07:22 | WG957837 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 | 1 | 03/09/2017 07:22 | WG957837 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 | 1 | 03/09/2017 07:22 | WG957837 |
| (S) Toluene-d8 | 102 | | | 80.0-120 | | 03/09/2017 07:22 | WG957837 |
| (S) Dibromofluoromethane | 101 | | | 76.0-123 | | 03/09/2017 07:22 | WG957837 |
| (S) a,a,a-Trifluorotoluene | 103 | | | 80.0-120 | | 03/09/2017 07:22 | WG957837 |
| (S) 4-Bromofluorobenzene | 105 | | | 80.0-120 | | 03/09/2017 07:22 | WG957837 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3202173-3 03/04/17 19:33

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------------------|-----------|--------------|--------|----------|
| TPHG C5 - C12 | U | | 30.4 | 100 |
| (S) a,a,a-Trifluorotoluene(FID) | 109 | | | 77.0-122 |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202173-1 03/04/17 18:21 • (LCSD) R3202173-2 03/04/17 18:45

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|---------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| TPHG C5 - C12 | 5500 | 5680 | 5650 | 103 | 103 | 71.0-130 | | | 0.510 | 20 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | 111 | 110 | 77.0-122 | | | | |

5 Sr

6 Qc

L893690-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893690-01 03/04/17 21:58 • (MS) R3202173-4 03/04/17 20:46 • (MSD) R3202173-5 03/04/17 21:10

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TPHG C5 - C12 | 5500 | ND | 2910 | 2880 | 52.8 | 52.3 | 1 | 18.0-158 | | | 0.960 | 20 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 104 | 104 | | 77.0-122 | | | | |

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3201896-3 03/08/17 15:51

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|----------|
| | ug/l | | ug/l | ug/l |
| Benzene | U | | 0.331 | 1.00 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 |
| Di-isopropyl ether | U | | 0.320 | 1.00 |
| Ethylbenzene | U | | 0.384 | 1.00 |
| Ethanol | U | | 42.0 | 100 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 |
| Toluene | U | | 0.412 | 1.00 |
| Xylenes, Total | U | | 1.06 | 3.00 |
| tert-Amyl Methyl Ether | U | | 0.260 | 1.00 |
| Ethyl tert-butyl ether | U | | 0.270 | 1.00 |
| tert-Butyl alcohol | U | | 2.40 | 5.00 |
| (S) Toluene-d8 | 101 | | | 80.0-120 |
| (S) Dibromofluoromethane | 100 | | | 76.0-123 |
| (S) a,a,a-Trifluorotoluene | 103 | | | 80.0-120 |
| (S) 4-Bromofluorobenzene | 107 | | | 80.0-120 |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201896-1 03/08/17 14:42 • (LCSD) R3201896-2 03/08/17 15:05

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | ug/l | ug/l | ug/l | % | % | % | | | % | % |
| Benzene | 25.0 | 23.5 | 24.3 | 94.1 | 97.1 | 69.0-123 | | | 3.10 | 20 |
| 1,2-Dibromoethane | 25.0 | 29.3 | 29.5 | 117 | 118 | 77.0-123 | | | 0.660 | 20 |
| 1,2-Dichloroethane | 25.0 | 25.3 | 26.1 | 101 | 104 | 67.0-126 | | | 3.00 | 20 |
| Di-isopropyl ether | 25.0 | 21.4 | 22.0 | 85.5 | 88.1 | 59.0-133 | | | 3.03 | 20 |
| Ethylbenzene | 25.0 | 27.5 | 27.4 | 110 | 110 | 77.0-120 | | | 0.250 | 20 |
| Methyl tert-butyl ether | 25.0 | 24.2 | 24.8 | 96.7 | 99.1 | 64.0-123 | | | 2.53 | 20 |
| Toluene | 25.0 | 24.7 | 24.8 | 98.7 | 99.1 | 77.0-120 | | | 0.450 | 20 |
| Xylenes, Total | 75.0 | 82.9 | 82.9 | 111 | 111 | 77.0-120 | | | 0.000 | 20 |
| (S) Toluene-d8 | | | | 101 | 100 | 80.0-120 | | | | |
| (S) Dibromofluoromethane | | | | 102 | 102 | 76.0-123 | | | | |
| (S) a,a,a-Trifluorotoluene | | | | 103 | 103 | 80.0-120 | | | | |
| (S) 4-Bromofluorobenzene | | | | 105 | 105 | 80.0-120 | | | | |



L893548-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893548-06 03/09/17 07:45 • (MS) R3201896-5 03/09/17 10:03 • (MSD) R3201896-6 03/09/17 10:28

