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July 29, 2014

Mr. Keith Nowell
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Quarterly Summary Report, Second Quarter 2014

**Site: 76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California
Fuel Leak Case No. RO0000219**

Dear Mr. Nowell;

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please call:

Walter T. Sprague
Pacific Convenience & Fuel
7180 Koll Center Parkway, Suite 100
Pleasanton, California 94566
Tel: (925) 931-5714
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WSprague@pcandf.com

Sincerely,

PACIFIC CONVENIENCE & FUEL



WALTER SPRAGUE
Director of Retail Services

Attachment

Quarterly Summary Report, Second Quarter 2014

*76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California*

*Alameda County Health Care Services
Agency Fuel Leak Case No. R00000219*

*San Francisco Bay, Regional Water Quality
Control Board Case No. 01-1601*

GeoTracker Global ID No. T0600101476

Antea Group Project No. I42705191

July 29, 2014

Prepared for:
Mr. Keith Nowell
Alameda County Health Care
Services Agency
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502-6577

Prepared by:
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1.0 INTRODUCTION

Antea™ Group is pleased to submit this *Quarterly Summary Report, Second Quarter 2014*, for the referenced site in Oakland, California (**Figure 1**). The subject site is an operating 76 station located on the southwestern corner of Hegenberger Road and Edgewater Drive in Oakland, CA. Station facilities include three underground storage tanks (USTs), two dispenser islands, a station building, and a carwash. A total of fourteen groundwater monitoring wells are located at or near the site (**Figures 1 and 2**). Please refer to **Appendix A** for additional site information and for the history of environmental investigations and remedial actions.

This report summarizes the data obtained from the recent groundwater monitoring and sampling event conducted on June 12, 2014. Included herein are site figures, groundwater contaminant data tables, and a discussion of trends. This report has received a technical review by Mr. Dennis Dettloff, California Professional Geologist No. 7480.

1.1 Work Performed [Second Quarter 2014]

1. Antea Group mailed out the Public Notice Fact Sheet, dated April 8, 2014 detailing the proposed soil excavation work.
2. Antea Group submitted the *Quarterly Summary Report, First Quarter 2014*, dated May 1, 2014 to the Alameda County Health Care Services Agency (ACHCSA).
3. Antea Group submitted the *Work Plan – Monitoring Well Destruction*, dated May 8, 2014 to the ACHCSA.
4. Blaine Tech Services, Inc. (Blaine Tech) conducted the second quarter 2014 groundwater monitoring and sampling event on June 12, 2014.
5. Antea Group destroyed the on-site wells as described in the *Work Plan – Monitoring Well Destruction* on June 18, 2014 in preparation for on-site excavation activities.
6. Antea Group submitted the *Remedial Design and Implementation Plan*, dated June 19, 2014 to the ACHCSA.
7. Antea Group submitted the *Work Plan – CPT Investigation*, dated June 20, 2014 to the ACHCSA.

1.2 Work Proposed [Third Quarter 2014]

1. Antea Group will submit the *Quarterly Summary Report, Second Quarter 2014* (contained herein) to the ACHCSA.
2. Antea Group will conduct the site investigation activities as outlined by the *Work Plan - Monitoring Well Installation*, dated November 21, 2013.

3. Antea Group will conduct the site investigation activities as outlined by the *Work Plan – CPT Investigation*, dated June 20, 2014.
4. Blaine Tech will conduct the third quarter 2014 monitoring and sampling event.

2.0 CURRENT PROJECT STATUS

| | |
|---|--|
| Current phase of project: | Quarterly Groundwater Monitoring |
| Local Oversight Program (LOP) – Lead agency for cleanup oversight: | Alameda County Health Care Services Agency Case No. RO0000219 |
| Secondary agency(s): | San Francisco Bay Regional Water Quality Control Board Case No. 01-1601 |
| Monitoring well gauging schedule: | Quarterly: MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17 |
| Monitoring well sampling schedule: | Quarterly: MW-6, MW-10, MW-11, MW-12, MW-12A, and MW-13 through 17 Semi-Annual (second and fourth quarters): MW-3 and MW-7 through MW-9 |
| Total number of monitoring/remediation wells (Table 1): | Fourteen (MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17). |
| Range of well depths (total depth below ground surface, bgs) (Table 1): | Wells are set from 13 feet to 34 feet bgs. |
| Wells with historical measurable LNAPL (light non-aqueous phase liquid): | Former monitoring wells MW-1 and MW-2 and current monitoring well MW-6 |
| Historical depth to water range, in feet below top of casing (BTOC): | Min: 0.07 (MW-9, Q1 2005) Max: 8.42 (MW-6, Q4 2010) |
| Historical groundwater elevation range (ft) for monitoring wells MW-1 through MW-17 | Min: 2.77 (MW-3, Q3 1994) Max: 9.70 (MW-9, Q3 2012) |
| Local receptors: | See Appendix A |
| Current remediation technique | None |

2.1 Regulatory Correspondence

Antea Group received an email from ACHCSA dated April 3, 2014. The email detailed ACHCSA's approval of the draft Public Notice Fact Sheet and detailed the distribution timeline for mailing out the fact sheet and the public comment period. The email also outlined a timeline for submitting documents requested in the email. Antea Group received a letter from ACHCSA dated June 12, 2014. The letter detailed ACHCSA's denial of a request made by Beretta Property Management to destroy monitoring wells MW-7 and MW-8 which are located on the property owned by Beretta Property Management adjacent to the site to the south.

2.2 Remedial Activities

No remedial activities took place during the second quarter 2014.

2.3 Groundwater Monitoring

During the second quarter 2014 groundwater monitoring and sampling event, fourteen monitoring wells were gauged, purged, and sampled by Blaine Tech per standard sampling protocol (**Appendix B**). Copies of Blaine Tech’s field data sheets are presented as **Appendix C**. The recent gauging and sampling data are summarized below and in **Table 2**. Historical gauging and sampling data are summarized in **Tables 3, 3a, 3b, 3c, and 3d**.

| | |
|---|--|
| Well gauging and sampling date: | June 12, 2014 |
| Wells gauged: | MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17 |
| Wells sampled: | MW-3, MW-6 through MW-12, MW-12A, and MW-13 through MW-17 |
| Purge method: | 3 well casing volumes via electric, submersible pump |
| Sample collection method: | Disposable bailers |
| Groundwater parameters measured (Attachment C): | Temperature, pH, Conductivity, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), and Turbidity |
| Wells with measurable LNAPL: | None |
| Current depth to water range (ft BTOC): | Min: 2.39 (MW-9) Max: 5.76 (MW-7) |
| Current groundwater elevation range (ft): | Min: 5.88 (MW-7) Max: 8.55 (MW-9) |
| Change in water depths from previous event (average change for all gauged wells): | 0.74 foot increase |
| Groundwater flow direction and gradient in foot per foot (ft/ft): | South at 0.02 ft/ft |

2.3.1 Groundwater Flow Gradient and Directional Trends

The second quarter 2014 groundwater monitoring and sampling event was performed by Blaine Tech on June 12, 2014. The average groundwater elevation decreased 0.74 feet from the March 2014 event. Depth to groundwater in the site monitoring wells ranged from 2.39 feet (MW-9) to 5.76 feet (MW-7) BTOC during the current event. The groundwater flow direction and gradient were interpreted to be to the south at 0.02 ft/ft during the current event (**Table 4**).

2.3.2 Groundwater Quality Data

Groundwater samples collected during the second quarter 2014 monitoring and sampling event were submitted with chain-of-custody (COC) documentation to Kiff Analytical LLC (Kiff), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 08263CA). The complete analytical report and Antea Group’s laboratory data validation checklist is presented as **Appendix D**. Groundwater samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons as diesel (TPHd) [silica gel treated] by Environmental Protection Agency (EPA) Method 8015M;

- Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), and ethanol by EPA Method 8260B.

Groundwater analytical results are presented in **Table 2** (current) and **Tables 3, 3a, 3b, 3c, and 3d** (historical). The following ranges of contaminant concentrations were reported in the specified site wells, groundwater samples collected on June 12, 2014. Only the reported contaminants are listed in the table below.

| Constituents | Number of Reported Samples Above LRL of the Samples Collected | Minimum Reported Concentration, in µg/L (Sample ID) | Maximum Reported Concentration, in µg/L (Sample ID) |
|---------------|---|---|---|
| TPHg | 5 of 14 | 200 (MW-12) | 36,000 (MW-14) |
| TPHd | 3 of 14 | 64 (MW-14) | 570 (MW-6) |
| Benzene | 5 of 14 | 4.4 (MW-10) | 3,600 (MW-17) |
| Toluene | 4 of 14 | 3.3 (MW-12) | 410 (MW-17) |
| Ethylbenzene | 4 of 14 | 4.2 (MW-12) | 3,000 (MW-14) |
| Total Xylenes | 5 of 14 | 0.91 (MW-10) | 6,500 (MW-14) |
| MTBE | 8 of 14 | 3.3 (MW-9) | 920 (MW-12) |
| TBA | 7 of 14 | 8.6 (MW-12) | 440 (MW-16) |

Explanations:

µg/L = Micrograms per liter

LRL = Laboratory reporting limit

2.3.3 Groundwater Contaminant Trends

During the second quarter 2014, analytical results from the groundwater sample collected from monitoring well MW-3 indicated that TPHg decreased in concentration and MTBE and TBA increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-6 indicated that TPHd, benzene, toluene, total xylenes, and MTBE decreased in concentration and TPHg, ethylbenzene, and TBA increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-9 indicated that MTBE increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-10 indicated that benzene and total xylenes increased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-11 indicated that MTBE decreased in concentration. Analytical results from the groundwater sample collected from monitoring well MW-12 indicated that MTBE decreased in concentration and TPHg, BTEX, and TBA increased in concentration. MTBE concentrations decreased in monitoring well MW-13 and TBA concentrations increased. Analytical results from the groundwater sample collected from monitoring well MW-14 indicated a decrease in TPHd, TPHg, and total xylenes concentrations and an increase in toluene and ethylbenzene concentrations. Analytical results from the groundwater sample collected from monitoring well MW-15 indicated a decrease in TBA concentrations and an increase in MTBE concentrations. Analytical results from the groundwater sample collected from monitoring well MW-16 indicated a decrease in



MTBE concentration and an increase in TBA concentrations. Analytical results from the groundwater sample collected from monitoring well MW-17 indicated a decrease in TPHd, TBA, and ethanol concentrations and an increase in TPHg and BTEX concentrations. Isoconcentration maps for TPHg, benzene, MTBE, and TPHd are presented on **Figures 4** through **7** and historical groundwater flow directions are shown on **Figure 8**. Concentration vs. Time graphs for monitoring wells MW-6, MW-12, MW-13, MW-14, and MW-17 are presented as **Appendix E**. Based on the graphs, concentrations of TPHd, TPHg, and benzene in monitoring wells MW-6 and MW-12 are decreasing over time and MTBE is stable. Concentrations of TPHd, TPHg, and MTBE are decreasing in monitoring well MW-13 and benzene is stable. Concentrations of TPHg, benzene, and MTBE are relatively stable in monitoring well MW-14 and TPHd is decreasing. Concentrations of TPHg and benzene are increasing in monitoring well MW-17 while TPHd concentrations are decreasing and MTBE concentrations are stable.

2.3.4 Waste Disposal Summary

Approximately 133 gallons of waste water were generated during well purging/sampling and equipment cleaning during the fourth quarter event. The waste water was transported to Blaine Tech’s bulk facility in San Jose, California. After the batching process, the wastewater will be transported to Seaport Environmental in Redwood City, California for disposal.

2.3.5 Quality Assurance / Quality Control

Antea Group’s QA/QC measures included use of a field duplicate and a detailed QA/QC data validation check on the Kiff laboratory analytical results for the June 2014 sampling event. Antea Group’s laboratory data validation checklist and the Kiff laboratory report are presented as **Appendix D**.

| | |
|--|--------------------------------|
| Laboratory QA/QC Performed: | Yes (validated by Antea Group) |
| Laboratory Data Qualifiers: | Yes – two qualifiers* |
| Are the data valid for their intended purpose? | Yes, the data are valid |

*The Method Reporting Limit (MRL) for Ethanol has been increased due to the presence of an interfering compound for sample MW-10_20140630.

*At the time of receipt by the laboratory, the temperature of the sample was -0.8 degrees C.

Based on a review of the laboratory’s analytical report, including their QA/QC procedures and those implemented by Antea Group, we conclude that the laboratory data obtained during this groundwater sampling event are valid for their intended purpose.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Antea Group recommends that all monitoring wells MW-3 and MW-6, MW-11, MW-13, MW-14, MW-15, and MW-16 be purged and sampled on a semi-annual basis during the second and fourth quarters of each year. In addition, Antea Group recommends that monitoring wells MW-7 and MW-8 be purged and sampled annually during the second quarter of each year. As indicated above, monitoring wells MW-10, MW-12, MW-12A, and MW-17 were destroyed in preparation of the upcoming site excavation activities.

4.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. For any reports cited that were not generated by Delta or Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Prepared by:



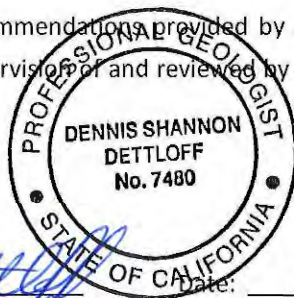
Edward T. Weyrens, G.I.T.
Project Professional

Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



Dennis S. Dettloff
Senior Project Manager
California Registered Professional Geologist No. 7480



Date: 7/29/14

cc: GeoTracker (upload)

Figures

- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Groundwater Elevation Contour Map – June 12, 2014
- Figure 4 Dissolved Phase TPHg Isoconcentration Map – June 12, 2014
- Figure 5 Dissolved Phase Benzene Isoconcentration Map – June 12, 2014
- Figure 6 Dissolved Phase MTBE Isoconcentration Map – June 12, 2014
- Figure 7 Dissolved Phase TPHd Isoconcentration Map – June 12, 2014
- Figure 8 Historical Groundwater Flow Directions

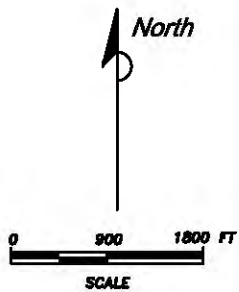
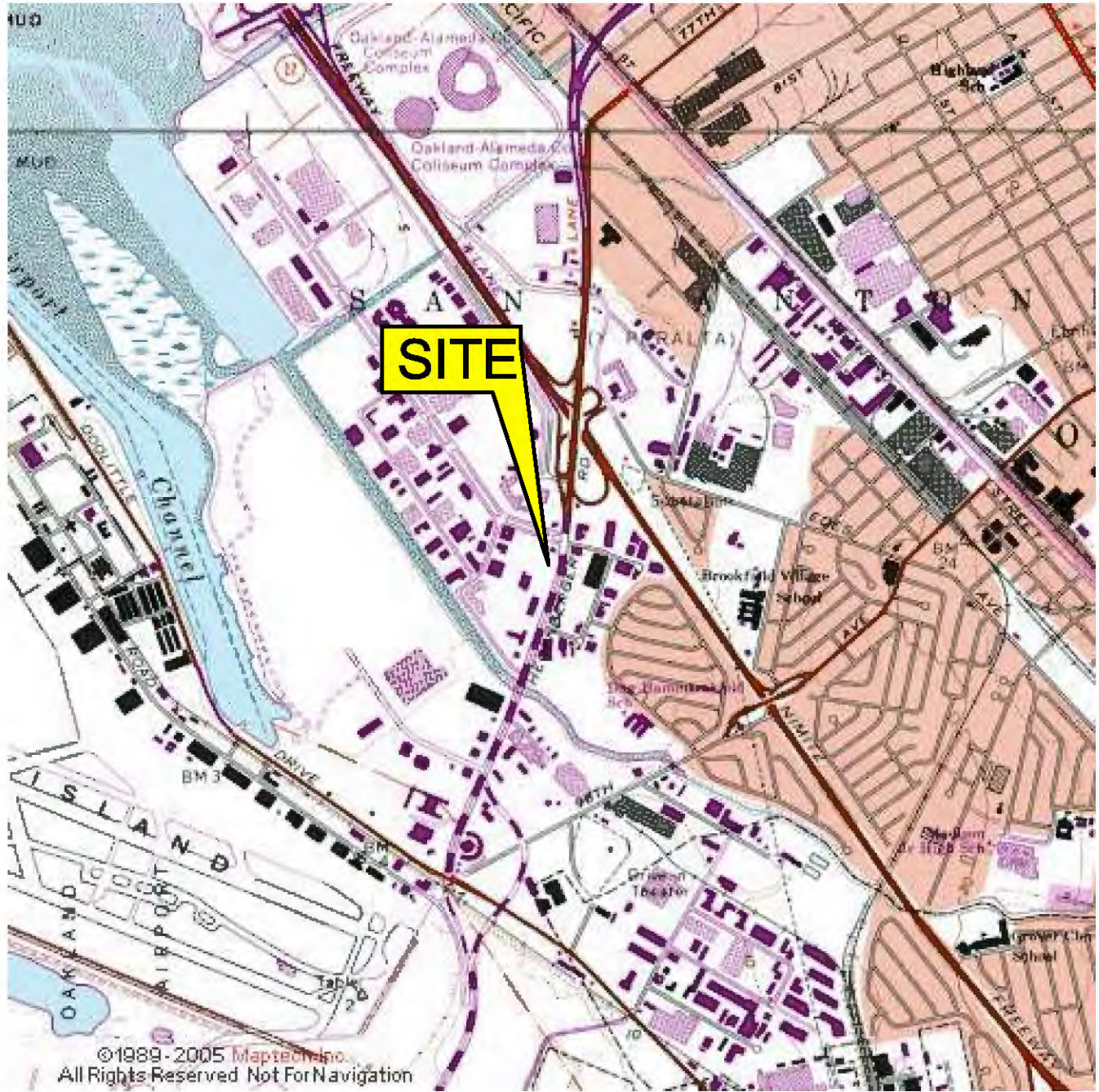


FIGURE 1
SITE LOCATION MAP
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | |
|--------------------------|-------------------|-------------------------------|
| PROJECT NO. 142705191 | PREPARED BY EW | DRAWN BY DR/JH |
| DATE 1/31/11 | REVIEWED BY DD | FILE NAME 5043-SiteLocator |



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)

EDGEWATER DR.

LEGEND

- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL

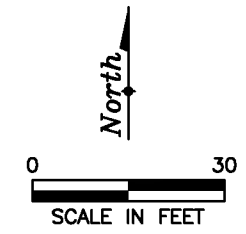
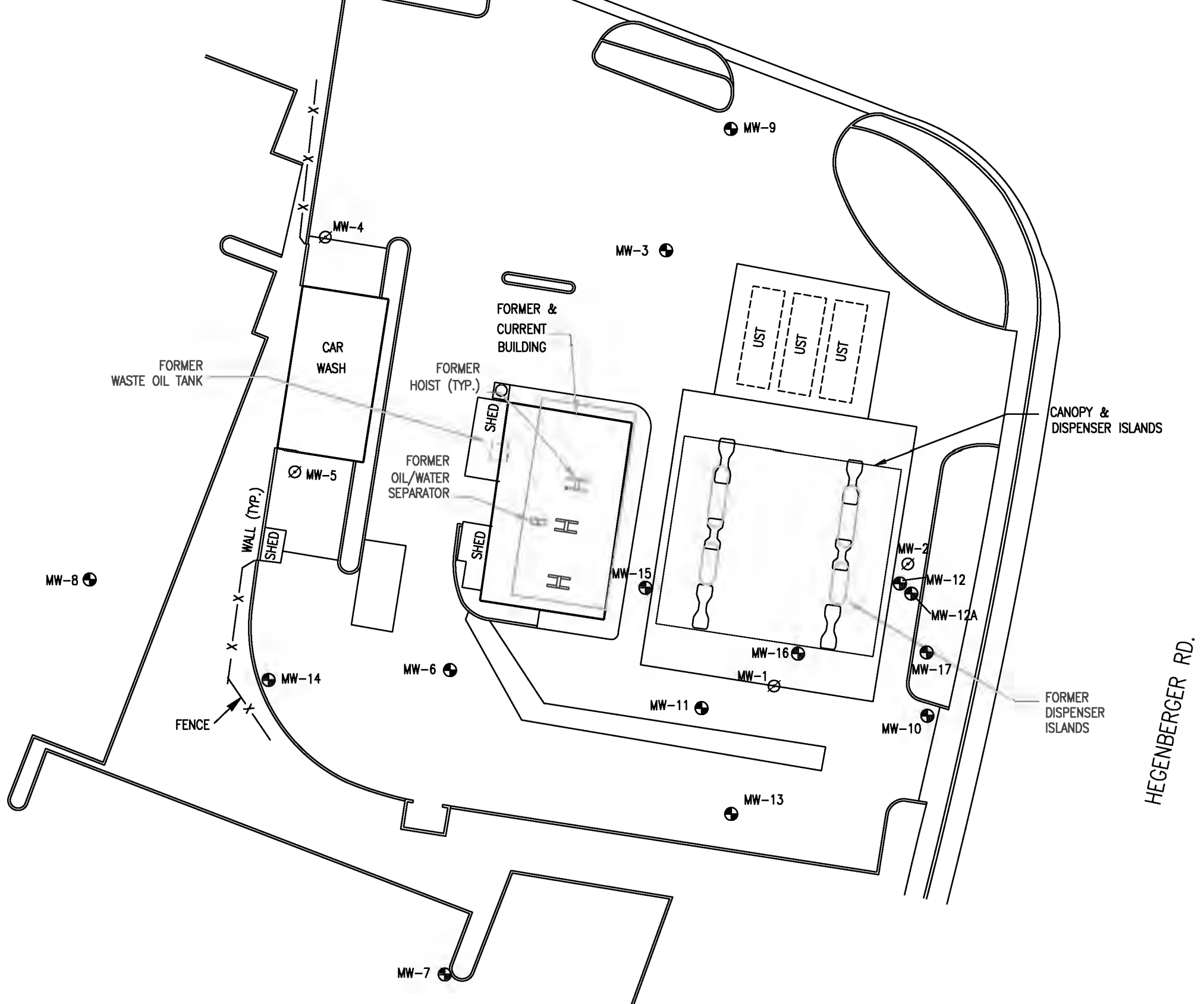

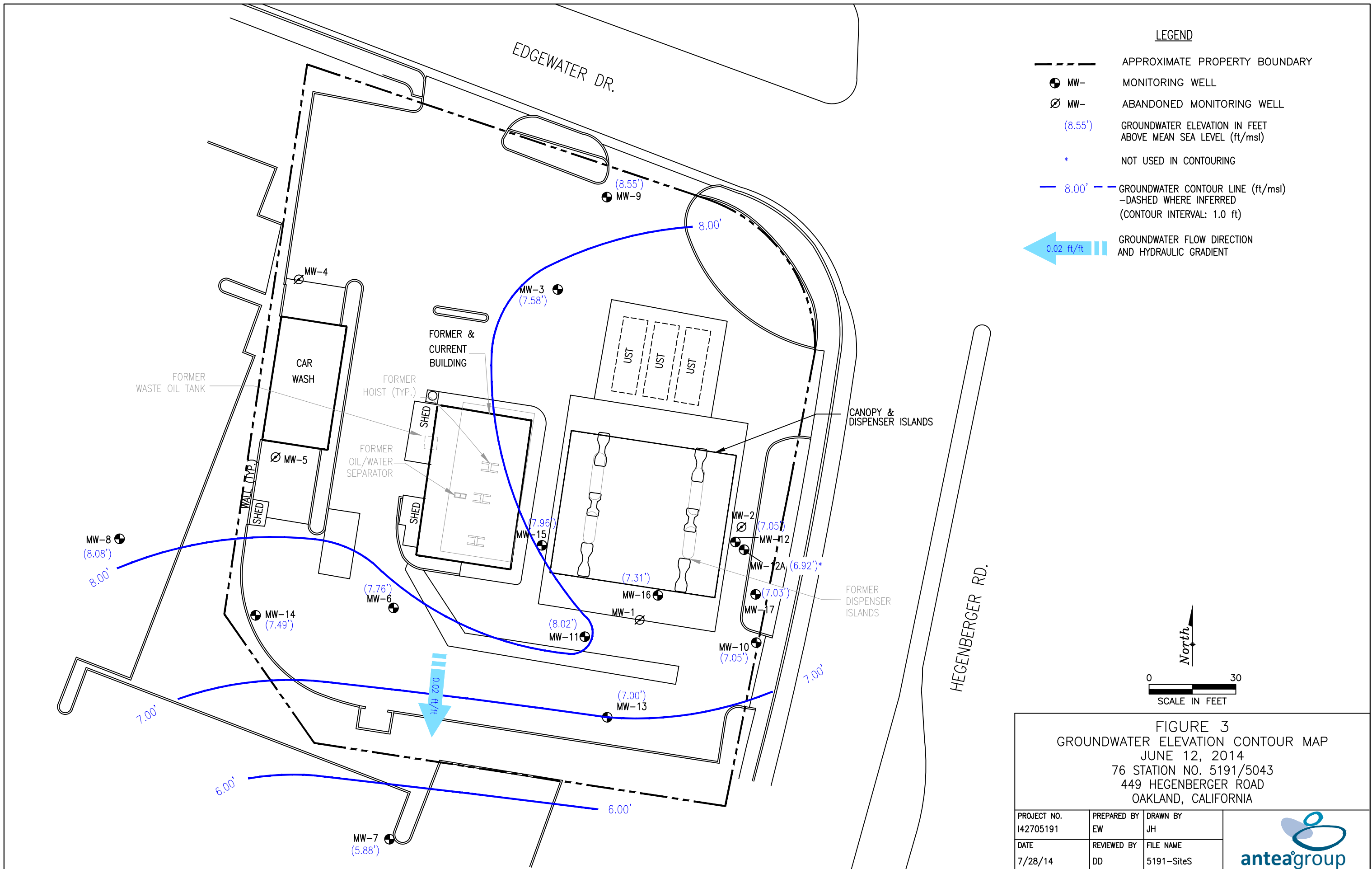


FIGURE 2
SITE PLAN

76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

| | | | |
|--------------------------|-------------------|-------------------------|--|
| PROJECT NO. 142705191 | PREPARED BY DD | DRAWN BY JH |  anteagroup |
| DATE 5/26/11 | REVIEWED BY DD | FILE NAME 5191-SiteS | |



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (8.55') GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/msl)
- * NOT USED IN CONTOURING
- 8.00' — GROUNDWATER CONTOUR LINE (ft/msl) —DASHED WHERE INFERRED (CONTOUR INTERVAL: 1.0 ft)
- ← 0.02 ft/ft GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT

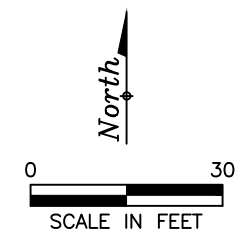
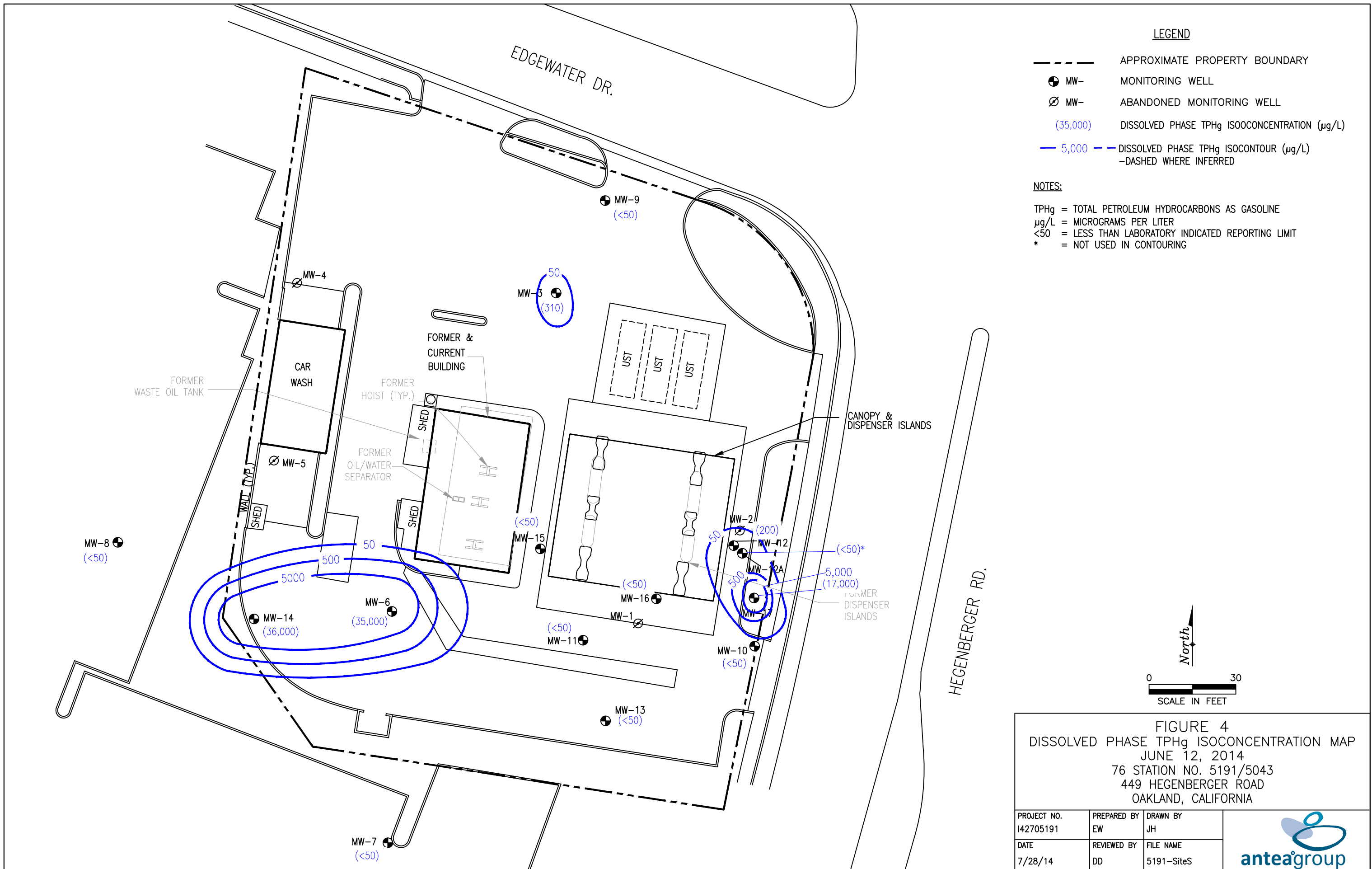


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
JUNE 12, 2014
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

| | | | |
|--------------------------|-------------------|-------------------------|--|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH | |
| DATE 7/28/14 | REVIEWED BY DD | FILE NAME 5191-SiteS | |



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW- MONITORING WELL
- MW- ABANDONED MONITORING WELL
- (35,000) DISSOLVED PHASE TPHg ISOCONCENTRATION (µg/L)
- 5,000 — DISSOLVED PHASE TPHg ISOCONTOUR (µg/L)
-DASHED WHERE INFERRED

NOTES:

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 µg/L = MICROGRAMS PER LITER
 <50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

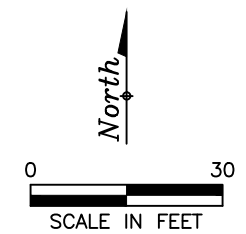
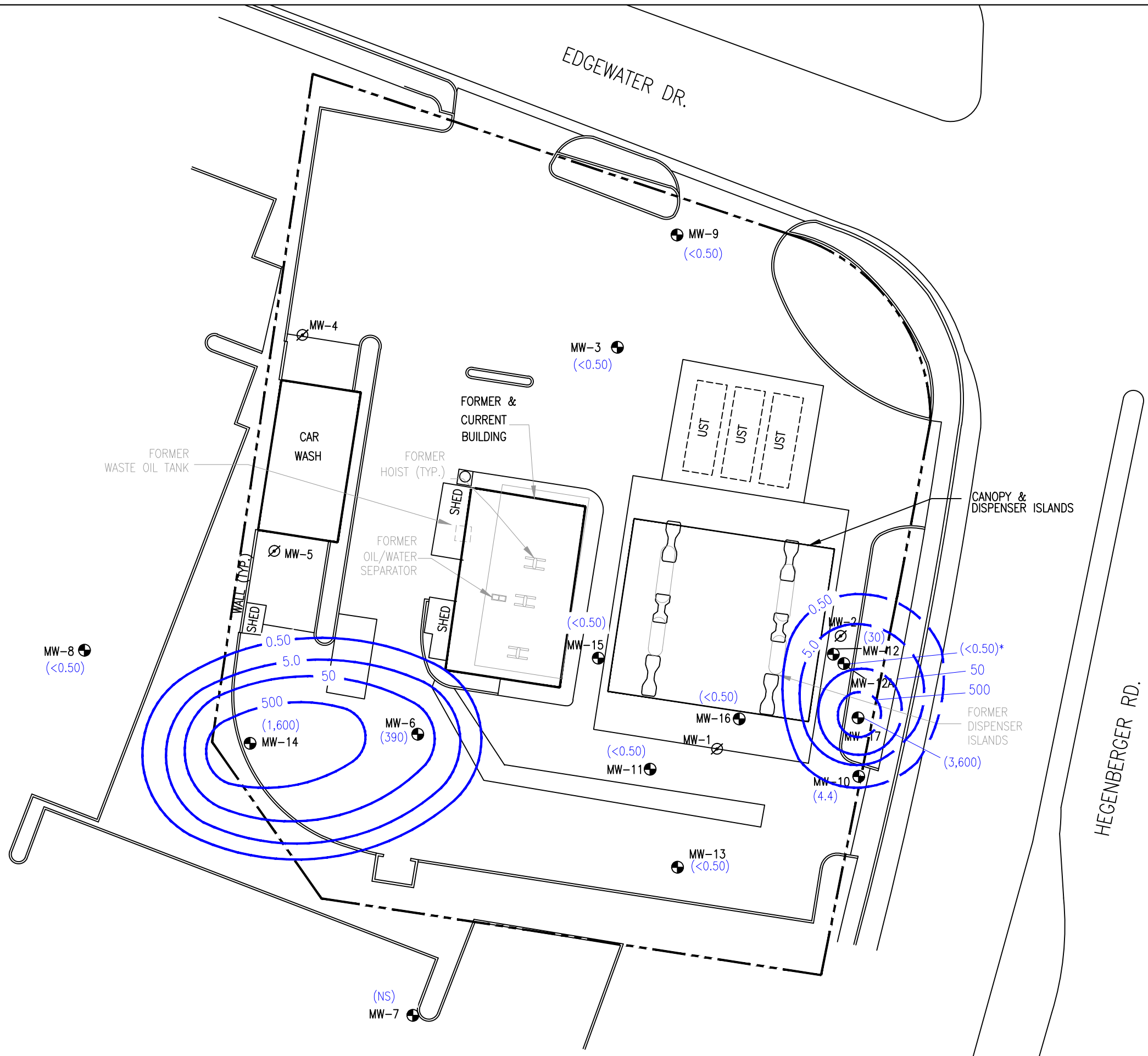


