RECEIVED
By Alameda County Environmental Health 2:59 pm, Feb 01, 2017

January 31, 2017

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

Subject: **4Q16 Quarterly Summary Report**

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
United Pacific
17311 S. Main Street
Gardena, CA 90248
P: (310) 808-6835
C: (206) 979-1179
Walter.Sprague@UnitedPacific.com

Sincerely,

United Pacific

WALTER SPRAGUE
Director of Retail Services

Attachment: Antea Group's *Quarterly Summary Report, Fourth Quarter 2016* dated January 31, 2017

Quarterly Summary Report, Fourth Quarter 2016

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

Alameda County Health Care Services
Agency Fuel Leak Case No. RO0000219

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

GeoTracker Global ID No.T0600101476

Antea Group Project No. I42705191
January 31, 2016

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

Prepared by:
Antea®Group
11050 White Rock Road,
Suite 110
Rancho Cordova, CA 95670
+1 800 477 7411

Table of Contents

Figures

Tables

Appendices

Quarterly Summary Report, Fourth Quarter 2016

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

1.0 INTRODUCTION

Antea®Group is submitting this *Quarterly Summary Report, Fourth Quarter 2016*, for the referenced site in Oakland, California (**Figure 1**). The subject site is an operating 76-branded Service Station located on the southwestern corner of Hegenberger Road and Edgewater Drive in Oakland, California. Station facilities include three underground storage tanks (USTs), two dispenser islands, a station building, and a carwash. Six groundwater monitoring wells are located at the site (**Figure 2**). Well construction details are included in **Table 1**. Please refer to **Appendix A** for the history of environmental investigations and remediation activities.

This report summarizes the data obtained from the recent groundwater monitoring and sampling event conducted on December 2, 2016. Included herein are site figures, summary groundwater data tables, and a discussion of trends. This report has received a technical review by Ms. Regina Bussard, California Professional Geologist No. 8288.

1.1 Work Performed [Fourth Quarter 2016]

1. Antea Group submitted the *Quarterly Summary Report, Third Quarter 2016*, dated November 28, 2016 to the Alameda County Health Care Services Agency (ACHCSA).
2. Antea Group subcontractor Blaine Tech Services, Inc. (Blaine Tech) conducted the fourth quarter 2016 groundwater monitoring and sampling event on December 2, 2016.
3. Antea Group submitted the *Excavation Completion Report*, dated November 23, 2016 to the ACHCSA.

1.2 Work Proposed [First Quarter 2017]

1. Antea Group will submit the *Quarterly Summary Report, Fourth Quarter 2016* (contained herein) to the ACHCSA.
2. Blaine Tech will conduct the fourth quarter 2016 groundwater monitoring and sampling event.
3. Antea Group will submit a request for Low-Threat Closure.

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-9, MW-11, MW-13, MW-15, and MW-16
Monitoring well sampling schedule:	Quarterly: MW-11, MW-13, MW-15, and MW-16 Semi-Annual (second and fourth quarters): MW-3 and MW-9
Total number of monitoring wells (**Table 1**):	Six (MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16)
Range of well depths (total depth below ground surface, bgs) (**Table 1**):	13 feet to 20 feet bgs
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	Former monitoring wells MW-1, MW-2, and 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: 9.97 (MW-9, Q4 2016)
Local receptors:	See **Appendix A**
Current remediation technique	None

2.1 Regulatory Correspondence

On December 19, 20116 ACHCSA denied the submittal of the *Quarterly Summary Report, Third Quarter 2016* pending submittal of associated "GEO_MAP(s)". Antea Group asked ACHCSA which GEO_MAP(s) were missing. Antea Group is waiting for a response from ACHCSA.

On December 20, 2016 ACHCSA denied the submittal of the Excavation Completion Report pending submittal of remaining EDFs. Antea Group responded, asking which EDFs were missing. Antea Group is waiting for a response from ACHCSA.

2.2 Site Remediation Activities

On-site soil excavation occurred from May 2 through August 5, 2016. Approximately, 1,665 tons of soil was removed during excavation activities.

2.3 Groundwater Monitoring

During the fourth quarter 2016 groundwater monitoring and sampling event, six monitoring wells were gauged, purged, and sampled by Blaine Tech per standard sampling protocol. Copies of Blaine Tech's field data sheets are presented as **Appendix B**. 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:	December 2, 2016
Wells gauged:	MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16
Wells sampled:	MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16
Purge method:	3 well casing volumes via electric, submersible pump
Sample collection method:	Disposable bailers
Groundwater parameters measured (**Appendix B**):	Temperature, pH, Conductivity, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), and Turbidity
Wells with measurable LNAPL:	None
Current depth to water range (feet BTOC):	Min: 0.97 (MW-9) Max: 3.88 (MW-13)
Current groundwater elevation range (feet):	Min: 7.20 (MW-13) Max: 9.97 (MW-9)
Change in water depths from previous event (average change for all gauged wells):	0.61 foot decrease
Groundwater flow direction and gradient in foot per foot (ft/ft):	Variable (0.012 ft/ft south-southwest and 0.016 ft/ft southeast)

2.3.1 Groundwater Flow Gradient and Directional Trends

The groundwater elevations calculated using the data collected during the fourth quarter 2016 monitoring event indicate variable groundwater flow to the south-southwest and southeast at gradients of 0.012 ft/ft and 0.016 ft/ft, respectively (**Figure 3)**. Groundwater flow and gradient during the December 2, 2016 event is consistent with historical flow directions and gradients. **Table 4** summarizes historical gradients and **Figure 4** shows historical groundwater flow interpretations from 1992 to the present.

2.3.2 Groundwater Quality Data

Groundwater samples collected during the fourth quarter 2016 monitoring and sampling event were submitted with chain-of-custody (COC) documentation to Eurofins Calscience, Inc. (Calscience), a state of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 2944). The complete analytical report and Antea Group's laboratory data validation checklist are presented as **Appendix C**. Groundwater samples were analyzed for the following:

- Total petroleum hydrocarbons as diesel range organics (TPHd) [silica gel preparation] by US Environmental Protection Agency (EPA) Method 8015B(M);
- Total petroleum hydrocarbons as gasoline range organics (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tert-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 table summarizes the frequency of detection and the range of concentrations detected during the fourth

quarter 2016 sampling event. Only constituents detected above the laboratory reporting limit are presented 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)
TPHd	2 of 6	230 (MW-16)	240 (MW-15)
TPHg	2 of 6	81 (MW-3)	98 (MW-15)
MTBE	5 of 6	6.9 (MW-11)	33 (MW-15)
TBA	4 of 6	24 (MW-3 and MW-15)	140 (MW-16)

Explanations:
µg/L = Micrograms per liter LRL = Laboratory reporting limit

2.3.3 Groundwater Contaminant Trends

Graphs showing changes in TPHd, TPHg, benzene, and MTBE concentrations (as applicable per well) and changes in depth to water over time for wells MW-3, MW-9, MW-11, MW-13, MW-15, and MW-16 are included as **Appendix D**. Overall, TPHg, TPHd, benzene, and MTBE concentrations have been stable to decreasing at the monitoring well locations. The distribution of dissolved phase TPHg, benzene, and MTBE is shown on **Figure 5**. Note, benzene and MTBE concentrations did not exceed the Low-Threat Closure thresholds.

2.3.4 Waste Disposal Summary

Blaine Tech transported wastewater generated from purging/sampling and equipment cleaning to their bulk facility in San Jose, California. A waste manifest for this event is currently unavailable as of the date of this report. A copy of the final waste manifest will be submitted upon receipt.

2.3.5 Quality Assurance / Quality Control

Antea Group's QA/QC measures included completing a data validation checklist for the December 2016 Calscience analytical results. Antea Group's data validation checklist is included with the Calscience laboratory report in **Appendix C**.

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

* HD - The chromatographic pattern was inconsistent with the profile of the reference fuel standard (noted on the TPHd results for monitoring wells MW-15 and MW-16)

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 DISCUSSION

Petroleum hydrocarbon impacts to the groundwater has historically been limited to the vicinities of former monitoring wells MW-6 and MW-14 in the southwest corner of the site downgradient of the source areas and former monitoring wells MW-12 and MW-17 on the east side of the site near the dispenser islands. Historically, groundwater elevations beneath the site have ranged from approximately 2.77 feet to 9.97 feet above datum.

The excavation activities during the second and third quarters of 2016 removed the majority of the petroleum hydrocarbon impacts in soil. Regenesis brand Oxygen Release Compound® (ORC-A®) was added to the excavation backfill to remediate the remaining constituents of concern estimated in groundwater.

During the recent monitoring event, MTBE was reported in five of the six monitoring wells; however, none of the reported concentrations exceeded the California Low-Threat Closure Policy threshold of 1,000 µg/l MTBE. Reported benzene concentrations did not exceed the LRLs.

4.0 CONCLUSIONS

The petroleum hydrocarbon impacts monitored and reported during the fourth quarter 2016, are relatively consistent with historical data. Targeted areas of petroleum hydrocarbon impact based on historical soil and groundwater data underwent excavation between May 2016 and August 2016, removing secondary source impacts to the extent practicable. Remaining impact to the soil and groundwater is below California Low-Threat Closure Policy thresholds.

5.0 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:

FOR

Jonathan Fillingame
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.

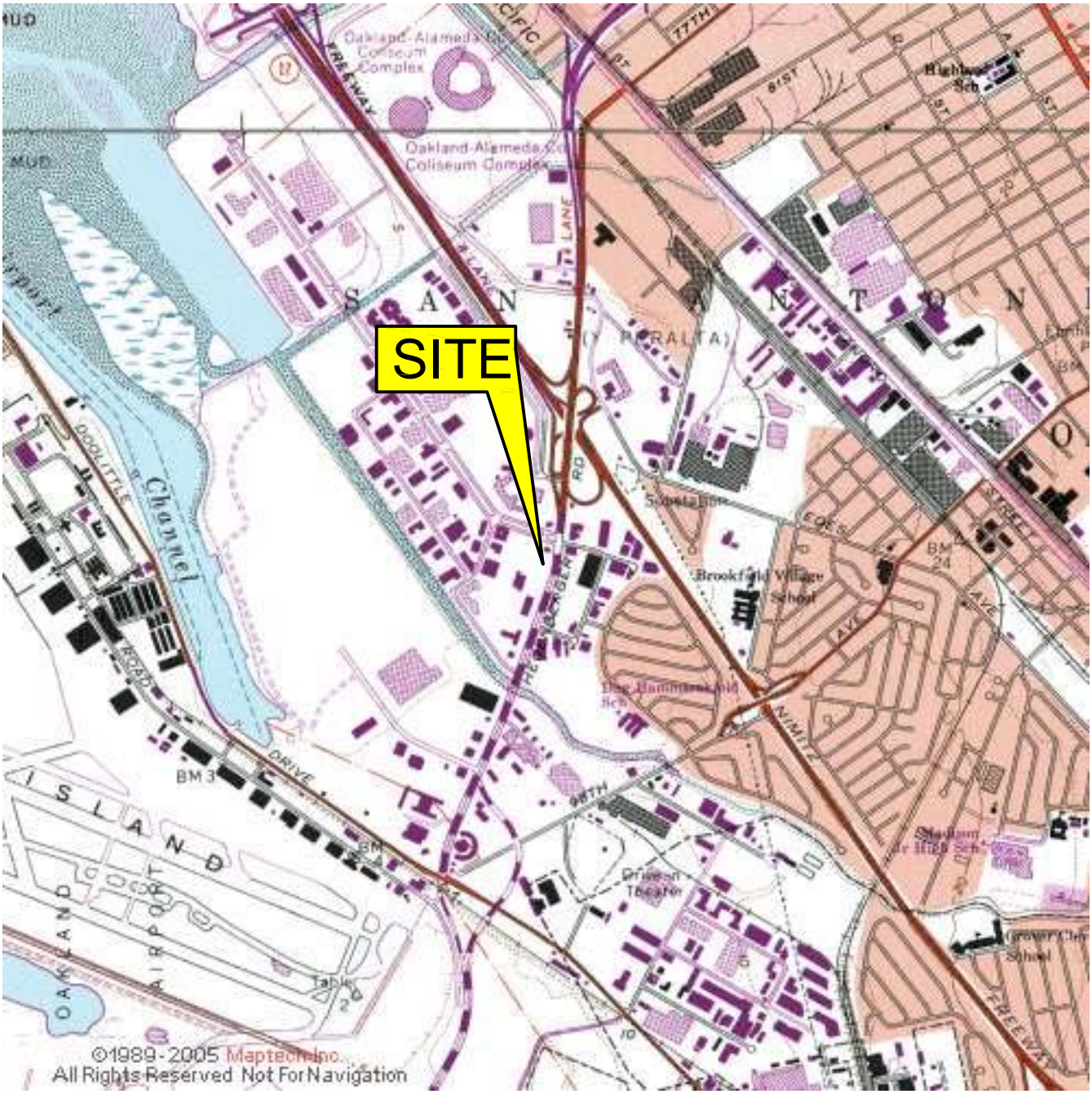
Licensed Approver:

PROFESSIONAL GEOLOGIST
REGINA M. BUSSARD
No. 8288
EXP. 1/31/18
STATE OF CALIFORNIA

Regina Bussard, PG
Project Professional
California Registered Professional Geologist No. 8288
Antea Group

cc: GeoTracker (upload)

Figures



North

0 900 1800 FT
SCALE

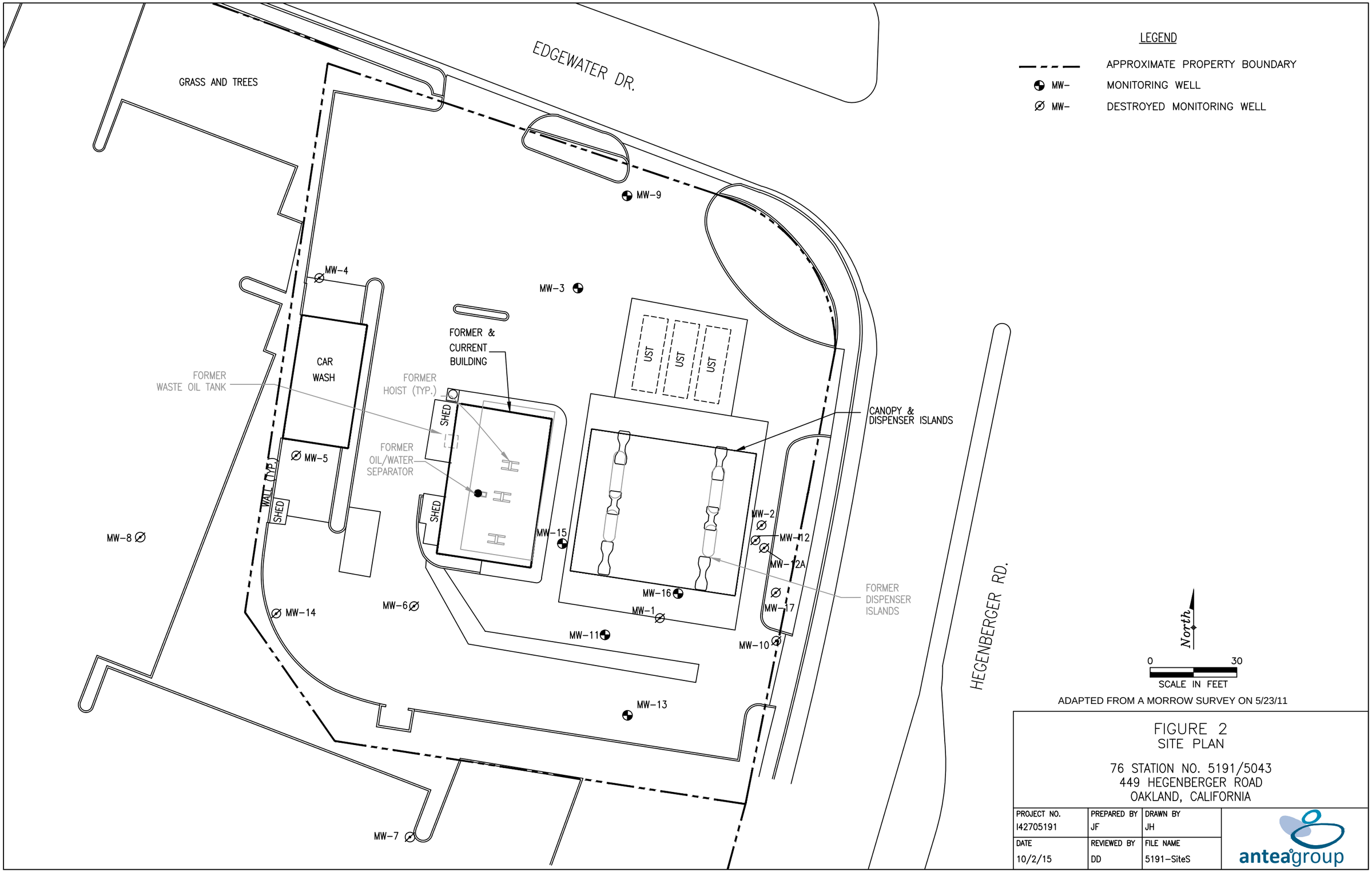
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)

FIGURE 1
SITE LOCATION MAP

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

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

antea group



ADAPTED FROM A MORROW SURVEY ON 5/23/11

FIGURE 2
SITE PLAN

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

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	JF	JH
DATE	REVIEWED BY	FILE NAME
10/2/15	DD	5191-SiteS

antea group

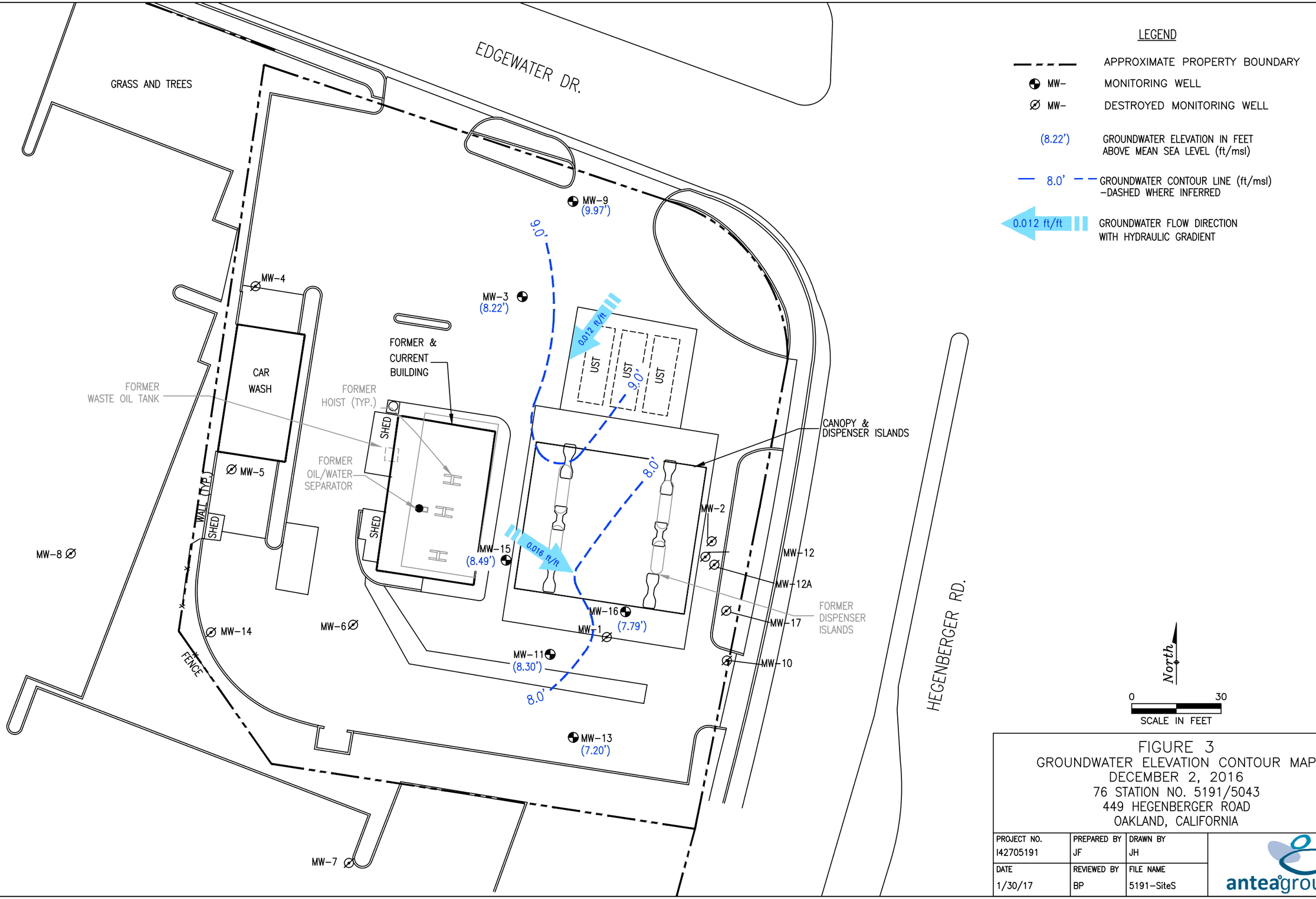
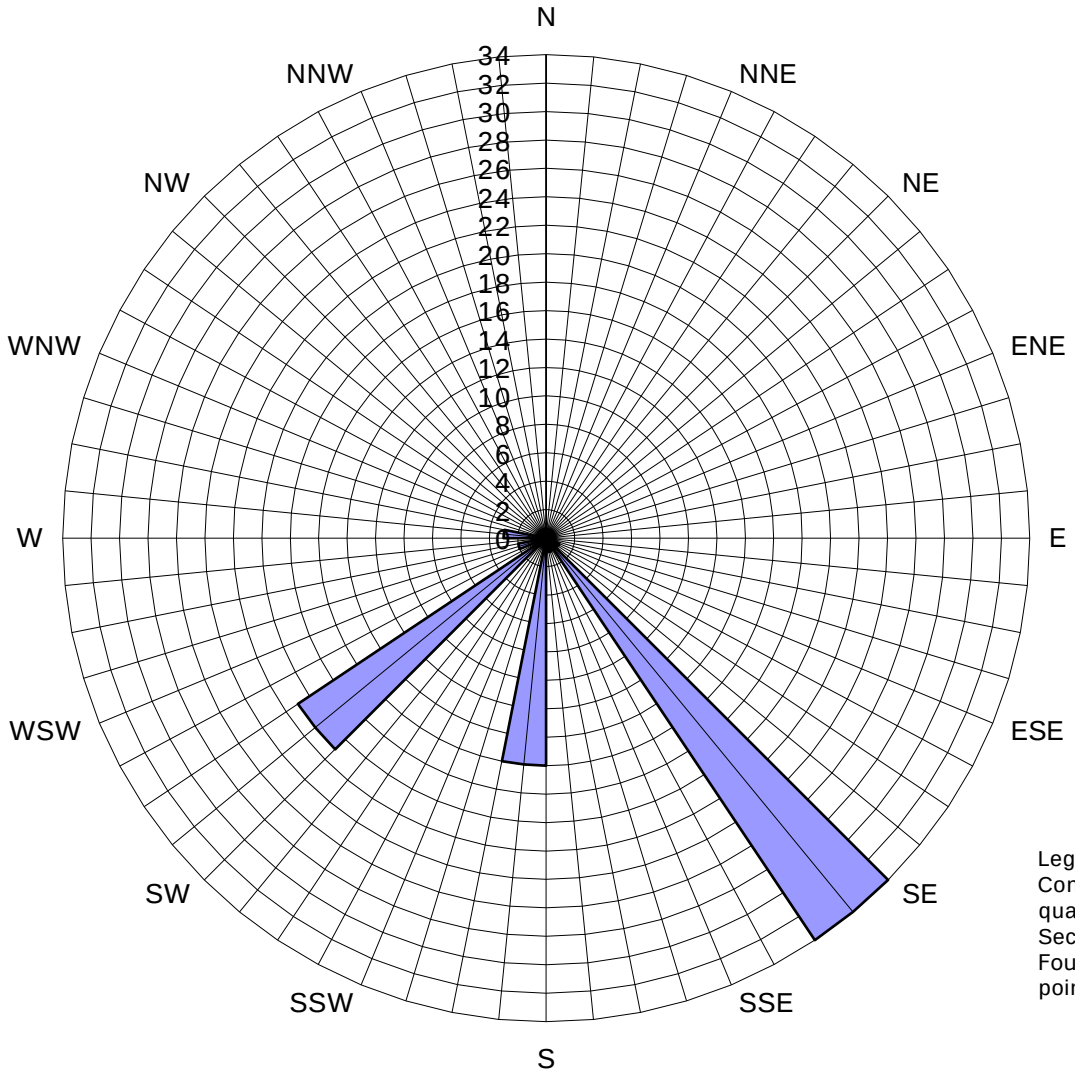