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|-----------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene | 25.0 | 887 | 1610 | 1660 | 115 | 123 | 25 | 34.0-147 | | | 3.06 | 20 |
| 1,2-Dibromoethane | 25.0 | ND | 797 | 791 | 128 | 127 | 25 | 54.0-140 | | | 0.750 | 20 |
| 1,2-Dichloroethane | 25.0 | ND | 695 | 701 | 111 | 112 | 25 | 47.0-141 | | | 0.900 | 20 |
| Di-isopropyl ether | 25.0 | ND | 640 | 640 | 98.7 | 98.7 | 25 | 44.0-144 | | | 0.0800 | 20 |
| Ethylbenzene | 25.0 | 97.3 | 882 | 883 | 126 | 126 | 25 | 42.0-147 | | | 0.0500 | 20 |
| Methyl tert-butyl ether | 25.0 | 317 | 1030 | 1040 | 113 | 116 | 25 | 42.0-142 | | | 1.55 | 20 |
| Toluene | 25.0 | 35.8 | 726 | 719 | 110 | 109 | 25 | 42.0-141 | | | 1.02 | 20 |
| Xylenes, Total | 75.0 | 182 | 2490 | 2510 | 123 | 124 | 25 | 41.0-148 | | | 0.640 | 20 |
| <i>(S) Toluene-d8</i> | | | | | 101 | 100 | | 80.0-120 | | | | |
| <i>(S) Dibromofluoromethane</i> | | | | | 102 | 102 | | 76.0-123 | | | | |
| <i>(S) a,a,a-Trifluorotoluene</i> | | | | | 103 | 102 | | 80.0-120 | | | | |
| <i>(S) 4-Bromofluorobenzene</i> | | | | | 105 | 105 | | 80.0-120 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

| | |
|-----------------|--|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|-----------|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

| | | | |
|-----------------------|-------------|-----------------------------|-------------------|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Connecticut | PH-0197 | North Carolina ¹ | DW21704 |
| Florida | E87487 | North Carolina ² | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia ¹ | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky ¹ | 90010 | South Dakota | n/a |
| Kentucky ² | 16 | Tennessee ¹⁴ | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

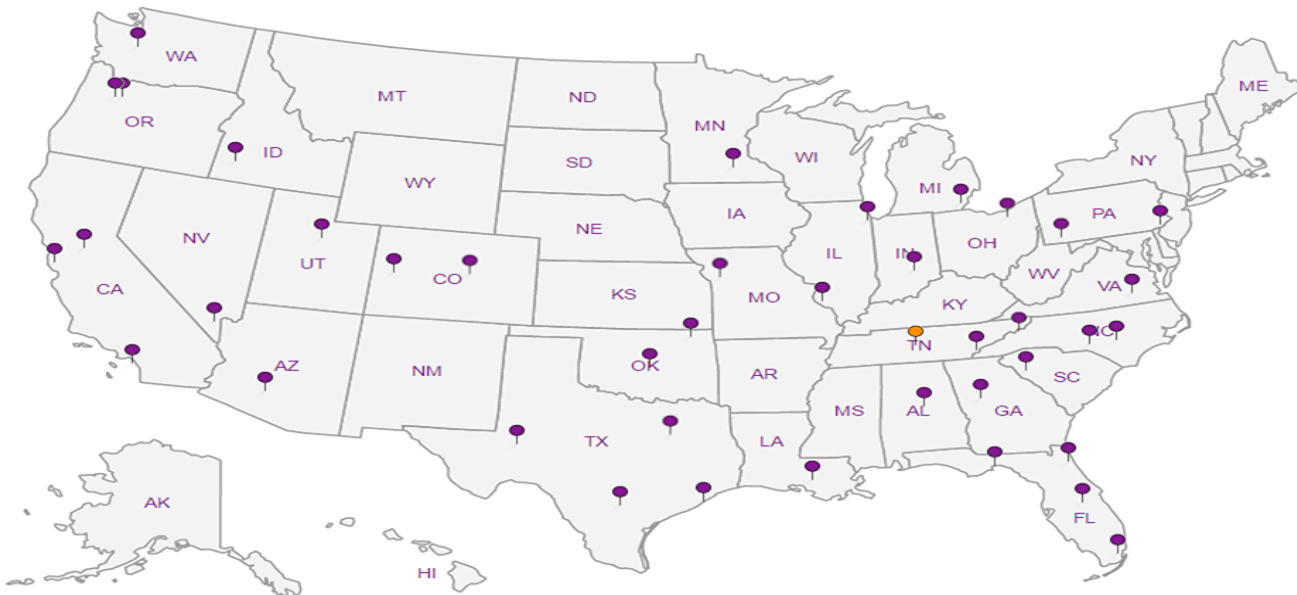
Third Party & Federal Accreditations

| | | | |
|-------------------------------|---------|------|---------|
| A2LA – ISO 17025 | 1461.01 | AIHA | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Chain of Custody Record