FIGURE 4
 DISSOLVED PHASE TPHg ISOCONCENTRATION MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | | |
|--------------------------|-------------------|-------------------------|--|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH | |
| DATE 7/28/14 | REVIEWED BY DD | FILE NAME 5191-SiteS | |



- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
 - MW- MONITORING WELL
 - ⊘ MW- ABANDONED MONITORING WELL
 - (390) DISSOLVED PHASE BENZENE ISOCONCENTRATION (µg/L)
 - 500 — DISSOLVED PHASE BENZENE ISOCONTOUR (µg/L) —DASHED WHERE INFERRED

NOTES:

µg/L = MICROGRAMS PER LITER
 <0.50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

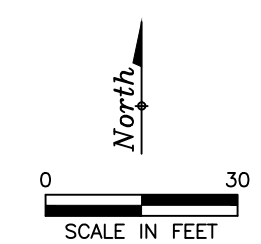







FIGURE 5
 DISSOLVED PHASE BENZENE ISOCONCENTRATION MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | | |
|--------------------------|-------------------|-------------------------|--|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH | |
| DATE 7/28/14 | REVIEWED BY DD | FILE NAME 5191-SiteS | |

LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  MW- MONITORING WELL
-  MW- ABANDONED MONITORING WELL
-  (920) DISSOLVED PHASE MTBE ISOCONCENTRATION (µg/L)
-  500 DISSOLVED PHASE MTBE ISOCONTOUR (µg/L) -DASHED WHERE INFERRED

NOTES:

MTBE = METHYL TERTIARY BUTYL ETHER
 µg/L = MICROGRAMS PER LITER
 <0.50= LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

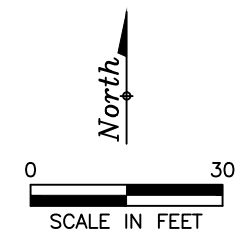
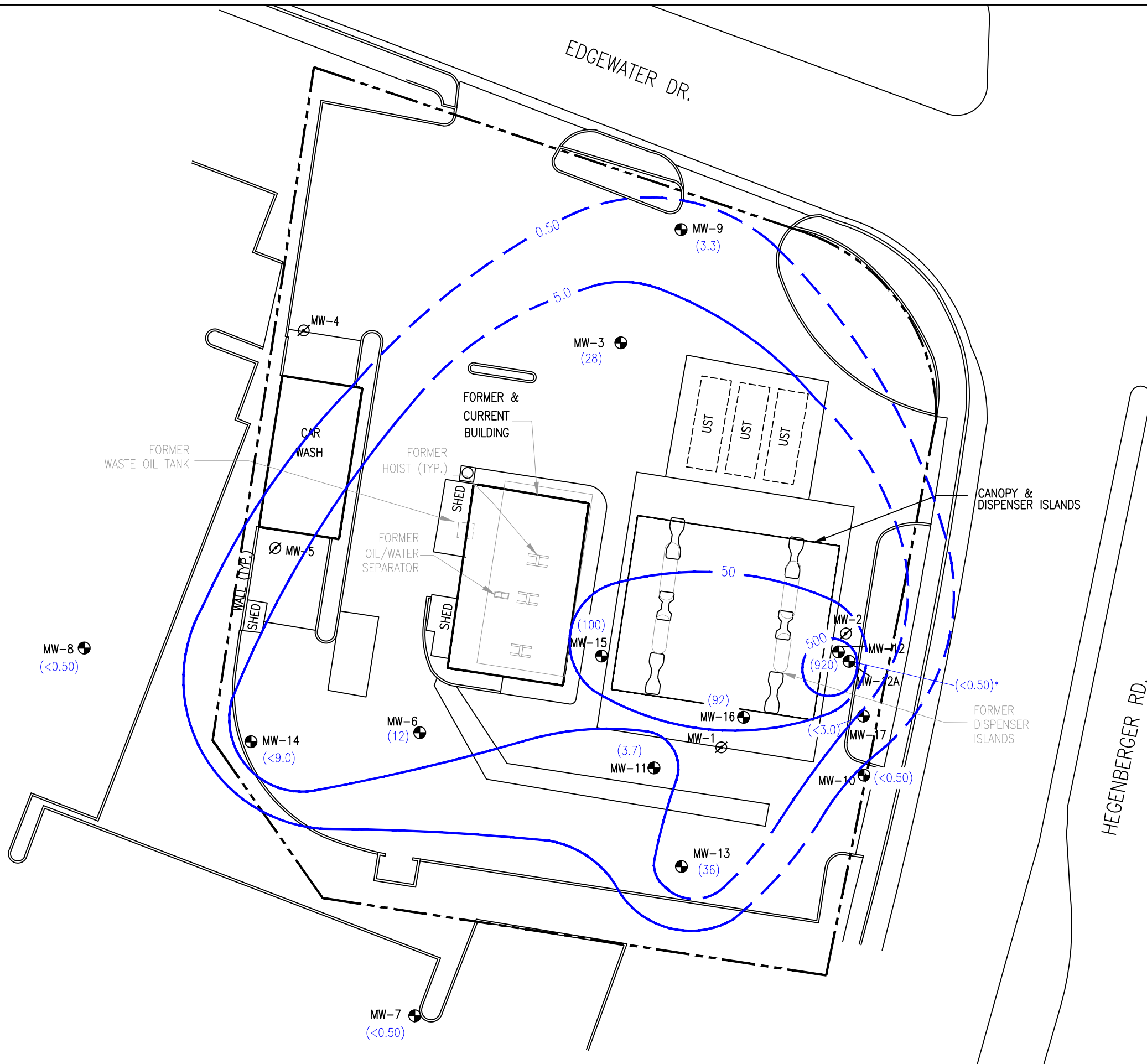



FIGURE 6
 DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | | |
|--------------------------|-------------------|-------------------------|---|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH |  |
| DATE 7/28/14 | REVIEWED BY DD | FILE NAME 5191-SiteS | |

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW- MONITORING WELL
- ⊘ MW- ABANDONED MONITORING WELL
- (570) DISSOLVED PHASE TPHd ISOCONCENTRATION (µg/L)
- 50 — DISSOLVED PHASE TPHd ISOCONTOUR (µg/L)

NOTES:

TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 µg/L = MICROGRAMS PER LITER
 <50 = LESS THAN LABORATORY INDICATED REPORTING LIMIT
 * = NOT USED IN CONTOURING

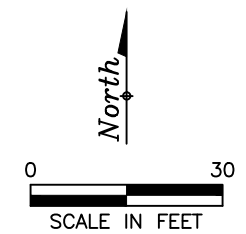
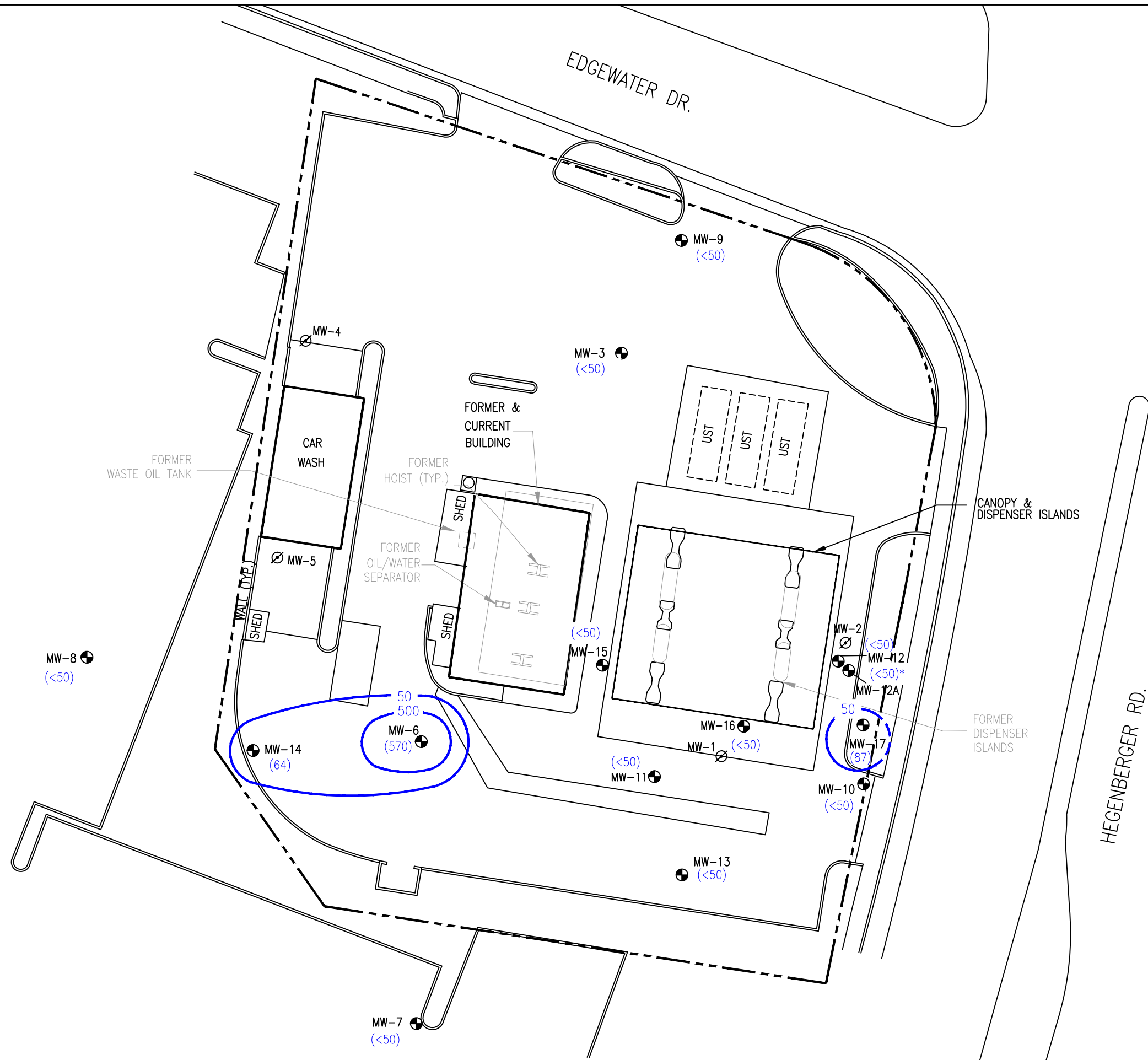
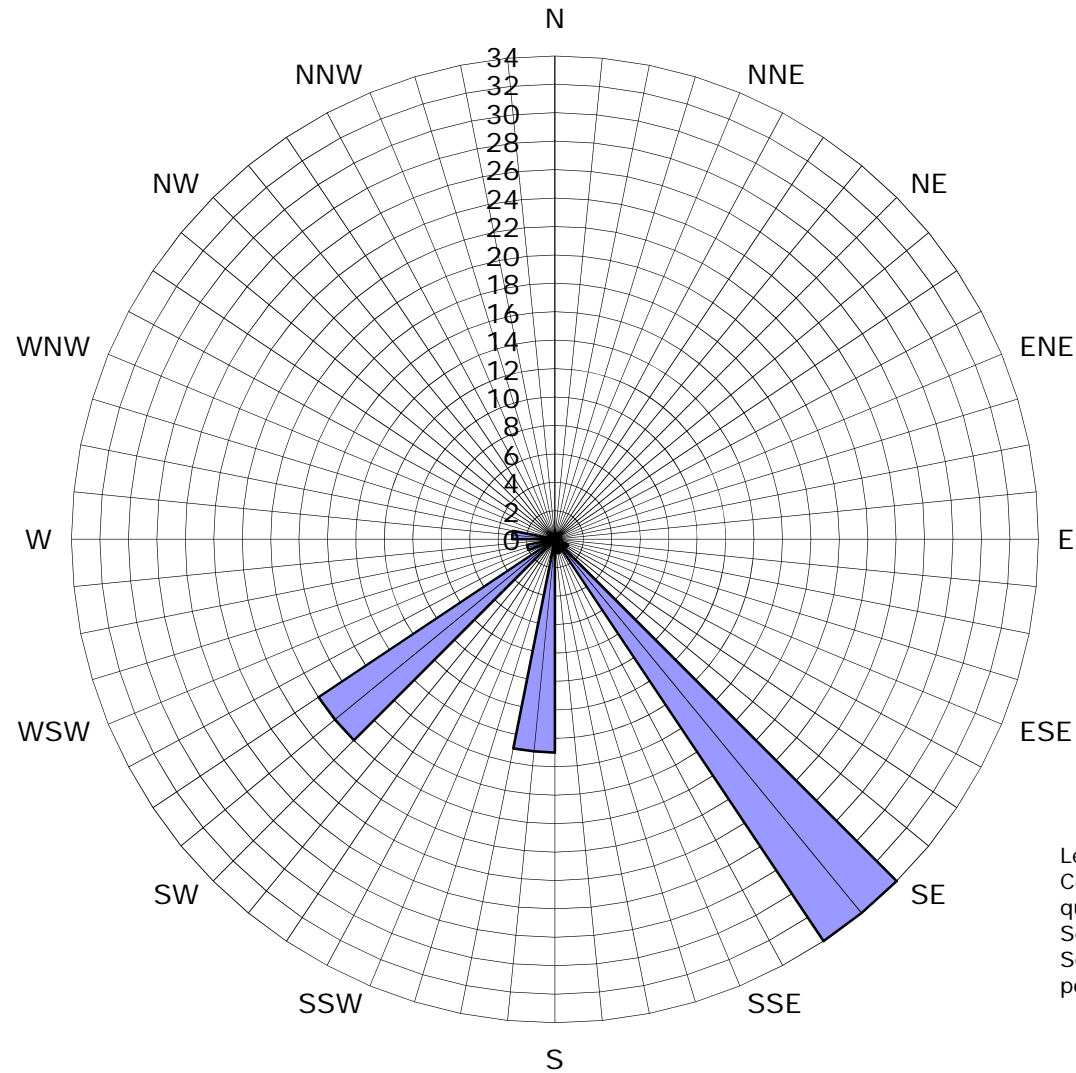


FIGURE 7
 DISSOLVED PHASE TPHd ISOCONCENTRATION MAP
 JUNE 12, 2014
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA

| | | | |
|--------------------------|-------------------|-------------------------|--|
| PROJECT NO. I42705191 | PREPARED BY EW | DRAWN BY JH | |
| DATE 7/28/14 | REVIEWED BY DD | FILE NAME 5191-SiteS | |

Figure 8
Historical Groundwater Flow Directions
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California



Legend
Concentric circles represent
quarterly monitoring events
Second Quarter 1992 through
Second Quarter 2014. 76 data
points shown

■ Groundwater Flow Direction

Tables

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Table 1
Well Construction Details
 76 Station No. 5191/5043
 449 Hegenberger Road
 Oakland, CA

| Well I.D. | Drill Date | Well | | Screen | | Screen Length (feet) | Comments |
|---|------------|------------------|-------------------|----------------|-------------------|----------------------|-----------|
| | | Depth (feet bgs) | Diameter (inches) | Top (feet bgs) | Bottom (feet bgs) | | |
| Monitoring Wells | | | | | | | |
| MW-1 | 02/05/91 | 13.5 | 2 | 2.0 | 13.0 | 11.0 | Destroyed |
| MW-2 | 02/05/91 | 15.0 | 2 | 3.0 | 15.0 | 12.0 | Destroyed |
| MW-3 | 02/05/91 | 14.0 | 2 | 2.0 | 14.0 | 12.0 | |
| MW-4 | 08/21/92 | 13.5 | 2 | 2.5 | 13.5 | 11.0 | Destroyed |
| MW-5 | 08/21/92 | 13.5 | 2 | 2.5 | 13.5 | 11.0 | Destroyed |
| MW-6 | 08/21/92 | 13.5 | 2 | 2.5 | 13.5 | 11.0 | |
| MW-7 | 04/21/97 | 13.0 | 2 | 3.0 | 13.0 | 10.0 | |
| MW-8 | 04/21/97 | 15.0 | 2 | 3.0 | 15.0 | 12.0 | |
| MW-9 | 01/25/95 | 13.0 | 2 | 3.0 | 13.0 | 10.0 | |
| MW-10 | 01/25/95 | 13.0 | 2 | 3.0 | 13.0 | 10.0 | |
| MW-11 | 06/22/10 | 20.0 | 4 | 5.0 | 20.0 | 15.0 | |
| MW-12 | 06/22/10 | 20.0 | 4 | 5.0 | 20.0 | 15.0 | |
| MW-12A | 06/23/10 | 34.0 | 2 | 30.0 | 34.0 | 4.0 | |
| MW-13 | 06/22/10 | 15.0 | 2 | 5.0 | 15.0 | 10.0 | |
| MW-14 | 05/17/11 | 13.0 | 2 | 3.0 | 13.0 | 10.0 | |
| MW-15 | 05/17/11 | 13.0 | 2 | 3.0 | 13.0 | 10.0 | |
| MW-16 | 05/17/11 | 13.0 | 2 | 3.0 | 13.0 | 10.0 | |
| MW-17 | 05/18/11 | 13.0 | 2 | 3.0 | 13.0 | 10.0 | |
| Explanation | | | | | | | |
| Wells are of poly-vinyl-chloride (PVC) construction | | | | | | | |
| bgs = Below ground surface | | | | | | | |

TABLE 2
 CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | |
|-----------|-----------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|---------------|----------------|----------------|---------------------|----------------------|-------------|------------|----------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (ug/L) | TBA (ug/L) | Ethanol (ug/L) |
| MW-3 | 6/12/2014 | 10.81 | 3.23 | NP | 7.58 | <50 | 310 | <0.50 | <0.50 | <0.50 | <0.50 | 28 | 74 | <5.0 |
| MW-6 | 6/12/2014 | 11.55 | 3.79 | NP | 7.76 | 570 | 35,000 | 390 | 17 | 690 | 1,600 | 12 | 180 | <5.0 |
| MW-7 | 6/12/2014 | 11.64 | 5.76 | NP | 5.88 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <5.0 |
| MW-8 | 6/12/2014 | 11.32 | 3.24 | NP | 8.08 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <5.0 |
| MW-9 | 6/12/2014 | 10.94 | 2.39 | NP | 8.55 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.3 | <5.0 | <5.0 |
| MW-10 | 6/12/2014 | 10.97 | 3.92 | NP | 7.05 | <50 | <50 | 4.4 | <0.50 | <0.50 | 0.91 | <0.50 | <5.0 | <8.0 |
| MW-11 | 6/12/2014 | 10.53 | 2.51 | NP | 8.02 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.7 | <5.0 | <5.0 |
| MW-12 | 6/12/2014 | 11.01 | 3.96 | NP | 7.05 | <50 | 200 | 30 | 3.3 | 4.2 | 6.1 | 920 | 8.6 | <9.0 |
| MW-12A | 6/12/2014 | 11.29 | 4.37 | NP | 6.92 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <5.0 |
| MW-13 | 6/12/2014 | 11.08 | 4.08 | NP | 7.00 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 36 | 43 | <5.0 |
| MW-14 | 6/12/2014 | 12.00 | 4.51 | NP | 7.49 | 64 | 36,000 | 1,600 | 43 | 3,000 | 6,500 | <9.0 | <50 | <90 |
| MW-15 | 6/12/2014 | 11.11 | 3.15 | NP | 7.96 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 100 | 31 | <5.0 |
| MW-16 | 6/12/2014 | 10.98 | 3.67 | NP | 7.31 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 92 | 440 | <5.0 |
| MW-17 | 6/12/2014 | 11.52 | 4.49 | NP | 7.03 | 87 | 17,000 | 3,600 | 410 | 650 | 1,100 | <3.0 | 300 | <30 |

Gauging Notes:

TOS - Top of Screen
 ft - Feet
 NP - LNAPL not present
 LNAPL - Light non-aqueous phase liquid
 * - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
 --- No information available

Analytical Notes:

< - Below laboratory's indicated reporting limit
 ug/L - micrograms/liter
 TPHd- Total petroleum hydrocarbons as diesel (silica gel treated)
 TPHg- Total petroleum hydrocarbons as gasoline
 MTBE- Methyl tertiary-butyl ether
 TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
 J - TBA result may be biased slightly high due to MTBE converting to TBA during analysis

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|-----|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) | |
| MW-1 | 2/18/1992 | NSVD | NG | NG | NG | 13,000 | 150,000 | 17,000 | 26,000 | 5,200 | 26,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/20/1992 | NSVD | NG | NG | NG | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/31/1992 | NSVD | NG | NG | NG | 8,900 | 64,000 | 13,000 | 12,000 | 2,500 | 22,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/30/1992 | NSVD | NG | NG | NG | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/4/1993 | NSVD | NG | NG | NG | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/4/1993 | 8.96 | 2.13 | 0.10 | 6.91 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 8/4/1993 | 8.96 | 2.92 | 0.03 | 6.06 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 11/3/1993 | 7.38 | 3.04 | NP | 4.34 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 2/7/1994 | 7.38 | 2.55 | 0.03 | 4.85 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/19/1994 | 7.38 | 2.23 | 0.01 | 5.16 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 6/25/1994 | 7.38 | 2.49 | 0.01 | 4.90 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/27/1994 | 7.38 | 3.10 | NP | 4.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/15/1994 | 7.38 | 2.85 | 0.11 | 4.61 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 11/14/1994 | 7.38 | 2.97 | 0.12 | 4.50 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| 2/21/1995 | 7.38 | 1.53 | 0.02 | 5.87 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 5/18/1995 | NSVD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | |
| MW-2 | 2/18/1992 | NSVD | NG | NG | NG | 4,300 | 29,000 | 1,000 | 5,300 | 260 | 7,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/20/1992 | NSVD | NG | NG | NG | 4,300 | 24,000 | 2,200 | 7,600 | 630 | 11,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/31/1992 | NSVD | NG | NG | NG | 1,600 | 9,000 | 1,800 | 640 | 140 | 2,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/30/1992 | NSVD | NG | NG | NG | 5,700 | 29,000 | 2,000 | 3,400 | 1,200 | 6,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/4/1993 | NSVD | NG | NG | NG | 6,100 | 18,000 | 1,600 | 3,000 | ND | 6,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/4/1993 | 8.96 | 2.48 | NP | 6.48 | 7,100 | 63,000 | 3,200 | 17,000 | 470 | 17,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/4/1993 | 8.96 | 3.20 | NP | 5.76 | 1,800 | 45,000 | 2,100 | 6,600 | 1,400 | 12,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/3/1993 | 8.58 | 3.37 | NP | 5.21 | 2,600 | 72,000 | 3,700 | 16,000 | 3,700 | 20,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/7/1994 | 8.58 | 2.40 | NP | 6.18 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/19/1994 | 8.58 | 2.13 | NP | 6.45 | 3,000 | 42,000 | 2,500 | 1,300 | 2,300 | 13,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/25/1994 | 8.58 | 2.65 | NP | 5.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/27/1994 | 8.58 | 3.44 | NP | 5.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/15/1994 | 8.58 | 3.25 | NP | 5.33 | 2,800 | 35,000 | 2,400 | 850 | 1,700 | 15,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/14/1994 | 8.58 | 2.13 | NP | 6.45 | 10,000 | 43,000 | 2,200 | 6,500 | 1,800 | 14,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 2/21/1995 | 8.58 | 1.65 | NP | 6.93 | 2,000 | 44,000 | 2,200 | 3,200 | 1,300 | 1,500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 5/18/1995 | NSVD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | |
| MW-3 | 2/18/1992 | NSVD | NG | NG | NG | ND | 230 | 4.8 | 22 | 1.8 | 33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/20/1992 | NSVD | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | |
| | 8/31/1992 | NSVD | NG | NG | NG | 92 | 210 | 1 | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/30/1992 | NSVD | NG | NG | NG | 94 | 790 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/4/1993 | NSVD | NG | NG | NG | 550 | 3,300 | 320 | ND | 96 | 6.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/4/1993 | 7.84 | 4.32 | NP | 3.52 | 250 | 1,800 | 95 | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/4/1993 | 7.84 | 4.94 | NP | 2.90 | 100 | 210 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/3/1993 | 7.42 | 4.53 | NP | 2.89 | 160 | 640 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/7/1994 | 7.42 | 2.40 | NP | 5.02 | 620 | 2,700 | 110 | ND | 17 | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/19/1994 | 7.42 | 3.60 | NP | 3.82 | 480 | 1,800 | 83 | ND | 6.2 | 9.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/25/1994 | 7.42 | 4.58 | NP | 2.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/27/1994 | 7.42 | 4.58 | NP | 2.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/15/1994 | 7.42 | 4.65 | NP | 2.77 | 110 | 130 | 1.1 | 0.54 | ND | 0.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/1994 | 7.42 | 3.18 | NP | 4.24 | 150 | 1,600 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2/21/1995 | 7.42 | 1.81 | NP | 5.61 | 850 | 3,800 | 350 | ND | 130 | 22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/18/1995 | 7.42 | 4.56 | NP | 2.86 | 150 | 1,300 | 42 | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/17/1995 | 7.42 | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | |
| 7/26/1996 | 7.42 | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | |
| 10/28/1996 | 7.42 | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | WO | |
| 1/29/1997 | 7.42 | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | |

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-3 | 4/15/1997 | 7.42 | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI |
| | 5/27/1997 | 7.42 | 3.45 | NP | 3.97 | -- | 670 | 6.5 | ND | ND | ND | 250 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/1/1997 | 7.42 | 3.50 | NP | 3.92 | 610 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/15/1997 | 8.04 | 3.71 | NP | 4.33 | 240 | 240 | ND | ND | ND | ND | 490 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/1997 | 8.04 | 3.70 | NP | 4.34 | 500 | 270 | 1.1 | ND | 2.4 | 1.4 | 910 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/14/1998 | 8.04 | 2.16 | NP | 5.88 | 340 | 310 | ND | ND | 0.62 | 0.65 | 140 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/1/1998 | 8.04 | 2.20 | NP | 5.84 | 320 | 370 | 5.7 | ND | ND | ND | 93 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/15/1998 | 8.04 | 3.38 | NP | 4.66 | 510 | 460 | ND | ND | ND | ND | 230 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/16/1998 | 8.04 | 2.30 | NP | 5.74 | 67 | 330 | 4.7 | ND | ND | ND | 60 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/25/1999 | 8.04 | 2.42 | NP | 5.62 | 120 | 420 | 1.5 | ND | ND | ND | 180 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/15/1999 | 8.04 | 2.16 | NP | 5.88 | 170 | 290 | 0.54 | ND | ND | ND | 160 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/14/1999 | 8.04 | 2.35 | NP | 5.69 | 420 | 290 | 3.2 | ND | ND | ND | 160 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/21/1999 | 8.04 | 2.49 | NP | 5.55 | 350 | 360 | 0.77 | ND | ND | ND | 82 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/20/2000 | 8.04 | 2.38 | NP | 5.66 | 2,060 | ND | 0.81 | ND | ND | ND | 54 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/13/2000 | 8.04 | 2.76 | NP | 5.28 | 200 | 250 | 0.69 | ND | ND | ND | 91 | 150 | ND | ND | ND | ND | ND | ND | ND |
| | 7/14/2000 | 8.04 | 3.26 | NP | 4.78 | 423 | 345 | ND | ND | ND | ND | 95 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/26/2000 | 8.04 | 3.12 | NP | 4.92 | 330 | 480 | 6.0 | ND | ND | ND | 120 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/3/2001 | 8.04 | 3.65 | NP | 4.39 | 287 | 364 | 1.59 | ND | ND | ND | 118 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/4/2001 | 8.04 | 3.98 | NP | 4.06 | 360 | 417 | 1.24 | ND | ND | 0.802 | 237 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/17/2001 | 8.04 | 3.12 | NP | 4.92 | 270 | 480 | ND | ND | ND | ND | 150 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/1/2001 | 8.04 | 3.25 | NP | 4.79 | 270 | 310 | 1.0 | <0.50 | <0.50 | <0.50 | 53 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/31/2002 | 8.04 | 2.27 | NP | 5.77 | 250 | 250 | 3.5 | <1.0 | <1.0 | <1.0 | 110 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/18/2002 | 8.04 | 3.55 | NP | 4.49 | 320 | 300 | <2.0 | <2.0 | <2.0 | <2.0 | -- | 59 | -- | -- | -- | -- | -- | -- | -- |
| | 7/28/2002 | 8.04 | 2.55 | NP | 5.49 | 310 | 500 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 130 | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/2002 | 8.04 | 2.47 | NP | 5.57 | 700 | 690 | <5 | <5 | <5 | <10 | -- | 120 | -- | -- | -- | -- | -- | -- | -- |
| | 1/2/2003 | 8.04 | 1.70 | NP | 6.34 | 210 | 310 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 110 | <2.0 | <2.0 | <2.0 | <100 | <500 | <2.0 | <2.0 |
| | 4/1/2003 | 8.04 | 3.48 | NP | 4.56 | 200 | 250 | <1.0 | <1.0 | <1.0 | <2.0 | -- | 210 | -- | -- | -- | -- | -- | -- | -- |
| | 7/1/2003 | 8.04 | 2.65 | NP | 5.39 | 380 | 450 | <2.5 | <2.5 | <2.5 | <5.0 | -- | 70 | -- | -- | -- | -- | <2500 | -- | -- |
| | 10/2/2003 | 8.04 | 3.12 | NP | 4.92 | 300 | <250 | <2.5 | <2.5 | <2.5 | <5.0 | -- | 210 | -- | -- | -- | -- | <2500 | -- | -- |
| | 1/9/2004 | 8.04 | 2.39 | NP | 5.65 | 200 | 300 | <0.50 | 0.53 | 0.53 | 1.5 | -- | 66 | -- | -- | -- | -- | <500 | -- | -- |
| | 4/26/2004 | 8.04 | 3.11 | NP | 4.93 | 160 | 440 | 2.5 | 5.50 | 2.90 | 9.4 | -- | 81 | -- | -- | -- | -- | <50 | -- | -- |
| | 7/22/2004 | 8.04 | 2.51 | NP | 5.53 | 330 | 420 | <0.5 | <0.5 | <0.5 | <1 | -- | 72 | -- | -- | -- | -- | <1000 | -- | -- |
| | 10/29/2004 | 8.04 | 2.00 | NP | 6.04 | 200 | 460 | 5.6 | 15 | 10 | 46 | -- | 48 | -- | -- | -- | -- | <50 | -- | -- |
| 1/10/2005 | 8.04 | 1.52 | NP | 6.52 | 250 | 280 | <0.50 | 0.62 | <0.50 | 2.4 | -- | 64 | -- | -- | -- | -- | <50 | -- | -- | |
| 6/15/2005 | 8.04 | 2.00 | NP | 6.04 | 360 | 460 | <0.50 | 0.70 | 0.56 | 1.9 | -- | 110 | -- | -- | -- | -- | <50 | -- | -- | |
| 9/27/2005 | 8.04 | 1.90 | NP | 6.14 | <200 | 210 | <0.50 | 0.60 | <0.50 | <1.0 | -- | 100 | <0.50 | <0.50 | <0.50 | 79 | <250 | -- | -- | |
| 12/13/2005 | 8.04 | 2.35 | NP | 5.69 | 230 | 230 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 92 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/23/2006 | 8.04 | 1.84 | NP | 6.20 | 260 | 290 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 88 | -- | -- | -- | -- | <250 | -- | -- | |
| 6/23/2006 | 8.04 | 2.26 | NP | 5.78 | 330 | 500 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 75 | -- | -- | -- | -- | <250 | -- | -- | |
| 9/26/2006 | 8.04 | 2.08 | NP | 5.96 | 260 | 270 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 73 | -- | -- | -- | -- | <250 | -- | -- | |
| 12/22/2006 | 8.04 | 1.88 | NP | 6.16 | 250 | 260 | <0.50 | <0.50 | <0.50 | 1.2 | -- | 71 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/30/2007 | 8.04 | 2.47 | NP | 5.57 | 210 | 390 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 120 | -- | -- | -- | -- | <250 | -- | -- | |
| 6/28/2007 | 8.04 | 2.54 | NP | 5.50 | 290 | 370 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 55 | -- | -- | -- | -- | <250 | -- | -- | |
| 9/25/2007 | 8.04 | 2.56 | NP | 5.48 | 210 | 350 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 61 | -- | -- | -- | -- | <250 | -- | -- | |
| 12/28/2007 | 8.04 | 2.29 | NP | 5.75 | 150 | 260 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 66 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/22/2008 | 8.04 | 3.26 | NP | 4.78 | 230 | 390 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 39 | -- | -- | -- | -- | <250 | -- | -- | |
| 6/23/2008 | 8.04 | 2.60 | NP | 5.44 | 130 | 200 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 46 | -- | -- | -- | -- | <250 | -- | -- | |
| 9/19/2008 | 8.04 | 3.45 | NP | 4.59 | 93 | 180 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 120 | -- | -- | -- | -- | <250 | -- | -- | |
| 12/31/2008 | 8.04 | 2.55 | NP | 5.49 | 110 | 190 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 38 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/27/2009 | 8.04 | 2.37 | NP | 5.67 | 130 | 150 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 50 | -- | -- | -- | -- | <250 | -- | -- | |
| 5/28/2009 | 8.04 | 3.32 | NP | 4.72 | 120 | 190 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 60 | -- | -- | -- | -- | <250 | -- | -- | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|----|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) | |
| MW-3 | 9/17/2009 | 8.04 | 2.63 | NP | 5.41 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| | 12/17/2009 | 8.04 | 2.13 | NP | 5.91 | 338 | 300 | <0.50 | <0.50 | 0.78 | <1.5 | -- | 43 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/29/2010 | 8.04 | 2.22 | NP | 5.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/30/2010 | 10.81 | 2.91 | NP | 7.90 | 90 | 261 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 89.0 | -- | -- | -- | -- | <250 | -- | -- | -- |
| | 7/6/2010 | 10.81 | 2.66 | NP | 8.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | 10.81 | 3.12 | NP | 7.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | 10.81 | 2.37 | NP | 8.44 | 137 | 306 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 58.8 | -- | -- | -- | -- | <250 | -- | -- | -- |
| | 3/14/2011 | 10.81 | 2.26 | NP | 8.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | 10.81 | 2.43 | NP | 8.38 | 155 | 283 | 0.58 | 1.3 | <0.50 | 2.2 | -- | 42.1 | -- | -- | -- | -- | 55.7 | <250 | -- | -- |
| | 9/7/2011 | 10.81 | 2.36 | NP | 8.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | 10.81 | 2.55 | NP | 8.26 | 81.7 | 381 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 41.8 | -- | -- | -- | -- | <250 | -- | -- | -- |
| | 3/6/2012 | 10.81 | 2.63 | NP | 8.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | 10.81 | 2.99 | NP | 7.82 | 87.9 | 371 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 55.7 | -- | -- | -- | -- | 77.2 | <250 | -- | -- |
| | 9/6/2012 | 10.81 | 2.50 | NP | 8.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | 10.81 | 2.50 | NP | 8.31 | <50 | 130 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 28 | -- | -- | -- | -- | 77 | <5.0 | -- | -- |
| | 3/14/2013 | 10.81 | 2.63 | NP | 8.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 6/11/2013 | 10.81 | 3.31 | NP | 7.50 | <50 | 190 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 44 | -- | -- | -- | -- | 97 | <5.0 | -- | -- | |
| 9/10/2013 | 10.81 | 3.25 | NP | 7.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/12/2013 | 10.81 | 2.60 | NP | 8.21 | <50 | 400 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 22 | -- | -- | -- | -- | 46 | <5.0 | -- | -- | |
| 3/4/2014 | 10.81 | 2.38 | NP | 8.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/12/2014 | 10.81 | 3.23 | NP | 7.58 | <50 | 310 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 28 | -- | -- | -- | -- | 74 | <5.0 | -- | -- | |
| MW-4 | 8/31/1992 | NSVD | NG | NG | NG | 90 | 240 | ND | ND | ND | 0.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/30/1992 | NSVD | NG | NG | NG | 61 | 420 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/4/1993 | NSVD | NG | NG | NG | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/4/1993 | 9.00 | 4.09 | NP | 4.91 | ND | 110 | 0.95 | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/4/1993 | 9.00 | 5.01 | NP | 3.99 | 81 | 250 | ND | 3.5 | ND | 4.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/3/1993 | 8.41 | 4.23 | NP | 4.18 | 68 | 130 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/7/1994 | 8.41 | 3.35 | NP | 5.06 | ND | 56 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/19/1994 | 8.41 | 3.92 | NP | 4.49 | 90 | 140 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/25/1994 | 8.41 | 4.35 | NP | 4.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/27/1994 | 8.41 | 4.28 | NP | 4.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/15/1994 | 8.41 | 4.27 | NP | 4.14 | 72 | 59 | ND | 0.6 | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/14/1994 | 8.41 | 4.05 | NP | 4.36 | ND | 130 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 2/21/1995 | NSVD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | |
| MW-5 | 8/31/1992 | NSVD | NG | NG | NG | 690 | 78 | 0.89 | ND | ND | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/30/1992 | NSVD | NG | NG | NG | 470 | 930 | 70 | 290 | 0.79 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/4/1993 | NSVD | NG | NG | NG | 5,500 | 5,700 | 38 | ND | 620 | 170 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/4/1993 | 8.95 | 4.37 | NP | 4.58 | 4,600 | 7,400 | 41 | ND | 1,000 | 35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/4/1993 | 8.95 | 5.81 | NP | 3.14 | 970 | 1,500 | 130 | 1 | 460 | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/3/1993 | 8.95 | 5.68 | NP | 3.27 | 2,100 | 13,000 | 350 | ND | 3,500 | 530 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/7/1994 | 8.95 | 5.11 | NP | 3.84 | 830 | 2,000 | 87 | ND | 370 | 110 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/19/1994 | 8.95 | 5.09 | NP | 3.86 | 600 | 260 | 44 | ND | 32 | 4.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/25/1994 | 8.95 | 4.55 | NP | 4.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/27/1994 | 8.95 | 5.72 | NP | 3.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/15/1994 | 8.95 | 5.68 | NP | 3.27 | 860 | 1,600 | 110 | ND | 340 | 72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 11/14/1994 | 8.95 | 5.63 | NP | 3.32 | 290 | 250 | 40 | ND | ND | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 2/21/1995 | NSVD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | WD | |
| MW-6 | 8/31/1992 | NSVD | NG | NG | NG | 750 | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/30/1992 | NSVD | NG | NG | NG | 1,400 | 9,200 | 550 | ND | 740 | 1,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/4/1993 | NSVD | NG | NG | NG | 890 | 3,600 | 340 | ND | 290 | 550 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/4/1993 | 9.12 | 3.72 | NP | 5.40 | 1,800 | 4,900 | 360 | 18 | 450 | 430 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|-----|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) | |
| MW-6 | 8/4/1993 | 9.12 | 5.15 | NP | 3.97 | 1,100 | 3,400 | 390 | ND | 440 | 190 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/3/1993 | 8.87 | 5.25 | NP | 3.62 | 390 | 1,400 | 320 | ND | 200 | 7.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/7/1994 | 8.87 | 4.55 | NP | 4.32 | 970 | 4,900 | 650 | ND | 250 | 35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/19/1994 | 8.87 | 4.62 | NP | 4.25 | 1,400 | 3,600 | 300 | 1.7 | 210 | 41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/15/1994 | 8.87 | 5.08 | NP | 3.79 | 790 | 1,300 | 130 | 6.7 | 54 | 57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 11/14/1994 | 8.87 | 5.30 | NP | 3.57 | 800 | 730 | 50 | ND | ND | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/21/1995 | 8.87 | 5.37 | NP | 3.50 | 730 | 2,000 | 250 | 4.6 | 25 | 30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/18/1995 | 8.87 | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI |
| | 8/17/1995 | 8.87 | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI | WI |
| | 7/26/1996 | 8.87 | 6.40 | 3.33 | 4.97 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 10/28/1996 | 8.87 | 4.10 | 0.21 | 4.93 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 11/13/1996 | 8.87 | 4.02 | 0.25 | 5.04 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 11/25/1996 | 8.87 | 4.01 | 0.75 | 5.42 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 12/4/1996 | 8.87 | 3.65 | 0.50 | 5.60 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 12/19/1996 | 8.87 | 4.80 | 2.20 | 5.72 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 1/8/1997 | 8.87 | 4.84 | 1.75 | 5.34 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 1/14/1997 | 8.87 | 4.51 | 1.15 | 5.22 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 1/27/1997 | 8.87 | 4.00 | 1.75 | 6.18 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 1/29/1997 | 8.87 | 3.24 | 0.31 | 5.86 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 2/11/1997 | 8.87 | 4.65 | 1.20 | 5.12 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 2/24/1997 | 8.87 | 4.81 | 1.10 | 4.89 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 3/10/1997 | 8.87 | 4.60 | 0.95 | 4.98 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 3/17/1997 | 8.87 | 4.50 | 0.89 | 5.04 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 3/31/1997 | 8.87 | 4.65 | 1.00 | 4.97 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 4/15/1997 | 8.87 | 4.90 | 1.03 | 4.74 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 4/28/1997 | 8.87 | 4.78 | 0.03 | 4.11 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/15/1997 | 8.87 | 4.60 | 0.25 | 4.46 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/27/1997 | 8.87 | 4.50 | 0.25 | 4.56 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 6/9/1997 | 8.87 | 4.60 | 0.20 | 4.42 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 6/24/1997 | 8.87 | 4.50 | 0.25 | 4.56 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/9/1997 | 8.87 | 4.80 | 0.60 | 4.52 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/15/1997 | 8.87 | 4.63 | 0.42 | 4.56 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/21/1997 | 8.87 | 4.75 | 0.25 | 4.31 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| 8/6/1997 | 8.87 | 4.50 | 0.10 | 4.45 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 8/20/1997 | 8.87 | 4.55 | 0.10 | 4.40 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 9/2/1997 | 8.87 | 4.75 | 0.05 | 4.16 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 10/9/1997 | 8.87 | 4.84 | 0.04 | 4.06 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 1/14/1998 | 8.87 | 3.90 | 0.94 | 5.68 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 2/12/1998 | 8.87 | 3.35 | 0.64 | 6.00 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 3/3/1998 | 8.87 | 4.51 | 0.02 | 4.38 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 4/1/1998 | 8.87 | 3.67 | 1.60 | 6.40 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 5/26/1998 | 8.87 | 4.11 | 0.50 | 5.14 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 6/15/1998 | 8.87 | 5.03 | 0.30 | 4.07 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 7/15/1998 | 8.87 | 4.56 | 0.05 | 4.35 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 8/21/1998 | 8.87 | 4.77 | 0.02 | 4.12 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 9/30/1998 | 8.87 | 5.08 | 0.03 | 3.81 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 10/16/1998 | 8.87 | 4.31 | 2.40 | 6.36 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 11/6/1998 | 8.87 | 3.98 | 0.17 | 5.02 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 11/25/1998 | 8.87 | 3.92 | 0.10 | 5.03 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 12/28/1998 | 8.87 | 3.90 | 0.20 | 5.12 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |
| 1/25/1999 | 8.87 | 4.18 | 0.60 | 5.14 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|-----|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) | |
| MW-6 | 2/22/1999 | 8.87 | 4.07 | 0.22 | 4.97 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 3/22/1999 | 8.87 | 4.32 | 0.15 | 4.66 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 4/15/1999 | 8.87 | 4.23 | 0.95 | 5.35 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 5/28/1999 | 8.87 | 4.38 | 0.39 | 4.78 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 6/29/1999 | 8.87 | 4.12 | 0.02 | 4.77 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 7/14/1999 | 8.87 | 4.20 | 0.03 | 4.69 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 8/23/1999 | 8.87 | 4.51 | 0.24 | 4.54 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 9/30/1999 | 8.87 | 4.17 | 0.17 | 4.83 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 10/21/1999 | 8.87 | 4.27 | 0.12 | 4.69 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 11/29/1999 | 8.87 | 4.18 | NP | 4.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/20/1999 | 8.87 | 4.26 | 0.01 | 4.62 | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH | LPH |
| | 1/20/2000 | 8.87 | 4.31 | NP | 4.56 | 67,600 | 130,000 | 2,900 | 8,600 | 2,000 | 16,000 | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2/26/2000 | 8.87 | 3.98 | NP | 4.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/31/2000 | 8.87 | 4.14 | NP | 4.73 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/13/2000 | 8.87 | 4.04 | NP | 4.83 | 8,700 | 140,000 | 5,000 | 14,000 | 3,600 | 27,000 | 7,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/26/2000 | 8.87 | 4.41 | NP | 4.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/17/2000 | 8.87 | 4.35 | NP | 4.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/14/2000 | 8.87 | 4.47 | NP | 4.40 | 133,000 | 259,000 | 7,670 | 13,700 | 6,860 | 40,700 | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/24/2000 | 8.87 | 3.71 | NP | 5.16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/27/2000 | 8.87 | 4.33 | NP | 4.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/26/2000 | 8.87 | 4.32 | NP | 4.55 | 61,000 | 110,000 | 7,000 | 6,200 | 3,700 | 12,000 | 670 | 43 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/3/2001 | 8.87 | 4.52 | NP | 4.35 | 929 | 84,700 | 3,950 | 4,130 | 3,650 | 11,800 | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/4/2001 | 8.87 | 4.29 | NP | 4.58 | 18,000 | 69,800 | 2,060 | 2,840 | 3,650 | 10,900 | ND | 48 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 7/17/2001 | 8.87 | 4.37 | NP | 4.50 | 20,000 | 100,000 | 3,200 | 3,300 | 3,400 | 12,000 | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/1/2001 | 8.87 | 4.45 | NP | 4.42 | 24,000 | 110,000 | 3,200 | 2,400 | 4,500 | 13,000 | <1000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/31/2002 | 8.87 | 4.03 | NP | 4.84 | 11,000 | 230,000 | 2,400 | 1,800 | 5,400 | 16,000 | <2500 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/18/2002 | 8.87 | 3.45 | NP | 5.42 | 3,500 | 94,000 | 6,800 | 13,000 | 3,000 | 19,000 | <500 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/28/2002 | 8.87 | 2.24 | NP | 6.63 | 27,000 | 110,000 | 530 | 170 | 3,200 | 7,300 | -- | <100 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/2002 | 8.87 | 3.53 | NP | 5.34 | 170,000 | 970,000 | 10,000 | 39,000 | 13,000 | 94,000 | -- | <2000 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/2/2003 | 8.87 | 2.34 | NP | 6.53 | 66,000 | 270,000 | 6,100 | 15,000 | 5,400 | 37,000 | -- | <200 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/1/2003 | 8.87 | 3.17 | NP | 5.70 | 35,000 | 3,000,000 | 8,000 | 39,000 | 37,000 | 260,000 | -- | <2000 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/1/2003 | 8.87 | 3.55 | NP | 5.32 | 11,000 | 38,000 | 2,100 | 990 | 2,700 | 6,500 | -- | <100 | -- | -- | -- | -- | -- | -- | <25000 | -- |
| | 10/2/2003 | 8.87 | 3.82 | NP | 5.05 | <50 | 100,000 | 5,600 | 6,900 | 4,700 | 18,000 | -- | <800 | -- | -- | -- | -- | -- | -- | <200000 | -- |
| | 1/9/2004 | 8.87 | 2.80 | NP | 6.07 | 20,000 | 170,000 | 2,800 | 3,300 | 4,700 | 16,000 | -- | <200 | -- | -- | -- | -- | -- | -- | <50000 | -- |
| | 4/26/2004 | 8.87 | 3.40 | NP | 5.47 | 13,000 | 97,000 | 5,900 | 9,000 | 5,100 | 23,000 | -- | <50 | -- | -- | -- | -- | -- | -- | <5000 | -- |
| | 7/22/2004 | 8.87 | 3.54 | NP | 5.33 | 33,000 | 110,000 | 4,100 | 5,100 | 4,000 | 16,000 | -- | <200 | -- | -- | -- | -- | -- | -- | <300000 | -- |
| 10/29/2004 | 8.87 | 3.03 | NP | 5.84 | 78,000 | 100,000 | 5,200 | 6,100 | 4,200 | 15,000 | -- | <50 | -- | -- | -- | -- | -- | -- | <5000 | -- | |
| 1/10/2005 | 8.87 | 2.35 | NP | 6.52 | 12,000 | 71,000 | 1,600 | 3,700 | 2,100 | 9,900 | -- | <50 | -- | -- | -- | -- | -- | -- | <5000 | -- | |
| 6/15/2005 | 8.87 | 2.47 | NP | 6.40 | 16,000 | 130,000 | 800 | 1,800 | 2,200 | 9,300 | -- | <50 | -- | -- | -- | -- | -- | -- | <5000 | -- | |
| 9/27/2005 | 8.87 | 2.55 | NP | 6.32 | 2,500 | 13,000 | 82 | 120 | 430 | 990 | -- | 1 | 2 | <0.50 | <0.50 | <10 | <250 | -- | -- | -- | |
| 12/13/2005 | 8.87 | 3.28 | NP | 5.59 | 18,000 | 68,000 | 1,500 | 1,100 | 2,200 | 7,700 | -- | <50 | -- | -- | -- | -- | -- | -- | <25000 | -- | |
| 3/23/2006 | 8.87 | 2.87 | NP | 6.00 | 73,000 | 41,000 | 290 | 140 | 1,500 | 2,700 | -- | <50 | -- | -- | -- | -- | -- | -- | <25000 | -- | |
| 6/23/2006 | 8.87 | 3.15 | NP | 5.72 | 35,000 | 50,000 | 2,200 | 1,400 | 1,900 | 5,700 | -- | <12 | -- | -- | -- | -- | -- | -- | <6200 | -- | |
| 9/26/2006 | 8.87 | 3.08 | NP | 5.79 | 22,000 | 130,000 | 2,200 | 1,000 | 2,900 | 8,800 | -- | <50 | -- | -- | -- | -- | -- | -- | <25000 | -- | |
| 12/22/2006 | 8.87 | 2.90 | NP | 5.97 | 62,000 | 90,000 | 940 | 610 | 1,900 | 4,700 | -- | <50 | -- | -- | -- | -- | -- | -- | <25000 | -- | |
| 3/30/2007 | 8.87 | 3.26 | NP | 5.61 | 62,000 | 210,000 | 1,100 | 560 | 3,400 | 12,000 | -- | <10 | -- | -- | -- | -- | -- | -- | <5000 | -- | |
| 6/28/2007 | 8.87 | 3.46 | NP | 5.41 | 71,000 | 67,000 | 2,200 | 1,300 | 2,700 | 10,000 | -- | <25 | -- | -- | -- | -- | -- | -- | <12000 | -- | |
| 9/25/2007 | 8.87 | 3.52 | NP | 5.35 | 58,000 | 56,000 | 2,900 | 720 | 2,400 | 9,000 | -- | <25 | -- | -- | -- | -- | -- | -- | <12000 | -- | |
| 12/28/2007 | 8.87 | 3.27 | NP | 5.60 | 18,000 | 78,000 | 28,000 | 2,700 | 4,000 | 8,100 | -- | 16,000 | -- | -- | -- | -- | -- | -- | <12000 | -- | |
| 3/22/2008 | 8.87 | 2.48 | NP | 6.39 | 68,000 | 66,000 | 380 | 150 | 1,500 | 2,400 | -- | <25 | -- | -- | -- | -- | -- | -- | <12000 | -- | |
| 6/23/2008 | 8.87 | 3.54 | NP | 5.33 | 68,000 | 59,000 | 1,600 | 130 | 1,800 | 4,100 | -- | 25 | -- | -- | -- | -- | -- | -- | <12000 | -- | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|----|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) | |
| MW-6 | 9/19/2008 | 8.87 | 4.06 | NP | 4.81 | 180,000 | 65,000 | 2,000 | 230 | 2,000 | 4,500 | -- | <12 | -- | -- | -- | -- | <6200 | -- | -- | |
| | 12/31/2008 | 8.87 | 3.45 | NP | 5.42 | 68,000 | 91,000 | 2,000 | 320 | 5,300 | 13,000 | -- | <50 | -- | -- | -- | -- | <25000 | -- | -- | |
| | 3/27/2009 | 8.87 | 3.09 | NP | 5.78 | 170,000 | 150,000 | 1,300 | 240 | 2,800 | 7,200 | -- | <50 | -- | -- | -- | -- | <25000 | -- | -- | |
| | 5/28/2009 | 8.87 | 3.49 | NP | 5.38 | 78,000 | 53,000 | 1,700 | 200 | 2,300 | 5,400 | -- | <50 | -- | -- | -- | -- | <25000 | -- | -- | |
| | 9/17/2009 | 8.87 | 3.64 | NP | 5.23 | 250,000 T4 | 77,000 | 2,100 | 1,400 | 2,600 | 8,500 | -- | <12 | -- | -- | -- | -- | <6200 | -- | -- | |
| | 12/17/2009 | 8.87 | 3.14 | NP | 5.73 | 30,300 | 59,100 | 1,730 | 199 | 2,260 | 5,460 | -- | 20 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/29/2010 | 8.87 | 3.16 | NP | 5.71 | 106,000 | 48,400 | 1,980 | 208 | 3,070 | 8,070 | -- | 12 | -- | -- | -- | -- | <250 | -- | -- | |
| | 6/30/2010 | 11.55 | 3.50 | NP | 8.05 | 170,000 | 78,700 | 2,130 | 281 | 2,860 | 8,400 | -- | 6 | -- | -- | -- | -- | <250 | -- | -- | |
| | 7/6/2010 | 11.55 | 3.49 | NP | 8.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | 11.55 | 3.75 | NP | 7.80 | 18,800 | 64,500 | 2,300 | 170 | 2,770 | 6,260 | -- | 19 | -- | -- | -- | -- | <250 | -- | -- | |
| | 12/8/2010 | 11.55 | 8.42 | NP | 3.13 | 28,700 | 78,400 | 1,300 | 1,680 | 3,490 | 20,600 | -- | 11 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/14/2011 | 11.55 | 3.40 | NP | 8.15 | 93,000 | 44,600 | 912 | 338 | 728 | 3,670 | -- | 16 | -- | -- | -- | 134 | <250 | -- | -- | |
| | 6/2/2011 | 11.55 | 2.76 | NP | 8.79 | 33,700 T4 | 56,200 | 780 | 262 | 651 | 3,890 | -- | 7 | -- | -- | -- | 81.0 | <250 | -- | -- | |
| | 9/7/2011 | 11.55 | 2.83 | NP | 8.72 | 6,780 T4 | 16,600 | 16 | 11 | 90 | 339 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 12/5/2011 | 11.55 | 3.56 | NP | 7.99 | 20,200 T4 | 64,600 | 646 | 95 | 924 | 4,050 | -- | 15 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/6/2012 | 11.55 | 3.43 | NP | 8.12 | 14,800 T4 | 55,000 | 1,020 | 131 | 1,320 | 4,730 | -- | 19 | -- | -- | -- | 316 | <1250 | -- | -- | |
| | 6/11/2012 | 11.55 | 3.33 | NP | 8.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | -- | 47,100 T4 | 33,400 | 773 | 61 | 840 | 3,110 | -- | 11 | -- | -- | -- | 123 | <250 | -- | -- | |
| | 9/6/2012 | 11.55 | 2.85 | NP | 8.70 | <1000 | 24,000 | 450 | 51 | 610 | 1,800 | -- | 6 | <4.0 | <4.0 | <4.0 | 82 | <40 | <4.0 | <4.0 | |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | 11.55 | 2.90 | NP | 8.65 | 470 | 20,000 | 200 | 16 | 350 | 1,100 | -- | <4.0 | -- | -- | -- | 22 | <40 | -- | -- | | |
| 3/14/2013 | 11.55 | 3.69 | NP | 7.86 | 680 | 24,000 | 500 | 25 | 540 | 1,700 | -- | 8 | -- | -- | -- | 110 | <40 | -- | -- | | |
| 6/11/2013 | 11.55 | 3.86 | NP | 7.69 | 2,400 | 87,000 | 1,800 | 250 | 2,000 | 9,400 | -- | 13 | -- | -- | -- | 230 | <40 | -- | -- | | |
| 9/10/2013 | 11.55 | 4.11 | NP | 7.44 | 470 | 28,000 | 440 | 19 | 530 | 1,500 | -- | 10 | -- | -- | -- | 170 | <40 | -- | -- | | |
| 12/12/2013 | 11.55 | 3.55 | NP | 8.00 | 100 | 15,000 | 220 | 13 | 270 | 660 | -- | 9.5 | -- | -- | -- | 120 | <25 | -- | -- | | |
| 3/4/2014 | 11.55 | 3.07 | NP | 8.48 | 580 | 33,000 | 490 | 19 | 620 | 1,800 | -- | 13 | -- | -- | -- | 160 | <50 | -- | -- | | |
| 6/12/2014 | 11.55 | 3.79 | NP | 7.76 | 570 | 35,000 | 390 | 17 | 690 | 1,600 | -- | 12 | -- | -- | -- | 180 | <50 | -- | -- | | |
| MW-7 | 5/27/1997 | 8.83 | 4.50 | NP | 4.33 | -- | 68 | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/1/1997 | 8.83 | 4.54 | NP | 4.29 | 69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1997 | 8.83 | 4.70 | NP | 4.13 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/9/1997 | 8.83 | 4.30 | NP | 4.53 | 190 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/14/1998 | 8.83 | 2.88 | NP | 5.95 | 65 | ND | ND | ND | ND | ND | 36 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/1/1998 | 8.83 | 3.13 | NP | 5.70 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1998 | 8.83 | 4.45 | NP | 4.38 | 74 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/16/1998 | 8.83 | 3.45 | NP | 5.38 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/25/1999 | 8.83 | 3.22 | NP | 5.61 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/15/1999 | 8.83 | 3.11 | NP | 5.72 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/14/1999 | 8.83 | 3.34 | NP | 5.49 | 69 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/21/1999 | 8.83 | 3.43 | NP | 5.40 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/20/2000 | 8.83 | 3.29 | NP | 5.54 | ND | ND | ND | ND | ND | ND | 4.2 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/13/2000 | 8.83 | 3.39 | NP | 5.44 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/14/2000 | 8.83 | 4.42 | NP | 4.41 | 68.0 | ND | ND | ND | ND | ND | 7.83 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/17/2001 | 8.83 | 5.06 | NP | 3.77 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/1/2001 | 8.83 | 4.98 | NP | 3.85 | <51 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | -- | -- | -- | -- | -- | -- | -- | |
| | 1/31/2002 | 8.83 | 3.88 | NP | 4.95 | 90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/18/2002 | 8.83 | 4.03 | NP | 4.80 | 78 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.7 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/28/2002 | 8.83 | 3.59 | NP | 5.24 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 3.9 | -- | -- | -- | -- | -- | -- | -- | |
| 10/9/2002 | 8.83 | 4.53 | NP | 4.30 | <96 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 3.9 | -- | -- | -- | -- | -- | -- | -- | | |
| 1/3/2003 | 8.83 | 3.36 | NP | 5.47 | 78 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- | | |
| 4/1/2003 | 8.83 | 3.94 | NP | 4.89 | 67 | 71 | <0.50 | <0.50 | 0.71 | <1.0 | -- | 3.4 | -- | -- | -- | -- | -- | -- | -- | | |
| 7/1/2003 | 8.83 | 4.60 | NP | 4.23 | 68 | 64 | <0.50 | <0.50 | 0.77 | 2.0 | -- | 35 | -- | -- | -- | -- | <500 | -- | -- | | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|----|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) | |
| MW-7 | 10/2/2003 | 8.83 | 5.46 | NP | 3.37 | 82 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 4.9 | -- | -- | -- | -- | <500 | -- | -- | |
| | 1/9/2004 | 8.83 | 3.55 | NP | 5.28 | 75 | 54 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 2.4 | -- | -- | -- | -- | <500 | -- | -- | |
| | 4/26/2004 | 8.83 | 4.49 | NP | 4.34 | <50 | <50 | <0.50 | <0.50 | <0.50 | 1.5 | -- | 2.3 | -- | -- | -- | -- | <50 | -- | -- | |
| | 7/22/2004 | 8.83 | 4.93 | NP | 3.90 | <200 | 82 | 0.90 | 2.0 | 3.5 | 9.9 | -- | 1.4 | -- | -- | -- | -- | <1000 | -- | -- | |
| | 10/29/2004 | 8.83 | 3.71 | NP | 5.12 | 54 | 210 | 0.67 | 1.6 | 1.7 | 5.8 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- | |
| | 1/10/2005 | 8.83 | 2.77 | NP | 6.06 | <50 | 74 | 0.51 | 2.2 | 1.7 | 7.0 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- | |
| | 6/15/2005 | 8.83 | 3.40 | NP | 5.43 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 0.88 | -- | -- | -- | -- | <50 | -- | -- | |
| | 9/27/2005 | 8.83 | 3.44 | NP | 5.39 | <200 | <50 | 0.59 | 1.2 | <0.50 | <1.0 | -- | 0.96 | <0.50 | <0.50 | <0.50 | <10 | <250 | -- | -- | |
| | 12/13/2005 | 8.83 | 3.98 | NP | 4.85 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 0.65 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/23/2006 | 8.83 | 3.37 | NP | 5.46 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 6/23/2006 | 8.83 | 5.25 | NP | 3.58 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 9/26/2006 | 8.83 | 4.13 | NP | 4.70 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 0.77 | -- | -- | -- | -- | <250 | -- | -- | |
| | 12/22/2006 | 8.83 | 3.63 | NP | 5.20 | 630 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/30/2007 | 8.83 | 4.31 | NP | 4.52 | 94 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 6/28/2007 | 8.83 | 4.62 | NP | 4.21 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 0.54 | -- | -- | -- | -- | <250 | -- | -- | |
| | 9/25/2007 | 8.83 | 4.65 | NP | 4.18 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 12/28/2007 | 8.83 | 3.99 | NP | 4.84 | 75 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/22/2008 | 8.83 | 4.08 | NP | 4.75 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 6/23/2008 | 8.83 | 4.10 | NP | 4.73 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 9/19/2008 | 8.83 | 4.86 | NP | 3.97 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 12/31/2008 | 8.83 | 4.17 | NP | 4.66 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/27/2009 | 8.83 | 4.00 | NP | 4.83 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 5/28/2009 | 8.83 | 4.71 | NP | 4.12 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 9/17/2009 | 8.83 | 4.87 | NP | 3.96 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 3/29/2010 | 8.83 | WI | WI | WI | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/30/2010 | 11.64 | 4.45 | NP | 7.19 | 66.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 7/6/2010 | 11.64 | 4.63 | NP | 7.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | 11.64 | 4.85 | NP | 6.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | 11.64 | 3.99 | NP | 7.65 | 57.7 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| | 3/14/2011 | 11.64 | 3.81 | NP | 7.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | 11.64 | 3.90 | NP | 7.74 | 63.0 T4 | -- | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | |
| | 9/7/2011 | 11.64 | 3.72 | NP | 7.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/5/2011 | 11.64 | 4.60 | NP | 7.04 | <50.0 | -- | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | | |
| 3/6/2012 | 11.64 | 4.54 | NP | 7.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/11/2012 | 11.64 | 4.93 | NP | 6.71 | <37.9 | -- | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | | |
| 9/6/2012 | 11.64 | 4.03 | NP | 7.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | 11.64 | 3.43 | NP | 8.21 | <50 | -- | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- | | |
| 3/14/2013 | 11.64 | 4.9 | NP | 6.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/11/2013 | 11.64 | 6.92 | NP | 4.72 | 96 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | 7 | <5.0 | -- | -- | | |
| 9/10/2013 | 11.64 | 6.54 | NP | 5.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/12/2013 | 11.64 | 4.60 | NP | 7.04 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- | | |
| 3/4/2014 | 11.64 | 3.42 | NP | 8.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/12/2014 | 11.64 | 5.76 | NP | 5.88 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- | | |
| MW-8 | 5/27/1997 | 8.52 | 3.42 | NP | 5.10 | -- | 310 | 0.88 | 0.67 | 15 | 70 | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/1/1997 | 8.52 | 3.46 | NP | 5.06 | 320 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1997 | 8.52 | 3.49 | NP | 5.03 | ND | ND | ND | ND | 2.7 | 3.8 | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/9/1997 | 8.52 | 3.73 | NP | 4.79 | 390 | 590 | 1.4 | ND | 32 | 4.1 | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/14/1998 | 8.52 | 1.92 | NP | 6.60 | 230 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/1/1998 | 8.52 | 2.38 | NP | 6.14 | 510 | ND | ND | ND | ND | ND | 4.7 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1998 | 8.52 | 3.53 | NP | 4.99 | 140 | ND | ND | ND | ND | 0.56 | 1.1 | ND | -- | -- | -- | -- | -- | -- | -- | |
| 10/16/1998 | 8.52 | 3.04 | NP | 5.48 | 170 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | |
|-----------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-8 | 1/25/1999 | 8.52 | 2.92 | NP | 5.60 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/15/1999 | 8.52 | 2.40 | NP | 6.12 | 91 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/14/1999 | 8.52 | 3.03 | NP | 5.49 | 120 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/21/1999 | 8.52 | 3.11 | NP | 5.41 | 110 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/20/2000 | 8.52 | 3.06 | NP | 5.46 | 583 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/13/2000 | 8.52 | 2.84 | NP | 5.68 | 80 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/14/2000 | 8.52 | 3.39 | NP | 5.13 | 113 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/17/2001 | 8.52 | 3.46 | NP | 5.06 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/1/2001 | 8.52 | 3.51 | NP | 5.01 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/31/2002 | 8.52 | 2.75 | NP | 5.77 | 260 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/18/2002 | 8.52 | 2.98 | NP | 5.54 | 160 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/28/2002 | 8.52 | 2.41 | NP | 6.11 | 140 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/2002 | 8.52 | 2.09 | NP | 6.43 | 120 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 1/2/2003 | 8.52 | 1.98 | NP | 6.54 | 210 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 4/1/2003 | 8.52 | 2.66 | NP | 5.86 | 220 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 7/1/2003 | 8.52 | 3.08 | NP | 5.44 | 170 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | <500 | -- | -- |
| | 10/2/2003 | 8.52 | 3.89 | NP | 4.63 | 350 | 540 | 3.9 | 15 | 29 | 80 | -- | <2.0 | -- | -- | -- | -- | <500 | -- | -- |
| | 1/9/2004 | 8.52 | 2.38 | NP | 6.14 | 180 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | <500 | -- | -- |
| | 4/26/2004 | 8.52 | 2.89 | NP | 5.63 | 100 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 7/22/2004 | 8.52 | 3.25 | NP | 5.27 | 250 | <50 | <0.5 | <0.5 | <0.5 | <1 | -- | <0.5 | -- | -- | -- | -- | <1000 | -- | -- |
| | 10/29/2004 | 8.52 | 3.06 | NP | 5.46 | 120 | <50 | <0.50 | <0.50 | 0.82 | 2.5 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 1/10/2005 | 8.52 | 1.92 | NP | 6.60 | 140 | 58 | <0.50 | 0.61 | 1.2 | 4.0 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 6/15/2005 | 8.52 | 2.22 | NP | 6.30 | 140 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 9/27/2005 | 8.52 | 2.43 | NP | 6.09 | <200 | <50 | <0.50 | <0.50 | 1.2 | <1.0 | -- | <0.50 | <0.50 | <0.50 | <0.50 | <10 | <250 | -- | -- |
| | 12/13/2005 | 8.52 | 2.89 | NP | 5.63 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/23/2006 | 8.52 | 2.12 | NP | 6.40 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2006 | 8.52 | 2.65 | NP | 5.87 | <230 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/26/2006 | 8.52 | 2.75 | NP | 5.77 | 110 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/22/2006 | 8.52 | 2.58 | NP | 5.94 | 100 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/30/2007 | 8.52 | 2.74 | NP | 5.78 | 120 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/28/2007 | 8.52 | 2.90 | NP | 5.62 | 140 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/25/2007 | 8.52 | 3.26 | NP | 5.26 | 110 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/28/2007 | 8.52 | 2.64 | NP | 5.88 | 110 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/22/2008 | 8.52 | 2.31 | NP | 6.21 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2008 | 8.52 | 3.13 | NP | 5.39 | <58 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/19/2008 | 8.52 | 3.72 | NP | 4.80 | 79 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/31/2008 | 8.52 | 2.98 | NP | 5.54 | 110 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/27/2009 | 8.52 | 2.49 | NP | 6.03 | 89 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 5/28/2009 | 8.52 | 3.12 | NP | 5.40 | 91 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/17/2009 | 8.52 | 3.63 | NP | 4.89 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| 3/29/2010 | 8.52 | WI | WI | WI | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/30/2010 | 11.32 | 2.60 | NP | 8.72 | 182 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 7/6/2010 | 11.32 | 3.03 | NP | 8.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/20/2010 | 11.32 | 3.33 | NP | 7.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/8/2010 | 11.32 | 2.82 | NP | 8.50 | 116 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/14/2011 | 11.32 | 3.84 | NP | 7.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/2/2011 | 11.32 | 2.77 | NP | 8.55 | -- | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | |
| 9/7/2011 | 11.32 | 2.84 | NP | 8.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/5/2011 | 11.32 | 2.68 | NP | 8.64 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/6/2012 | 11.32 | 3.07 | NP | 8.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/11/2012 | 11.32 | 3.08 | NP | 8.24 | <37.9 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | 8.3 | <250 | -- | -- | |

TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|----|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) | |
| MW-8 | 9/6/2012 | 11.32 | 2.91 | NP | 8.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/13/2012 | 11.32 | 2.31 | NP | 9.01 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- | |
| | 3/14/2013 | 11.32 | 3.19 | NP | 8.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2013 | 11.32 | 3.4 | NP | 7.92 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- | |
| | 9/10/2013 | 11.32 | 3.54 | NP | 7.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/2013 | 11.32 | 2.80 | NP | 8.52 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- | |
| | 3/4/2014 | 11.32 | 2.88 | NP | 8.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 6/12/2014 | 11.32 | 3.24 | NP | 8.08 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- | | |
| MW-9 | 2/21/1995 | 8.29 | 1.98 | NP | 6.31 | 71 | 70 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/18/1995 | 8.29 | 3.47 | NP | 4.82 | ND | 52 | ND | 1.1 | ND | 1.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/17/1995 | 8.29 | 1.49 | NP | 6.80 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/26/1996 | 8.29 | 0.28 | NP | 8.01 | 98 | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/28/1996 | 8.29 | 1.15 | NP | 7.14 | 99 | ND | ND | ND | ND | ND | 7.6 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/29/1997 | 8.29 | 1.05 | NP | 7.24 | 54 | ND | ND | ND | ND | ND | 5.4 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/15/1997 | 8.29 | 1.88 | NP | 6.41 | 94 | ND | ND | ND | ND | ND | 5.4 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/27/1997 | 8.29 | 1.05 | NP | 7.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1997 | 8.29 | 1.90 | NP | 6.39 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/9/1997 | 8.29 | 1.76 | NP | 6.53 | 160 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/14/1998 | 8.29 | 1.26 | NP | 7.03 | 110 | ND | ND | ND | ND | ND | 3.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/1/1998 | 8.29 | 0.85 | NP | 7.44 | 110 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1998 | 8.29 | 1.52 | NP | 6.77 | 200 | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/16/1998 | 8.29 | 0.81 | NP | 7.48 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/25/1999 | 8.29 | 0.92 | NP | 7.37 | ND | ND | ND | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/15/1999 | 8.29 | 0.90 | NP | 7.39 | ND | 75 | 21 | ND | ND | 1.1 | 680 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/14/1999 | 8.29 | 1.04 | NP | 7.25 | 140 | ND | 1.9 | ND | ND | ND | 260 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/21/1999 | 8.29 | 1.23 | NP | 7.06 | 210 | ND | ND | ND | ND | ND | 170 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/20/2000 | 8.29 | 1.18 | NP | 7.11 | 519 | ND | 1.1 | ND | ND | ND | 35 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/13/2000 | 8.29 | 1.08 | NP | 7.21 | 81 | 160 | 0.64 | ND | ND | ND | 53 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/14/2000 | 8.29 | 1.43 | NP | 6.86 | 107 | ND | ND | ND | ND | ND | 20.2 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/26/2000 | 8.29 | 1.38 | NP | 6.91 | 240 | 240 | 2.9 | ND | ND | ND | 56 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/3/2001 | 8.29 | 1.66 | NP | 6.63 | 164 | 166 | 0.763 | 0.776 | ND | 1.28 | 50.2 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/4/2001 | 8.29 | 1.27 | NP | 7.02 | 240 | 296 | 0.738 | ND | ND | 0.907 | 135 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/17/2001 | 8.29 | 1.38 | NP | 6.91 | ND | ND | ND | ND | ND | ND | 13 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/1/2001 | 8.29 | 1.93 | NP | 6.36 | <52 | 51 | <0.50 | <0.50 | <0.50 | <0.50 | 5.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/31/2002 | 8.29 | 2.08 | NP | 6.21 | 200 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.8 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 4/18/2002 | 8.29 | 1.76 | NP | 6.53 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.1 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/28/2002 | 8.29 | 1.57 | NP | 6.72 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 3.5 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/9/2002 | 8.29 | 1.45 | NP | 6.84 | 100 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 17 | -- | -- | -- | -- | -- | -- | -- | |
| | 1/2/2003 | 8.29 | 1.18 | NP | 7.11 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 8.6 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/1/2003 | 8.29 | 2.04 | NP | 6.25 | 56 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 9.4 | -- | -- | -- | -- | -- | -- | -- | |
| 7/1/2003 | 8.29 | 2.80 | NP | 5.49 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 3.2 | -- | -- | -- | -- | <500 | -- | -- | | |
| 10/2/2003 | 8.29 | 2.70 | NP | 5.59 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | <500 | -- | -- | | |
| 1/9/2004 | 8.29 | 1.90 | NP | 6.39 | 91 | 74 | <0.50 | 0.98 | 2.3 | 6.2 | -- | <2.0 | -- | -- | -- | -- | <500 | -- | -- | | |
| 4/26/2004 | 8.29 | 1.62 | NP | 6.67 | <50 | 51 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 0.51 | -- | -- | -- | -- | <50 | -- | -- | | |
| 7/22/2004 | 8.29 | 1.88 | NP | 6.41 | <200 | <50 | <0.5 | <0.5 | <0.5 | <1 | -- | 0.78 | -- | -- | -- | -- | <1000 | -- | -- | | |
| 10/29/2004 | 8.29 | 1.28 | NP | 7.01 | 76 | <50 | <0.50 | <0.50 | <0.50 | 1.0 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- | | |
| 1/10/2005 | 8.29 | 0.07 | NP | 8.22 | 77 | 93 | 0.60 | 2.3 | 2.4 | 9.0 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- | | |
| 6/15/2005 | 8.29 | 1.70 | NP | 6.59 | 67 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 6.6 | -- | -- | -- | -- | <50 | -- | -- | | |
| 9/27/2005 | 8.29 | 1.98 | NP | 6.31 | <200 | <50 | <0.50 | 0.73 | <0.50 | <1.0 | -- | 2.3 | <0.50 | <0.50 | <0.50 | <10 | <250 | -- | -- | | |
| 12/13/2005 | 8.29 | 2.26 | NP | 6.03 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 2.9 | -- | -- | -- | -- | <250 | -- | -- | | |
| 3/23/2006 | 8.29 | 1.32 | NP | 6.97 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 2.7 | -- | -- | -- | -- | <250 | -- | -- | | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-9 | 6/23/2006 | 8.29 | 1.98 | NP | 6.31 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 1.9 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/26/2006 | 8.29 | 2.52 | NP | 5.77 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/22/2006 | 8.29 | 1.98 | NP | 6.31 | 150 | <50 | <0.50 | 0.57 | 1.8 | 4.6 | -- | 1.6 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/30/2007 | 8.29 | 2.01 | NP | 6.28 | 72 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 3.4 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/28/2007 | 8.29 | 1.90 | NP | 6.39 | 1000 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 4.9 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/25/2007 | 8.29 | 1.57 | NP | 6.72 | 100 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/28/2007 | 8.29 | 1.98 | NP | 6.31 | 56 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/22/2008 | 8.29 | 0.80 | NP | 7.49 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 0.61 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2008 | 8.29 | 1.80 | NP | 6.49 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/19/2008 | 8.29 | 2.43 | NP | 5.86 | 56 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | 3.9 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/31/2008 | 8.29 | 2.66 | NP | 5.63 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/27/2009 | 8.29 | 2.01 | NP | 6.28 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 5/28/2009 | 8.29 | 2.20 | NP | 6.09 | <50 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/17/2009 | 8.29 | 1.83 | NP | 6.46 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 12/17/2009 | 8.29 | 1.52 | NP | 6.77 | 105 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/29/2010 | 8.29 | 2.21 | NP | 6.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/30/2010 | 10.94 | 2.32 | NP | 8.62 | 95.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 0.85 | -- | -- | -- | -- | <250 | -- | -- |
| | 7/6/2010 | 10.94 | 2.02 | NP | 8.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | 10.94 | 2.03 | NP | 8.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | 10.94 | 1.77 | NP | 9.17 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/14/2011 | 10.94 | 2.24 | NP | 8.70 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <5.0 | <250 | -- |
| | 6/2/2011 | 10.94 | 2.24 | NP | 8.70 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <5.0 | <250 | -- |
| | 9/7/2011 | 10.94 | 2.46 | NP | 8.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | 10.94 | 2.43 | NP | 8.51 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 4.0 | -- | -- | -- | -- | <250 | -- | -- |
| 3/6/2012 | 10.94 | 3.03 | NP | 7.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/11/2012 | 10.94 | 1.75 | NP | 9.19 | <37.9 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <5.0 | <250 | -- | |
| 9/6/2012 | 10.94 | 1.24 | NP | 9.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | 10.94 | 1.80 | NP | 9.14 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <5.0 | <5.0 | -- | |
| 3/14/2013 | 10.94 | 2.38 | NP | 8.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/11/2013 | 10.94 | 2.81 | NP | 8.13 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 4.2 | -- | -- | -- | -- | <5.0 | <5.0 | -- | |
| 9/10/2013 | 10.94 | 2.63 | NP | 8.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/12/2013 | 10.94 | 1.78 | NP | 9.16 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 0.56 | -- | -- | -- | -- | <5.0 | <5.0 | -- | |
| 3/4/2014 | 10.94 | 1.93 | NP | 9.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/12/2014 | 10.94 | 2.39 | NP | 8.55 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 3.3 | -- | -- | -- | -- | <5.0 | <5.0 | -- | |
| MW-10 | 2/21/1995 | 8.62 | 4.69 | NP | 3.93 | 270 | 1500 | 250 | 26 | 9.1 | 160 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 5/18/1995 | 8.62 | 4.92 | NP | 3.70 | 75 | 810 | 520 | ND | 18 | 23 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/17/1995 | 8.62 | 4.05 | NP | 4.57 | ND | 67 | 25 | ND | 2.4 | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/26/1996 | 8.62 | 4.08 | NP | 4.54 | ND | ND | 3.7 | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/28/1996 | 8.62 | 4.09 | NP | 4.53 | ND | ND | 1.1 | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 1/29/1997 | 8.62 | 2.94 | NP | 5.68 | ND | 210 | 41 | 0.67 | 7.2 | 4.8 | 11 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/15/1997 | 8.62 | 4.07 | NP | 4.55 | ND | 110 | 12 | ND | 0.77 | ND | 9.7 | -- | -- | -- | -- | -- | -- | -- | |
| | 5/27/1997 | 8.62 | 4.40 | NP | 4.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1997 | 8.62 | 4.19 | NP | 4.43 | ND | ND | 2.1 | ND | 0.67 | 0.73 | ND | -- | -- | -- | -- | -- | -- | -- | |
| | 10/9/1997 | 8.62 | 4.75 | NP | 3.87 | ND | 190 | 38 | 0.92 | 6.6 | 7.6 | ND | -- | -- | -- | -- | -- | -- | -- | |
| | 1/14/1998 | 8.62 | 2.66 | NP | 5.96 | -- | 59 | 9.5 | 0.85 | 1.2 | 1.7 | 4.5 | -- | -- | -- | -- | -- | -- | -- | |
| | 4/1/1998 | 8.62 | 3.45 | NP | 5.17 | 62 | 230 | 66 | 1.7 | 12 | 17 | 6.4 | -- | -- | -- | -- | -- | -- | -- | |
| | 7/15/1998 | 8.62 | 4.21 | NP | 4.41 | 78 | 290 | 98 | 45 | 21 | 38 | 21 | -- | -- | -- | -- | -- | -- | -- | |
| | 10/16/1998 | 8.62 | 4.11 | NP | 4.51 | ND | 160 | 44 | 0.96 | 2.5 | 10 | 17 | -- | -- | -- | -- | -- | -- | -- | |
| | 1/25/1999 | 8.62 | 3.26 | NP | 5.36 | ND | 140 | 27 | ND | 2.8 | 6.8 | 23 | -- | -- | -- | -- | -- | -- | -- | |
| 4/15/1999 | 8.62 | 3.63 | NP | 4.99 | ND | 120 | 18 | ND | 1.8 | 5.1 | 14 | -- | -- | -- | -- | -- | -- | -- | | |
| 7/14/1999 | 8.62 | 3.89 | NP | 4.73 | 180 | 280 | 55 | 3.2 | 11 | 31 | 6.1 | -- | -- | -- | -- | -- | -- | -- | | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-10 | 10/21/1999 | 8.62 | 4.09 | NP | 4.53 | 96 | 140 | 22 | 0.59 | 1.7 | 7.7 | 5.3 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/20/2000 | 8.62 | 3.92 | NP | 4.70 | 252 | ND | 0.73 | 0.86 | ND | ND | 5.2 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/13/2000 | 8.62 | 3.85 | NP | 4.77 | 69 | 67 | 54 | ND | 2.6 | ND | 3.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/14/2000 | 8.62 | 4.18 | NP | 4.44 | 149 | ND | 0.547 | ND | ND | ND | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/26/2000 | 8.62 | 3.96 | NP | 4.66 | 83 | ND | 3.3 | ND | 0.83 | 1.5 | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/3/2001 | 8.62 | 4.14 | NP | 4.48 | 126 | 52.7 | 5.15 | ND | 0.823 | 1.57 | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/4/2001 | 8.62 | 3.88 | NP | 4.74 | 75 | 129 | 28.1 | 1.67 | 4.97 | 10.1 | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/17/2001 | 8.62 | 4.08 | NP | 4.54 | ND | ND | 4.1 | ND | 1.0 | 1.8 | ND | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/1/2001 | 8.62 | 4.22 | NP | 4.40 | 100 | 140 | 30 | 0.51 | 4.0 | 12 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/31/2002 | 8.62 | 3.68 | NP | 4.94 | 170 | 110 | 16 | <0.50 | 2.3 | 5.6 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/18/2002 | 8.62 | 4.01 | NP | 4.61 | 130 | <50 | 11 | <0.50 | 1.4 | 4.5 | <2.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/28/2002 | 8.62 | 4.11 | NP | 4.51 | 58 | 67 | 15 | <0.50 | 0.94 | 7.3 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 10/9/2002 | 8.62 | 3.97 | NP | 4.65 | <94 | <50 | 0.67 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 1/2/2003 | 8.62 | 3.03 | NP | 5.59 | 64 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 4/1/2003 | 8.62 | 3.83 | NP | 4.79 | 76 | <50 | 11 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- |
| | 7/1/2003 | 8.62 | 4.13 | NP | 4.49 | 87 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <2.0 | -- | -- | -- | -- | <500 | -- | -- |
| | 10/2/2003 | 8.62 | 4.05 | NP | 4.57 | 160 | 77 | 9.9 | 0.78 | 2.3 | 4.9 | -- | <2.0 | -- | -- | -- | -- | <500 | -- | -- |
| | 1/9/2004 | 8.62 | 3.40 | NP | 5.22 | 74 | 53 | 1.2 | <0.50 | 0.70 | 1.6 | -- | <2.0 | -- | -- | -- | -- | <500 | -- | -- |
| | 4/26/2004 | 8.62 | 3.89 | NP | 4.73 | <50 | <50 | 2.8 | 1.3 | 1.0 | 2.9 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 7/22/2004 | 8.62 | 3.73 | NP | 4.89 | <200 | <50 | <0.5 | <0.5 | <0.5 | <1 | -- | <0.5 | -- | -- | -- | -- | <1000 | -- | -- |
| | 10/29/2004 | 8.62 | 3.41 | NP | 5.21 | <50 | 100 | 2.0 | 1.2 | 1.1 | 3.6 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 1/10/2005 | 8.62 | 2.68 | NP | 5.94 | 94 | 84 | 7.8 | 2.7 | 2.2 | 8.9 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 6/15/2005 | 8.62 | 4.63 | NP | 3.99 | 62 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <50 | -- | -- |
| | 9/27/2005 | 8.62 | 3.96 | NP | 4.66 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | <0.50 | <0.50 | <0.50 | <10 | <250 | -- | -- |
| | 12/13/2005 | 8.62 | 3.75 | NP | 4.87 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/23/2006 | 8.62 | 3.13 | NP | 5.49 | <200 | 50 | 13 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2006 | 8.62 | 3.90 | NP | 4.72 | <200 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/26/2006 | 8.62 | 3.66 | NP | 4.96 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/22/2006 | 8.62 | 3.56 | NP | 5.06 | 81 | <50 | <0.50 | <0.50 | <0.50 | 1.8 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/30/2007 | 8.62 | 3.93 | NP | 4.69 | 82 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/28/2007 | 8.62 | 4.03 | NP | 4.59 | 57 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/25/2007 | 8.62 | 3.91 | NP | 4.71 | 82 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/28/2007 | 8.62 | 3.64 | NP | 4.98 | 62 | <50 | 2.1 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/22/2008 | 8.62 | 4.00 | NP | 4.62 | <50 | 64 | 13 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 6/23/2008 | 8.62 | 3.90 | NP | 4.72 | <50 | 94 | 30 | 0.53 | 3.4 | 3.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/19/2008 | 8.62 | 3.85 | NP | 4.77 | <50 | 130 | 15 | 1.7 | 5.7 | 11 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/31/2008 | 8.62 | 3.69 | NP | 4.93 | <50 | 82 | 11 | <0.50 | 0.81 | 1.7 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/27/2009 | 8.62 | 3.75 | NP | 4.87 | 730 | 210 | 28 | 1.4 | 1.2 | 3.9 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 5/28/2009 | 8.62 | 3.66 | NP | 4.96 | <50 | <50 | 0.91 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 9/17/2009 | 8.62 | 3.85 | NP | 4.77 | 65 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| 12/17/2009 | 8.62 | 3.00 | NP | 5.62 | 57.7 | <50.0 | 1.2 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/29/2010 | 8.62 | 3.81 | NP | 4.81 | 82.2 | <50.0 | 0.77 | <0.50 | <0.50 | 3.4 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 6/30/2010 | 10.97 | 3.90 | NP | 7.07 | 53.4 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 7/6/2010 | 10.97 | 3.73 | NP | 7.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/20/2010 | 10.97 | 3.85 | NP | 7.12 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 12/8/2010 | 10.97 | 3.63 | NP | 7.34 | <50.0 | <50.0 | 1.8 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/14/2011 | 10.97 | 3.46 | NP | 7.51 | 63.3 | <50.0 | 1.1 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | |
| 6/2/2011 | 10.97 | 3.92 | NP | 7.05 | <50.0 | 58.7 | 4.8 | 4.2 | 0.96 | 5.1 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- | |
| 9/7/2011 | 10.97 | 4.06 | NP | 6.91 | <50.0 | <50.0 | 4.1 | <0.50 | 0.66 | 2.4 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 12/5/2011 | 10.97 | 3.82 | NP | 7.15 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- | |
| 3/6/2012 | 10.97 | 3.74 | NP | 7.23 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | 58.7 | <250 | -- | -- | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-10 | 6/11/2012 | 10.97 | 3.99 | NP | 6.98 | <37.9 | <50.0 | 0.79 | <0.50 | <0.50 | <1.5 | -- | 0.72 | -- | -- | -- | 17.2 | <250 | -- | -- |
| | 9/6/2012 | 10.97 | 4.00 | NP | 6.97 | 110 | 64 | 6.9 | 0.89 | 1.8 | 3.9 | -- | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | 10.97 | 3.40 | NP | 7.57 | <50 | 120 | 15 | 1.1 | 1.7 | 5.2 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 3/14/2013 | 10.97 | 4.00 | NP | 6.97 | <50 | 86 | 25 | <0.50 | 0.6 | 0.8 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 6/11/2013 | 10.97 | 4.20 | NP | 6.77 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <8.0 | -- | -- |
| | 9/10/2013 | 10.97 | 3.92 | NP | 7.05 | <50 | <50 | <0.50 | <0.50 | <0.50 | 1.2 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 12/12/2013 | 10.97 | 3.85 | NP | 7.12 | <50 | <50 | 2.4 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 3/4/2014 | 10.97 | 3.38 | NP | 7.59 | <50 | <50 | 1.5 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| 6/12/2014 | 10.97 | 3.92 | NP | 7.05 | <50 | <50 | 4.4 | <0.50 | <0.50 | 0.91 | -- | <0.50 | -- | -- | -- | <5.0 | <8.0 | -- | -- | |
| MW-11 | 7/6/2010 | 10.53 | 2.44 | NP | 8.09 | 226 | 99.2 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 165 | <0.50 | <0.50 | <0.50 | 174 | <250 | <1.0 | <1.0 |
| | 9/20/2010 | 10.53 | 2.80 | NP | 7.73 | <50.0 | 76.4 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 82.7 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 10.53 | 1.90 | NP | 8.63 | 52.7 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 59.1 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/14/2011 | 10.53 | 1.89 | NP | 8.64 | 67.8 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 44.0 | -- | -- | -- | <5.0 | <250 | -- | -- |
| | 6/2/2011 | 10.53 | 1.75 | NP | 8.78 | 69.0 T4 | <50.0 | <0.50 | 0.61 | <0.50 | <1.5 | -- | 24.9 | -- | -- | -- | 7.1 | <250 | -- | -- |
| | 9/7/2011 | 10.53 | 1.56 | NP | 8.97 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 3.8 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/5/2011 | 10.53 | 2.05 | NP | 8.48 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 26.4 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/6/2012 | 10.53 | 2.31 | NP | 8.22 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 35.3 | -- | -- | -- | 5.7 | <250 | -- | -- |
| | 6/11/2012 | 10.53 | 2.24 | NP | 8.29 | <37.9 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 20.9 | -- | -- | -- | 10.4 | <250 | -- | -- |
| | 9/6/2012 | 10.53 | 1.70 | NP | 8.83 | 64 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 7.7 | <0.50 | <0.50 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 |
| | 12/13/2012 | 10.53 | 1.56 | NP | 8.97 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 27 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 3/14/2013 | 10.53 | 2.20 | NP | 8.33 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 20 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 6/11/2013 | 10.53 | 2.92 | NP | 7.61 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 32 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 9/10/2013 | 10.53 | 2.98 | NP | 7.55 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 22 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| 12/12/2013 | 10.53 | 2.20 | NP | 8.33 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 20 | -- | -- | -- | <5.0 | <5.0 | -- | -- | |
| 3/4/2014 | 10.53 | 1.75 | NP | 8.78 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 12 | -- | -- | -- | <5.0 | <5.0 | -- | -- | |
| 6/12/2014 | 10.53 | 2.51 | NP | 8.02 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 3.7 | -- | -- | -- | <5.0 | <5.0 | -- | -- | |
| MW-12 | 7/6/2010 | 11.01 | 4.00 | NP | 7.01 | 990 | 20,300 | 1,030 | 955 | 311 | 2,450 | -- | 1,650 | <0.50 | <0.50 | 1.0 | 1,430 | <250 | <1.0 | <1.0 |
| | 9/20/2010 | 11.01 | 4.18 | NP | 6.83 | 5,220 | 73,700 | 6,020 | 6,390 | 2,970 | 18,300 | -- | 894 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 11.01 | 3.92 | NP | 7.09 | 428 | 3,350 | 249 | 117 | 90 | 558 | -- | 1,470 | -- | -- | -- | -- | <2500 | -- | -- |
| | 3/14/2011 | 11.01 | 3.70 | NP | 7.31 | 283 | 2,420 | 287 | 81 | 49 | 243 | -- | 1,020 | -- | -- | -- | 70 | <250 | -- | -- |
| | 6/2/2011 | 11.01 | 4.40 | NP | 6.61 | 1,330 T4 | 12,200 | 688 | 71 | 225 | 619 | -- | 824 | -- | -- | -- | 110 | <250 | -- | -- |
| | 9/7/2011 | 11.01 | 4.37 | NP | 6.64 | 1,270 T4 | 7,900 | 920 | 25 | 187 | 267 | -- | 896 | -- | -- | -- | -- | <2500 | -- | -- |
| | 12/5/2011 | 11.01 | 4.32 | NP | 6.69 | 286 T4 | 2,240 | 296 | 38 | 38.0 | 122 | -- | 1,040 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/6/2012 | 11.01 | 4.01 | NP | 7.00 | 272 T4 | 1,260 | 193 | 23 | 29 | 81 | -- | 835 | -- | -- | -- | 78 | <250 | -- | -- |
| | 6/11/2012 | 11.01 | 4.20 | NP | 6.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | -- | 957 T4 | 1,030 | 178 | 17.0 | 24 | 69 | -- | 993 | -- | -- | -- | 448 | <250 | -- | -- |
| | 9/6/2012 | 11.01 | 4.15 | NP | 6.86 | <200 | 580 | 120 | 10 | 15 | 37 | -- | 840 | <1.5 | <1.5 | <1.5 | 15 | <15 | <1.5 | 14 |
| | 12/13/2012 | 11.01 | 3.35 | NP | 7.66 | <50 | 480 | 70 | 4.60 | 7.20 | 19 | -- | 820 | -- | -- | -- | 19 | <15 | -- | -- |
| | 3/14/2013 | 11.01 | 4.11 | NP | 6.90 | <50 | 370 | 76 | 3.40 | 12.00 | 18 | -- | 810 | -- | -- | -- | 21 | <15 | -- | -- |
| | 6/11/2013 | 11.01 | 4.30 | NP | 6.71 | 62 | 290 | 51 | <1.5 | 4.30 | 6 | -- | 840 | -- | -- | -- | 19 | <15 | -- | -- |
| 9/10/2013 | 11.01 | 3.96 | NP | 7.05 | <50 | 340 | 52 | 1.90 | 6.40 | 4.5 | -- | 820 | -- | -- | -- | 17 | <15 | -- | -- | |
| 12/12/2013 | 11.01 | 4.00 | NP | 7.01 | <50 | 180 | 18 | <1.5 | 1.60 | <1.5 | -- | 940 | -- | -- | -- | 14 | <15 | -- | -- | |
| 3/4/2014 | 11.01 | 3.46 | NP | 7.55 | <50 | <200 | 19 | <2.0 | <2.0 | <2.0 | -- | 990 | -- | -- | -- | <9.0 | <20 | -- | -- | |
| 6/12/2014 | 11.01 | 3.96 | NP | 7.05 | <50 | 200 | 30 | 3.3 | 4.2 | 6.1 | -- | 920 | -- | -- | -- | 8.6 | <9.0 | -- | -- | |
| MW-12A | 7/6/2010 | 11.29 | 4.22 | NP | 7.07 | 89 | 664 | 18 | 0.78 | 2.30 | 50 | -- | 14 | <0.50 | <0.50 | <0.50 | 12 | <250 | <1.0 | <1.0 |
| | 9/20/2010 | 11.29 | 4.39 | NP | 6.90 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 8.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 11.29 | 4.00 | NP | 7.29 | 76 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 9.40 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/14/2011 | 11.29 | 3.81 | NP | 7.48 | 62 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- |
| | 6/2/2011 | 11.29 | 4.20 | NP | 7.09 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- |
| | 9/7/2011 | 11.29 | 4.42 | NP | 6.87 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 0.74 | -- | -- | -- | -- | <250 | -- | -- |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**



| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | |
|------------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|----------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|-------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-12A | 12/5/2011 | 11.29 | 4.30 | NP | 6.99 | <50.0 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/6/2012 | 11.29 | 4.32 | NP | 6.97 | 52.0 T4 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- |
| | 6/11/2012 | 11.29 | 4.36 | NP | 6.93 | <37.9 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | <0.50 | -- | -- | -- | <5.0 | <250 | -- | -- |
| | 9/6/2012 | 11.29 | 4.45 | NP | 6.84 | 300 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 |
| | 12/13/2012 | 11.29 | 3.80 | NP | 7.49 | 62 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 3/14/2013 | 11.29 | 4.36 | NP | 6.93 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 6/11/2013 | 11.29 | 4.53 | NP | 6.76 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 0.78 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 9/10/2013 | 11.29 | 4.40 | NP | 6.89 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 6.3 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 12/12/2013 | 11.29 | 4.35 | NP | 6.94 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| | 3/4/2014 | 11.29 | 3.73 | NP | 7.56 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- |
| 6/12/2014 | 11.29 | 4.37 | NP | 6.92 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | -- | -- | -- | <5.0 | <5.0 | -- | -- | |
| MW-13 | 7/6/2010 | 11.08 | 4.26 | NP | 6.82 | 469 | 122 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 217 | <0.50 | <0.50 | <0.50 | 199 | <250 | <1.0 | <1.0 |
| | 9/20/2010 | 11.08 | 4.81 | NP | 6.27 | <50.0 | 250 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 272 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/8/2010 | 11.08 | 5.02 | NP | 6.06 | 97.0 | 177 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 390 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/14/2011 | 11.08 | 4.32 | NP | 6.76 | 162 | 127 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 241 | -- | -- | -- | 125 | <250 | -- | -- |
| | 6/2/2011 | 11.08 | 3.98 | NP | 7.10 | 89.9 T4 | 260 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 228 | -- | -- | -- | 45 | <250 | -- | -- |
| | 9/7/2011 | 11.08 | 5.74 | NP | 5.34 | <50.0 | 167 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 207 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/5/2011 | 11.08 | 5.00 | NP | 6.08 | <50.0 | 166 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 215 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/6/2012 | 11.08 | 5.37 | NP | 5.71 | <50.0 | 63.9 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 110 | -- | -- | -- | 39 | <250 | -- | -- |
| | 6/11/2012 | 11.08 | 5.73 | NP | 5.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | -- | <37.9 | 118 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 220 | -- | -- | -- | 82 | <250 | -- | -- |
| | 9/6/2012 | 11.08 | 4.14 | NP | 6.94 | 87 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 140 | <0.50 | <0.50 | <0.50 | 10 | <5.0 | <0.50 | <0.50 |
| | 12/13/2012 | 11.08 | 3.80 | NP | 7.28 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 130 | -- | -- | -- | 14 | <5.0 | -- | -- |
| | 3/14/2013 | 11.08 | 4.20 | NP | 6.88 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 110 | -- | -- | -- | 24 | <5.0 | -- | -- |
| | 6/11/2013 | 11.08 | 4.10 | NP | 6.98 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 97 | -- | -- | -- | 31 | <5.0 | -- | -- |
| | 9/10/2013 | 11.08 | 4.20 | NP | 6.88 | <50 | <50 | <0.50 | <0.50 | <0.50 | 0.62 | -- | 64 | -- | -- | -- | 47 | <5.0 | -- | -- |
| 12/12/2013 | 11.08 | 4.05 | NP | 7.03 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 63 | -- | -- | -- | 43 | <5.0 | -- | -- | |
| 3/4/2014 | 11.08 | 3.51 | NP | 7.57 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 54 | -- | -- | -- | 30 | <5.0 | -- | -- | |
| 6/12/2014 | 11.08 | 4.08 | NP | 7.00 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 36 | -- | -- | -- | 43 | <5.0 | -- | -- | |
| MW-14 | 6/2/2011 | 12.00 | 3.58 | NP | 8.42 | 4,180 T4 | 51,600 | 2,750 | 67.9 | 1,790 | 13,400 | -- | 1.9 | -- | -- | -- | 27.2 | <250 | -- | -- |
| | 9/7/2011 | 12.00 | 3.02 | NP | 8.98 | 2,970 T4 | 42,600 | 1,050 | 28.1 | 2,990 | 7,300 | -- | <25.0 | -- | -- | -- | -- | <12500 | -- | -- |
| | 12/5/2011 | 12.00 | 4.05 | NP | 7.95 | 3,980 T4 | 14,000 | 709 | 9.1 | 1,420 | 2,530 | -- | 0.97 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/6/2012 | 12.00 | 3.94 | NP | 8.06 | 3,640 T4 | 16,600 | 959 | 15.0 | 2,330 | 3,830 | -- | <2.5 | -- | -- | -- | 28.1 | <1250 | -- | -- |
| | 6/11/2012 | 12.00 | 3.91 | NP | 8.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | -- | 4,580 | 15,700 | 1,200 | 14.0 | 1,580 | 3,010 | -- | 1.4 | -- | -- | -- | 23.3 | <250 | -- | -- |
| | 9/6/2012 | 12.00 | 3.35 | NP | 8.65 | <2000 | 12,000 | 210 | 9.1 | 1,100 | 1,800 | -- | <4.0 | <4.0 | <4.0 | <4.0 | <20 | <40 | <4.0 | <4.0 |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | 12.00 | 3.26 | NP | 8.74 | <50 | 10,000 | 72 | 5.8 | 610 | 780 | -- | <1.5 | -- | -- | -- | <7.0 | <15 | -- | -- |
| | 3/14/2013 | 12.00 | 4.16 | NP | 7.84 | <50 | 5,700 | 290 | 11 | 750 | 960 | -- | <1.5 | -- | -- | -- | 12 | <15 | -- | -- |
| | 6/11/2013 | 12.00 | 7.37 | NP | 7.37 | <50 | 6,900 | 630 | 5.3 | 480 | 680 | -- | <1.5 | -- | -- | -- | 24 | <15 | -- | -- |
| | 9/10/2013 | 12.00 | 4.88 | NP | 7.12 | 120 | 31,000 | 1,500 | 39 | 2,300 | 5,200 | -- | <1.5 | -- | -- | -- | 32 | <15 | -- | -- |
| 12/12/2013 | 12.00 | 4.35 | NP | 7.65 | <50 | 27,000 | 1,400 | 32 | 2,200 | 4,800 | -- | <9.0 | -- | -- | -- | <50 | <90 | -- | -- | |
| 3/4/2014 | 12.00 | 3.60 | NP | 8.40 | 250 | 40,000 | 1,600 | 41 | 2,900 | 6,700 | -- | <9.0 | -- | -- | -- | <50 | <90 | -- | -- | |
| 6/12/2014 | 12.00 | 4.51 | NP | 7.49 | 64 | 36,000 | 1,600 | 43 | 3,000 | 6,500 | -- | <9.0 | -- | -- | -- | <50 | <90 | -- | -- | |
| MW-15 | 6/2/2011 | 11.11 | 2.50 | NP | 8.61 | 124 T4 | 357 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 15 | -- | -- | -- | 6.4 | <250 | -- | -- |
| | 9/7/2011 | 11.11 | 2.54 | NP | 8.57 | <50.0 | 412 | 6.2 | <0.50 | 43 | <1.5 | -- | 128 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/5/2011 | 11.11 | 2.70 | NP | 8.41 | 50.5 T4 | 201 | 6.6 | <0.50 | 0.93 | <1.5 | -- | 142 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/6/2012 | 11.11 | 2.69 | NP | 8.42 | 56.2 T4 | <50.0 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 106 | -- | -- | -- | 101 | <250 | -- | -- |
| | 6/11/2012 | 11.11 | 2.84 | NP | 8.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | -- | <37.9 | 74.3 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 114 | -- | -- | -- | 91 | <250 | -- | -- |
| 9/6/2012 | 11.11 | 2.24 | NP | 8.87 | 64 | 59 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 76 | <0.50 | <0.50 | <0.50 | 45 | <5.0 | <0.50 | <0.50 | |