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
DECEMBER 2, 2016
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	JF	JH
DATE	REVIEWED BY	FILE NAME
1/30/17	BP	5191-SiteS

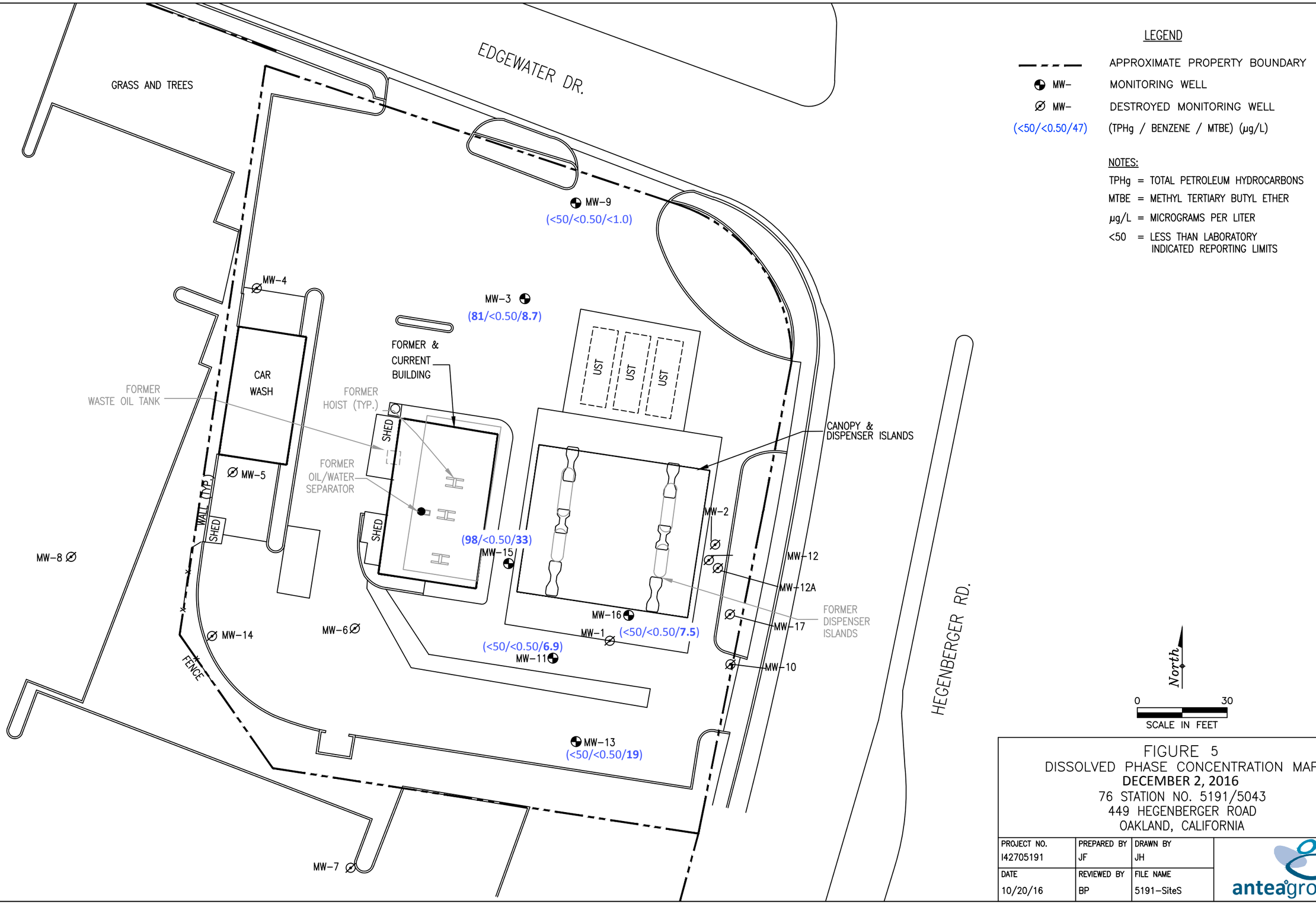
antea group

Figure 4
Historical Groundwater Flow Directions
76 Station No. 5191/5043
449 Hegenberger Road
Oakland, California



Legend
Concentric circles represent quarterly montoring events Second Quarter 1992 through Fourth Quarter 2016. 78 data points shown

Groundwater Flow Direction



LEGEND

▬ ▬ ▬	APPROXIMATE PROPERTY BOUNDARY
⊕ MW–	MONITORING WELL
⊘ MW–	DESTROYED MONITORING WELL
(<50/<0.50/47)	(TPHg / BENZENE / MTBE) (µg/L)

NOTES:

TPHg = TOTAL PETROLEUM HYDROCARBONS
MTBE = METHYL TERTIARY BUTYL ETHER
µg/L = MICROGRAMS PER LITER
<50 = LESS THAN LABORATORY INDICATED REPORTING LIMITS

FIGURE 5
DISSOLVED PHASE CONCENTRATION MAP
DECEMBER 2, 2016
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142705191	JF	JH
DATE	REVIEWED BY	FILE NAME
10/20/16	BP	5191-SiteS

antea group

Tables

TABLE 1
WELL CONSTRUCTION DETAILS
76 STATION NO. 5191/5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

Well I.D.	Drill Date	Well		Screen		Screen Length	Comments
		Depth (feet bgs)	Diameter (inches)	Top (feet bgs)	Bottom (feet bgs)	(feet)	
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	Destroyed
MW-7	04/21/97	13.0	2	3.0	13.0	10.0	Destroyed
MW-8	04/21/97	15.0	2	3.0	15.0	12.0	Destroyed
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	Destroyed
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	Destroyed
MW-12A	06/23/10	34.0	2	30.0	34.0	4.0	Destroyed
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	Destroyed
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	Destroyed

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 ELEVATION DATA						GROUNDWATER ANALYTICAL DATA								
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	12/2/2016	10.81	2.59	NP	--	8.22	--	< 48	**81**	< 0.50	< 1.0	< 1.0	< 1.0	**8.7**	**24**	< 100
MW-9	12/2/2016	10.94	0.97	NP	--	9.97	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 100
MW-11	12/2/2016	10.53	2.23	NP	--	8.30	--	< 46	< 50	< 0.50	< 1.0	< 1.0	< 1.0	**6.9**	< 10	< 100
MW-13	12/2/2016	11.08	3.88	NP	--	7.20	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	**19**	**63**	< 100
MW-15	12/2/2016	11.11	2.62	NP	--	8.49	--	**240 HD**	**98**	< 0.50	< 1.0	< 1.0	< 1.0	**33**	**24**	< 100
MW-16	12/2/2016	10.98	3.19	NP	--	7.79	--	**230 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	**7.5**	**140**	< 100

Gauging Notes:
TOC - Top of Casing
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, also known as Gasoline Range Organics (GRO)
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
Bold - Above the laboratory's indicated reporting limit
HD - The chromatographic pattern was inconsistent with the profile of the reference fuel standard