ARCADIS Project Name: CA 11132

Req Due Date (mm/dd/yy): Standard TAT Rush TAT: Yes No

Lab Work Order Number: _____

| | | |
|--|---|---|
| Lab Name: ESC Labs | Facility Address: 3201 35th Ave. | Consultant/Contractor: Blaine Tech Services, Inc. |
| Lab Address: 12065 Lebanon Rd., Mt. Juliet, TN 37122 | City, State, ZIP Code: Oakland, CA | Blaine Tech Project No: ARCADIS/BP- 11132 |
| Lab PM: Jarred Willis | Lead Regulatory Agency: Alameda County EHS / SF RWQCB | Consultant/Contractor Address: 1680 Rogers Ave., San Jose, CA 95112 |
| Lab Phone: 615.758.5858 | California Global ID No.: T0600100213 | Consultant/Contractor PM: Michael Ninokata |
| Lab Shipping Acct: | ARCADIS Project No: GP09BPNA C112 | Phone: 408.573.0555 x202 |
| Lab Bottle Order No: | ARCADIS PM/ Phone: <u>Megan Smoley</u> | Email EDD To: <u>megan.smoley@arcadis.com</u> |
| Other Info: | Email: <u>megan.smoley@arcadis.com</u> | Invoice To: ARCADIS <u>X</u> Contractor _____ |

| Lab No. | Sample Description | Date | Time | Matrix | | | No. Containers / Preservative | | | | | | | Requested Analyses | | | | | | Report Type & QC Level | | Comments | | | | | |
|---------|--------------------|--------|------|--------------|----------------|-------------|-------------------------------|-------------|--------------------------------|------------------|-----|----------|-------------|----------------------------|------------------------------|--|---|---|---|------------------------|--|----------|-------------------|-------------------------|--|-----------------|--|
| | | | | Soil / Solid | Water / Liquid | Air / Vapor | Total Number of Containers | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | Methanol | GRO 8015(M) | BTEX (5) Oxygenates (8260) | 1,2-DCA, EDB, Ethanol (8260) | | | | | | | | Standard <u>X</u> | Full Data Package _____ | | | |
| | TB-11132-03012017 | 3/1/17 | 0800 | X | | | 2 | | | | | | | | | | X | X | X | | | | | | | On hold L093779 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | |
|---|-------------------------------|--|---------------|-------------|---|--|---------------|-------------|
| Sampler's Name: <u>Colin Rowland</u> | Relinquished By / Affiliation | | Date | Time | Accepted By / Affiliation | | Date | Time |
| Sampler's Company: <u>Blaine Tech Services, Inc.</u> | <u>A Rhl (BTS)</u> | | <u>3/1/17</u> | <u>1600</u> | <u>Colin Rowland (Sample Custodian)</u> | | <u>3/1/17</u> | <u>1600</u> |
| Shipment Method: <u>Fed Ex</u> Ship Date: <u>3/2/17</u> | <u>(Sample Custodian)</u> | | <u>3/2/17</u> | <u>1430</u> | <u>Jim DeLoach</u> | | <u>3-3-17</u> | <u>0900</u> |
| Shipment Tracking No: _____ | | | | | | | | |

Special Instructions: (5) Oxygenates = MTBE, TBA, DIPE, ETBE, TAME

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: 1.7 °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No

MW 11 COC51

ESC LAB SCIENCES Cooler Receipt Form

| Client: | ARCADISBP | SDG# | L893775 | |
|-------------------------------------|--------------|------|---------|--|
| Cooler Received/Opened On: 3/ 3 /17 | Temperature: | 6.7 | | |
| Received By: jon deboard | | | | |
| Signature: <i>Jon Deboard</i> | | | | |
| Receipt Check List | NP | Yes | No | |
| COC Seal Present / Intact? | ✓ | | | |
| COC Signed / Accurate? | | ✓ | | |
| Bottles arrive intact? | | ✓ | | |
| Correct bottles used? | | ✓ | | |
| Sufficient volume sent? | | ✓ | | |
| If Applicable | | | | |
| VOA Zero headspace? | | ✓ | | |
| Preservation Correct / Checked? | | | | |

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_REPORT FILE

SUCCESS

Your GEO_REPORT file has been successfully submitted!

| | |
|------------------------------------|--|
| <u>Submittal Type:</u> | GEO_REPORT |
| <u>Report Title:</u> | 11132 4Q16-1Q17 GMR |
| <u>Report Type:</u> | Monitoring Report - Semi-Annually |
| <u>Report Date:</u> | 4/24/2017 |
| <u>Facility Global ID:</u> | T0600100213 |
| <u>Facility Name:</u> | BP #11132 |
| <u>File Name:</u> | CA 11132 170424 BP 1Q17 GMR.pdf |
| <u>Organization Name:</u> | ARCADIS |
| <u>Username:</u> | ARCADISBP |
| <u>IP Address:</u> | 199.19.248.55 |
| <u>Submittal Date/Time:</u> | 4/24/2017 10:43:20 AM |
| <u>Confirmation Number:</u> | 2636808931 |

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