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

| Well I.D. | Date | GROUNDWATER GAUGING DATA | | | | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | |
|-----------|------------|--------------------------|---------------------|----------------------|-----------------------|-----------------------------|-----------------|----------------|----------------|---------------------|----------------------|-----------------------|-----------------------|-------------|-------------|-------------|------------|----------------|--------------------------------|---------------------------|
| | | TOC Elevation (ft) | Depth to Water (ft) | LNAPL Thickness (ft) | Water Elevation* (ft) | TPHd (ug/L) | TPHg (ug/L) | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | MTBE (SW8021B) (ug/L) | MTBE (SW8260B) (ug/L) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | Ethanol (ug/L) | 1,2-Dibromoethane (EDB) (ug/L) | 1,2-Dichloroethane (ug/L) |
| MW-15 | 12/13/2012 | 11.11 | 2.51 | NP | 8.60 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 33 | -- | -- | -- | 7.4 | <5.0 | -- | -- |
| | 3/14/2013 | 11.11 | 2.91 | NP | 8.20 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 46 | -- | -- | -- | 21 | <5.0 | -- | -- |
| | 6/11/2013 | 11.11 | 3.36 | NP | 7.75 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 73 | -- | -- | -- | 31 | <5.0 | -- | -- |
| | 9/10/2013 | 11.11 | 3.28 | NP | 7.83 | <50 | 68 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 120 | -- | -- | -- | 39 | <5.0 | -- | -- |
| | 12/12/2013 | 11.11 | 3.00 | NP | 8.11 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 130 | -- | -- | -- | 59 | <10 | -- | -- |
| | 3/4/2014 | 11.11 | 2.34 | NP | 8.77 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 96 | -- | -- | -- | 45 | <5.0 | -- | -- |
| 6/12/2014 | 11.11 | 3.15 | NP | 7.96 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 100 | -- | -- | -- | 31 | <5.0 | -- | -- | |
| MW-16 | 6/2/2011 | 10.98 | 3.00 | NP | 7.98 | 509 T4 | 1,420 1n | 79 | <0.50 | 4.2 | <1.5 | -- | 1,200 | -- | -- | -- | 257 | <250 | -- | -- |
| | 9/7/2011 | 10.98 | 2.65 | NP | 8.33 | 90.0 T4 | 934 | <0.50 | <0.50 | <0.50 | <1.5 | -- | 1,240 | -- | -- | -- | -- | <250 | -- | -- |
| | 12/5/2011 | 10.98 | 3.18 | NP | 7.80 | 196 T4 | 948 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 1,320 | -- | -- | -- | -- | <250 | -- | -- |
| | 3/6/2012 | 10.98 | 2.91 | NP | 8.07 | 204 T4 | 392 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 1,090 | -- | -- | -- | 134 | <250 | -- | -- |
| | 6/11/2012 | 10.98 | 3.04 | NP | 7.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | -- | 48.1 T4 | 430 1n | <0.50 | <0.50 | <0.50 | <1.5 | -- | 1,100 | -- | -- | -- | 374 | <250 | -- | -- |
| | 9/6/2012 | 10.98 | 2.61 | NP | 8.37 | 390 | <150 | <1.5 | <1.5 | <1.5 | <1.5 | -- | 960 | <1.5 | <1.5 | <1.5 | 70 | <15 | <1.5 | <1.5 |
| | 12/13/2012 | 10.98 | 2.50 | NP | 8.48 | 52 | <150 | <1.5 | <1.5 | <1.5 | <1.5 | -- | 980 | -- | -- | -- | 55 | <20 | -- | -- |
| | 3/14/2013 | 10.98 | 3.15 | NP | 7.83 | <50 | <200 | <2.0 | <2.0 | <2.0 | <2.0 | -- | 950 | -- | -- | -- | 67 | <20 | -- | -- |
| | 6/11/2013 | 10.98 | 3.19 | NP | 7.79 | <50 | <150 | <1.5 | <1.5 | <1.5 | <1.5 | -- | 820 | -- | -- | -- | 70 | <15 | -- | -- |
| | 9/10/2013 | 10.98 | 3.44 | NP | 7.54 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 240 | -- | -- | -- | 440 | <5.0 | -- | -- |
| | 12/12/2013 | 10.98 | 2.90 | NP | 8.08 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 62 | -- | -- | -- | 530 | <5.0 | -- | -- |
| 3/4/2014 | 10.98 | 3.25 | NP | 7.73 | <50 | 60 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 440 | -- | -- | -- | 400 | <5.0 | -- | -- | |
| 6/12/2014 | 10.98 | 3.67 | NP | 7.31 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 92 | -- | -- | -- | 440 | <5.0 | -- | -- | |
| MW-17 | 6/2/2011 | 11.52 | 5.78 | NP | 5.74 | 687 T4 | 9,130 | 2,530 | 960 | 35 | 907 | -- | 0.74 | -- | -- | -- | 366 | <250 | -- | -- |
| | 9/7/2011 | 11.52 | 4.56 | NP | 6.96 | 1,900 T4 | 47,200 | 9,620 | 5,510 | 1,210 | 4,510 | -- | <25.0 | -- | -- | -- | -- | <12500 | -- | -- |
| | 12/5/2011 | 11.52 | 4.70 | NP | 6.82 | 1,790 T4 | 17,300 | 4,720 | 511 | 238 | 747 | -- | <2.5 | -- | -- | -- | -- | <1250 | -- | -- |
| | 3/6/2012 | 11.52 | 4.64 | NP | 6.88 | 1,530 T4 | 1,580 | 2,090 | 24 | 39 | 166 | -- | 1.1 | -- | -- | -- | 481 | <250 | -- | -- |
| | 6/11/2012 | 11.52 | 4.67 | NP | 6.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | -- | 1,090 T4 | 4,950 | 2,340 | 123 | 153 | 610 | -- | <2.5 | -- | -- | -- | 411 | <1250 | -- | -- |
| | 9/6/2012 | 11.52 | 4.39 | NP | 7.13 | <1000 | 18,000 | 4,300 | 170 | 370 | 1,100 | -- | <10 | <10 | <10 | <10 | 300 | <100 | <10 | 110 |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | 11.52 | 4.20 | NP | 7.32 | <100 | 55,000 | 7,300 | 2,700 | 1,700 | 4,600 | -- | <10 | -- | -- | -- | 300 | <100 | -- | -- |
| | 3/14/2013 | 11.52 | 4.70 | NP | 6.82 | <200 | 63,000 | 13,000 | 5,400 | 3,100 | 8,800 | -- | <15 | -- | -- | -- | 260 | <150 | -- | -- |
| | 6/11/2013 | 11.52 | 4.83 | NP | 6.69 | 710 | 110,000 | 10,000 | 11,000 | 3,100 | 12,000 | -- | <25 | -- | -- | -- | <150 | <250 | -- | -- |
| | 9/10/2013 | 11.52 | 4.60 | NP | 6.92 | 160 | 36,000 | 8,200 | 510 | 1,200 | 2,400 | -- | <15 | -- | -- | -- | 320 | <150 | -- | -- |
| | 12/12/2013 | 11.52 | 5.00 | NP | 6.52 | <50 | 92,000 | 17,000 | 9,000 | 2,900 | 9,100 | -- | <15 | -- | -- | -- | 250 | <150 | -- | -- |
| 3/4/2014 | 11.52 | 3.99 | NP | 7.53 | 400 | 13,000 | 1,600 | 270 | 260 | 540 | -- | <3.0 | -- | -- | -- | 330 | 48 | -- | -- | |
| 6/12/2014 | 11.52 | 4.49 | NP | 7.03 | 87 | 17,000 | 3,600 | 410 | 650 | 1,100 | -- | <3.0 | -- | -- | -- | 300 | <30 | -- | -- | |

Gauging Notes:
TOS - Top of Screen
ft - Feet
NP - LNAPL not present
LNAPL - Light non-aqueous phase liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
-- - No information available

Analytical Notes:
< - Below laboratory's indicated reporting limit
ug/L - micrograms/liter
DRO- diesel range organics
TPHd- Total petroleum hydrocarbons as diesel
TPHg- Total petroleum hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
1n - The TPHg result for this sample did not match the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.
T4- Result reported for the hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

TABLE 3a
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | | | | | | | | | |
|-----------|------------|-----------------------------|--------------------------------|-------------------------------------|---------------------------------|--|-----------------|----------------|---------------|------------------|----------------------------------|----------------|----------------|-----------------|-------------------------------|-----------------|-----------------|-----------------------------|---------------|-----------------------------|---------------------|----|
| | | Acetone (ug/L) | Alkalinity, Bicarbonate (mg/L) | Alkalinity, Hydroxide (CaCO) (mg/L) | Alkalinity, Total A2320B (mg/L) | Alkalinity, Total as CaCO3 A2320B (mg/L) | Antimony (ug/L) | Arsenic (ug/L) | Barium (ug/L) | Beryllium (ug/L) | Biochemical Oxygen Demand (ug/L) | Bromate (mg/L) | Bromide (mg/L) | Cadmium S(ug/L) | Chemical Oxygen Demand (ug/L) | Chloride (ug/L) | Chromium (ug/L) | Chromium, Hexavalent (ug/L) | Cobalt (ug/L) | Coliform, Total (MPN/100ML) | E. Coli (MPN/100ML) | |
| MW-6 | 3/14/2011 | 18 | -- | -- | -- | -- | <60.0 | 23 | 216 | <5.0 | 32,200 | -- | -- | <5.0 | 173,000 | 204,000 | -- | -- | <50.0 | -- | -- | |
| | 6/2/2011 | <5.0 | 828 | <1 | 828 | <1 | <60.0 | 22.0 | 191 | <5.0 | 45,100 | <0.005 | 2 | <5.0 | 121,000 | 149,000 | 4 | <2 | <50.0 | 42,000 | <100 | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/12/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | 650 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <5.0 | <10 | -- | -- | -- | -- |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/4/2014 | -- | -- | -- | -- | -- | -- | 31 | -- | -- | -- | -- | -- | -- | <1.0 | -- | -- | <5.0 | -- | -- | -- | -- | |
| MW-9 | 3/14/2011 | <5.0 | -- | -- | -- | -- | <60.0 | <20.0 | <100 | <5.0 | 7,160.0 | -- | -- | <5.0 | 11,500.0 | 34,700.0 | -- | -- | <50.0 | -- | -- | |
| | 6/2/2011 | <5.0 | 226.0 | <1 | 226.0 | <1 | <60.0 | <20.0 | <100 | <5.0 | 4,170.0 | <0.005 | 2.0 | <5.0 | 15,100.0 | 32,400.0 | 2.4 | <0.2 | <50.0 | 2.0 | <1 | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-10 | 9/6/2012 | -- | -- | -- | -- | 561 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 | <10 | -- | -- | -- | |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-12 | 3/14/2011 | <5.0 | -- | -- | -- | -- | <60.0 | <20.0 | <100 | <5.0 | <2000 | -- | -- | <5.0 | 80,100 | 8,240,000 | -- | -- | <50.0 | -- | -- | |
| | 6/2/2011 | <5.0 | 905 | <1 | 905 | <1 | <60.0 | <20.0 | <100 | <5.0 | 7,240 | <0.05 | 33 | <5.0 | 191,000 | 7,260,000 | 3 | <2 | <50.0 | 210 | <1 | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/12/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/6/2012 | -- | -- | -- | -- | 806 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <5.0 | <10 | -- | -- | -- | |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/4/2014 | -- | -- | -- | -- | -- | -- | <15 | -- | -- | -- | -- | -- | 1.8 | -- | -- | <5.0 | -- | -- | -- | -- | | |
| MW-14 | 9/6/2012 | -- | -- | -- | -- | 1,720 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 | <10 | -- | -- | -- | |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-17 | 9/6/2012 | -- | -- | -- | -- | 2,820 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 38 | <10 | -- | -- | -- | |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Analytical Notes:
 < - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 MPN/100ML - most probable number per 100 ml
 ug/L - micrograms/liter
Bold - Above the laboratory's indicated reporting limit

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENERBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUND WATER ANALYTICAL DATA | | | | | | | | | | | | | | | | | | |
|------------|------------|------------------------------|-------------------------|----------------------|----------------------|---------------------|----------------------|-------------|------------------|----------------|----------------|-------------------|---------------|----------------------------|-------------------------------|---------------------|--------------------------|-------------------------------|---------------------------------|-----------------------|
| | | Copper (ug/L) | Inorganic Carbon (mg/L) | Iron SW6010 D (ug/L) | Iron SW6010 T (ug/L) | Iron, Ferric (ug/L) | Iron, Ferrous (ug/L) | Lead (ug/L) | Manganese (ug/L) | Mercury (ug/L) | Methane (ug/L) | Molybdenum (ug/L) | Nickel (ug/L) | Nitrate as N E300.0 (mg/L) | Nitrate as N E353/E351 (ug/L) | Nitrite as N (ug/L) | Nitrogen, Ammonia (mg/L) | Nitrogen, NO2 plus NO3 (ug/L) | Nitrogen, Total Kjeldahl (mg/L) | Oil and Grease (ug/L) |
| MW-3 | 12/17/2009 | -- | -- | -- | 12,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <50.0 | -- | <50.0 | -- | -- |
| | 3/29/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/30/2010 | -- | -- | 5,550 | 10,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 95.0 | -- | 76 | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | -- | 13,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10.0 | -- | 53 | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | 10,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10 | -- | <50.0 | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-6 | 9/17/2009 | -- | -- | -- | 1,500 | -- | -- | -- | -- | -- | -- | -- | -- | <0.00044 | <0.44 | -- | -- | -- | -- | -- |
| | 12/17/2009 | -- | -- | -- | 2,460 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <50.0 | -- | <50.0 | -- | -- |
| | 3/29/2010 | -- | -- | 1,790 | 1,510 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 41 | -- | 55 | -- | -- |
| | 6/30/2010 | -- | -- | 946 | 2,310 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 58 | -- | 69 | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | 2,730 | 2,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10.0 | -- | 52 | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | 4,900 | 3,900 | 1,000 | 27 | 1,270 | <0.20 | 474 | <20.0 | <40.0 | -- | 50 | <10.0 | -- | 54 | -- | -- |
| | 6/2/2011 | -- | 870 | -- | 4,320 | 2,520 | 1,800 | 23 | 1,510 | <0.20 | 445 | <20.0 | <40.0 | -- | <50.0 | <10.0 | 3 | 51 | 5 | 1,500 |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | 1,240 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10 | -- | <50.0 | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | 1,000 | -- | -- | -- | -- | 2,890 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.10 | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/4/2014 | <5.0 | -- | -- | 2,000 | -- | -- | 14 | -- | <0.5 | -- | -- | 17 | -- | -- | -- | -- | -- | -- | -- | |
| MW-7 | 6/30/2010 | -- | -- | 836 | 7,550 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 74 | -- | 74 | -- | -- | |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/2/2011 | -- | -- | -- | 7,800 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 233 | <10.0 | -- | 239 | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | 264 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 67 | -- | 111 | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-8 | 6/30/2010 | -- | -- | 4,710 | 8,000 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 68 | -- | 60 | -- | -- | |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/2/2011 | -- | -- | -- | 24,900 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 61 | <10.0 | -- | 61 | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | 21,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 48 | -- | <50.0 | -- | -- |
| 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 12/17/2009 | -- | -- | -- | 2,270 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <50.0 | -- | <50.0 | -- | -- | |
| | 3/29/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/30/2010 | -- | -- | 3,210 | 8,820 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 15 | -- | <50.0 | -- | -- | |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENERBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUND WATER ANALYTICAL DATA | | | | | | | | | | | | | | | | | | | | |
|------------|------------|------------------------------|-------------------------|----------------------|----------------------|---------------------|----------------------|-------------|------------------|----------------|----------------|-------------------|---------------|----------------------------|-------------------------------|---------------------|--------------------------|-------------------------------|---------------------------------|-----------------------|-----------------|----|
| | | Copper (ug/L) | Inorganic Carbon (mg/L) | Iron SW6010 D (ug/L) | Iron SW6010 T (ug/L) | Iron, Ferric (ug/L) | Iron, Ferrous (ug/L) | Lead (ug/L) | Manganese (ug/L) | Mercury (ug/L) | Methane (ug/L) | Molybdenum (ug/L) | Nickel (ug/L) | Nitrate as N E300.0 (mg/L) | Nitrate as N E353/E351 (ug/L) | Nitrite as N (ug/L) | Nitrogen, Ammonia (mg/L) | Nitrogen, NO2 plus NO3 (ug/L) | Nitrogen, Total Kjeldahl (mg/L) | Oil and Grease (ug/L) | Salinity (mg/L) | |
| MW-9 | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| | 3/14/2011 | -- | -- | -- | 1,560 | 157 | 1,400 | <10.0 | 148 | <0.20 | 419 | <20.0 | <40.0 | -- | <50.0 | <10.0 | -- | <50.0 | -- | -- | | |
| | 6/2/2011 | -- | 240 | -- | 1,260 | 1,060 | 200 | <10.0 | 92 | <0.20 | 673 | <20.0 | <40.0 | -- | <50.0 | <10.0 | 1 | <50.0 | 1 | -- | 405 | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | 731 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10 | -- | <50.0 | -- | -- | -- | |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-10 | 9/17/2009 | -- | -- | -- | 9,800 | -- | -- | -- | -- | -- | -- | -- | -- | 0 | 12 | -- | -- | -- | -- | -- | -- | |
| | 12/17/2009 | -- | -- | -- | 3,410 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,970 | 60 | -- | 2,030 | -- | -- | -- | |
| | 3/29/2010 | -- | -- | 365 | 2,410 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,960 | 19 | -- | 1,970 | -- | -- | -- | |
| | 6/30/2010 | -- | -- | 216 | 1,860 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2,120 | 68 | -- | 2,190 | -- | -- | -- | |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/20/2010 | -- | -- | 280 | 3,080 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2,690 | 68 | -- | 2,750 | -- | -- | -- | |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/14/2011 | -- | -- | -- | 2,620 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2,350 | -- | -- | -- | |
| | 6/2/2011 | -- | -- | -- | 9,870 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,290 | 49 | -- | 1,340 | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | 11,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,510 | 57 | -- | 1,570 | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | 11,000 | -- | -- | -- | -- | 467 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0 | -- | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-11 | 7/6/2010 | -- | -- | <100 | 3,510 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 31.0 | -- | 67 | -- | -- | -- | |
| | 9/20/2010 | -- | -- | <100 | 1,690 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 167 | <10.0 | -- | 172 | -- | -- | -- | |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/14/2011 | -- | -- | -- | 756 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | -- | -- | -- | |
| | 6/2/2011 | -- | -- | -- | 1,040 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 110 | <10.0 | -- | 115 | -- | -- | -- | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | 1,300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 89 | <10 | -- | 94 | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-12 | 7/6/2010 | -- | -- | <100 | 30,200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 61 | -- | <50.0 | -- | -- | -- | |
| | 9/20/2010 | -- | -- | 552 | 3,890 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 72 | <10.0 | -- | 75 | -- | -- | -- | |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/14/2011 | -- | -- | -- | 793 | 593 | 200 | <10.0 | 12,400 | <0.20 | 114 | <20.0 | 151 | -- | <50.0 | 61 | -- | 54 | -- | -- | -- | |
| | 6/2/2011 | -- | 1,100 | -- | 9,340 | 8,740 | 600 | <10.0 | 12,800 | <0.20 | 287 | <20.0 | 119 | -- | <50.0 | <10.0 | 0 | 58.0 | 1 | -- | 15,600 | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | 497 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10 | -- | <50.0 | -- | -- | -- | -- |
| 9/6/2012 | -- | -- | -- | -- | 190 | -- | -- | -- | -- | 64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/4/2014 | <5.0 | -- | -- | 680 | -- | -- | <5.0 | -- | <0.5 | -- | -- | 120 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-12A | 7/6/2010 | -- | -- | 716 | 57,300 | -- | -- | -- | -- | -- | -- | -- | -- | 3,680 | 164 | -- | 3,840 | -- | -- | -- | -- | |
| | 9/20/2010 | -- | -- | <100 | 523 | -- | -- | -- | -- | -- | -- | -- | -- | 4,680 | 10 | -- | 4,690 | -- | -- | -- | -- | |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/14/2011 | -- | -- | -- | 523 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4,790 | -- | -- | -- | |
| | 6/2/2011 | -- | -- | -- | 754 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4,710 | <10.0 | -- | 4,720 | -- | -- | -- | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | 859 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4,250 | <10 | -- | 4,260 | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

TABLE 3b
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/504
 449 HEGENERBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUND WATER ANALYTICAL DATA | | | | | | | | | | | | | | | | | | | |
|------------|------------|------------------------------|-------------------------|----------------------|----------------------|---------------------|----------------------|-------------|------------------|----------------|----------------|-------------------|---------------|----------------------------|-------------------------------|---------------------|--------------------------|-------------------------------|---------------------------------|-----------------------|-----------------|
| | | Copper (ug/L) | Inorganic Carbon (mg/L) | Iron SW6010 D (ug/L) | Iron SW6010 T (ug/L) | Iron, Ferric (ug/L) | Iron, Ferrous (ug/L) | Lead (ug/L) | Manganese (ug/L) | Mercury (ug/L) | Methane (ug/L) | Molybdenum (ug/L) | Nickel (ug/L) | Nitrate as N E300.0 (mg/L) | Nitrate as N E353/E351 (ug/L) | Nitrite as N (ug/L) | Nitrogen, Ammonia (mg/L) | Nitrogen, NO2 plus NO3 (ug/L) | Nitrogen, Total Kjeldahl (mg/L) | Oil and Grease (ug/L) | Salinity (mg/L) |
| MW-13 | 7/6/2010 | -- | -- | 116 | 92,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 65 | -- | 70 | -- | -- | -- |
| | 9/20/2010 | -- | -- | 279 | 59,500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10.0 | -- | <50.0 | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | 44,600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | -- | -- | -- |
| | 6/2/2011 | -- | -- | -- | 36,700 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 72 | 15 | -- | 86.0 | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | -- | 3,760 | -- | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 19 | -- | <50.0 | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-14 | 6/2/2011 | -- | -- | -- | 47,500 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 10 | -- | 50 | -- | -- | -- | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/12/2012 | -- | -- | -- | 1,150 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10 | -- | <50.0 | -- | -- | -- | |
| | 9/6/2012 | -- | -- | -- | -- | 8,900 | -- | -- | -- | 718 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.10 | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-15 | 6/2/2011 | -- | -- | -- | 11,700 | -- | -- | -- | -- | -- | -- | -- | -- | 890 | 38.0 | -- | 928 | -- | -- | -- | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/12/2012 | -- | -- | -- | 2,920 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10 | -- | <50.0 | -- | -- | -- | |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-16 | 6/2/2011 | -- | -- | -- | 34,200 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10.0 | -- | <50.0 | -- | -- | -- | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/12/2012 | -- | -- | -- | 1,730 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | <10 | -- | <50.0 | -- | -- | -- | |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-17 | 6/2/2011 | -- | -- | -- | 109,000 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 30 | -- | <50.0 | -- | -- | -- | |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/12/2012 | -- | -- | -- | 44,300 | -- | -- | -- | -- | -- | -- | -- | -- | <50.0 | 39 | -- | <50.0 | -- | -- | -- | |
| | 9/6/2012 | -- | -- | -- | -- | 21,000 | -- | -- | -- | 182 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <0.50 | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Analytical Notes:
 < - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 ug/L - micrograms/liter
 Bold - Above the laboratory's indicated reporting limit

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | |
|------------|------------|-----------------------------|---------------|---------------------|-----------------------|-----------------|-----------------------------|-----------------|-------------|
| | | Selenium (ug/L) | Silver (ug/L) | Sulfate E300 (ug/L) | Sulfate E300.1 (mg/L) | Thallium (ug/L) | Total Organic Carbon (mg/L) | Vanadium (ug/L) | Zinc (ug/L) |
| MW-3 | 12/17/2009 | -- | -- | -- | <0.5 | -- | -- | -- | -- |
| | 3/29/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/30/2010 | -- | -- | <5000 | -- | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | <5000 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | <2000 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6 | 9/17/2009 | -- | -- | <1.0 | <0.0010 | -- | -- | -- | -- |
| | 12/17/2009 | -- | -- | -- | <0.5 | -- | -- | -- | -- |
| | 3/29/2010 | -- | -- | <1000 | -- | -- | -- | -- | -- |
| | 6/30/2010 | -- | -- | <5000 | -- | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | <1000 | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | <10.0 | <10.0 | 35,400 | -- | <20.0 | -- | <50.0 | <40.0 |
| | 6/2/2011 | <10.0 | <10.0 | 38,900 | -- | <20.0 | 41 | <50.0 | <40.0 |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | 1,110 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/4/2014 | -- | <5.0 | -- | -- | -- | -- | -- | 36 | |
| MW-7 | 6/30/2010 | -- | -- | 191,000 | -- | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | 48,900 | -- | -- | -- | -- | -- |

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | |
|------------|------------|-----------------------------|---------------|---------------------|-----------------------|-----------------|-----------------------------|-----------------|-------------|
| | | Selenium (ug/L) | Silver (ug/L) | Sulfate E300 (ug/L) | Sulfate E300.1 (mg/L) | Thallium (ug/L) | Total Organic Carbon (mg/L) | Vanadium (ug/L) | Zinc (ug/L) |
| MW-7 | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | 56,900 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-8 | 6/30/2010 | -- | -- | 2,360,000 | -- | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | 2,830,000 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | 2,570,000 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-9 | 12/17/2009 | -- | -- | -- | 11 | -- | -- | -- | -- |
| | 3/29/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/30/2010 | -- | -- | 19,000 | -- | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | <10.0 | <10.0 | 8,980 | -- | <20.0 | -- | <50.0 | <40.0 |
| | 6/2/2011 | <10.0 | <10.0 | 18,600 | -- | <20.0 | 5 | <50.0 | <40.0 |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | 42,500 | -- | -- | -- | -- | -- |
| 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-10 | 9/17/2009 | -- | -- | 84 | 0 | -- | -- | -- | -- |
| | 12/17/2009 | -- | -- | -- | 86 | -- | -- | -- | -- |
| | 3/29/2010 | -- | -- | 73,600 | -- | -- | -- | -- | -- |
| | 6/30/2010 | -- | -- | 70,800 | -- | -- | -- | -- | -- |
| | 7/6/2010 | -- | -- | -- | -- | -- | -- | -- | -- |

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | |
|-----------|------------|-----------------------------|---------------|---------------------|-----------------------|-----------------|-----------------------------|-----------------|-------------|
| | | Selenium (ug/L) | Silver (ug/L) | Sulfate E300 (ug/L) | Sulfate E300.1 (mg/L) | Thallium (ug/L) | Total Organic Carbon (mg/L) | Vanadium (ug/L) | Zinc (ug/L) |
| MW-10 | 9/20/2010 | -- | -- | 82,000 | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | 68,600 | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | 71,700 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | 70,100 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-11 | 7/6/2010 | -- | -- | 82,100 | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | 58,300 | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | 59,900 | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | 62,900 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | 79,400 | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-12 | 7/6/2010 | -- | -- | 3,030,000 | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | 1,970,000 | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | <10.0 | <10.0 | 2,500,000 | -- | <20.0 | -- | <50.0 | <40.0 |
| | 6/2/2011 | <10.0 | <10.0 | 2,330,000 | -- | <20.0 | 9 | <50.0 | <40.0 |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | 2,130,000 | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/4/2014 | -- | <5.0 | -- | -- | -- | -- | -- | 46 | |
| MW-12A | 7/6/2010 | -- | -- | 100,000 | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | 82,500 | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | |
|------------|------------|-----------------------------|---------------|---------------------|-----------------------|-----------------|-----------------------------|-----------------|-------------|
| | | Selenium (ug/L) | Silver (ug/L) | Sulfate E300 (ug/L) | Sulfate E300.1 (mg/L) | Thallium (ug/L) | Total Organic Carbon (mg/L) | Vanadium (ug/L) | Zinc (ug/L) |
| MW-12A | 3/14/2011 | -- | -- | 81,000 | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | 101,000 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | 118,000 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-13 | 7/6/2010 | -- | -- | 450,000 | -- | -- | -- | -- | -- |
| | 9/20/2010 | -- | -- | 241,000 | -- | -- | -- | -- | -- |
| | 12/8/2010 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/14/2011 | -- | -- | 375,000 | -- | -- | -- | -- | -- |
| | 6/2/2011 | -- | -- | 188,000 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | 131,000 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-14 | 6/2/2011 | -- | -- | 56,300 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | 439,000 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-15 | 6/2/2011 | -- | -- | 62,700 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | 42,100 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | |

TABLE 3c
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5041
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | |
|------------|------------|-----------------------------|---------------|---------------------|-----------------------|-----------------|-----------------------------|-----------------|-------------|
| | | Selenium (ug/L) | Silver (ug/L) | Sulfate E300 (ug/L) | Sulfate E300.1 (mg/L) | Thallium (ug/L) | Total Organic Carbon (mg/L) | Vanadium (ug/L) | Zinc (ug/L) |
| MW-16 | 6/2/2011 | -- | -- | 8,740 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | 19,900 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-17 | 6/2/2011 | -- | -- | 3,920,000 | -- | -- | -- | -- | -- |
| | 9/7/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/5/2011 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/12/2012 | -- | -- | 2,520,000 | -- | -- | -- | -- | -- |
| | 9/6/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/11/2012 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/13/2012 | -- | -- | -- | -- | -- | -- | -- | -- | |

Analytical Notes:

< - Below laboratory's indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms/liter

Bold - Above the laboratory's indicated reporting limit

TABLE 3d
 ADDITIONAL HISTORICAL GROUNDWATER ANALYTICAL DATA
 76 STATION NO. 5191/5043
 449 HEGENBERGER ROAD
 OAKLAND, CALIFORNIA



| Well I.D. | Date | GROUNDWATER ANALYTICAL DATA | | | | | | | | | | | | |
|-----------|----------|-------------------------------|-------------------------------|--------------------------|--------------------|-----------------|-------------------|-----------------------|------------------------|---------------------------|-------------------------|---------------------------|-------------------------|-----------------------|
| | | 1,2,4-Trimethylbenzene (ug/L) | 1,3,5-Trimethylbenzene (ug/L) | Isopropyl Benzene (ug/L) | Naphthalene (ug/L) | O-Xylene (ug/L) | P,M-Xylene (ug/L) | n-Butylbenzene (ug/L) | n-Propylbenzene (ug/L) | p-Isopropyltoluene (ug/L) | sec-Butylbenzene (ug/L) | HEM:Oil and Grease (mg/L) | Phenolics, Total (mg/L) | Cyanide, Total (mg/L) |
| MW-6 | 3/4/2014 | 3,000 | 860 | 200 | 990 | 300 | 1,400 | 100 | 530 | 22 | 53 | 1.6 | <0.1 | <0.02 |
| MW-12 | 3/4/2014 | 3.7 | 11 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 1.9 | 0.1 | <0.02 |

Analytical Notes:

< - Below laboratory's indicated reporting limit
 mg/L - milligrams per liter
 MPN/100ML - most probable number per 100 ml
 ug/L - micrograms/liter
Bold - Above the laboratory's indicated reporting limit

TABLE 4
Historical Groundwater Gradient and Flow Direction Data
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California

| Site | Monitoring Date | Groundwater Gradient (feet per foot) | Groundwater Flow Direction | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|---|----------------------------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|----------|----------|
| | | | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | |
| | 03/06/12 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/11/12 | 0.050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/06/12 | Variable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12/13/12 | 0.020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 03/14/13 | 0.050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/11/13 | 0.001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 09/10/13 | 0.014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12/12/13 | 0.018 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 03/04/14 | 0.010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 06/12/14 | 0.020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0.024 Average | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 34 | 1 | 15 | 0 | 20 | 2 | 3 | 0 | 0 | 0 |
| Explanation | | | | | | | | | | | | | | | | | | | |
| NA = Not available | | | | | | | | | | | | | | | | | | | |
| Number of Events = 67 | | | | | | | | | | | | | | | | | | | |

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Oakland, CA
Antea Group Project No. I42705191



Appendix A

Previous Investigation and Site History Summary

PREVIOUS INVESTIGATION AND SITE HISTORY SUMMARY

October 1991 - Four soil samples were collected from the product pipe trenches at depths of approximately 3 feet below ground surface (bgs) during a dispenser island modification. The product pipe trenches were subsequently excavated to the groundwater depth at 4 to 4.5 feet bgs.

February 1992 - Three monitoring wells, MW-1 through MW-3, were installed at the site to depths ranging from 13.5 to 15 feet bgs.

August 1992 - Three additional monitoring wells, MW-4 through MW-6, were installed at the site to a depth of 13.5 feet bgs.

September 1994 - One 280-gallon waste-oil UST was removed from the site. The UST was made of steel, and no apparent holes or cracks were observed in the UST. One soil sample was collected from beneath the former UST at a depth of approximately 9 feet bgs. No petroleum hydrocarbons were reported.

January 1995 - Two additional monitoring wells, MW-9 and MW-10, were installed to depths of 13 and 15 feet bgs. In addition, monitoring wells MW-4 and MW-5 were destroyed by over-drilling the wells and backfilling with neat cement.

March 1995 - Two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST were removed from the site. Groundwater was encountered in the tank cavity at a depth of approximately 8.5 feet bgs. Soil samples contained total petroleum hydrocarbons as diesel (TPHd) and benzene, and TPH as gasoline (TPHg). Approximately 125,000 gallons of groundwater were pumped from the site for remediation and properly disposed off-site. Four fuel dispenser islands and associated product piping were also removed. Based on the results of the confirmation samples, the product dispenser islands were over excavated to approximately 6 feet bgs.