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	--	--	--	--	--	NG	**13,000**	**150,000**	**17,000**	**26,000**	**5,200**	**26,000**	--	--	--	--	--	--	--	--	--
MW-1	5/20/1992	--	--	--	--	--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/31/1992	--	--	--	--	--	NG	**8,900**	**64,000**	**13,000**	**12,000**	**2,500**	**22,000**	--	--	--	--	--	--	--	--	--
MW-1	11/30/1992	--	--	--	--	--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/4/1993	--	--	--	--	--	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	5/4/1993	8.96	2.13	2.03	0.10	6.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/4/1993	8.96	2.92	2.89	0.03	6.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/3/1993	7.38	3.04	NP	--	4.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/7/1994	7.38	2.55	2.52	0.03	4.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	5/19/1994	7.38	2.23	2.22	0.01	5.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	6/25/1994	7.38	2.49	2.48	0.01	4.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	7/27/1994	7.38	3.10	NP	--	4.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/15/1994	7.38	2.85	2.74	0.11	4.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/14/1994	7.38	2.97	2.85	0.12	4.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/21/1995	7.38	1.53	1.51	0.02	5.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	5/18/1995	7.38	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/18/1992	--	--	--	--	--	NG	**4,300**	**29,000**	**1,000**	**5,300**	**260**	**7,900**	--	--	--	--	--	--	--	--	--
MW-2	5/20/1992	--	--	--	--	--	NG	**4,300**	**24,000**	**2,200**	**7,600**	**630**	**11,000**	--	--	--	--	--	--	--	--	--
MW-2	8/31/1992	--	--	--	--	--	NG	**1,600**	**9,000**	**1,800**	**640**	**140**	**2,000**	--	--	--	--	--	--	--	--	--
MW-2	11/30/1992	--	--	--	--	--	NG	**5,700**	**29,000**	**2,000**	**3,400**	**1,200**	**6,900**	--	--	--	--	--	--	--	--	--
MW-2	2/4/1993	--	--	--	--	--	NG	**6,100**	**18,000**	**1,600**	**3,000**	ND	**6,900**	--	--	--	--	--	--	--	--	--
MW-2	5/4/1993	8.96	2.48	NP	--	6.48	--	**7,100**	**63,000**	**3,200**	**17,000**	**470**	**17,000**	--	--	--	--	--	--	--	--	--
MW-2	8/4/1993	8.96	3.20	NP	--	5.76	--	**1,800**	**45,000**	**2,100**	**6,600**	**1,400**	**12,000**	--	--	--	--	--	--	--	--	--
MW-2	11/3/1993	8.58	3.37	NP	--	5.21	--	**2,600**	**72,000**	**3,700**	**16,000**	**3,700**	**20,000**	--	--	--	--	--	--	--	--	--
MW-2	2/7/1994	8.58	2.40	NP	--	6.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	5/19/1994	8.58	2.13	NP	--	6.45	--	**3,000**	**42,000**	**2,500**	**1,300**	**2,300**	**13,000**	--	--	--	--	--	--	--	--	--
MW-2	6/25/1994	8.58	2.65	NP	--	5.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	7/27/1994	8.58	3.44	NP	--	5.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/1994	8.58	3.25	NP	--	5.33	--	**2,800**	**35,000**	**2,400**	**850**	**1,700**	**15,000**	--	--	--	--	--	--	--	--	--
MW-2	11/14/1994	8.58	2.13	NP	--	6.45	--	**10,000**	**43,000**	**2,200**	**6,500**	**1,800**	**14,000**	--	--	--	--	--	--	--	--	--
MW-2	2/21/1995	8.58	1.65	NP	--	6.93	--	**2,000**	**44,000**	**2,200**	**3,200**	**1,300**	**1,500**	--	--	--	--	--	--	--	--	--
MW-2	5/18/1995	8.58	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/18/1992	--	--	--	--	--	NG	ND	**230**	**4.8**	**22**	**1.8**	**33**	--	--	--	--	--	--	--	--	--
MW-3	5/20/1992	--	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/31/1992	--	--	--	--	--	NG	**92**	**210**	**1**	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	11/30/1992	--	--	--	--	--	NG	**94**	**790**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	2/4/1993	--	--	--	--	--	NG	**550**	**3,300**	**320**	ND	**96**	**6.1**	--	--	--	--	--	--	--	--	--
MW-3	5/4/1993	7.84	4.32	NP	--	3.52	--	**250**	**1,800**	**95**	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	8/4/1993	7.84	4.94	NP	--	2.90	--	**100**	**210**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	11/3/1993	7.42	4.53	NP	--	2.89	--	**160**	**640**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	2/7/1994	7.42	2.40	NP	--	5.02	--	**620**	**2,700**	**110**	ND	**17**	ND	--	--	--	--	--	--	--	--	--
MW-3	5/19/1994	7.42	3.60	NP	--	3.82	--	**480**	**1,800**	**83**	ND	**6.2**	**9.1**	--	--	--	--	--	--	--	--	--
MW-3	6/25/1994	7.42	4.58	NP	--	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	7/27/1994	7.42	4.58	NP	--	2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/1994	7.42	4.65	NP	--	2.77	--	**110**	**130**	**1.1**	**0.54**	ND	**0.97**	--	--	--	--	--	--	--	--	--
MW-3	11/14/1994	7.42	3.18	NP	--	4.24	--	**150**	**1,600**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	2/21/1995	7.42	1.81	NP	--	5.61	--	**850**	**3,800**	**350**	ND	**130**	**22**	--	--	--	--	--	--	--	--	--
MW-3	5/18/1995	7.42	4.56	NP	--	2.86	--	**150**	**1,300**	**42**	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	8/17/1995	7.42	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	7/26/1996	7.42	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	10/28/1996	7.42	--	--	--	--	WO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	1/29/1997	7.42	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	4/15/1997	7.42	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	5/27/1997	7.42	3.45	NP	--	3.97	--	--	**670**	**6.5**	ND	ND	ND	**250**	--	--	--	--	--	--	--	--
MW-3	6/1/1997	7.42	3.50	NP	--	3.92	--	**610**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	7/15/1997	8.04	3.71	NP	--	4.33	--	**240**	**240**	ND	ND	ND	ND	**490**	--	--	--	--	--	--	--	--
MW-3	10/9/1997	8.04	3.70	NP	--	4.34	--	**500**	**270**	**1.1**	ND	**2.4**	**1.4**	**910**	--	--	--	--	--	--	--	--
MW-3	1/14/1998	8.04	2.16	NP	--	5.88	--	**340**	**310**	ND	ND	**0.62**	**0.65**	**140**	--	--	--	--	--	--	--	--
MW-3	4/1/1998	8.04	2.20	NP	--	5.84	--	**320**	**370**	**5.7**	ND	ND	ND	**93**	--	--	--	--	--	--	--	--
MW-3	7/15/1998	8.04	3.38	NP	--	4.66	--	**510**	**460**	ND	ND	ND	ND	**230**	--	--	--	--	--	--	--	--
MW-3	10/16/1998	8.04	2.30	NP	--	5.74	--	**67**	**330**	**4.7**	ND	ND	ND	**60**	--	--	--	--	--	--	--	--
MW-3	1/25/1999	8.04	2.42	NP	--	5.62	--	**120**	**420**	**1.5**	ND	ND	ND	**180**	--	--	--	--	--	--	--	--
MW-3	4/15/1999	8.04	2.16	NP	--	5.88	--	**170**	**290**	**0.54**	ND	ND	ND	**160**	--	--	--	--	--	--	--	--
MW-3	7/14/1999	8.04	2.35	NP	--	5.69	--	**420**	**290**	**3.2**	ND	ND	ND	**160**	--	--	--	--	--	--	--	--
MW-3	10/21/1999	8.04	2.49	NP	--	5.55	--	**350**	**360**	**0.77**	ND	ND	ND	**82**	--	--	--	--	--	--	--	--
MW-3	1/20/2000	8.04	2.38	NP	--	5.66	--	**2,060**	ND	**0.81**	ND	ND	ND	**54**	--	--	--	--	--	--	--	--
MW-3	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