March-April 1995 - During demolition activities of the former station building, soil samples were collected from two excavations, which were subsequently over excavated. Confirmation samples contained petroleum hydrocarbons. An additional area on the south side of the former station building was excavated based on photo-ionization detector (PID) readings. Two monitoring wells, MW-1 and MW-2, were destroyed in order to allow for over excavation activities to extend to an area adjacent to the dispenser islands in the southeastern quadrant of the site. The excavated areas were subsequently backfilled with clean-engineered fill.

April 1997 - Two additional monitoring wells, MW-7 and MW-8, were installed off-site to the south and east on the neighboring property to a depth of 13 feet bgs. In addition, monitoring well MW-3, which was damaged during site renovation activities, was fully drilled out and reconstructed in the same borehole.

October 2003 - Site environmental consulting responsibilities were transferred to TRC.

April 8-9, 2005 - TRC conducted a 24-hour dual phase extraction (DPE) test at the site using monitoring well MW-6. The 24-hour DPE test was only moderately successful at removing vapor-phase petroleum hydrocarbons from the subsurface; therefore, TRC recommended DPE no longer be considered a viable remedial alternative for the site.

October 2007 - Site environmental consulting responsibilities were transferred to Delta Consultants.

December 2009 - Delta advanced two borings, B-4 and B-5, to depths of 20 feet bgs and 32 feet bgs, respectively. Analytical results from the soil and groundwater samples collected from these two borings indicated that the soil and the groundwater were impacted by petroleum hydrocarbons at these locations.

June 2010 – Delta installed two 4-inch diameter monitoring/extraction wells, MW-11 and MW-12, and two 2-inch diameter monitoring wells, MW-12A and MW-13, at the site. Analytical results from the soil and groundwater samples collected from the MW-12 and MW-12A boring locations indicated that the soil and the groundwater were impacted by petroleum hydrocarbons at these locations.

May 2011 – Antea Group (formally Delta Consultants) installed four 2-inch diameter monitoring wells, MW-14 through MW-17, and advanced one soil boring, B-6, at the site. All four monitoring wells were installed with ten feet of screen from 3 feet bgs to 13 feet bgs. Analytical results of soil samples collected during the monitoring well installation reported TPHg concentrations ranging from 1.0 milligrams per kilogram (mg/kg) (MW-14d13) to 2,490 mg/kg (B-6d9), benzene concentrations ranging from 0.67 mg/kg (B-6d21) to 26.4 mg/kg (B-6d9), toluene concentrations ranging from 0.2 mg/kg (MW-14d10) to 73.9 mg/kg (B-6d9), ethylbenzene concentrations ranging from 0.037 mg/kg (MW-14d13) to 58.1 mg/kg (B-6d9), total xylenes concentrations ranging from 0.066 mg/kg (MW-14d13) to 230 mg/kg (B-6d9), methyl tertiary-butyl ether (MTBE) concentrations ranging from 0.015 mg/kg (MW-15d13) to 0.19 mg/kg (MW-15d8), tertiary-butyl alcohol (TBA) concentrations ranging from 0.014 mg/kg (MW-16d8 and B-6d21) to 0.16 mg/kg (MW-15d8), and lead concentrations ranging from 5.5 mg/kg (MW-16d13) to 16.3 mg/kg (MW-17d9). Diesel range organics (DRO) and DRO with silica gel concentrations were reported; however, all of the results did not match the laboratory standard for diesel. Concentrations of DRO ranged from 2.9 mg/kg (MW-17d13) to 258 mg/kg (B-6d14) and DRO with silica gel concentrations ranged from 2.5 mg/kg (MW-17d13) to 250 mg/kg (B-6d14).

March 2012 – Antea Group advanced five soil borings (HPB-1 through HPB-5) at the site. The borings were advanced using direct push technology. The borings were used to obtain a hydraulic profile of the substrate beneath the site. The data obtained during the investigation will be used to determine the best path forward in terms of remediation.

July 2013 – Antea Group advanced ten soil borings (SB-1 through SB-10) at the site. The borings were advanced using direct push technology. The borings were used to delineate petroleum hydrocarbon impacted soil around

monitoring well MW-6. Results of the investigation can be found in the *Site Investigation Report*, dated January 9, 2014.

SENSITIVE RECEPTORS

April 24, 2006, TRC completed a sensitive receptor survey for the site. According to the Department of Water Resources (DWR) records, three water supply wells are located within one-half mile of the site. The closest well is an irrigation well, reported to be, approximately 1,080 feet southeast of the site. In addition, two surface water bodies were observed within a one-half mile radius of the site. San Leandro Creek is located approximately 1,400 feet southwest of the site and flows into the San Leandro Bay. Elmhurst Creek is located approximately 2,220 feet north of the site and also flows into the San Leandro Bay.

Current Consultant: **Antea Group**

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Appendix B

Blaine Tech Services Groundwater Sampling Procedures

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for DELTA comply with safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40 hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any DELTA COP/ELT site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic sounders which are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of Immiscibles or sheen and when free product is suspected, it is confirmed using an electronic interface probe (e.g. MMC). No samples are collected from a well containing free product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well. Small volumes of purgewater are often removed by hand bailing with a disposable bailer.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less

than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not recharge.

Wells known to dewater are evacuated as early as possible during each site visit in order to allow for the greatest amount of recovering. Any well that does not recharge to 80% of its original volume will be sampled prior to the departure of our personnel from the site in order to eliminate the need of a return visit.

In jurisdictions where a certain percentage of recovery is included in the local completion standard, our personnel follow the regulatory expectation.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous manifest to a Blaine Tech Services, Inc. facility before being transported to an approved disposal facility.

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory which will analyze the samples. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

Upon request, a Trip Blank is carried to each site and is kept inside the cooler for the duration of the sampling event. It is turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Upon request, one Duplicate sample is collected at each site. It is up to the Field Technician to choose the well at which the Duplicate is collected. Typically, a duplicate is collected from one of the most contaminated wells. The Duplicate sample is labeled DUP thus rendering the sample blind.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the analytical laboratory that will perform the intended analytical procedures. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

Each and every sample container has a label affixed to it. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time at which the sample was collected and the initials of the person collecting the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer which is then operated with high quality deionized water which is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps

and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, sounder etc.) that cannot be washed using the hot high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

EXAMPLE: The sounder is cleaned between wells using the non-phosphate soap and deionized water solution followed by deionized water rinses. The sounder is then washed with the steam cleaner between sites or as necessitated by use in a particularly contaminated well.

DISSOLVED OXYGEN READINGS

All Dissolved Oxygen readings are taken using YSI meters (e.g. YSI Model 550 meter). These meters are equipped with membrane probe that enables them to collect accurate in-situ readings.

The probe and reel is decontaminated between wells as described above. The meter is calibrated as per the instructions in the operating manual. The probe is lowered into the water column allowed to stabilize before use.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual. In use the probe is placed in a cup of freshly obtained monitoring well water and allowed to stabilize.

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Appendix C

Blaine Tech Services Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 2705191 Site Address: 449 Hegenberger Rd. Oakland, CA

Field Technician: Mark McCulloch Blaine Tech Services Date: 6-12-14 Weather: clear
(Print Full Name & Company*)

| Well Condition | | | | | | | | | | | | | | |
|----------------|-------------|-------|------|------------|------|---------------|-------------------|------------------|-------------|-----------------------|------------------------|-----------------------|------------------------|------------------------------------|
| Sample Order | Field Point | Bolts | Seal | Lid Secure | Lock | Expanding Cap | Water in Well Box | Well Casing Dia. | Time Gauged | Depth to Water (Feet) | Depth to Bottom (Feet) | Depth to LNAPL (Feet) | LNAPL Thickness (Feet) | Comments |
| 5 | MW-3 | G | G | G | G | G | Yes | 2 | 0811 | 3.23 | 13.90 | | | 1/2 tabs stripped |
| 12 | MW-6 | G | G | G | G | G | N | 2 | 0858 | 3.79 | 12.61 | | | |
| 2 | MW-7 | G | G | G | G | G | N | 2 | 0757 | 5.76 | 12.99 | | | |
| 1 | MW-8 | G | G | G | G | G | N | 2 | 0750 | 3.24 | 14.70 | | | |
| 4 | MW-9 | G | G | G | G | G | Yes | 2 | 0805 | 2.39 | 12.60 | | | 2/3 bolts missing, 1/3 tabs broken |
| 7 | MW-10 | G | G | G | G | G | N | 2 | 0824 | 3.92 | 12.64 | | | |
| 6 | MW-11 | G | G | G | G | G | N | 4 | 0819 | 2.51 | 19.52 | | | 2/2 tabs stripped |
| 11 | MW-12 | G | G | G | G | G | N | 4 | 0849 | 3.96 | 19.40 | | | |
| 3 | MW-12A | G | G | G | G | G | N | 2 | 0807 | 4.37 | 32.67 | | | |
| 8 | MW-13 | G | G | G | G | G | N | 2 | 0829 | 4.08 | 14.54 | | | |
| 13 | MW-14 | G | G | G | G | G | N | 2 | 0906 | 4.51 | 12.75 | | | |
| 9 | MW-15 | G | G | G | G | G | N | 2 | 0836 | 3.15 | 12.69 | | | |
| 10 | MW-16 | G | G | G | G | G | N | 2 | 0842 | 3.67 | 12.62 | | | |
| 14 | MW-17 | G | G | G | G | G | N | 2 | 0914 | 4.49 | 12.60 | | | |

Notes: _____

**** All well caps opened at least 15 minutes or longer before gauging wells:
 CIRCLE ONE YES or NO****



*Form provided by Antea Group

Note: Use G=good and P=poor for well condition

Groundwater Sampling Form

| | |
|--|---|
| Site Address: <u>449 Hegenberger Rd. Oakland, CA</u> | |
| Project No: <u>2705194</u> | Field Technician: <u>Mark McCulloch</u> |
| Field Point: <u>MW-3</u> | Date: <u>6-12-14</u> |
| Depth to Water (DTW) (ft bgs): <u>3.23</u> | Well Diameter (in): <u>② 4 6 8</u> |
| Depth to LNAPL (ft bgs): | Thickness of LNAPL (ft): |
| Total Depth of Well (ft bgs): <u>13.90</u> | Water Column Height (ft): <u>10.67</u> |

Purging Info and Calculations:

| | | |
|--|--|--|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>10.67</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.8</u> Casing Volume (gal): <u>1.8</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.4</u> | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

| Purge: _____ | | Start Time: <u>1033</u> | | Stop Time: <u>1040</u> | | | | |
|-------------------|-------------|-------------------------|----------------------|------------------------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | | | | | |
| <u>1035</u> | <u>20.8</u> | <u>6.76</u> | <u>5086</u> | <u>-114</u> | <u>19</u> | <u>1.08</u> | <u>0.9</u> | |
| <u>1036</u> | <u>20.6</u> | <u>6.69</u> | <u>3379</u> | <u>-117</u> | <u>34</u> | <u>0.53</u> | <u>1.8</u> | |
| <u>1037</u> | <u>21.5</u> | <u>6.65</u> | <u>3293</u> | <u>-121</u> | <u>35</u> | <u>0.57</u> | <u>2.7</u> | |
| <u>1038</u> | <u>23.6</u> | <u>6.60</u> | <u>3386</u> | <u>-125</u> | <u>34</u> | <u>0.47</u> | <u>3.6</u> | |
| <u>1039</u> | <u>23.4</u> | <u>6.62</u> | <u>3372</u> | <u>-131</u> | <u>32</u> | <u>0.43</u> | <u>4.5</u> | |
| <u>1040</u> | <u>23.1</u> | <u>6.62</u> | <u>3410</u> | <u>-133</u> | <u>31</u> | <u>0.42</u> | <u>5.4</u> | |
| Post-Purge | | | | | | | | |

| | |
|---|--------------------------------------|
| Did Well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/> | Total Purge volume (gal): <u>5.5</u> |
| Other Comments: <u>80% = 5.36</u> <u>DTW: 8.11 (2 HR)</u> | <u>Purged through flow cell</u> |

| | |
|-----------------------------------|---|
| Sample Info: | |
| Sample ID: <u>MW-3-20140630</u> | Sample Date and Time: <u>6-12-14 @ 1414</u> |
| Selected Analysis: <u>see LOC</u> | |

This form was provided by Antea Group and completed by: (Print Full Name) Mark McCulloch, an employee of Blaine Tech Services, Inc.

Signature: _____ Date: 6-12-14

Groundwater Sampling Form

| | |
|--|---------------------------------------|
| Site Address: <u>449 Hegenberger Rd. Oakland, CA</u> | |
| Project No: <u>2705191</u> | Field Technician: <u>William Wong</u> |
| Field Point: <u>MW-6</u> | Date: <u>6-12-14</u> |
| Depth to Water (DTW) (ft bgs): <u>3.79</u> | Well Diameter (in): <u>② 4 6 8</u> |
| Depth to LNAPL (ft bgs): | Thickness of LNAPL (ft): |
| Total Depth of Well (ft bgs): <u>12.61</u> | Water Column Height (ft): <u>8.82</u> |

Purging Info and Calculations:

| | | |
|--|---|--|
| Purge Method: <u>Low-Flow</u> <u>Casing volumes</u> Other: _____ | Purge Equipment: <u>Disposable Bailer</u> <u>Electric Submersible</u> <u>2" red flow</u> Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: <u>Disposable Bailer</u> Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>8.82</u> | X Conversion Factor (gal/ft): <u>0.17</u> | = Casing Volume (gal): <u>1.5</u> |
| Casing Volume (gal): <u>1.5</u> | X Specified Volumes: <u>3</u> | = Calculated Purge (gal): <u>4.5</u> |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: Start Time: 1309 Stop Time: 1312

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|--------------------------------|-------------|-------------|----------------------|---------------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | | | | | |
| <u>1309</u> | <u>23.3</u> | <u>7.22</u> | <u>2584</u> | <u>-125.3</u> | <u>18</u> | <u>2.66</u> | <u>0.8</u> | |
| <u>1310</u> | <u>22.8</u> | <u>7.14</u> | <u>2940</u> | <u>-128.6</u> | <u>26</u> | <u>2.71</u> | <u>1.5</u> | |
| <u>1311</u> | <u>22.3</u> | <u>7.06</u> | <u>3295</u> | <u>-130.7</u> | <u>36</u> | <u>2.76</u> | <u>2.2</u> | |
| <u>1312</u> | <u>21.7</u> | <u>6.99</u> | <u>3650</u> | <u>-132.1</u> | <u>46</u> | <u>2.81</u> | <u>3</u> | |
| <u>WELL DEWATERED @ 3 GALS</u> | | | | | | | | |
| <u>1450</u> | <u>22.3</u> | <u>7.90</u> | <u>4268</u> | <u>-96.2</u> | <u>30</u> | <u>2.61</u> | <u>—</u> | |
| Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 3

Other Comments: 80% : 7.32 Purged through flowcell
DTW: 7.14

Sample Info:

| | |
|-----------------------------------|---|
| Sample ID: <u>MW-6-20140630</u> | Sample Date and Time: <u>6/12/14 / 1450</u> |
| Selected Analysis: <u>SEE SOW</u> | |

This form was provided by Antea Group and completed by: (Print Full Name) William Wong, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/12/14

Groundwater Sampling Form

| | | | |
|--------------------------------|----------------------------|---------------------------|----------------|
| Site Address: | 449 Hegeberger Oakland, CA | | |
| Project No: | 2705191 | Field Technician: | Mark McCulloch |
| Field Point: | MW-7 | Date: | 6-12-14 |
| Depth to Water (DTW) (ft bgs): | 5.76 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | | Thickness of LNAPL (ft): | |
| Total Depth of Well (ft bgs): | 12.99 | Water Column Height (ft): | 7.23 |

Purging Info and Calculations:

| | | |
|--|--|--|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailor w/ BGD Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>7.23</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.2</u> Casing Volume (gal): <u>3.6</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>10.8</u> | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

| | | |
|--------|-------------------------|------------------------|
| Purge: | Start Time: <u>0935</u> | Stop Time: <u>0939</u> |
|--------|-------------------------|------------------------|

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|---------------------------|-----------|------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | | | | | |
| 0936 | 20.0 | 6.85 | 14086 | -132 | 46 | 0.53 | 0.6 | |
| 0937 | 19.1 | 6.76 | 14139 | -127 | 44 | 0.94 | 1.2 | |
| 0938 | 19.6 | 6.94 | 9324 | -106 | 42 | 0.62 | 1.8 | |
| 0939 | 21.2 | 6.87 | 2959 | -35 | 40 | 0.86 | 2.4 | |
| WELL DEWATERED AT 2.5 GAL | | | | | | | | |
| 1353 | 22.0 | 6.95 | 6121 | -104 | 52 | 2.71 | GRAB | |
| Post-Purge | | | | | | | | |

| | |
|---|--|
| Did Well dewater? <input checked="" type="radio"/> Yes <input type="radio"/> No | Total Purge volume (gal): <u>2.5</u> |
| Other Comments: | 80% = 7.20 DTW: 9.16 (2 HR) Purged through flow cell |

| | |
|----------------------------|--------------------------------------|
| Sample Info: | |
| Sample ID: MW-7-20140630 | Sample Date and Time: 6-12-14 @ 1353 |
| Selected Analysis: see coc | |

This form was provided by Antea Group and completed by: (Print Full Name) Mark McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids gal = gallon/s
 bgs = below ground surface temp = temperature
 ORP = Oxidation-Reduction Potential NTU = Nephelometric Turbidity Units
 D.O. = dissolved oxygen mV = millivolts

Groundwater Sampling Form

| | | | |
|--------------------------------|-----------------------------|---------------------------|----------------|
| Site Address: | 449 Hevenberger Oakland, CA | | |
| Project No: | 2705194 | Field Technician: | Mark McCulloch |
| Field Point: | MW-8 | Date: | 6-12-14 |
| Depth to Water (DTW) (ft bgs): | 3.24 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | | Thickness of LNAPL (ft): | |
| Total Depth of Well (ft bgs): | 14.70 | Water Column Height (ft): | 11.46 |

Purging Info and Calculations:

| | | |
|--|--|--|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>11.46</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.9</u> Casing Volume (gal): <u>1.9</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.7</u> | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: Start Time: 0921 Stop Time: 0928

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-----------|------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | | | | | |
| 0923 | 17.0 | 7.06 | 1346 | -48 | 470 | 3.77 | 1 | |
| 0924 | 17.9 | 6.49 | 13528 | -118 | 42 | 4.12 | 2 | |
| 0925 | 19.6 | 6.52 | 12916 | -126 | 22 | 3.36 | 3 | |
| 0926 | 22.0 | 6.50 | 12716 | -127 | 20 | 2.04 | 4 | |
| 0927 | 22.3 | 6.53 | 13395 | -141 | 18 | 1.12 | 5 | |
| 0928 | 22.4 | 6.55 | 13420 | -143 | 16 | 1.08 | 6 | |
| Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 6

Other Comments: 80% = 5.53 Purged through flow cell
DTW 3.50

Sample Info:

| | |
|----------------------------|--------------------------------------|
| Sample ID: MW-8-20140630 | Sample Date and Time: 6-12-14 @ 1340 |
| Selected Analysis: see coc | |

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Signature: [Signature] Date: 6-12-14

Groundwater Sampling Form

| | | | |
|--------------------------------|---------------------------------|---------------------------|----------------|
| Site Address: | 449 Hegenberger Rd. Oakland, CA | | |
| Project No: | 27051941 | Field Technician: | Mark McColluch |
| Field Point: | MW-9 | Date: | 6-12-14 |
| Depth to Water (DTW) (ft bgs): | 2.39 | Well Diameter (in): | ② 4 6 8 |
| Depth to LNAPL (ft bgs): | | Thickness of LNAPL (ft): | |
| Total Depth of Well (ft bgs): | 12.60 | Water Column Height (ft): | 10.21 |

Purging Info and Calculations:

| | | |
|--|--|--|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailor w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
|--|--|--|

Water Column Height (ft): 10.21 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.7
 Casing Volume (gal): 1.7 X Specified Volumes: 3 = Calculated Purge (gal): 5.1

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

| Purge: | Start Time: <u>10/11</u> | Stop Time: <u>10/17</u> | | | | | | |
|-------------------|---------------------------|-------------------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | | | | | |
| 1012 | 19.1 | 6.89 | 3217 | 1.7 | 17 | 0.44 | 0.85 | |
| 1013 | 18.9 | 6.70 | 5716 | -110 | 150 | 1.63 | 1.70 | |
| 1014 | 20.6 | 6.79 | 2311 | -121 | 37 | 0.88 | 2.50 | |
| 1015 | 22.1 | 6.75 | 1274 | -126 | 23 | 0.54 | 3.40 | |
| 1016 | 23.0 | 6.70 | 1517 | -128 | 20 | 0.56 | 4.25 | |
| 1017 | 23.1 | 6.71 | 1489 | -129 | 18 | 0.54 | 5.10 | |
| | WELL DEWATERED AT 5.5 GAL | | | | | | | |
| 1405 | 21.8 | 7.13 | 1877 | -107 | 29 | 3.49 | GRAB | |
| Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 5.5

Other Comments: 80% 4.43 Purged through flow cell
DTW: 8.91 (2 HR)

| | |
|----------------------------|--------------------------------------|
| Sample Info: | |
| Sample ID: MW-9-2040630 | Sample Date and Time: 6-12-14 @ 1405 |
| Selected Analysis: See COC | |

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Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids gal = gallon/s
 bgs = below ground surface temp = temperature
 ORP = Oxidation-Reduction Potential NTU = Nephelometric Turbidity Units
 D.O. = dissolved oxygen mV = millivolts

Groundwater Sampling Form

| | |
|---|---|
| Site Address: <u>4149 Hegenberger Rd. Oakland, CA</u> | |
| Project No: <u>2705194</u> | Field Technician: <u>Mark McColloch</u> |
| Field Point: <u>MW-10</u> | Date: <u>6-12-14</u> |
| Depth to Water (DTW) (ft bgs): <u>3.92</u> | Well Diameter (in): <u>② 4 6 8</u> |
| Depth to LNAPL (ft bgs): | Thickness of LNAPL (ft): |
| Total Depth of Well (ft bgs): <u>12.64</u> | Water Column Height (ft): <u>8.72</u> |

Purging Info and Calculations:

| | | |
|---|--|--|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailor w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>8.72</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.5</u> Casing Volume (gal): <u>1.5</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>4.5</u> | | |

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

| Purge: _____ | | Start Time: <u>1118</u> | | Stop Time: <u>1124</u> | | | | |
|-------------------|-------------|-------------------------|----------------------|------------------------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | | | | | |
| <u>1119</u> | <u>20.9</u> | <u>7.21</u> | <u>1210</u> | <u>-83</u> | <u>29</u> | <u>0.18</u> | <u>0.75</u> | |
| <u>1120</u> | <u>20.4</u> | <u>7.20</u> | <u>1181</u> | <u>-87</u> | <u>23</u> | <u>1.94</u> | <u>1.5</u> | |
| <u>1121</u> | <u>20.4</u> | <u>6.92</u> | <u>2977</u> | <u>-67</u> | <u>20</u> | <u>0.30</u> | <u>2.25</u> | |
| <u>1122</u> | <u>20.8</u> | <u>6.89</u> | <u>2815</u> | <u>-70</u> | <u>17</u> | <u>0.30</u> | <u>3.0</u> | |
| <u>1123</u> | <u>20.8</u> | <u>6.89</u> | <u>2579</u> | <u>-76</u> | <u>17</u> | <u>0.29</u> | <u>3.75</u> | |
| <u>1124</u> | <u>20.8</u> | <u>6.89</u> | <u>2381</u> | <u>-80</u> | <u>16</u> | <u>0.29</u> | <u>4.5</u> | |
| Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 4.5

Other Comments: 80% = 5.66 Purged through flow cell
DTW: 4.31

Sample Info:

| | |
|-----------------------------------|---|
| Sample ID: <u>MW-10-20140630</u> | Sample Date and Time: <u>6-12-14 @ 1126</u> |
| Selected Analysis: <u>see coc</u> | |

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14

Groundwater Sampling Form

| | | | |
|--------------------------------|--------------------------------|---------------------------|----------------|
| Site Address: | 449 Hegenberger Rd Oakland, CA | | |
| Project No: | 27051911 | Field Technician: | Mark McColloch |
| Field Point: | MW-11 | Date: | 6-12-14 |
| Depth to Water (DTW) (ft bgs): | 2.51 | Well Diameter (in): | 2 <u>4</u> 6 8 |
| Depth to LNAPL (ft bgs): | | Thickness of LNAPL (ft): | |
| Total Depth of Well (ft bgs): | 19.52 | Water Column Height (ft): | 17.01 |

Purging Info and Calculations:

| | | |
|---|--|--|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailor w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>17.01</u> X Conversion Factor (gal/ft): <u>0.66</u> = Casing Volume (gal): <u>11.2</u> Casing Volume (gal): <u>11.2</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>33.6</u> | | |

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

| Purge: | Start Time: | | | | | | | Stop Time: | | | |
|-------------------|-------------|------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|--|--|--|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) | | | |
| Pre-Purge | | | | | | | | | | | |
| 1053 | 20.3 | 7.27 | 1209 | -114 | 36 | 0.25 | 5.6 | | | | |
| 1055 | 21.0 | 7.25 | 1212 | -104 | 23 | 0.18 | 11.2 | | | | |
| 1057 | 21.2 | 7.24 | 1225 | -100 | 12 | 0.17 | 16.8 | | | | |
| 1100 | 21.2 | 7.25 | 1219 | -97 | 8 | 0.16 | 22.4 | | | | |
| 1102 | 21.3 | 7.25 | 1219 | -92 | 6 | 0.16 | 28.0 | | | | |
| 1105 | 21.3 | 7.25 | 1221 | -90 | 5 | 0.15 | 33.6 | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Post-Purge | | | | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 34

Other Comments: 80% = 5.91 DTW: 4.09 Purged through flow cell

| | |
|----------------------------|--------------------------------------|
| Sample Info: | |
| Sample ID: MW-11-20140630 | Sample Date and Time: 6-12-14 @ 1108 |
| Selected Analysis: see coc | |

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

| | | | |
|--------------------------------|---------------------------------|---------------------------|--------------------|
| Site Address: | 449 Hegenberger Rd. Oakland, CA | | |
| Project No: | 2705191 ✓ | Field Technician: | Mark McColloch |
| Field Point: | MW-12 | Date: | 6-12-14 |
| Depth to Water (DTW) (ft bgs): | 3.96 | Well Diameter (in): | 2 4 6 8 |
| Depth to LNAPL (ft bgs): | | Thickness of LNAPL (ft): | |
| Total Depth of Well (ft bgs): | 19.40 | Water Column Height (ft): | 15.44 |

Purging Info and Calculations:

| | | |
|---|--|---|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>15.44</u> X Conversion Factor (gal/ft): <u>0.66</u> = Casing Volume (gal): <u>10.2</u> Casing Volume (gal): <u>10.2</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>30.6</u> | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

| Purge: | Start Time: <u>1254</u> | Stop Time: _____ | | | | | | |
|-------------------|-------------------------|---|-------------------------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | | | | | |
| 1257 | 19.5 | 6.32 | 24069 | -79 | 11 | 0.19 | 5.1 | |
| 1300 | 19.4 | 6.35 | 23524 | -95 | 7 | 0.17 | 10.2 | |
| 1302 | 19.7 | 6.53 | 21410 | -128 | 7 | 0.14 | 15.3 | |
| 1305 | 19.9 | 6.54 | 22032 | -125 | 7 | 0.13 | 20.4 | |
| 1307 | 19.8 | 6.47 | 22741 | -119 | 7 | 0.12 | 25.5 | |
| 1310 | 19.8 | 6.46 | 22878 | -114 | 7 | 0.12 | 30.6 | |
| Post-Purge | | | | | | | | |
| Did Well dewater? | | Yes <input type="radio"/> No <input checked="" type="radio"/> | Total Purge volume (gal): <u>31</u> | | | | | |

| | |
|------------------------|--|
| Other Comments: | 80% = 7.04 DTW: 4.81 Purged through flow cell color |
|------------------------|--|

| | |
|----------------------------|--------------------------------------|
| Sample Info: | |
| Sample ID: MW-12-20140630 | Sample Date and Time: 6-12-14 @ 1445 |
| Selected Analysis: SCE COC | |

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Signature: [Signature] Date: 6-12-14

Antea™ Group, 1-800-477-7411

LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

| | |
|---|---|
| Site Address: <u>449 Hegenberger Oakland CA</u> | |
| Project No: <u>2705191</u> | Field Technician: <u>Mark McColloch</u> |
| Field Point: <u>MW-12A</u> | Date: <u>6-12-14</u> |
| Depth to Water (DTW) (ft bgs): <u>4.37</u> | Well Diameter (in): <u>2</u> 4 6 8 |
| Depth to LNAPL (ft bgs): | Thickness of LNAPL (ft): |
| Total Depth of Well (ft bgs): <u>32.67</u> | Water Column Height (ft): <u>28.30</u> |

Purging Info and Calculations:

| | | |
|---|--|---|
| Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>28.30</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>4.8</u> Casing Volume (gal): <u>4.8</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>14.4</u> Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: Start Time: 0948 Stop Time: _____

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-------------|-------------|----------------------|------------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | | | | | |
| <u>0949</u> | <u>19.6</u> | <u>6.72</u> | <u>2565</u> | <u>-5</u> | <u>>1000</u> | <u>1.59</u> | <u>2.4</u> | |
| <u>0951</u> | <u>19.4</u> | <u>6.72</u> | <u>3301</u> | <u>-10</u> | <u>808</u> | <u>0.28</u> | <u>4.8</u> | |
| <u>0954</u> | <u>19.4</u> | <u>6.74</u> | <u>3309</u> | <u>-16</u> | <u>175</u> | <u>0.22</u> | <u>7.2</u> | |
| <u>0956</u> | <u>19.4</u> | <u>6.75</u> | <u>3262</u> | <u>-19</u> | <u>42</u> | <u>0.20</u> | <u>9.6</u> | |
| <u>0958</u> | <u>19.4</u> | <u>6.76</u> | <u>3234</u> | <u>-20</u> | <u>33</u> | <u>0.19</u> | <u>12</u> | |
| <u>1000</u> | <u>19.4</u> | <u>6.76</u> | <u>3224</u> | <u>-21</u> | <u>31</u> | <u>0.19</u> | <u>14.4</u> | |
| | | | | | | | | |
| | | | | | | | | |
| Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 14.5

Other Comments: 80% 10.03 Purged through flow cell
DTW 4.53

Sample Info:

| | |
|-----------------------------------|---|
| Sample ID: <u>MW-12A-20140630</u> | Sample Date and Time: <u>6-12-14 @ 1002</u> |
| Selected Analysis: <u>see coc</u> | |

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

| | |
|--|---|
| Site Address: <u>449 Hegenberger Rd. Oakland, CA</u> | |
| Project No: <u>2705191</u> | Field Technician: <u>Mark McColloch</u> |
| Field Point: <u>MW-13</u> | Date: <u>6-12-14</u> |
| Depth to Water (DTW) (ft bgs): <u>4.08</u> | Well Diameter (in): <u>4 6 8</u> |
| Depth to LNAPL (ft bgs): | Thickness of LNAPL (ft): |
| Total Depth of Well (ft bgs): <u>14.54</u> | Water Column Height (ft): <u>10.46</u> |

Purging Info and Calculations:

| | | |
|--|--|---|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailor Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>10.46</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.8</u> Casing Volume (gal): <u>1.8</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.4</u> | | |

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

| Purge: _____ | | Start Time: <u>1140</u> | | Stop Time: <u>1148</u> | | | | | |
|-------------------|-------------|-------------------------|----------------------|------------------------|-----------------|-------------|---------------------|---------------------------------|--|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) | |
| Pre-Purge | | | | | | | | | |
| <u>1141</u> | <u>20.7</u> | <u>6.90</u> | <u>2097</u> | <u>-85</u> | <u>8</u> | <u>0.33</u> | <u>0.9</u> | | |
| <u>1142</u> | <u>20.2</u> | <u>6.91</u> | <u>1943</u> | <u>-83</u> | <u>6</u> | <u>0.40</u> | <u>1.8</u> | | |
| <u>1143</u> | <u>20.0</u> | <u>7.37</u> | <u>2909</u> | <u>-158</u> | <u>405</u> | <u>6.53</u> | <u>2.7</u> | | |
| <u>1144</u> | <u>20.8</u> | <u>7.43</u> | <u>2751</u> | <u>-156</u> | <u>189</u> | <u>6.24</u> | <u>3.6</u> | | |
| <u>1145</u> | <u>20.8</u> | <u>7.42</u> | <u>2907</u> | <u>-160</u> | <u>67</u> | <u>0.21</u> | <u>4.5</u> | | |
| <u>1146</u> | <u>20.6</u> | <u>7.40</u> | <u>3125</u> | <u>-161</u> | <u>49</u> | <u>0.20</u> | <u>5.4</u> | | |
| <u>1147</u> | <u>20.5</u> | <u>7.39</u> | <u>3347</u> | <u>-163</u> | <u>46</u> | <u>0.19</u> | <u>6.3</u> | | |
| <u>1148</u> | <u>20.4</u> | <u>7.36</u> | <u>3462</u> | <u>-162</u> | <u>44</u> | <u>0.19</u> | <u>7.2</u> | | |
| Post-Purge | | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 7.2

Other Comments: 80% = 6.17 Purged through flow cell
DTW = 6.01

| | |
|-----------------------------------|---|
| Sample Info: | |
| Sample ID: <u>MW-13-20140630</u> | Sample Date and Time: <u>6-12-14 1159</u> |
| Selected Analysis: <u>see COC</u> | |

This form was provided by Antea Group and completed by: (Print Full Name) Mark McColloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen
 gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

| | |
|---|---------------------------------------|
| Site Address: <u>499 MELVENBERGER RD, OAKLAND, CA</u> | |
| Project No: <u>2705191</u> | Field Technician: <u>WILLIAM WONG</u> |
| Field Point: <u>MW-14</u> | Date: <u>6/12/14</u> |
| Depth to Water (DTW) (ft bgs): <u>4.51</u> | Well Diameter (in): <u>② 4 6 8</u> |
| Depth to LNAPL (ft bgs): | Thickness of LNAPL (ft): |
| Total Depth of Well (ft bgs): <u>12.75</u> | Water Column Height (ft): <u>8.24</u> |

Purging Info and Calculations:

| | | |
|--|--|--|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible <u>2" radius</u> Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>8.24</u> | X Conversion Factor (gal/ft): <u>0.17</u> | = Casing Volume (gal): <u>1.4</u> |
| Casing Volume (gal): <u>1.4</u> | X Specified Volumes: <u>3</u> | = Calculated Purge (gal): <u>4.2</u> |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

Purge: _____ Start Time: 1323 Stop Time: 1528

| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-------------------------|-------------|----------------------|---------------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | | | | | |
| <u>1324</u> | <u>20.0</u> | <u>7.19</u> | <u>11907</u> | <u>-166.3</u> | <u>32</u> | <u>4.62</u> | <u>0.7</u> | |
| <u>1325</u> | <u>19.8</u> | <u>7.19</u> | <u>12712</u> | <u>-166.5</u> | <u>27</u> | <u>4.10</u> | <u>1.4</u> | |
| <u>1326</u> | <u>19.6</u> | <u>7.18</u> | <u>13517</u> | <u>-166.7</u> | <u>22</u> | <u>3.68</u> | <u>2.1</u> | |
| <u>1327</u> | <u>19.3</u> | <u>7.17</u> | <u>14322</u> | <u>-166.8</u> | <u>20</u> | <u>3.36</u> | <u>2.8</u> | |
| <u>1328</u> | <u>18.9</u> | <u>7.17</u> | <u>15933</u> | <u>-166.9</u> | <u>18</u> | <u>1.98</u> | <u>3.5</u> | |
| | <u>WELL DEWATERED @</u> | | | | | | <u>4.06 GALS</u> | |
| <u>1330</u> | <u>17.5</u> | <u>7.44</u> | <u>13587</u> | <u>-112.2</u> | <u>20</u> | <u>2.54</u> | | |
| Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 4

Other Comments: BO%: 6.16 DTW: 7.43 (2HR) Purged thru flowcell FD-1-20140630 @ 1535

Sample Info:

| | |
|-----------------------------------|---|
| Sample ID: <u>MW-14-20140630</u> | Sample Date and Time: <u>6/12/14 / 1530</u> |
| Selected Analysis: <u>SEE SOW</u> | |

This form was provided by Antea Group and completed by: (Print Full Name) WILLIAM WONG, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/12/14

Groundwater Sampling Form

| | | | |
|--------------------------------|---------------------------------|---------------------------|----------------|
| Site Address: | 449 Hegenberger Rd. Oakland, CA | | |
| Project No: | 2705191V | Field Technician: | Mack McCulloch |
| Field Point: | MW-15 | Date: | 6-12-14 |
| Depth to Water (DTW) (ft bgs): | 3.15 | Well Diameter (in): | ② 4 6 8 — |
| Depth to LNAPL (ft bgs): | | Thickness of LNAPL (ft): | |
| Total Depth of Well (ft bgs): | 12.69 | Water Column Height (ft): | 9.54 |

Purging Info and Calculations:

| | | |
|---|--|---|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailer Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>9.54</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.6</u> Casing Volume (gal): <u>1.6</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>4.8</u> | | |
| Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163 | | |

| Purge: | Start Time: <u>12:05</u> | Stop Time: _____ | | | | | | |
|-------------------|--------------------------|------------------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
| Pre-Purge | | | | | | | | |
| 1206 | 20.1 | 7.29 | 4115 | -138 | 23 | 0.27 | 0.8 | |
| 1207 | 19.9 | 7.28 | 4230 | -133 | 123 | 0.84 | 1.6 | |
| 1208 | 20.4 | 6.91 | 4819 | -111 | 28 | 0.65 | 2.4 | |
| 1209 | 20.7 | 6.70 | 2337 | -105 | 22 | 0.62 | 3.2 | |
| 1210 | 21.3 | 6.52 | 1966 | -109 | 23 | 0.52 | 4.0 | |
| 1211 | 21.5 | 6.48 | 2681 | -113 | 25 | 0.47 | 4.8 | |
| 1212 | 21.4 | 6.50 | 2873 | -115 | 27 | 0.43 | 5.6 | |
| 1213 | 21.3 | 6.51 | 3035 | -116 | 28 | 0.39 | 6.4 | |
| Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 6.5

Other Comments: 80% 5.05 DTW: 9.82 (2MP) Purged through flow cell

Sample Info:

| | |
|----------------------------|--------------------------------------|
| Sample ID: MW-15-20140630 | Sample Date and Time: 6-12-14 / 1415 |
| Selected Analysis: see ecc | |

This form was provided by Antea Group and completed by: (Print Full Name) Mack McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids
 bgs = below ground surface
 ORP = Oxidation-Reduction Potential
 D.O. = dissolved oxygen

gal = gallon/s
 temp = temperature
 NTU = Nephelometric Turbidity Units
 mV = millivolts

Groundwater Sampling Form

| | |
|--|---|
| Site Address: <u>449 Hegenberger Rd. Oakland, CA</u> | |
| Project No: <u>2705191</u> | Field Technician: <u>Mark McCulloch</u> |
| Field Point: <u>MW-16</u> | Date: <u>6-12-14</u> |
| Depth to Water (DTW) (ft bgs): <u>3.67</u> | Well Diameter (in): <u>② 4 6 8</u> |
| Depth to LNAPL (ft bgs): | Thickness of LNAPL (ft): |
| Total Depth of Well (ft bgs): <u>12.62</u> | Water Column Height (ft): <u>8.95</u> |

Purging Info and Calculations:

| | | |
|---|--|---|
| Purge Method: Low-Flow 3 casing volumes Other: _____ | Purge Equipment: Disposable Bailor Electric Submersible Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailor Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>8.95</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.5</u> Casing Volume (gal): <u>1.5</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>4.5</u> | | |

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

| Purge: | Start Time: | Stop Time: | Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|--------|-------------|------------|------------|-----------|------|----------------------|----------|-----------------|-------------|---------------------|---------------------------------|
| | <u>1228</u> | | Pre-Purge | | | | | | | | |
| | | | 1228 | 20.9 | 6.74 | 4605 | -114 | 49 | 0.40 | 0.75 | |
| | | | 1229 | 21.0 | 6.78 | 6162 | -118 | 29 | 0.32 | 1.5 | |
| | | | 1230 | 21.9 | 7.00 | 3609 | -120 | 144 | 0.98 | 2.25 | |
| | | | 1231 | 22.4 | 6.90 | 3008 | -111 | 41 | 0.78 | 3.00 | |
| | | | 1232 | 23.7 | 6.82 | 2965 | -103 | 32 | 0.64 | 3.75 | |
| | | | 1233 | 24.0 | 6.81 | 2979 | -105 | 30 | 0.59 | 4.50 | |
| | | | Post-Purge | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 4.5

Other Comments: 80% = 5.46 Purged through flow cell
DTW: 5.53 (2 HR)

Sample Info:

| | |
|-----------------------------------|---|
| Sample ID: <u>MW-16-20140630</u> | Sample Date and Time: <u>6-12-14 / 1435</u> |
| Selected Analysis: <u>see cor</u> | |

This form was provided by Antea Group and completed by: (Print Full Name) Mark McCulloch, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6-12-14



LNAPL = light non-aqueous phase liquids gal = gallon/s
 bgs = below ground surface temp = temperature
 ORP = Oxidation-Reduction Potential NTU = Nephelometric Turbidity Units
 D.O. = dissolved oxygen mV = millivolts

Groundwater Sampling Form

| | |
|--|---------------------------------------|
| Site Address: <u>449 HILLEN BERGER RD, OAKLAND, CA</u> | |
| Project No: <u>2105191</u> | Field Technician: <u>William Wong</u> |
| Field Point: <u>MW-17</u> | Date: <u>6/12/14</u> |
| Depth to Water (DTW) (ft bgs): <u>4.49</u> | Well Diameter (in): <u>② 4 6 8</u> |
| Depth to LNAPL (ft bgs): | Thickness of LNAPL (ft): |
| Total Depth of Well (ft bgs): <u>12.60</u> | Water Column Height (ft): <u>8.11</u> |

Purging Info and Calculations:

| | | |
|---|--|---|
| Purge Method: Low-Flow casing volumes Other: _____ | Purge Equipment: Disposable Bailor Electric Submersible <u>2" red. flo.</u> Peristaltic Pump Bladder Pump Other: _____ | Sample Collection Method: Disposable Bailor Extraction Port Dedicated Tubing Disposable Tubing Other: _____ |
| Water Column Height (ft): <u>8.11</u> | X Conversion Factor (gal/ft): <u>0.17</u> | = Casing Volume (gal): <u>1.4</u> |
| Casing Volume (gal): <u>1.4</u> | X Specified Volumes: <u>3</u> | = Calculated Purge (gal): <u>4.2</u> |

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

| Purge: | Start Time: <u>1342</u> | Stop Time: <u>1347</u> | Time | Temp (°C) | pH | Conductivity (µS/cm) | ORP (mV) | Turbidity (NTU) | D.O. (mg/L) | Volume Purged (gal) | Water Level (for Low-Flow only) |
|-------------------|-------------------------|------------------------|-------------|-------------|-------------|----------------------|---------------|-----------------|-------------|---------------------|---------------------------------|
| Pre-Purge | | | | | | | | | | | |
| | | | <u>1342</u> | <u>21.1</u> | <u>8.19</u> | <u>35359</u> | <u>-130.6</u> | <u>25</u> | <u>2.93</u> | <u>0.7</u> | |
| | | | <u>1343</u> | <u>20.7</u> | <u>7.89</u> | <u>35372</u> | <u>-132.8</u> | <u>26</u> | <u>2.85</u> | <u>1.4</u> | |
| | | | <u>1344</u> | <u>20.4</u> | <u>7.59</u> | <u>35385</u> | <u>-134.9</u> | <u>26</u> | <u>2.78</u> | <u>2.1</u> | |
| | | | <u>1345</u> | <u>20.2</u> | <u>7.29</u> | <u>35504</u> | <u>-137.0</u> | <u>26</u> | <u>2.70</u> | <u>2.8</u> | |
| | | | <u>1346</u> | <u>20.0</u> | <u>6.77</u> | <u>35623</u> | <u>-139.2</u> | <u>36</u> | <u>2.60</u> | <u>3.5</u> | |
| | | | <u>1347</u> | <u>19.6</u> | <u>6.67</u> | <u>35633</u> | <u>-141.8</u> | <u>40</u> | <u>2.50</u> | <u>4.2</u> | |
| Post-Purge | | | | | | | | | | | |

Did Well dewater? Yes No Total Purge volume (gal): 4.2

Other Comments: 80% of 6.11 purged thru flocc
DTW: 9.24 (2 HR)

Sample Info:

| | |
|-----------------------------------|---|
| Sample ID: <u>MW-17-20140630</u> | Sample Date and Time: <u>6/12/14 @ 1550</u> |
| Selected Analysis: <u>SEE SOW</u> | |

This form was provided by Antea Group and completed by: (Print Full Name) WILLIAM WONG, an employee of Blaine Tech Services, Inc.

Signature: [Signature] Date: 6/12/14

Quarterly Summary Report, Second Quarter 2014
76 Station No. 5191/5043
Oakland, CA
Antea Group Project No. I42705191



Appendix D

Certified Laboratory Analytical Report and Data Validation Form

Is the Data Set Valid?

(circle)

Yes / No

Preservation Temperature

(if Known): -0.8 °C

Antea™ Group Laboratory Data Validation Sheet

Project/Client: 76 Station No. S191 / COP-ELT

Project #: I42705191

Date of Validation: 6/23/14 **Date of Analysis:** 6/17/14 - 6/20/14

Sample Date: 6/12/14 **Completed By:** ETW

Signature: [Signature]

Circle
or
Highlight

Yes / No

(below)

Analytical Lab Used and Report # (if any): Kiff # 88422

1. Were the analyses the ones requested?
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
5. Were Laboratory blanks performed, if so, were they non-detect?
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m³, etc.)
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approximately 80-120%, depending on the analyte)?
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
11. Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

If any answer is no, explain why and what corrective action was taken (use additional sheet(s), as necessary:

MRL for Ethanol has been increased due to the presence of an interfering component for sample MW-10.20140630.



Laboratory Results

Dennis Dettloff
Antea Group
11050 White Rock Rd. Suite 110
Rancho Cordova, CA 95670

Subject : 16 Water Samples
Project Name : 2705191
Project Number :

Dear Mr. Dettloff,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Subject : 16 Water Samples
Project Name : 2705191
Project Number :

Case Narrative

The Method Reporting Limit for Ethanol has been increased due to the presence of an interfering compound for sample MW-10_20140630.

At the time of receipt by the laboratory, the temperature of the sample was -0.8 degrees C.



Analysis Summary

Report Number : 88422

Date : 06/20/14

Attention : Dennis Dettloff
 Antea Group
 11050 White Rock Rd. Suite 110
 Rancho Cordova, CA 95670

Project Name :2705191

Project Number :

| Sample Name | | | MW-10_20140630 | MW-11_20140630 | MW-12_20140630 | MW-12A_2014063 | MW-13_20140630 | MW-14_20140630 | MW-15_20140630 | | | | | | | |
|------------------------------|------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|------|-----------|-----|--------------|------|------------|
| Sample Date | | | 06/12/14 | | 06/12/14 | | 06/12/14 | | 06/12/14 | | | | | | | |
| Analyte | Method | Units | MRL | Results | MRL | Results | MRL | Results | MRL | Results | MRL | Results | MRL | Results | | |
| Benzene | EPA 8260B | ug/L | 0.50 | 4.4 | 0.50 | ND | 0.90 | 30 | 0.50 | ND | 0.50 | ND | 9.0 | 1600 | 0.50 | ND |
| Ethylbenzene | EPA 8260B | ug/L | 0.50 | ND | 0.50 | ND | 0.90 | 4.2 | 0.50 | ND | 0.50 | ND | 9.0 | 3000 | 0.50 | ND |
| Toluene | EPA 8260B | ug/L | 0.50 | ND | 0.50 | ND | 0.90 | 3.3 | 0.50 | ND | 0.50 | ND | 9.0 | 43 | 0.50 | ND |
| Total Xylenes | EPA 8260B | ug/L | 0.50 | 0.91 | 0.50 | ND | 0.90 | 6.1 | 0.50 | ND | 0.50 | ND | 9.0 | 6500 | 0.50 | ND |
| Ethanol | EPA 8260B | ug/L | 8.0 | ND | 5.0 | ND | 9.0 | ND | 5.0 | ND | 5.0 | ND | 90 | ND | 5.0 | ND |
| Methyl-t-butyl ether (MTBE) | EPA 8260B | ug/L | 0.50 | ND | 0.50 | 3.7 | 2.0 | 920 | 0.50 | ND | 0.50 | 36 | 9.0 | ND | 0.50 | 100 |
| Tert-Butanol | EPA 8260B | ug/L | 5.0 | ND | 5.0 | ND | 5.0 | 8.6 | 5.0 | ND | 5.0 | 43 | 50 | ND | 5.0 | 31 |
| TPH as Gasoline | EPA 8260B | ug/L | 50 | ND | 50 | ND | 90 | 200 | 50 | ND | 50 | ND | 900 | 36000 | 50 | ND |
| 1,2-Dichloroethane-d4 (Surr) | EPA 8260B | % | | 99.7 | | 97.1 | | 99.9 | | 103 | | 99.9 | | 103 | | 104 |
| Toluene - d8 (Surr) | EPA 8260B | % | | 99.7 | | 99.5 | | 100 | | 98.8 | | 99.8 | | 99.4 | | 100 |
| TPH as Diesel (Silica Gel) | M EPA 8015 | ug/L | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 | ND | 50 | 64 | 50 | ND |
| Octacosane (Silica Gel Surr) | M EPA 8015 | % | | 106 | | 108 | | 113 | | 113 | | 118 | | 114 | | 116 |

MRL = Method Reporting Limit

ND = Not Detected



Analysis Summary

Report Number : 88422

Date : 06/20/14

Attention : Dennis Dettloff
 Antea Group
 11050 White Rock Rd. Suite 110
 Rancho Cordova, CA 95670

Project Name :2705191

Project Number :

| Sample Name | | | MW-16_20140630 | | MW-17_20140630 | | MW-3_20140630 | | MW-6_20140630 | | TB1_20140630 | | MW-7_20140630 | | MW-8_20140630 | |
|------------------------------|------------|-------|----------------|------------|----------------|--------------|---------------|------------|---------------|--------------|--------------|---------|---------------|---------|---------------|---------|
| Sample Date | | | 06/12/14 | | 06/12/14 | | 06/12/14 | | 06/12/14 | | 06/12/14 | | 06/12/14 | | 06/12/14 | |
| Analyte | Method | Units | MRL | Results | MRL | Results | MRL | Results | MRL | Results | MRL | Results | MRL | Results | MRL | Results |
| Benzene | EPA 8260B | ug/L | 0.50 | ND | 5.0 | 3600 | 0.50 | ND | 5.0 | 390 | 0.50 | ND | 0.50 | ND | 0.50 | ND |
| Ethylbenzene | EPA 8260B | ug/L | 0.50 | ND | 3.0 | 650 | 0.50 | ND | 5.0 | 690 | 0.50 | ND | 0.50 | ND | 0.50 | ND |
| Toluene | EPA 8260B | ug/L | 0.50 | ND | 3.0 | 410 | 0.50 | ND | 5.0 | 17 | 0.50 | ND | 0.50 | ND | 0.50 | ND |
| Total Xylenes | EPA 8260B | ug/L | 0.50 | ND | 3.0 | 1100 | 0.50 | ND | 5.0 | 1600 | 0.50 | ND | 0.50 | ND | 0.50 | ND |
| Ethanol | EPA 8260B | ug/L | 5.0 | ND | 30 | ND | 5.0 | ND | 50 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND |
| Methyl-t-butyl ether (MTBE) | EPA 8260B | ug/L | 0.50 | 92 | 3.0 | ND | 0.50 | 28 | 5.0 | 12 | 0.50 | ND | 0.50 | ND | 0.50 | ND |
| Tert-Butanol | EPA 8260B | ug/L | 5.0 | 440 | 15 | 300 | 5.0 | 74 | 25 | 180 | 5.0 | ND | 5.0 | ND | 5.0 | ND |
| TPH as Gasoline | EPA 8260B | ug/L | 50 | ND | 300 | 17000 | 50 | 310 | 500 | 35000 | 50 | ND | 50 | ND | 50 | ND |
| 1,2-Dichloroethane-d4 (Surr) | EPA 8260B | % | | 102 | | 103 | | 100 | | 101 | | 99.8 | | 102 | | 99.3 |
| Toluene - d8 (Surr) | EPA 8260B | % | | 99.9 | | 99.1 | | 99.6 | | 103 | | 99.5 | | 103 | | 99.7 |
| TPH as Diesel (Silica Gel) | M EPA 8015 | ug/L | 50 | ND | 50 | 87 | 50 | ND | 50 | 570 | 50 | ND | 50 | ND | 50 | ND |
| Octacosane (Silica Gel Surr) | M EPA 8015 | % | | 109 | | 113 | | 103 | | 116 | | 125 | | 127 | | 114 |

MRL = Method Reporting Limit

ND = Not Detected



Analysis Summary

Report Number : 88422

Date : 06/20/14

Attention : Dennis Dettloff
 Antea Group
 11050 White Rock Rd. Suite 110
 Rancho Cordova, CA 95670

Project Name :2705191

Project Number :

| Sample Name | | | MW-9_20140630 | | FD1_20140630 | |
|------------------------------|------------|-------|---------------|------------|--------------|--------------|
| Sample Date | | | 06/12/14 | | 06/12/14 | |
| Analyte | Method | Units | MRL | Results | MRL | Results |
| Benzene | EPA 8260B | ug/L | 0.50 | ND | 15 | 1600 |
| Ethylbenzene | EPA 8260B | ug/L | 0.50 | ND | 15 | 2900 |
| Toluene | EPA 8260B | ug/L | 0.50 | ND | 15 | 42 |
| Total Xylenes | EPA 8260B | ug/L | 0.50 | ND | 15 | 6400 |
| Ethanol | EPA 8260B | ug/L | 5.0 | ND | 150 | ND |
| Methyl-t-butyl ether (MTBE) | EPA 8260B | ug/L | 0.50 | 3.3 | 15 | ND |
| Tert-Butanol | EPA 8260B | ug/L | 5.0 | ND | 70 | ND |
| TPH as Gasoline | EPA 8260B | ug/L | 50 | ND | 1500 | 35000 |
| 1,2-Dichloroethane-d4 (Surr) | EPA 8260B | % | | 99.6 | | 104 |
| Toluene - d8 (Surr) | EPA 8260B | % | | 99.7 | | 99.9 |
| TPH as Diesel (Silica Gel) | M EPA 8015 | ug/L | 50 | ND | 60 | 67 |
| Octacosane (Silica Gel Surr) | M EPA 8015 | % | | 98.0 | | 128 |

MRL = Method Reporting Limit

ND = Not Detected

Project Name : **2705191**

Project Number :

Sample : **MW-10_20140630**

Matrix : Water

Lab Number : 88422-01

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | 4.4 | 0.50 | ug/L | EPA 8260B | 06/17/14 20:03 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/14 20:03 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/14 20:03 |
| Total Xylenes | 0.91 | 0.50 | ug/L | EPA 8260B | 06/17/14 20:03 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/14 20:03 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/17/14 20:03 |
| Ethanol | < 8.0 | 8.0 | ug/L | EPA 8260B | 06/17/14 20:03 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/17/14 20:03 |
| 1,2-Dichloroethane-d4 (Surr) | 99.7 | | % Recovery | EPA 8260B | 06/17/14 20:03 |
| Toluene - d8 (Surr) | 99.7 | | % Recovery | EPA 8260B | 06/17/14 20:03 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/18/14 22:13 |
| Octacosane (Silica Gel Surr) | 106 | | % Recovery | M EPA 8015 | 06/18/14 22:13 |

Project Name : **2705191**

Project Number :

Sample : **MW-11_20140630**

Matrix : Water

Lab Number : 88422-02

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 09:21 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 09:21 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 09:21 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 09:21 |
| Methyl-t-butyl ether (MTBE) | 3.7 | 0.50 | ug/L | EPA 8260B | 06/18/14 09:21 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/18/14 09:21 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/18/14 09:21 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/18/14 09:21 |
| 1,2-Dichloroethane-d4 (Surr) | 97.1 | | % Recovery | EPA 8260B | 06/18/14 09:21 |
| Toluene - d8 (Surr) | 99.5 | | % Recovery | EPA 8260B | 06/18/14 09:21 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/18/14 22:48 |
| Octacosane (Silica Gel Surr) | 108 | | % Recovery | M EPA 8015 | 06/18/14 22:48 |

Project Name : **2705191**

Project Number :

Sample : **MW-12_20140630**

Matrix : Water

Lab Number : 88422-03

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | 30 | 0.90 | ug/L | EPA 8260B | 06/20/14 02:24 |
| Toluene | 3.3 | 0.90 | ug/L | EPA 8260B | 06/20/14 02:24 |
| Ethylbenzene | 4.2 | 0.90 | ug/L | EPA 8260B | 06/20/14 02:24 |
| Total Xylenes | 6.1 | 0.90 | ug/L | EPA 8260B | 06/20/14 02:24 |
| Methyl-t-butyl ether (MTBE) | 920 | 2.0 | ug/L | EPA 8260B | 06/18/14 12:54 |
| Tert-Butanol | 8.6 | 5.0 | ug/L | EPA 8260B | 06/20/14 02:24 |
| Ethanol | < 9.0 | 9.0 | ug/L | EPA 8260B | 06/20/14 02:24 |
| TPH as Gasoline | 200 | 90 | ug/L | EPA 8260B | 06/20/14 02:24 |
| 1,2-Dichloroethane-d4 (Surr) | 99.9 | | % Recovery | EPA 8260B | 06/20/14 02:24 |
| Toluene - d8 (Surr) | 100 | | % Recovery | EPA 8260B | 06/20/14 02:24 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/18/14 23:24 |
| Octacosane (Silica Gel Surr) | 113 | | % Recovery | M EPA 8015 | 06/18/14 23:24 |

Project Name : **2705191**

Project Number :

Sample : **MW-12A_20140630**

Matrix : Water

Lab Number : 88422-04

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 12:19 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 12:19 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 12:19 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 12:19 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/14 12:19 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/18/14 12:19 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/18/14 12:19 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/18/14 12:19 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % Recovery | EPA 8260B | 06/18/14 12:19 |
| Toluene - d8 (Surr) | 98.8 | | % Recovery | EPA 8260B | 06/18/14 12:19 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/18/14 23:59 |
| Octacosane (Silica Gel Surr) | 113 | | % Recovery | M EPA 8015 | 06/18/14 23:59 |

Project Name : **2705191**

Project Number :

Sample : **MW-13_20140630**

Matrix : Water

Lab Number : 88422-05

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 14:10 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 14:10 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 14:10 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 14:10 |
| Methyl-t-butyl ether (MTBE) | 36 | 0.50 | ug/L | EPA 8260B | 06/19/14 14:10 |
| Tert-Butanol | 43 | 5.0 | ug/L | EPA 8260B | 06/19/14 14:10 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 14:10 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 14:10 |
| 1,2-Dichloroethane-d4 (Surr) | 99.9 | | % Recovery | EPA 8260B | 06/19/14 14:10 |
| Toluene - d8 (Surr) | 99.8 | | % Recovery | EPA 8260B | 06/19/14 14:10 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/19/14 00:34 |
| Octacosane (Silica Gel Surr) | 118 | | % Recovery | M EPA 8015 | 06/19/14 00:34 |

Project Name : **2705191**

Project Number :

Sample : **MW-14_20140630**

Matrix : Water

Lab Number : 88422-06

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|---|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | 1600 | 9.0 | ug/L | EPA 8260B | 06/19/14 15:26 |
| Toluene | 43 | 9.0 | ug/L | EPA 8260B | 06/19/14 15:26 |
| Ethylbenzene | 3000 | 9.0 | ug/L | EPA 8260B | 06/19/14 15:26 |
| Total Xylenes | 6500 | 9.0 | ug/L | EPA 8260B | 06/19/14 15:26 |
| Methyl-t-butyl ether (MTBE) | < 9.0 | 9.0 | ug/L | EPA 8260B | 06/19/14 15:26 |
| Tert-Butanol | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 15:26 |
| Ethanol | < 90 | 90 | ug/L | EPA 8260B | 06/19/14 15:26 |
| TPH as Gasoline | 36000 | 900 | ug/L | EPA 8260B | 06/19/14 15:26 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % Recovery | EPA 8260B | 06/19/14 15:26 |
| Toluene - d8 (Surr) | 99.4 | | % Recovery | EPA 8260B | 06/19/14 15:26 |
| TPH as Diesel (Silica Gel) | 64 | 50 | ug/L | M EPA 8015 | 06/19/14 01:09 |
| (Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.) | | | | | |
| Octacosane (Silica Gel Surr) | 114 | | % Recovery | M EPA 8015 | 06/19/14 01:09 |

Project Name : **2705191**

Project Number :

Sample : **MW-15_20140630**

Matrix : Water

Lab Number : 88422-07

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 13:36 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 13:36 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 13:36 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 13:36 |
| Methyl-t-butyl ether (MTBE) | 100 | 0.50 | ug/L | EPA 8260B | 06/19/14 13:36 |
| Tert-Butanol | 31 | 5.0 | ug/L | EPA 8260B | 06/19/14 13:36 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 13:36 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 13:36 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | % Recovery | EPA 8260B | 06/19/14 13:36 |
| Toluene - d8 (Surr) | 100 | | % Recovery | EPA 8260B | 06/19/14 13:36 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/19/14 01:31 |
| Octacosane (Silica Gel Surr) | 116 | | % Recovery | M EPA 8015 | 06/19/14 01:31 |

Project Name : **2705191**

Project Number :

Sample : **MW-16_20140630**

Matrix : Water

Lab Number : 88422-08

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 23:24 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 23:24 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 23:24 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 23:24 |
| Methyl-t-butyl ether (MTBE) | 92 | 0.50 | ug/L | EPA 8260B | 06/19/14 23:24 |
| Tert-Butanol | 440 | 5.0 | ug/L | EPA 8260B | 06/19/14 23:24 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 23:24 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 23:24 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % Recovery | EPA 8260B | 06/19/14 23:24 |
| Toluene - d8 (Surr) | 99.9 | | % Recovery | EPA 8260B | 06/19/14 23:24 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/19/14 01:02 |
| Octacosane (Silica Gel Surr) | 109 | | % Recovery | M EPA 8015 | 06/19/14 01:02 |

Project Name : **2705191**

Project Number :

Sample : **MW-17_20140630**

Matrix : Water

Lab Number : 88422-09

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|---|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | 3600 | 5.0 | ug/L | EPA 8260B | 06/20/14 12:49 |
| Toluene | 410 | 3.0 | ug/L | EPA 8260B | 06/19/14 16:05 |
| Ethylbenzene | 650 | 3.0 | ug/L | EPA 8260B | 06/19/14 16:05 |
| Total Xylenes | 1100 | 3.0 | ug/L | EPA 8260B | 06/19/14 16:05 |
| Methyl-t-butyl ether (MTBE) | < 3.0 | 3.0 | ug/L | EPA 8260B | 06/19/14 16:05 |
| Tert-Butanol | 300 | 15 | ug/L | EPA 8260B | 06/19/14 16:05 |
| Ethanol | < 30 | 30 | ug/L | EPA 8260B | 06/19/14 16:05 |
| TPH as Gasoline | 17000 | 300 | ug/L | EPA 8260B | 06/19/14 16:05 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % Recovery | EPA 8260B | 06/19/14 16:05 |
| Toluene - d8 (Surr) | 99.1 | | % Recovery | EPA 8260B | 06/19/14 16:05 |
| TPH as Diesel (Silica Gel) | 87 | 50 | ug/L | M EPA 8015 | 06/19/14 00:32 |
| (Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.) | | | | | |
| Octacosane (Silica Gel Surr) | 113 | | % Recovery | M EPA 8015 | 06/19/14 00:32 |

Project Name : **2705191**

Project Number :

Sample : **MW-3_20140630**

Matrix : Water

Lab Number : 88422-10

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:56 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:56 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:56 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:56 |
| Methyl-t-butyl ether (MTBE) | 28 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:56 |
| Tert-Butanol | 74 | 5.0 | ug/L | EPA 8260B | 06/19/14 12:56 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 12:56 |
| TPH as Gasoline | 310 | 50 | ug/L | EPA 8260B | 06/19/14 12:56 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | % Recovery | EPA 8260B | 06/19/14 12:56 |
| Toluene - d8 (Surr) | 99.6 | | % Recovery | EPA 8260B | 06/19/14 12:56 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/19/14 00:03 |
| Octacosane (Silica Gel Surr) | 103 | | % Recovery | M EPA 8015 | 06/19/14 00:03 |

Project Name : **2705191**

Project Number :

Sample : **MW-6_20140630**

Matrix : Water

Lab Number : 88422-11

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|---|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | 390 | 5.0 | ug/L | EPA 8260B | 06/20/14 11:18 |
| Toluene | 17 | 5.0 | ug/L | EPA 8260B | 06/20/14 11:18 |
| Ethylbenzene | 690 | 5.0 | ug/L | EPA 8260B | 06/20/14 11:18 |
| Total Xylenes | 1600 | 5.0 | ug/L | EPA 8260B | 06/20/14 11:18 |
| Methyl-t-butyl ether (MTBE) | 12 | 5.0 | ug/L | EPA 8260B | 06/20/14 11:18 |
| Tert-Butanol | 180 | 25 | ug/L | EPA 8260B | 06/20/14 11:18 |
| Ethanol | < 50 | 50 | ug/L | EPA 8260B | 06/20/14 11:18 |
| TPH as Gasoline | 35000 | 500 | ug/L | EPA 8260B | 06/20/14 11:18 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | % Recovery | EPA 8260B | 06/20/14 11:18 |
| Toluene - d8 (Surr) | 103 | | % Recovery | EPA 8260B | 06/20/14 11:18 |
| TPH as Diesel (Silica Gel) | 570 | 50 | ug/L | M EPA 8015 | 06/18/14 23:33 |
| (Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.) | | | | | |
| Octacosane (Silica Gel Surr) | 116 | | % Recovery | M EPA 8015 | 06/18/14 23:33 |

Project Name : **2705191**

Project Number :

Sample : **TB1_20140630**

Matrix : Water

Lab Number : 88422-12

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:21 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:21 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:21 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:21 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 12:21 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 12:21 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 12:21 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 12:21 |
| 1,2-Dichloroethane-d4 (Surr) | 99.8 | | % Recovery | EPA 8260B | 06/19/14 12:21 |
| Toluene - d8 (Surr) | 99.5 | | % Recovery | EPA 8260B | 06/19/14 12:21 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/18/14 23:04 |
| Octacosane (Silica Gel Surr) | 125 | | % Recovery | M EPA 8015 | 06/18/14 23:04 |

Project Name : **2705191**

Project Number :

Sample : **MW-7_20140630**

Matrix : Water

Lab Number : 88422-13

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 12:56 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 12:56 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 12:56 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 12:56 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 12:56 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/20/14 12:56 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/20/14 12:56 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/20/14 12:56 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % Recovery | EPA 8260B | 06/20/14 12:56 |
| Toluene - d8 (Surr) | 103 | | % Recovery | EPA 8260B | 06/20/14 12:56 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/18/14 22:35 |
| Octacosane (Silica Gel Surr) | 127 | | % Recovery | M EPA 8015 | 06/18/14 22:35 |

Project Name : **2705191**

Project Number :

Sample : **MW-8_20140630**

Matrix : Water

Lab Number : 88422-14

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:47 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:47 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:47 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:47 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:47 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 11:47 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 11:47 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 11:47 |
| 1,2-Dichloroethane-d4 (Surr) | 99.3 | | % Recovery | EPA 8260B | 06/19/14 11:47 |
| Toluene - d8 (Surr) | 99.7 | | % Recovery | EPA 8260B | 06/19/14 11:47 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/19/14 01:45 |
| Octacosane (Silica Gel Surr) | 114 | | % Recovery | M EPA 8015 | 06/19/14 01:45 |

Project Name : **2705191**

Project Number :

Sample : **MW-9_20140630**

Matrix : Water

Lab Number : 88422-15

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:13 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:13 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:13 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:13 |
| Methyl-t-butyl ether (MTBE) | 3.3 | 0.50 | ug/L | EPA 8260B | 06/19/14 11:13 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 11:13 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 11:13 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 11:13 |
| 1,2-Dichloroethane-d4 (Surr) | 99.6 | | % Recovery | EPA 8260B | 06/19/14 11:13 |
| Toluene - d8 (Surr) | 99.7 | | % Recovery | EPA 8260B | 06/19/14 11:13 |
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/18/14 22:05 |
| Octacosane (Silica Gel Surr) | 98.0 | | % Recovery | M EPA 8015 | 06/18/14 22:05 |

Project Name : **2705191**

Project Number :