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	7/14/2000	8.04	3.26	NP	--	4.78	--	**423**	**345**	ND	ND	ND	ND	**94.7**	--	--	--	--	--	--	--	--
MW-3	10/26/2000	8.04	3.12	NP	--	4.92	--	**330**	**480**	**6.0**	ND	ND	ND	**120**	--	--	--	--	--	--	--	--
MW-3	1/3/2001	8.04	3.65	NP	--	4.39	--	**287**	**364**	**1.59**	ND	ND	ND	**118**	--	--	--	--	--	--	--	--
MW-3	4/4/2001	8.04	3.98	NP	--	4.06	--	**360**	**417**	**1.24**	ND	ND	**0.802**	**237**	--	--	--	--	--	--	--	--
MW-3	7/17/2001	8.04	3.12	NP	--	4.92	--	**270**	**480**	ND	ND	ND	ND	**150**	--	--	--	--	--	--	--	--
MW-3	10/1/2001	8.04	3.25	NP	--	4.79	--	**270**	**310**	**1.0**	< 0.50	< 0.50	< 0.50	**53**	--	--	--	--	--	--	--	--
MW-3	1/31/2002	8.04	2.27	NP	--	5.77	--	**250**	**250**	**3.5**	< 1.0	< 1.0	< 1.0	**110**	--	--	--	--	--	--	--	--
MW-3	4/18/2002	8.04	3.55	NP	--	4.49	--	**320**	**300**	< 2.0	< 2.0	< 2.0	< 2.0	--	**59**	--	--	--	--	--	--	--
MW-3	7/28/2002	8.04	2.55	NP	--	5.49	--	**310**	**500**	< 0.50	< 0.50	< 0.50	< 1.0	--	**130**	--	--	--	--	--	--	--
MW-3	10/9/2002	8.04	2.47	NP	--	5.57	--	**700**	**690**	< 5	< 5	< 5	< 10	--	**120**	--	--	--	--	--	--	--
MW-3	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
MW-3	4/1/2003	8.04	3.48	NP	--	4.56	--	**200**	**250**	< 1.0	< 1.0	< 1.0	< 2.0	--	**210**	--	--	--	--	--	--	--
MW-3	7/1/2003	8.04	2.65	NP	--	5.39	--	**380**	**450**	< 2.5	< 2.5	< 2.5	< 5.0	--	**70**	--	--	--	--	< 2500	--	--
MW-3	10/2/2003	8.04	3.12	NP	--	4.92	--	**300**	< 250	< 2.5	< 2.5	< 2.5	< 5.0	--	**210**	--	--	--	--	< 2500	--	--
MW-3	1/9/2004	8.04	2.39	NP	--	5.65	--	**200**	**300**	< 0.50	**0.53**	**0.53**	**1.5**	--	**66**	--	--	--	--	< 500	--	--
MW-3	4/26/2004	8.04	3.11	NP	--	4.93	--	**160**	**440**	**2.5**	**5.5**	**2.9**	**9.4**	--	**81**	--	--	--	--	< 50	--	--
MW-3	7/22/2004	8.04	2.51	NP	--	5.53	--	**330**	**420**	< 0.5	< 0.5	< 0.5	< 1	--	**72**	--	--	--	--	< 1000	--	--
MW-3	10/29/2004	8.04	2.00	NP	--	6.04	--	**200**	**460**	**5.6**	**15**	**10**	**46**	--	**48**	--	--	--	--	< 50	--	--
MW-3	1/10/2005	8.04	1.52	NP	--	6.52	--	**250**	**280**	< 0.50	**0.62**	< 0.50	**2.4**	--	**64**	--	--	--	--	< 50	--	--
MW-3	6/15/2005	8.04	2.00	NP	--	6.04	--	**360**	**460**	< 0.50	**0.70**	**0.56**	**1.9**	--	**110**	--	--	--	--	< 50	--	--
MW-3	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	--	--
MW-3	12/13/2005	8.04	2.35	NP	--	5.69	--	**230**	**230**	< 0.50	< 0.50	< 0.50	< 1.0	--	**92**	--	--	--	--	< 250	--	--
MW-3	3/23/2006	8.04	1.84	NP	--	6.20	--	**260**	**290**	< 0.50	< 0.50	< 0.50	< 1.0	--	**88**	--	--	--	--	< 250	--	--
MW-3	6/23/2006	8.04	2.26	NP	--	5.78	--	**330**	**500**	< 0.50	< 0.50	< 0.50	< 1.0	--	**75**	--	--	--	--	< 250	--	--
MW-3	9/26/2006	8.04	2.08	NP	--	5.96	--	**260**	**270**	< 0.50	< 0.50	< 0.50	< 0.50	--	**73**	--	--	--	--	< 250	--	--
MW-3	12/22/2006	8.04	1.88	NP	--	6.16	--	**250**	**260**	< 0.50	< 0.50	< 0.50	**1.2**	--	**71**	--	--	--	--	< 250	--	--
MW-3	3/30/2007	8.04	2.47	NP	--	5.57	--	**210**	**390**	< 0.50	< 0.50	< 0.50	< 0.50	--	**120**	--	--	--	--	< 250	--	--
MW-3	6/28/2007	8.04	2.54	NP	--	5.50	--	**290**	**370**	< 0.50	< 0.50	< 0.50	< 0.50	--	**55**	--	--	--	--	< 250	--	--
MW-3	9/25/2007	8.04	2.56	NP	--	5.48	--	**210**	**350**	< 0.50	< 0.50	< 0.50	< 0.50	--	**61**	--	--	--	--	< 250	--	--
MW-3	12/28/2007	8.04	2.29	NP	--	5.75	--	**150**	**260**	< 0.50	< 0.50	< 0.50	< 1.0	--	**66**	--	--	--	--	< 250	--	--
MW-3	3/22/2008	8.04	3.26	NP	--	4.78	--	**230**	**390**	< 0.50	< 0.50	< 0.50	< 1.0	--	**39**	--	--	--	--	< 250	--	--
MW-3	6/23/2008	8.04	2.60	NP	--	5.44	--	**130**	**200**	< 0.50	< 0.50	< 0.50	< 1.0	--	**46**	--	--	--	--	< 250	--	--
MW-3	9/19/2008	8.04	3.45	NP	--	4.59	--	**93**	**180**	< 0.50	< 0.50	< 0.50	< 1.0	--	**120**	--	--	--	--	< 250	--	--
MW-3	12/31/2008	8.04	2.55	NP	--	5.49	--	**110**	**190**	< 0.50	< 0.50	< 0.50	< 1.0	--	**38**	--	--	--	--	< 250	--	--
MW-3	3/27/2009	8.04	2.37	NP	--	5.67	--	**130**	**150**	< 0.50	< 0.50	< 0.50	< 1.0	--	**50**	--	--	--	--	< 250	--	--
MW-3	5/28/2009	8.04	3.32	NP	--	4.72	--	**120**	**190**	< 0.50	< 0.50	< 0.50	< 1.0	--	**60**	--	--	--	--	< 250	--	--
MW-3	9/17/2009	8.04	2.63	NP	--	5.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/17/2009	8.04	2.13	NP	--	5.91	--	**338**	**300**	< 0.50	< 0.50	**0.78**	< 1.5	--	**43.1**	--	--	--	--	< 250	--	--
MW-3	3/29/2010	8.04	2.22	NP	--	5.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/30/2010	10.81	2.91	NP	--	7.90	--	**89.7**	**261**	< 0.50	< 0.50	< 0.50	< 1.5	--	**89.0**	--	--	--	--	< 250	--	--
MW-3	7/6/2010	10.81	2.66	NP	--	8.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	9/20/2010	10.81	3.12	NP	--	7.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/8/2010	10.81	2.37	NP	--	8.44	--	**137**	**306**	< 0.50	< 0.50	< 0.50	< 1.5	--	**58.8**	--	--	--	--	< 250	--	--
MW-3	3/14/2011	10.81	2.26	NP	--	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	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	--	--
MW-3	9/7/2011	10.81	2.36	NP	--	8.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/5/2011	10.81	2.55	NP	--	8.26	--	**81.7**	**381**	< 0.50	< 0.50	< 0.50	< 1.5	--	**41.8**	--	--	--	--	< 250	--	--
MW-3	3/6/2012	10.81	2.63	NP	--	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	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	--	--
MW-3	9/6/2012	10.81	2.50	NP	--	8.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/13/2012	10.81	2.50	NP	--	8.31	--	< 50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	--	**28**	--	--	--	**77**	< 5.0	--	--
MW-3	3/14/2013	10.81	2.63	NP	--	8.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/11/2013	10.81	3.31	NP	--	7.50	--	< 50	**190**	< 0.50	< 0.50	< 0.50	< 0.50	--	**44**	--	--	--	**97**	< 5.0	--	--
MW-3	9/10/2013	10.81	3.25	NP	--	7.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/12/2013	10.81	2.60	NP	--	8.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	3/4/2014	10.81	2.38	NP	--	8.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-3	9/5/2014	10.81	3.62	NP	--	7.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/22/2014	10.81	2.07	NP	--	8.74	--	< 50	**250**	< 0.50	< 0.50	< 0.50	< 0.50	--	**15**	--	--	--	**35**	< 5.0	--	--
MW-3	3/16/2015	10.81	2.73	NP	--	8.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/11/2015	10.81	3.31	NP	--	7.50	--	**63**	< 250	< 2.5	< 5.0	< 5.0	--	--	**21**	--	--	--	**85**	< 500	--	--
MW-3	12/8/2015	10.81	3.52	NP	--	7.29	--	< 50	< 250	< 2.5	< 5.0	< 5.0	< 5.0	--	**16**	--	--	--	**160**	< 500	--	--
MW-3	3/8/2016	10.81	2.21	NP	--	8.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	6/29/2016	10.81	3.65	NP	--	7.16	--	**65 HD**	**79**	< 0.50	< 1.0	< 1.0	--	--	**23**	--	--	--	**120**	< 100	--	--
MW-3	9/19/2016	10.81	3.21	NP	--	7.60	--	**93 HD**	**400**	< 0.50	< 1.0	< 1.0	< 1.0	--	**21**	--	--	--	**47**	< 100	--	--
MW-3	12/2/2016	10.81	2.59	NP	--	8.22	--	< 48	**81**	< 0.50	< 1.0	< 1.0	< 1.0	--	**8.7**	--	--	--	**24**	< 100	--	--
MW-4	8/31/1992	--	--	--	--	--	NG	**90**	**240**	ND	ND	ND	**0.54**	--	--	--	--	--	--	--	--	--
MW-4	11/30/1992	--	--	--	--	--	NG	**61**	**420**	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 ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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-4	2/4/1993	--	--	--	--	--	NG	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	5/4/1993	9.00	4.09	NP	--	4.91	--	ND	**110**	**0.95**	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	8/4/1993	9.00	5.01	NP	--	3.99	--	**81**	**250**	ND	**3.5**	ND	**4.1**	--	--	--	--	--	--	--	--	--
MW-4	11/3/1993	8.41	4.23	NP	--	4.18	--	**68**	**130**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	2/7/1994	8.41	3.35	NP	--	5.06	--	ND	**56**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	5/19/1994	8.41	3.92	NP	--	4.49	--	**90**	**140**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	6/25/1994	8.41	4.35	NP	--	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/27/1994	8.41	4.28	NP	--	4.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/1994	8.41	4.27	NP	--	4.14	--	**72**	**59**	ND	**0.6**	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	11/14/1994	8.41	4.05	NP	--	4.36	--	ND	**130**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	2/21/1995	8.41	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/31/1992	--	--	--	--	--	NG	**690**	**78**	**0.89**	ND	ND	**13**	--	--	--	--	--	--	--	--	--
MW-5	11/30/1992	--	--	--	--	--	NG	**470**	**930**	**70**	**290**	**0.79**	**14**	--	--	--	--	--	--	--	--	--
MW-5	2/4/1993	--	--	--	--	--	NG	**5,500**	**5,700**	**38**	ND	**620**	**170**	--	--	--	--	--	--	--	--	--
MW-5	5/4/1993	8.95	4.37	NP	--	4.58	--	**4,600**	**7,400**	**41**	ND	**1,000**	**35**	--	--	--	--	--	--	--	--	--
MW-5	8/4/1993	8.95	5.81	NP	--	3.14	--	**970**	**1,500**	**130**	**1**	**460**	**11**	--	--	--	--	--	--	--	--	--
MW-5	11/3/1993	8.95	5.68	NP	--	3.27	--	**2,100**	**13,000**	**350**	ND	**3,500**	**530**	--	--	--	--	--	--	--	--	--
MW-5	2/7/1994	8.95	5.11	NP	--	3.84	--	**830**	**2,000**	**87**	ND	**370**	**110**	--	--	--	--	--	--	--	--	--
MW-5	5/19/1994	8.95	5.09	NP	--	3.86	--	**600**	**260**	**44**	ND	**32**	**4.1**	--	--	--	--	--	--	--	--	--
MW-5	6/25/1994	8.95	4.55	NP	--	4.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/27/1994	8.95	5.72	NP	--	3.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/1994	8.95	5.68	NP	--	3.27	--	**860**	**1,600**	**110**	ND	**340**	**72**	--	--	--	--	--	--	--	--	--
MW-5	11/14/1994	8.95	5.63	NP	--	3.32	--	**290**	**250**	**40**	ND	ND	**5**	--	--	--	--	--	--	--	--	--
MW-5	2/21/1995	8.95	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/31/1992	--	--	--	--	--	NG	**750**	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-6	11/30/1992	--	--	--	--	--	NG	**1,400**	**9,200**	**550**	ND	**740**	**1,600**	--	--	--	--	--	--	--	--	--
MW-6	2/4/1993	--	--	--	--	--	NG	**890**	**3,600**	**340**	ND	**290**	**550**	--	--	--	--	--	--	--	--	--
MW-6	5/4/1993	9.12	3.72	NP	--	5.40	--	**1,800**	**4,900**	**360**	**18**	**450**	**430**	--	--	--	--	--	--	--	--	--
MW-6	8/4/1993	9.12	5.15	NP	--	3.97	--	**1,100**	**3,400**	**390**	ND	**440**	**190**	--	--	--	--	--	--	--	--	--
MW-6	11/3/1993	8.87	5.25	NP	--	3.62	--	**390**	**1,400**	**320**	ND	**200**	**7.7**	--	--	--	--	--	--	--	--	--
MW-6	2/7/1994	8.87	4.55	NP	--	4.32	--	**970**	**4,900**	**650**	ND	**250**	**35**	--	--	--	--	--	--	--	--	--
MW-6	5/19/1994	8.87	4.62	NP	--	4.25	--	**1,400**	**3,600**	**300**	**1.7**	**210**	**41**	--	--	--	--	--	--	--	--	--
MW-6	8/15/1994	8.87	5.08	NP	--	3.79	--	**790**	**1,300**	**130**	**6.7**	**54**	**57**	--	--	--	--	--	--	--	--	--
MW-6	11/14/1994	8.87	5.30	NP	--	3.57	--	**800**	**730**	**50**	ND	ND	**39**	--	--	--	--	--	--	--	--	--
MW-6	2/21/1995	8.87	5.37	NP	--	3.50	--	**730**	**2,000**	**250**	**4.6**	**25**	**30**	--	--	--	--	--	--	--	--	--
MW-6	5/18/1995	8.87	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/17/1995	8.87	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/26/1996	8.87	6.40	3.07	3.33	4.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/28/1996	8.87	4.10	3.89	0.21	4.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/13/1996	8.87	4.02	3.77	0.25	5.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/25/1996	8.87	4.01	3.26	0.75	5.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/4/1996	8.87	3.65	3.15	0.50	5.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/19/1996	8.87	4.80	2.60	2.20	5.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/8/1997	8.87	4.84	3.09	1.75	5.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/14/1997	8.87	4.51	3.36	1.15	5.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/27/1997	8.87	4.00	2.25	1.75	6.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/29/1997	8.87	3.24	2.93	0.31	5.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/11/1997	8.87	4.65	3.45	1.20	5.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/24/1997	8.87	4.81	3.71	1.10	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/10/1997	8.87	4.60	3.65	0.95	4.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/17/1997	8.87	4.50	3.61	0.89	5.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/31/1997	8.87	4.65	3.65	1.00	4.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/15/1997	8.87	4.90	3.87	1.03	4.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/28/1997	8.87	4.78	4.75	0.03	4.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/15/1997	8.87	4.60	4.35	0.25	4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/27/1997	8.87	4.50	4.25	0.25	4.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/9/1997	8.87	4.60	4.40	0.20	4.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/24/1997	8.87	4.50	4.25	0.25	4.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/9/1997	8.87	4.80	4.20	0.60	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/15/1997	8.87	4.63	4.21	0.42	4.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/21/1997	8.87	4.75	4.50	0.25	4.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/6/1997	8.87	4.50	4.40	0.10	4.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/20/1997	8.87	4.55	4.45	0.10	4.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/2/1997	8.87	4.75	4.70	0.05	4.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/9/1997	8.87	4.84	4.80	0.04	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/14/1998	8.87	3.90	2.96	0.94	5.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/12/1998	8.87	3.35	2.71	0.64	6.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	3/3/1998	8.87	4.51	4.49	0.02	4.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/1/1998	8.87	3.67	2.07	1.60	6.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/26/1998	8.87	4.11	3.61	0.50	5.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/15/1998	8.87	5.03	4.73	0.30	4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/15/1998	8.87	4.56	4.51	0.05	4.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/21/1998	8.87	4.77	4.75	0.02	4.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/30/1998	8.87	5.08	5.05	0.03	3.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/16/1998	8.87	4.31	1.91	2.40	6.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/6/1998	8.87	3.98	3.81	0.17	5.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/25/1998	8.87	3.92	3.82	0.10	5.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/28/1998	8.87	3.90	3.70	0.20	5.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/25/1999	8.87	4.18	3.58	0.60	5.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/22/1999	8.87	4.07	3.85	0.22	4.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/22/1999	8.87	4.32	4.17	0.15	4.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/15/1999	8.87	4.23	3.28	0.95	5.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	5/28/1999	8.87	4.38	3.99	0.39	4.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/29/1999	8.87	4.12	4.10	0.02	4.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/14/1999	8.87	4.20	4.17	0.03	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/23/1999	8.87	4.51	4.27	0.24	4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/30/1999	8.87	4.17	4.00	0.17	4.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/21/1999	8.87	4.27	4.15	0.12	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/29/1999	8.87	4.18	NP	--	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/20/1999	8.87	4.26	4.25	0.01	4.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	1/20/2000	8.87	4.31	NP	--	4.56	--	**67,600**	**130,000**	**2,900**	**8,600**	**2,000**	**16,000**	ND	--	--	--	--	--	--	--	--
MW-6	2/26/2000	8.87	3.98	NP	--	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/31/2000	8.87	4.14	NP	--	4.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	4/13/2000	8.87	4.04	NP	--	4.83	--	**8,700**	**140,000**	**5,000**	**14,000**	**3,600**	**27,000**	**7,700**	--	--	--	--	--	--	--	--
MW-6	5/26/2000	8.87	4.41	NP	--	4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/17/2000	8.87	4.35	NP	--	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	7/14/2000	8.87	4.47	NP	--	4.40	--	**133,000**	**259,000**	**7,670**	**13,700**	**6,860**	**40,700**	ND	ND	--	--	--	--	--	--	--
MW-6	8/24/2000	8.87	3.71	NP	--	5.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/27/2000	8.87	4.33	NP	--	4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/26/2000	8.87	4.32	NP	--	4.55	--	**61,000**	**110,000**	**7,000**	**6,200**	**3,700**	**12,000**	**670**	**43**	--	--	--	--	--	--	--
MW-6	1/3/2001	8.87	4.52	NP	--	4.35	--	**929**	**84,700**	**3,950**	**4,130**	**3,650**	**11,800**	ND	ND	--	--	--	--	--	--	--
MW-6	4/4/2001	8.87	4.29	NP	--	4.58	--	**18,000**	**69,800**	**2,060**	**2,840**	**3,650**	**10,900**	ND	**47.8**	ND	ND	ND	ND	ND	ND	ND
MW-6	7/17/2001	8.87	4.37	NP	--	4.50	--	**20,000**	**100,000**	**3,200**	**3,300**	**3,400**	**12,000**	ND	--	--	--	--	--	--	--	--
MW-6	10/1/2001	8.87	4.45	NP	--	4.42	--	**24,000**	**110,000**	**3,200**	**2,400**	**4,500**	**13,000**	< 1000	--	--	--	--	--	--	--	--
MW-6	1/31/2002	8.87	4.03	NP	--	4.84	--	**11,000**	**230,000**	**2,400**	**1,800**	**5,400**	**16,000**	< 2500	--	--	--	--	--	--	--	--
MW-6	4/18/2002	8.87	3.45	NP	--	5.42	--	**3,500**	**94,000**	**6,800**	**13,000**	**3,000**	**19,000**	< 500	--	--	--	--	--	--	--	--
MW-6	7/28/2002	8.87	2.24	NP	--	6.63	--	**27,000**	**110,000**	**530**	**170**	**3,200**	**7,300**	--	< 100	--	--	--	--	--	--	--
MW-6	10/9/2002	8.87	3.53	NP	--	5.34	--	**170,000**	**970,000**	**10,000**	**39,000**	**13,000**	**94,000**	--	< 2000	--	--	--	--	--	--	--
MW-6	1/2/2003	8.87	2.34	NP	--	6.53	--	**66,000**	**270,000**	**6,100**	**15,000**	**5,400**	**37,000**	--	< 200	--	--	--	--	--	--	--
MW-6	4/1/2003	8.87	3.17	NP	--	5.70	--	**35,000**	**3,000,000**	**8,000**	**39,000**	**37,000**	**260,000**	--	< 2000	--	--	--	--	--	--	--
MW-6	7/1/2003	8.87	3.55	NP	--	5.32	--	**11,000**	**38,000**	**2,100**	**990**	**2,700**	**6,500**	--	< 100	--	--	--	--	< 25000	--	--
MW-6	10/2/2003	8.87	3.82	NP	--	5.05	--	< 50	**100,000**	**5,600**	**6,900**	**4,700**	**18,000**	--	< 800	--	--	--	--	< 200000	--	--
MW-6	1/9/2004	8.87	2.80	NP	--	6.07	--	**20,000**	**170,000**	**2,800**	**3,300**	**4,700**	**16,000**	--	< 200	--	--	--	--	< 50000	--	--
MW-6	4/26/2004	8.87	3.40	NP	--	5.47	--	**13,000**	**97,000**	**5,900**	**9,000**	**5,100**	**23,000**	--	< 50	--	--	--	--	< 5000	--	--
MW-6	7/22/2004	8.87	3.54	NP	--	5.33	--	**33,000**	**110,000**	**4,100**	**5,100**	**4,000**	**16,000**	--	< 200	--	--	--	--	< 300000	--	--
MW-6	10/29/2004	8.87	3.03	NP	--	5.84	--	**78,000**	**100,000**	**5,200**	**6,100**	**4,200**	**15,000**	--	< 50	--	--	--	--	< 5000	--	--
MW-6	1/10/2005	8.87	2.35	NP	--	6.52	--	**12,000**	**71,000**	**1,600**	**3,700**	**2,100**	**9,900**	--	< 50	--	--	--	--	< 5000	--	--
MW-6	6/15/2005	8.87	2.47	NP	--	6.40	--	**16,000**	**130,000**	**800**	**1,800**	**2,200**	**9,300**	--	< 50	--	--	--	--	< 5000	--	--
MW-6	9/27/2005	8.87	2.55	NP	--	6.32	--	**2,500**	**13,000**	**82**	**120**	**430**	**990**	--	**0.56**	**1.8**	< 0.50	< 0.50	< 10	< 250	--	--
MW-6	12/13/2005	8.87	3.28	NP	--	5.59	--	**18,000**	**68,000**	**1,500**	**1,100**	**2,200**	**7,700**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	3/23/2006	8.87	2.87	NP	--	6.00	--	**73,000**	**41,000**	**290**	**140**	**1,500**	**2,700**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	6/23/2006	8.87	3.15	NP	--	5.72	--	**35,000**	**50,000**	**2,200**	**1,400**	**1,900**	**5,700**	--	< 12	--	--	--	--	< 6200	--	--
MW-6	9/26/2006	8.87	3.08	NP	--	5.79	--	**22,000**	**130,000**	**2,200**	**1,000**	**2,900**	**8,800**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	12/22/2006	8.87	2.90	NP	--	5.97	--	**62,000**	**90,000**	**940**	**610**	**1,900**	**4,700**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	3/30/2007	8.87	3.26	NP	--	5.61	--	**62,000**	**210,000**	**1,100**	**560**	**3,400**	**12,000**	--	< 10	--	--	--	--	< 5000	--	--
MW-6	6/28/2007	8.87	3.46	NP	--	5.41	--	**71,000**	**67,000**	**2,200**	**1,300**	**2,700**	**10,000**	--	< 25	--	--	--	--	< 12000	--	--
MW-6	9/25/2007	8.87	3.52	NP	--	5.35	--	**58,000**	**56,000**	**2,900**	**720**	**2,400**	**9,000**	--	< 25	--	--	--	--	< 12000	--	--
MW-6	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	--	--
MW-6	3/22/2008	8.87	2.48	NP	--	6.39	--	**68,000**	**66,000**	**380**	**150**	**1,500**	**2,400**	--	< 25	--	--	--	--	< 12000	--	--
MW-6	6/23/2008	8.87	3.54	NP	--	5.33	--	**68,000**	**59,000**	**1,600**	**130**	**1,800**	**4,100**	--	**25**	--	--	--	--	< 12000	--	--
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	--	--
MW-6	12/31/2008	8.87	3.45	NP	--	5.42	--	**68,000**	**91,000**	**2,000**	**320**	**5,300**	**13,000**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	3/27/2009	8.87	3.09	NP	--	5.78	--	**170,000**	**150,000**	**1,300**	**240**	**2,800**	**7,200**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	5/28/2009	8.87	3.49	NP	--	5.38	--	**78,000**	**53,000**	**1,700**	**200**	**2,300**	**5,400**	--	< 50	--	--	--	--	< 25000	--	--
MW-6	9/17/2009	8.87	3.64	NP	--	5.23	--	**250,000**	**77,000**	**2,100**	**1,400**	**2,600**	**8,500**	--	< 12	--	--	--	--	< 6200	--	--
MW-6	12/17/2009	8.87	3.14	NP	--	5.73	--	**30,300**	**59,100**	**1,730**	**199**	**2,260**	**5,460**	--	**20.3**	--	--	--	--	< 250	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	3/29/2010	8.87	3.16	NP	--	5.71	--	**106,000**	**48,400**	**1,980**	**208**	**3,070**	**8,070**	--	**12.1**	--	--	--	--	< 250	--	--