Sample : **FD1_20140630**

Matrix : Water

Lab Number : 88422-16

Sample Date :06/12/14

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|---|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | 1600 | 15 | ug/L | EPA 8260B | 06/19/14 17:17 |
| Toluene | 42 | 15 | ug/L | EPA 8260B | 06/19/14 17:17 |
| Ethylbenzene | 2900 | 15 | ug/L | EPA 8260B | 06/19/14 17:17 |
| Total Xylenes | 6400 | 15 | ug/L | EPA 8260B | 06/19/14 17:17 |
| Methyl-t-butyl ether (MTBE) | < 15 | 15 | ug/L | EPA 8260B | 06/19/14 17:17 |
| Tert-Butanol | < 70 | 70 | ug/L | EPA 8260B | 06/19/14 17:17 |
| Ethanol | < 150 | 150 | ug/L | EPA 8260B | 06/19/14 17:17 |
| TPH as Gasoline | 35000 | 1500 | ug/L | EPA 8260B | 06/19/14 17:17 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | % Recovery | EPA 8260B | 06/19/14 17:17 |
| Toluene - d8 (Surr) | 99.9 | | % Recovery | EPA 8260B | 06/19/14 17:17 |
| TPH as Diesel (Silica Gel) | 67 | 60 | ug/L | M EPA 8015 | 06/18/14 21:36 |
| (Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.) | | | | | |
| Octacosane (Silica Gel Surr) | 128 | | % Recovery | M EPA 8015 | 06/18/14 21:36 |

QC Report : Method Blank Data

Project Name : **2705191**

Project Number :

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|------------------------------|----------------|------------------------|-------|-----------------|---------------|
| TPH as Diesel (Silica Gel) | < 50 | 50 | ug/L | M EPA 8015 | 06/18/14 |
| Octacosane (Silica Gel Surr) | 104 | | % | M EPA 8015 | 06/18/14 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/14 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/14 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/14 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/14 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/17/14 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/14 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/17/14 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/17/14 |
| 1,2-Dichloroethane-d4 (Surr) | 96.6 | | % | EPA 8260B | 06/17/14 |
| Toluene - d8 (Surr) | 99.4 | | % | EPA 8260B | 06/17/14 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % | EPA 8260B | 06/19/14 |
| Toluene - d8 (Surr) | 99.8 | | % | EPA 8260B | 06/19/14 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|------------------------------|----------------|------------------------|-------|-----------------|---------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/19/14 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/19/14 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/19/14 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | % | EPA 8260B | 06/19/14 |
| Toluene - d8 (Surr) | 99.6 | | % | EPA 8260B | 06/19/14 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/20/14 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/20/14 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/20/14 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 06/20/14 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | % | EPA 8260B | 06/20/14 |
| Toluene - d8 (Surr) | 103 | | % | EPA 8260B | 06/20/14 |

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2705191

Project Number :

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| TPH-D (Si Gel) | 88422-14 | <50 | 1000 | 1000 | 821 | 805 | ug/L | M EPA 8015 | 6/18/14 | 82.1 | 80.5 | 2.01 | 70-130 | 25 |
| Benzene | 88422-01 | 4.4 | 39.9 | 40.0 | 44.8 | 45.0 | ug/L | EPA 8260B | 6/17/14 | 101 | 102 | 0.534 | 70.0-130 | 25 |
| Ethanol | 88422-01 | 7.0 | 99.8 | 100 | 99.7 | 96.7 | ug/L | EPA 8260B | 6/17/14 | 92.9 | 89.8 | 3.47 | 55.0-150 | 25 |
| Ethylbenzene | 88422-01 | <0.50 | 39.9 | 40.0 | 43.3 | 43.7 | ug/L | EPA 8260B | 6/17/14 | 108 | 109 | 0.756 | 70.0-130 | 25 |
| Methyl-t-butyl ether | 88422-01 | <0.50 | 40.0 | 40.1 | 40.4 | 40.4 | ug/L | EPA 8260B | 6/17/14 | 101 | 100 | 0.312 | 70.0-130 | 25 |
| P + M Xylene | 88422-01 | 0.91 | 39.9 | 40.0 | 41.6 | 41.8 | ug/L | EPA 8260B | 6/17/14 | 102 | 102 | 0.442 | 70.0-130 | 25 |
| Tert-Butanol | 88422-01 | <5.0 | 200 | 200 | 200 | 200 | ug/L | EPA 8260B | 6/17/14 | 100 | 100 | 0.101 | 70.0-130 | 25 |
| Toluene | 88422-01 | <0.50 | 39.9 | 40.0 | 41.4 | 41.4 | ug/L | EPA 8260B | 6/17/14 | 104 | 104 | 0.0341 | 70.0-130 | 25 |
| Benzene | 88422-08 | <0.50 | 40.0 | 40.0 | 41.3 | 40.4 | ug/L | EPA 8260B | 6/20/14 | 103 | 101 | 2.16 | 70.0-130 | 25 |

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2705191

Project Number :

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Ethanol | 88422-08 | <5.0 | 100 | 100 | 96.6 | 99.5 | ug/L | EPA 8260B | 6/20/14 | 96.6 | 99.5 | 2.97 | 55.0-150 | 25 |
| Ethylbenzene | 88422-08 | <0.50 | 40.0 | 40.0 | 42.9 | 42.2 | ug/L | EPA 8260B | 6/20/14 | 107 | 106 | 1.54 | 70.0-130 | 25 |
| Methyl-t-butyl ether | 88422-08 | 92 | 40.1 | 40.1 | 130 | 130 | ug/L | EPA 8260B | 6/20/14 | 92.7 | 94.4 | 1.84 | 70.0-130 | 25 |
| P + M Xylene | 88422-08 | <0.50 | 40.0 | 40.0 | 40.9 | 40.3 | ug/L | EPA 8260B | 6/20/14 | 102 | 101 | 1.40 | 70.0-130 | 25 |
| Tert-Butanol | 88422-08 | 440 | 200 | 200 | 614 | 627 | ug/L | EPA 8260B | 6/20/14 | 88.6 | 94.9 | 6.87 | 70.0-130 | 25 |
| Toluene | 88422-08 | <0.50 | 40.0 | 40.0 | 41.1 | 40.3 | ug/L | EPA 8260B | 6/20/14 | 103 | 101 | 1.87 | 70.0-130 | 25 |
| Benzene | 88462-01 | <0.50 | 40.0 | 40.0 | 35.9 | 40.8 | ug/L | EPA 8260B | 6/20/14 | 89.7 | 102 | 12.8 | 70.0-130 | 25 |
| Benzene | 88451-13 | <0.50 | 40.0 | 40.0 | 38.2 | 39.4 | ug/L | EPA 8260B | 6/19/14 | 95.5 | 98.4 | 3.07 | 70.0-130 | 25 |
| Ethanol | 88451-13 | <5.0 | 100 | 100 | 98.7 | 94.2 | ug/L | EPA 8260B | 6/19/14 | 98.7 | 94.2 | 4.73 | 55.0-150 | 25 |

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2705191

Project Number :

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Ethylbenzene | 88451-13 | <0.50 | 40.0 | 40.0 | 39.9 | 40.7 | ug/L | EPA 8260B | 6/19/14 | 99.9 | 102 | 1.96 | 70.0-130 | 25 |
| P + M Xylene | 88451-13 | <0.50 | 40.0 | 40.0 | 40.9 | 41.5 | ug/L | EPA 8260B | 6/19/14 | 102 | 104 | 1.47 | 70.0-130 | 25 |
| Tert-Butanol | 88451-13 | <5.0 | 200 | 200 | 198 | 201 | ug/L | EPA 8260B | 6/19/14 | 98.8 | 101 | 1.79 | 70.0-130 | 25 |
| Toluene | 88451-13 | <0.50 | 40.0 | 40.0 | 39.0 | 40.0 | ug/L | EPA 8260B | 6/19/14 | 97.5 | 100 | 2.45 | 70.0-130 | 25 |
| Benzene | 88462-02 | <0.50 | 40.0 | 40.0 | 46.6 | 45.4 | ug/L | EPA 8260B | 6/20/14 | 116 | 113 | 2.80 | 70.0-130 | 25 |
| Ethanol | 88462-02 | <5.0 | 100 | 100 | 108 | 105 | ug/L | EPA 8260B | 6/20/14 | 108 | 105 | 2.59 | 55.0-150 | 25 |
| Ethylbenzene | 88462-02 | <0.50 | 40.0 | 40.0 | 45.1 | 44.7 | ug/L | EPA 8260B | 6/20/14 | 113 | 112 | 1.00 | 70.0-130 | 25 |
| Methyl-t-butyl ether | 88462-02 | <0.50 | 40.1 | 40.1 | 44.6 | 44.0 | ug/L | EPA 8260B | 6/20/14 | 111 | 110 | 1.26 | 70.0-130 | 25 |
| P + M Xylene | 88462-02 | <0.50 | 40.0 | 40.0 | 42.7 | 42.4 | ug/L | EPA 8260B | 6/20/14 | 107 | 106 | 0.760 | 70.0-130 | 25 |

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2705191**

Project Number :

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|--------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Tert-Butanol | 88462-02 | <5.0 | 200 | 200 | 223 | 214 | ug/L | EPA 8260B | 6/20/14 | 111 | 107 | 3.82 | 70.0-130 | 25 |
| Toluene | 88462-02 | <0.50 | 40.0 | 40.0 | 47.9 | 46.7 | ug/L | EPA 8260B | 6/20/14 | 120 | 117 | 2.65 | 70.0-130 | 25 |

QC Report : Laboratory Control Sample (LCS)

Project Name : 2705191

Project Number :

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|----------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| TPH-D (Si Gel) | 1000 | ug/L | M EPA 8015 | 6/18/14 | 78.7 | 70-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 6/17/14 | 101 | 70.0-130 |
| Ethanol | 100 | ug/L | EPA 8260B | 6/17/14 | 103 | 55.0-150 |
| Ethylbenzene | 40.0 | ug/L | EPA 8260B | 6/17/14 | 107 | 70.0-130 |
| Methyl-t-butyl ether | 40.1 | ug/L | EPA 8260B | 6/17/14 | 94.2 | 70.0-130 |
| P + M Xylene | 40.0 | ug/L | EPA 8260B | 6/17/14 | 102 | 70.0-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 6/17/14 | 100 | 70.0-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 6/17/14 | 101 | 70.0-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 6/19/14 | 104 | 70.0-130 |
| Ethanol | 100 | ug/L | EPA 8260B | 6/19/14 | 104 | 55.0-150 |
| Ethylbenzene | 40.0 | ug/L | EPA 8260B | 6/19/14 | 109 | 70.0-130 |
| Methyl-t-butyl ether | 40.1 | ug/L | EPA 8260B | 6/19/14 | 101 | 70.0-130 |
| P + M Xylene | 40.0 | ug/L | EPA 8260B | 6/19/14 | 103 | 70.0-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 6/19/14 | 104 | 70.0-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 6/19/14 | 103 | 70.0-130 |
| Benzene | 40.1 | ug/L | EPA 8260B | 6/20/14 | 100 | 70.0-130 |
| Benzene | 40.0 | ug/L | EPA 8260B | 6/19/14 | 95.3 | 70.0-130 |

QC Report : Laboratory Control Sample (LCS)Project Name : **2705191**

Project Number :

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|----------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Ethanol | 100 | ug/L | EPA 8260B | 6/19/14 | 92.0 | 55.0-150 |
| Ethylbenzene | 40.0 | ug/L | EPA 8260B | 6/19/14 | 98.4 | 70.0-130 |
| P + M Xylene | 40.0 | ug/L | EPA 8260B | 6/19/14 | 101 | 70.0-130 |
| TPH as Gasoline | 483 | ug/L | EPA 8260B | 6/19/14 | 89.8 | 70.0-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 6/19/14 | 98.1 | 70.0-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 6/19/14 | 97.4 | 70.0-130 |
| Benzene | 39.9 | ug/L | EPA 8260B | 6/20/14 | 112 | 70.0-130 |
| Ethanol | 99.8 | ug/L | EPA 8260B | 6/20/14 | 106 | 55.0-150 |
| Ethylbenzene | 39.9 | ug/L | EPA 8260B | 6/20/14 | 112 | 70.0-130 |
| Methyl-t-butyl ether | 40.0 | ug/L | EPA 8260B | 6/20/14 | 106 | 70.0-130 |
| P + M Xylene | 39.9 | ug/L | EPA 8260B | 6/20/14 | 106 | 70.0-130 |
| TPH as Gasoline | 482 | ug/L | EPA 8260B | 6/20/14 | 107 | 70.0-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 6/20/14 | 109 | 70.0-130 |
| Toluene | 39.9 | ug/L | EPA 8260B | 6/20/14 | 117 | 70.0-130 |



COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

2Q14 GW Event

| | | | | | | | | | | | |
|----------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------|-------------|--------------------------------------|----------------------------------|----------------------------|----------|---------------------------------|--------------|
| Required Lab Information: | | Required Project Information: | | | | Required Invoice Information: | | | | | |
| Lab Name: | Kiff Analytical | Site ID #: | 2705191 | Task: | WG_Q_201406 | Send Invoice to: | Sandy Hayes | | | | |
| Address: | 2795 Second Street #300 | AnteaGrp proj#: | | | | Address: | 11050 White Rock Road, Suite 110 | | | | |
| Davis, CA 95618 | | Site Address: | 449 Hegenberger | | | City/State: | Rancho Cordova CA 95671 | | Phone #: | 916-638-2085 | |
| Lab PM: | Scott Forbes | City: | Oakland | State: | CA 94621 | Reimbursement project? | | Non-reimbursement project? | Y | Mark one | |
| Phone/Fax: | P: 530-297-4800 F: 530-297-4808 | AG PM Name: | Dennis Dettloff | | | Send EDD to: | Agdataview.us@anteagroup.com | | | QC level Required: | Standard |
| Lab PM email: | SForbes@kiffanalytical.com | Phone/Fax: | P: 916-503-1261 F: 916-638-8385 | | | CC Hardcopy report to: | | | | Special | Mark one |
| Applicable Lab Quote #: | | AG PM Email: | dennis.dettloff@anteagroup.com | | | CC Hardcopy report to: | | | | MA MCP Cert? | CT RCP Cert? |
| | | | | | | | | | | Turn around time (days) | 10 |
| | | | | | | | | | | NJ Reduced Deliverable Package? | |
| | | | | | | | | | | Mark One | |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE | Valid Matrix Codes MATRIX DRINKING WATER WP GROUND WATER WG WASTE WATER WW FREE PRODUCT LF SOIL SO OIL OIL WIPE WIP AMBIENT AIR AA SVE AIR AE SOK GAS GS | MATRIX CODE | SAMPLE TYPE G=GRAB C=COMP | SAMPLE DATE | SAMPLE TIME | #OF CONTAINERS | FIELD FILTERED? (Y/N) | Preservatives | | | | | | | | | | Requested Analyses | Comments/Lab Sample I.D. | | | | |
|--------|---|---|-------------|------------------------------|-------------|-------------|----------------|-----------------------|---------------|--------------------------------|------------------|-----|------|---|----------|-------|---------------------------|----------------|--------------------|--------------------------|-----------------|-----------------|-----------------|--|
| | | | | | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | 80157 PPE Diesel W/ Silic | 8280 GC/MS GFO | | | 82809 GC/MS GFO | 82809 GC/MS GFO | 82809 GC/MS GFO | |
| 1 | MW-7_20140630 | | WG | | 6-12-14 | 1353 | 6 | N | | | | | | | | | | | X | X | X | X | | |
| 2 | MW-8_20140630 | | WG | | 6-12-14 | 1340 | 6 | N | | | | | | | | | | | X | X | X | X | | |
| 3 | MW-9_20140630 | | WG | | 6-12-14 | 1405 | 6 | N | | | | | | | | | | | X | X | X | X | | |
| 4 | FB2_20140630 | | W | | | | | | | | | | | | | | | | X | X | X | X | | |
| 5 | FD1_20140630 | | W | | 6-12-14 | 1535 | 6 | N | | | | | | | | | | | X | X | X | X | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|-------------------------------|-----------|------|---------------------------|------|------|-----------------------------------|-----------------|----------------|-------------|-----|
| Additional Comments/Special Instructions: Global ID: T0600101476 | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | Sample Receipt Conditions | | | | |
| | <i>Mark McColloch</i> | 6-12-2014 | 1710 | | | | Y/N | Y/N | Y/N | Y/N | Y/N |
| | | | | | | | Y/N | Y/N | Y/N | Y/N | Y/N |
| | | | | | | | Y/N | Y/N | Y/N | Y/N | Y/N |
| SHIPPING METHOD: (mark as appropriate) | | | | | | | SAMPLER NAME AND SIGNATURE | | | | |
| UPS COURIER FEDEX | | | | | | | Mark McColloch | | | | |
| US MAIL | | | | | | | DATE Signed: 6-12-2014 Time: 1715 | | | | |
| | | | | | | | Temp in °C | Samples on Ice? | Sample intact? | Trip Blank? | |

Page 30 of 31

SAMPLE RECEIPT CHECKLIST

SRG #: 88422

| | | | | |
|--|--|---|---|--|
| Sample Receipt | Initials/Date: <i>Egy 06/3/14</i> | Storage Time: <i>1455</i> | Sample Login | Initials/Date: <i>Egy 06/3/14</i> |
| TAT: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> Split <input type="checkbox"/> None | | Method of Receipt: <input type="checkbox"/> Courier <input type="checkbox"/> Over-the-counter <input checked="" type="checkbox"/> Shipped | | |
| Temp °C <i>-0.8</i> <input type="checkbox"/> N/A | Therm ID | Time <i>1005</i> | Coolant present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Water | <input checked="" type="checkbox"/> Temp Excursion |
| For Shipments Only: | Cooler Receipt Initials/Date/Time: <i>Egy 06/3/14 1005</i> | | Custody Seals <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Intact <input type="checkbox"/> Broken | |

| Chain-of-Custody: | Yes | No |
|---|-----|----|
| Is COC present? | / | |
| Is COC signed by relinquisher? | / | |
| Is COC dated by relinquisher? | / | |
| Is the sampler's name on the COC? | / | |
| Are there analyses or hold for all samples? | / | |

| Documented on | COC | Labels | Discrepancies: |
|---------------------------------|-----|--------|--|
| Sample ID | / | / | |
| Project ID | / | / | |
| Sample Date | / | / | |
| Sample Time | / | / | |
| Does COC match project history? | | | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

| Samples: | N/A | Yes | No |
|-------------------------------------|-----|-----|----|
| Are sample custody seals intact? | / | | |
| Are sample containers intact? | | / | |
| Is preservation documented? | | / | |
| In-house Analysis: | N/A | Yes | No |
| Are preservatives acceptable? | | / | |
| Are samples within holding time? | | / | |
| Are sample container types correct? | | / | |
| Is there adequate sample volume? | | / | |

Comments: *Sample -12 has 2 containers. The number is not listed on the COC. Samples 01-12 have HCL stickers on the containers. Egy 06/3/14 1455*

Receipt Details:

| Matrix | Container Type | # of Containers |
|-----------|----------------|-----------------|
| <i>WA</i> | <i>Voa</i> | <i>92</i> |
| | | |
| | | |
| | | |

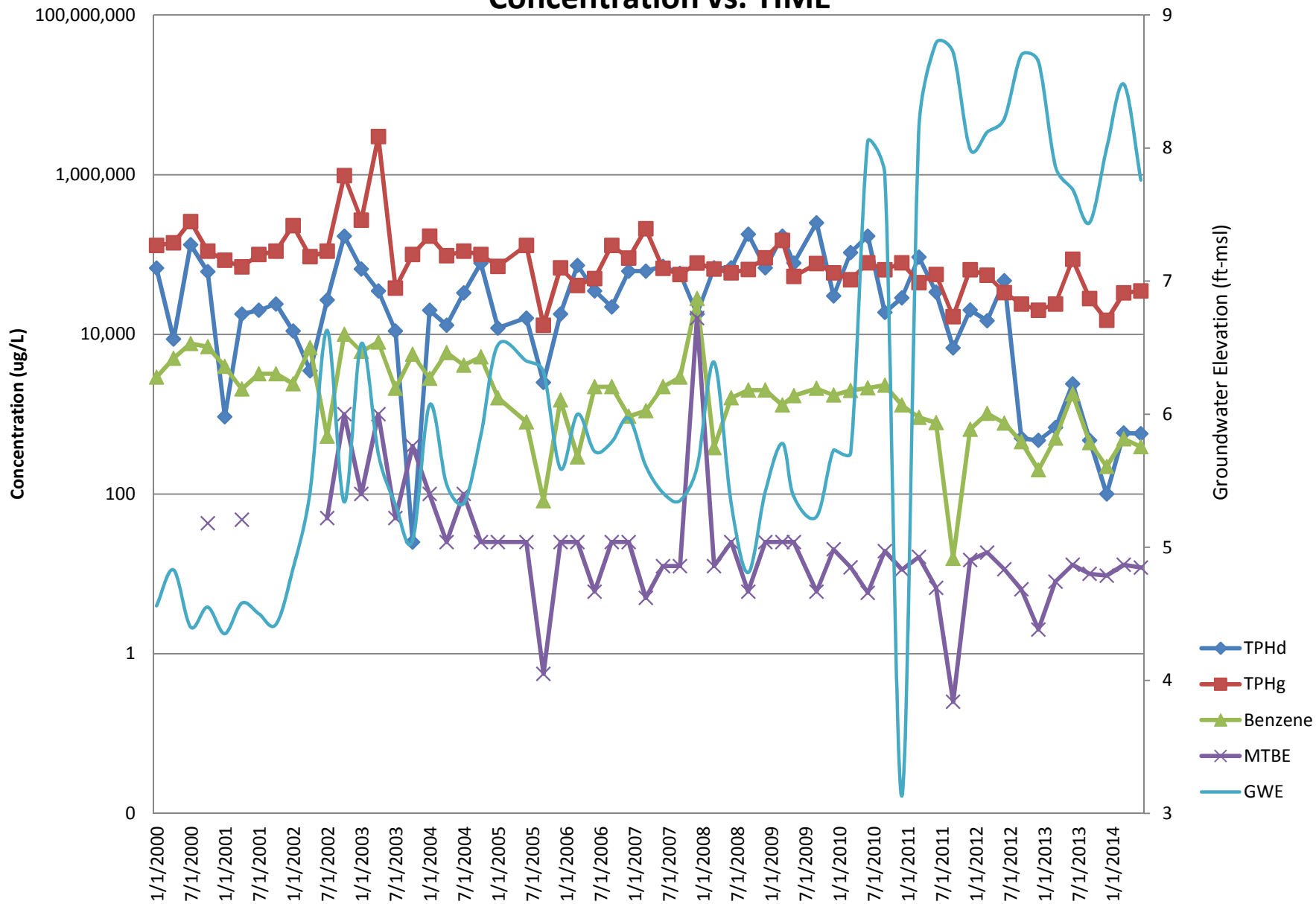
CS Required:

| | |
|---|------------|
| Proceed With Analysis: <input type="checkbox"/> YES <input type="checkbox"/> NO | Init/Date: |
| Client Communication: | |

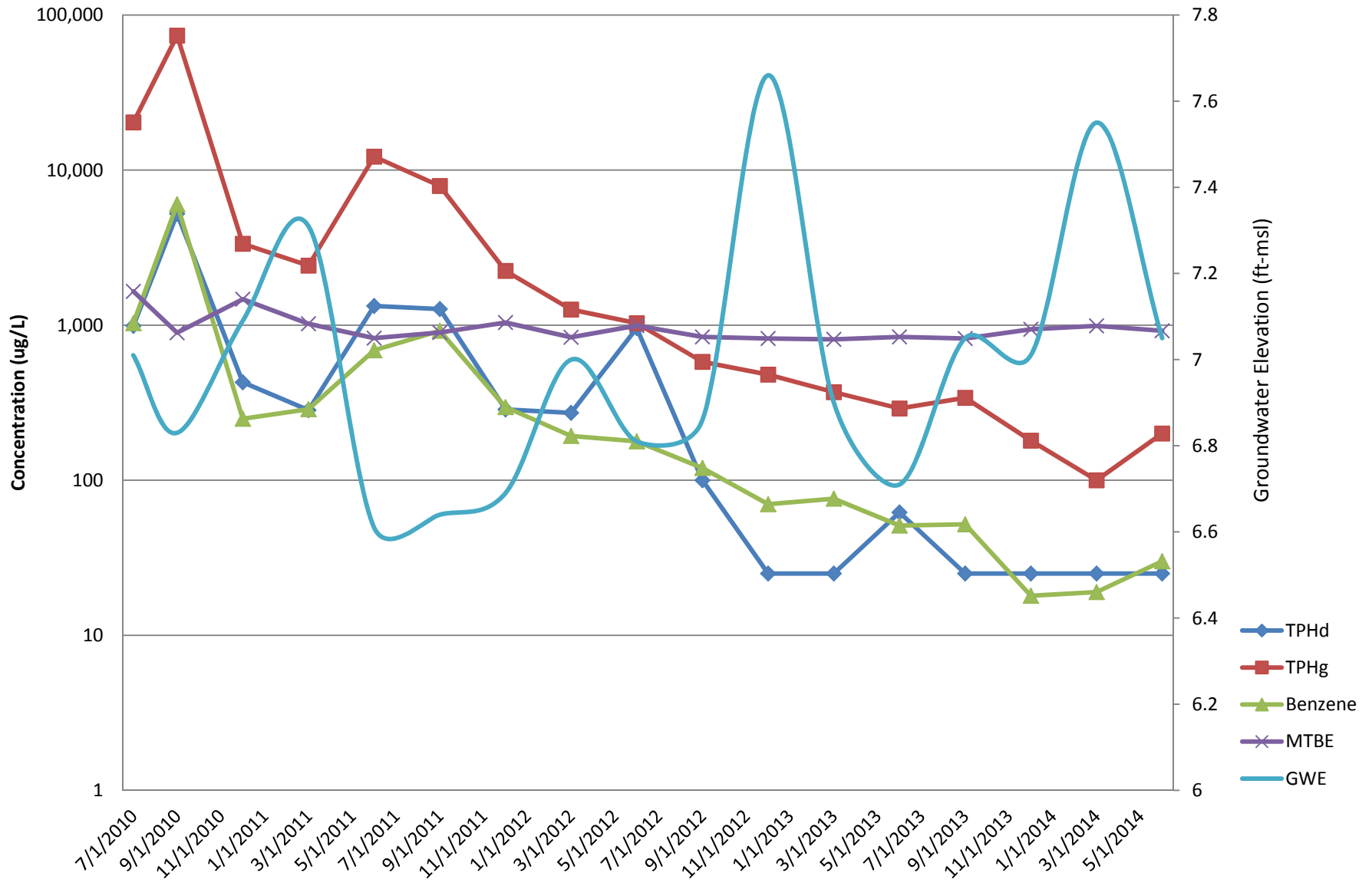
Appendix E

Concentration vs. Time Graphs

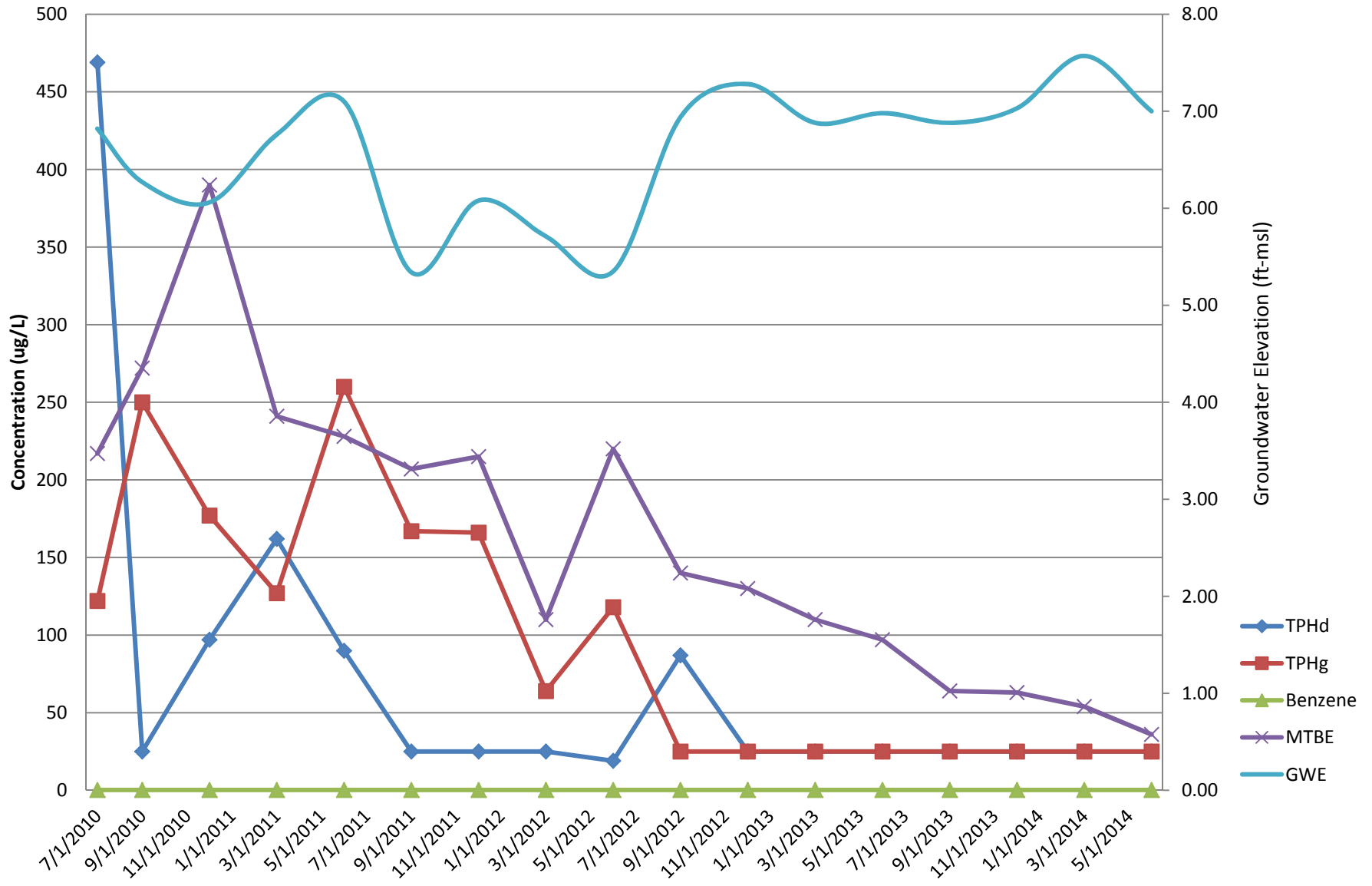
MW-6 Concentration vs. TIME



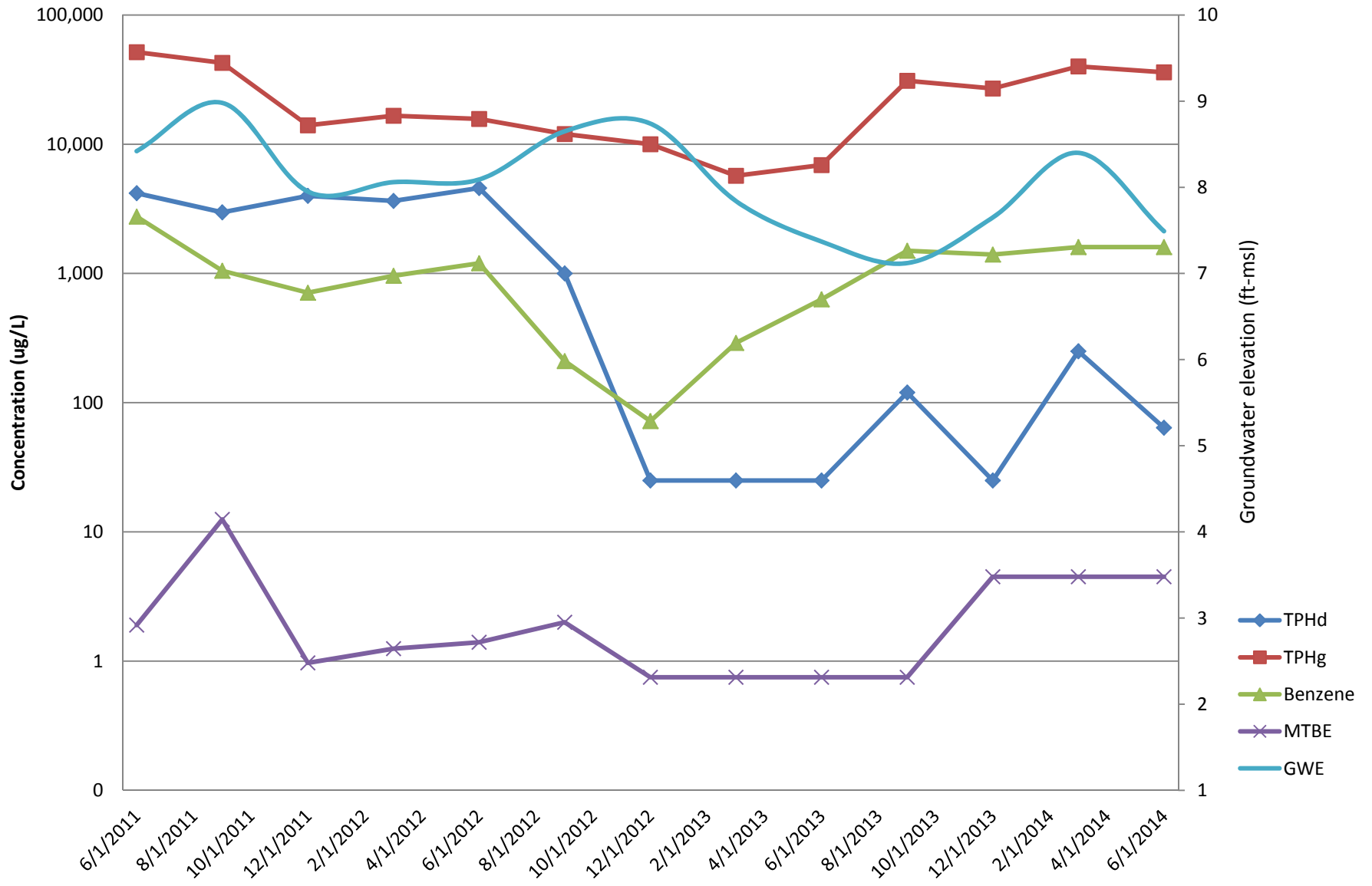
MW-12 Concentration vs. Time



MW-13 Concentration vs. Time



MW-14 Concentration vs. Time



MW-17 Concentration Vs. Time