MW-6	6/30/2010	11.55	3.50	NP	--	8.05	--	**170,000**	**78,700**	**2,130**	**281**	**2,860**	**8,400**	--	**5.8**	--	--	--	--	< 250	--	--
MW-6	7/6/2010	11.55	3.49	NP	--	8.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	9/20/2010	11.55	3.75	NP	--	7.80	--	**18800**	**64,500**	**2,300**	**170**	**2,770**	**6,260**	--	**19.3**	--	--	--	--	< 250	--	--
MW-6	12/8/2010	11.55	8.42	NP	--	3.13	--	**28700**	**78,400**	**1,300**	**1,680**	**3,490**	**20,600**	--	**11.3**	--	--	--	--	< 250	--	--
MW-6	3/14/2011	11.55	3.40	NP	--	8.15	--	**93000**	**44,600**	**912**	**338**	**728**	**3,670**	--	**16.3**	--	--	--	**134**	< 250	--	--
MW-6	6/2/2011	11.55	2.76	NP	--	8.79	--	**33700**	**56,200**	**780**	**262**	**651**	**3,890**	--	**6.7**	--	--	--	**81.0**	< 250	--	--
MW-6	9/7/2011	11.55	2.83	NP	--	8.72	--	**6780**	**16,600**	**15.6**	**10.6**	**89.6**	**339**	--	< 0.50	--	--	--	--	< 250	--	--
MW-6	12/5/2011	11.55	3.56	NP	--	7.99	--	**20200**	**64,600**	**646**	**95.4**	**924**	**4,050**	--	**14.9**	--	--	--	--	< 250	--	--
MW-6	3/6/2012	11.55	3.43	NP	--	8.12	--	**14800**	**55,000**	**1,020**	**131**	**1,320**	**4,730**	--	**18.5**	--	--	--	**316**	< 1250	--	--
MW-6	6/11/2012	11.55	3.33	NP	--	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	6/12/2012	--	--	--	--	--	--	**47,100**	**33,400**	**773**	**60.8**	**840**	**3,110**	--	**11.4**	--	--	--	**123**	< 250	--	--
MW-6	9/6/2012	11.55	2.85	NP	--	8.70	--	< 1000	**24,000**	**450**	**51**	**610**	**1,800**	--	**6.4**	< 4.0	< 4.0	< 4.0	**82**	< 40	< 4.0	< 4.0
MW-6	12/13/2012	11.55	2.90	NP	--	8.65	--	**470**	**20,000**	**200**	**16**	**350**	**1,100**	--	< 4.0	--	--	--	**22**	< 40	--	--
MW-6	3/14/2013	11.55	3.69	NP	--	7.86	--	**680**	**24,000**	**500**	**25**	**540**	**1,700**	--	**8.0**	--	--	--	**110**	< 40	--	--
MW-6	6/11/2013	11.55	3.86	NP	--	7.69	--	**2,400**	**87,000**	**1,800**	**250**	**2,000**	**9,400**	--	**13**	--	--	--	**230**	< 40	--	--
MW-6	6/11/2013	--	--	--	--	--	--	**2,800**	**62,000**	**1,600**	**200**	**1,800**	**8,100**	--	**15**	--	--	--	**210**	< 50	--	--
MW-6	9/10/2013	11.55	4.11	NP	--	7.44	--	**470**	**28,000**	**440**	**19**	**530**	**1,500**	--	**10**	--	--	--	**170**	< 40	--	--
MW-6	12/12/2013	11.55	3.55	NP	--	8.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/4/2014	11.55	3.07	NP	--	8.48	--	**580**	**33,000**	**490**	**19**	**620**	**1,800**	--	**13**	--	--	--	**160**	< 50	< 2.5	< 2.5
MW-6	6/12/2014	11.55	3.79	NP	--	7.76	--	570	**35,000**	**390**	**17**	**690**	**1,600**	--	**12**	--	--	--	**180**	< 50	--	--
MW-6	9/5/2014	11.55	4.50	NP	--	7.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/22/2014	11.55	2.55	NP	--	9.00	--	**250**	**49,000**	**2,000**	**120**	**1,600**	**7,700**	--	**9.7**	--	--	--	**150**	< 150	--	--
MW-6	3/16/2015	11.55	3.55	NP	--	8.00	--	--	--	**4,070**	**181**	**3,050**	**15,900**	--	**2.8**	--	--	--	**56.2**	**71.8**	--	--
MW-6	6/11/2015	11.55	4.04	NP	--	7.51	--	**36,000**	**69,000**	**2,300**	**100**	**1,900**	--	--	< 50	--	--	--	< 500	< 5000	--	--
MW-6	7/7/2015	11.55	--	--	--	--	WD	**--.**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--
MW-7	5/27/1997	8.83	4.50	NP	--	4.33	--	--	**68**	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	6/1/1997	8.83	4.54	NP	--	4.29	--	**69**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/15/1997	8.83	4.70	NP	--	4.13	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	10/9/1997	8.83	4.30	NP	--	4.53	--	**190**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	1/14/1998	8.83	2.88	NP	--	5.95	--	**65**	ND	ND	ND	ND	ND	**36**	--	--	--	--	--	--	--	--
MW-7	4/1/1998	8.83	3.13	NP	--	5.70	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	7/15/1998	8.83	4.45	NP	--	4.38	--	**74**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	10/16/1998	8.83	3.45	NP	--	5.38	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	1/25/1999	8.83	3.22	NP	--	5.61	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	4/15/1999	8.83	3.11	NP	--	5.72	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	7/14/1999	8.83	3.34	NP	--	5.49	--	**69**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	10/21/1999	8.83	3.43	NP	--	5.40	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	1/20/2000	8.83	3.29	NP	--	5.54	--	ND	ND	ND	ND	ND	ND	**4.2**	--	--	--	--	--	--	--	--
MW-7	4/13/2000	8.83	3.39	NP	--	5.44	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	7/14/2000	8.83	4.42	NP	--	4.41	--	**68.0**	ND	ND	ND	ND	ND	**7.83**	--	--	--	--	--	--	--	--
MW-7	7/17/2001	8.83	5.06	NP	--	3.77	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	10/1/2001	8.83	4.98	NP	--	3.85	--	< 51	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	--	--	--	--	--	--	--	--
MW-7	1/31/2002	8.83	3.88	NP	--	4.95	--	**90**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	--	--	--	--	--	--	--	--
MW-7	4/18/2002	8.83	4.03	NP	--	4.80	--	**78**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	**5.7**	--	--	--	--	--	--	--	--
MW-7	7/28/2002	8.83	3.59	NP	--	5.24	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.9**	--	--	--	--	--	--	--
MW-7	10/9/2002	8.83	4.53	NP	--	4.30	--	< 96	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.9**	--	--	--	--	--	--	--
MW-7	1/3/2003	8.83	3.36	NP	--	5.47	--	**78**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-7	4/1/2003	8.83	3.94	NP	--	4.89	--	**67**	**71**	< 0.50	< 0.50	**0.71**	< 1.0	--	**3.4**	--	--	--	--	--	--	--
MW-7	7/1/2003	8.83	4.60	NP	--	4.23	--	**68**	**64**	< 0.50	< 0.50	**0.77**	**2.0**	--	**35**	--	--	--	--	< 500	--	--
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	--	--
MW-7	1/9/2004	8.83	3.55	NP	--	5.28	--	**75**	**54**	< 0.50	< 0.50	< 0.50	< 1.0	--	**2.4**	--	--	--	--	< 500	--	--
MW-7	4/26/2004	8.83	4.49	NP	--	4.34	--	< 50	< 50	< 0.50	< 0.50	< 0.50	**1.5**	--	**2.3**	--	--	--	--	< 50	--	--
MW-7	7/22/2004	8.83	4.93	NP	--	3.90	--	< 200	**82**	**0.90**	**2.0**	**3.5**	**9.9**	--	**1.4**	--	--	--	--	< 1000	--	--
MW-7	10/29/2004	8.83	3.71	NP	--	5.12	--	**54**	**210**	**0.67**	**1.6**	**1.7**	**5.8**	--	< 0.50	--	--	--	--	< 50	--	--
MW-7	1/10/2005	8.83	2.77	NP	--	6.06	--	< 50	**74**	**0.51**	**2.2**	**1.7**	**7.0**	--	< 0.50	--	--	--	--	< 50	--	--
MW-7	6/15/2005	8.83	3.40	NP	--	5.43	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**0.88**	--	--	--	--	< 50	--	--
MW-7	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	--	--
MW-7	12/13/2005	8.83	3.98	NP	--	4.85	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**0.65**	--	--	--	--	< 250	--	--
MW-7	3/23/2006	8.83	3.37	NP	--	5.46	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	6/23/2006	8.83	5.25	NP	--	3.58	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	9/26/2006	8.83	4.13	NP	--	4.70	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**0.77**	--	--	--	--	< 250	--	--
MW-7	12/22/2006	8.83	3.63	NP	--	5.20	--	**630**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	3/30/2007	8.83	4.31	NP	--	4.52	--	**94**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	6/28/2007	8.83	4.62	NP	--	4.21	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**0.54**	--	--	--	--	< 250	--	--
MW-7	9/25/2007	8.83	4.65	NP	--	4.18	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	12/28/2007	8.83	3.99	NP	--	4.84	--	**75**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	3/22/2008	8.83	4.08	NP	--	4.75	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	6/23/2008	8.83	4.10	NP	--	4.73	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	9/19/2008	8.83	4.86	NP	--	3.97	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	12/31/2008	8.83	4.17	NP	--	4.66	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	3/27/2009	8.83	4.00	NP	--	4.83	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	5/28/2009	8.83	4.71	NP	--	4.12	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	9/17/2009	8.83	4.87	NP	--	3.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/29/2010	8.83	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	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	--	--
MW-7	7/6/2010	11.64	4.63	NP	--	7.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	9/20/2010	11.64	4.85	NP	--	6.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	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	--	--
MW-7	3/14/2011	11.64	3.81	NP	--	7.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/2/2011	11.64	3.90	NP	--	7.74	--	**63.0**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-7	9/7/2011	11.64	3.72	NP	--	7.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/5/2011	11.64	4.60	NP	--	7.04	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-7	3/6/2012	11.64	4.54	NP	--	7.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/11/2012	11.64	4.93	NP	--	6.71	--	< 37.9	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-7	9/6/2012	11.64	4.03	NP	--	7.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/13/2012	11.64	3.43	NP	--	8.21	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-7	3/14/2013	11.64	4.90	NP	--	6.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	6/11/2013	11.64	6.92	NP	--	4.72	--	**96**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	**7.0**	< 5.0	--	--
MW-7	9/10/2013	11.64	6.54	NP	--	5.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/12/2013	11.64	4.60	NP	--	7.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/4/2014	11.64	3.42	NP	--	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-7	1/26/2016	11.64	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	5/27/1997	8.52	3.42	NP	--	5.10	--	--	**310**	**0.88**	**0.67**	**15**	**70**	ND	--	--	--	--	--	--	--	--
MW-8	6/1/1997	8.52	3.46	NP	--	5.06	--	**320**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	7/15/1997	8.52	3.49	NP	--	5.03	--	ND	ND	ND	ND	**2.7**	**3.8**	ND	--	--	--	--	--	--	--	--
MW-8	10/9/1997	8.52	3.73	NP	--	4.79	--	**390**	**590**	**1.4**	ND	**32**	**4.1**	ND	--	--	--	--	--	--	--	--
MW-8	1/14/1998	8.52	1.92	NP	--	6.60	--	**230**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	4/1/1998	8.52	2.38	NP	--	6.14	--	**510**	ND	ND	ND	ND	ND	**4.7**	--	--	--	--	--	--	--	--
MW-8	7/15/1998	8.52	3.53	NP	--	4.99	--	**140**	ND	ND	ND	**0.56**	**1.1**	ND	--	--	--	--	--	--	--	--
MW-8	10/16/1998	8.52	3.04	NP	--	5.48	--	**170**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	1/25/1999	8.52	2.92	NP	--	5.60	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	4/15/1999	8.52	2.40	NP	--	6.12	--	**91**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	7/14/1999	8.52	3.03	NP	--	5.49	--	**120**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	10/21/1999	8.52	3.11	NP	--	5.41	--	**110**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	1/20/2000	8.52	3.06	NP	--	5.46	--	**583**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	4/13/2000	8.52	2.84	NP	--	5.68	--	**80**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	7/14/2000	8.52	3.39	NP	--	5.13	--	**113**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	7/17/2001	8.52	3.46	NP	--	5.06	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-8	10/1/2001	8.52	3.51	NP	--	5.01	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	--	--	--	--	--	--	--	--
MW-8	1/31/2002	8.52	2.75	NP	--	5.77	--	**260**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	--	--	--	--	--	--	--	--
MW-8	4/18/2002	8.52	2.98	NP	--	5.54	--	**160**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	--	--	--	--	--	--	--	--
MW-8	7/28/2002	8.52	2.41	NP	--	6.11	--	**140**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-8	10/9/2002	8.52	2.09	NP	--	6.43	--	**120**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-8	1/2/2003	8.52	1.98	NP	--	6.54	--	**210**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-8	4/1/2003	8.52	2.66	NP	--	5.86	--	**220**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-8	7/1/2003	8.52	3.08	NP	--	5.44	--	**170**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	< 500	--	--
MW-8	10/2/2003	8.52	3.89	NP	--	4.63	--	**350**	**540**	**3.9**	**15**	**29**	**80**	--	< 2.0	--	--	--	--	< 500	--	--
MW-8	1/9/2004	8.52	2.38	NP	--	6.14	--	**180**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	< 500	--	--
MW-8	4/26/2004	8.52	2.89	NP	--	5.63	--	**100**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 50	--	--
MW-8	7/22/2004	8.52	3.25	NP	--	5.27	--	**250**	< 50	< 0.5	< 0.5	< 0.5	< 1	--	< 0.5	--	--	--	--	< 1000	--	--
MW-8	10/29/2004	8.52	3.06	NP	--	5.46	--	**120**	< 50	< 0.50	< 0.50	**0.82**	**2.5**	--	< 0.50	--	--	--	--	< 50	--	--
MW-8	1/10/2005	8.52	1.92	NP	--	6.60	--	**140**	**58**	< 0.50	**0.61**	**1.2**	**4.0**	--	< 0.50	--	--	--	--	< 50	--	--
MW-8	6/15/2005	8.52	2.22	NP	--	6.30	--	**140**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 50	--	--
MW-8	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	--	--
MW-8	12/13/2005	8.52	2.89	NP	--	5.63	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/23/2006	8.52	2.12	NP	--	6.40	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	6/23/2006	8.52	2.65	NP	--	5.87	--	< 230	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	9/26/2006	8.52	2.75	NP	--	5.77	--	**110**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	12/22/2006	8.52	2.58	NP	--	5.94	--	**100**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/30/2007	8.52	2.74	NP	--	5.78	--	**120**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	6/28/2007	8.52	2.90	NP	--	5.62	--	**140**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	9/25/2007	8.52	3.26	NP	--	5.26	--	**110**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	12/28/2007	8.52	2.64	NP	--	5.88	--	**110**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/22/2008	8.52	2.31	NP	--	6.21	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	6/23/2008	8.52	3.13	NP	--	5.39	--	< 58	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	9/19/2008	8.52	3.72	NP	--	4.80	--	**79**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	12/31/2008	8.52	2.98	NP	--	5.54	--	**110**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/27/2009	8.52	2.49	NP	--	6.03	--	**89**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	5/28/2009	8.52	3.12	NP	--	5.40	--	**91**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	9/17/2009	8.52	3.63	NP	--	4.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/29/2010	8.52	--	--	--	--	WI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/30/2010	11.32	2.60	NP	--	8.72	--	**182**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	7/6/2010	11.32	3.03	NP	--	8.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	9/20/2010	11.32	3.33	NP	--	7.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/8/2010	11.32	2.82	NP	--	8.50	--	**116**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-8	3/14/2011	11.32	3.84	NP	--	7.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/2/2011	11.32	2.77	NP	--	8.55	--	**168**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-8	9/7/2011	11.32	2.84	NP	--	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	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	--	--
MW-8	3/6/2012	11.32	3.07	NP	--	8.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	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	--	--
MW-8	9/6/2012	11.32	2.91	NP	--	8.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	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	--	--
MW-8	3/14/2013	11.32	3.19	NP	--	8.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	6/11/2013	11.32	3.40	NP	--	7.92	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-8	9/10/2013	11.32	3.54	NP	--	7.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/12/2013	11.32	2.80	NP	--	8.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	3/4/2014	11.32	2.88	NP	--	8.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-8	1/26/2016	11.32	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	2/21/1995	8.29	1.98	NP	--	6.31	--	**71**	**70**	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	5/18/1995	8.29	3.47	NP	--	4.82	--	ND	**52**	ND	**1.1**	ND	**1.9**	--	--	--	--	--	--	--	--	--
MW-9	8/17/1995	8.29	1.49	NP	--	6.80	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	7/26/1996	8.29	0.28	NP	--	8.01	--	**98**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	10/28/1996	8.29	1.15	NP	--	7.14	--	**99**	ND	ND	ND	ND	ND	**7.6**	--	--	--	--	--	--	--	--
MW-9	1/29/1997	8.29	1.05	NP	--	7.24	--	**54**	ND	ND	ND	ND	ND	**5.4**	--	--	--	--	--	--	--	--
MW-9	4/15/1997	8.29	1.88	NP	--	6.41	--	**94**	ND	ND	ND	ND	ND	**5.4**	--	--	--	--	--	--	--	--
MW-9	5/27/1997	8.29	1.05	NP	--	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	7/15/1997	8.29	1.90	NP	--	6.39	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	10/9/1997	8.29	1.76	NP	--	6.53	--	**160**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	1/14/1998	8.29	1.26	NP	--	7.03	--	**110**	ND	ND	ND	ND	ND	**3.0**	--	--	--	--	--	--	--	--
MW-9	4/1/1998	8.29	0.85	NP	--	7.44	--	**110**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	7/15/1998	8.29	1.52	NP	--	6.77	--	**200**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	10/16/1998	8.29	0.81	NP	--	7.48	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	1/25/1999	8.29	0.92	NP	--	7.37	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	4/15/1999	8.29	0.90	NP	--	7.39	--	ND	**75**	**21**	ND	ND	**1.1**	**680**	--	--	--	--	--	--	--	--
MW-9	7/14/1999	8.29	1.04	NP	--	7.25	--	**140**	ND	**1.9**	ND	ND	ND	**260**	--	--	--	--	--	--	--	--
MW-9	10/21/1999	8.29	1.23	NP	--	7.06	--	**210**	ND	ND	ND	ND	ND	**170**	--	--	--	--	--	--	--	--
MW-9	1/20/2000	8.29	1.18	NP	--	7.11	--	**519**	ND	**1.1**	ND	ND	ND	**35**	--	--	--	--	--	--	--	--
MW-9	4/13/2000	8.29	1.08	NP	--	7.21	--	**81**	**160**	**0.64**	ND	ND	ND	**53**	--	--	--	--	--	--	--	--
MW-9	7/14/2000	8.29	1.43	NP	--	6.86	--	**107**	ND	ND	ND	ND	ND	**20.2**	--	--	--	--	--	--	--	--
MW-9	10/26/2000	8.29	1.38	NP	--	6.91	--	**240**	**240**	**2.9**	ND	ND	ND	**56**	--	--	--	--	--	--	--	--
MW-9	1/3/2001	8.29	1.66	NP	--	6.63	--	**164**	**166**	**0.763**	**0.776**	ND	**1.28**	**50.2**	--	--	--	--	--	--	--	--
MW-9	4/4/2001	8.29	1.27	NP	--	7.02	--	**240**	**296**	**0.738**	ND	ND	**0.907**	**135**	--	--	--	--	--	--	--	--
MW-9	7/17/2001	8.29	1.38	NP	--	6.91	--	ND	ND	ND	ND	ND	ND	**13**	--	--	--	--	--	--	--	--
MW-9	10/1/2001	8.29	1.93	NP	--	6.36	--	< 52	**51**	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**	--	--	--	--	--	--	--	--
MW-9	1/31/2002	8.29	2.08	NP	--	6.21	--	**200**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	--	--	--	--	--	--	--	--
MW-9	4/18/2002	8.29	1.76	NP	--	6.53	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	--	--	--	--	--	--	--	--
MW-9	7/28/2002	8.29	1.57	NP	--	6.72	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.5**	--	--	--	--	--	--	--
MW-9	10/9/2002	8.29	1.45	NP	--	6.84	--	**100**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**17**	--	--	--	--	--	--	--
MW-9	1/2/2003	8.29	1.18	NP	--	7.11	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**8.6**	--	--	--	--	--	--	--
MW-9	4/1/2003	8.29	2.04	NP	--	6.25	--	**56**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**9.4**	--	--	--	--	--	--	--
MW-9	7/1/2003	8.29	2.80	NP	--	5.49	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.2**	--	--	--	--	< 500	--	--
MW-9	10/2/2003	8.29	2.70	NP	--	5.59	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	< 500	--	--
MW-9	1/9/2004	8.29	1.90	NP	--	6.39	--	**91**	**74**	< 0.50	**0.98**	**2.3**	**6.2**	--	< 2.0	--	--	--	--	< 500	--	--
MW-9	4/26/2004	8.29	1.62	NP	--	6.67	--	< 50	**51**	< 0.50	< 0.50	< 0.50	< 1.0	--	**0.51**	--	--	--	--	< 50	--	--
MW-9	7/22/2004	8.29	1.88	NP	--	6.41	--	< 200	< 50	< 0.5	< 0.5	< 0.5	< 1	--	**0.78**	--	--	--	--	< 1000	--	--
MW-9	10/29/2004	8.29	1.28	NP	--	7.01	--	**76**	< 50	< 0.50	< 0.50	< 0.50	**1.0**	--	< 0.50	--	--	--	--	< 50	--	--
MW-9	1/10/2005	8.29	0.07	NP	--	8.22	--	**77**	**93**	**0.60**	**2.3**	**2.4**	**9.0**	--	< 0.50	--	--	--	--	< 50	--	--
MW-9	6/15/2005	8.29	1.70	NP	--	6.59	--	**67**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**6.6**	--	--	--	--	< 50	--	--
MW-9	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	--	--
MW-9	12/13/2005	8.29	2.26	NP	--	6.03	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**2.9**	--	--	--	--	< 250	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	3/23/2006	8.29	1.32	NP	--	6.97	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**2.7**	--	--	--	--	< 250	--	--
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	--	--
MW-9	9/26/2006	8.29	2.52	NP	--	5.77	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	12/22/2006	8.29	1.98	NP	--	6.31	--	**150**	< 50	< 0.50	**0.57**	**1.8**	**4.6**	--	**1.6**	--	--	--	--	< 250	--	--
MW-9	3/30/2007	8.29	2.01	NP	--	6.28	--	**72**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**3.4**	--	--	--	--	< 250	--	--
MW-9	6/28/2007	8.29	1.90	NP	--	6.39	--	**1000**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**4.9**	--	--	--	--	< 250	--	--
MW-9	9/25/2007	8.29	1.57	NP	--	6.72	--	**100**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	12/28/2007	8.29	1.98	NP	--	6.31	--	**56**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	3/22/2008	8.29	0.80	NP	--	7.49	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**0.61**	--	--	--	--	< 250	--	--
MW-9	6/23/2008	8.29	1.80	NP	--	6.49	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	9/19/2008	8.29	2.43	NP	--	5.86	--	**56**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	**3.9**	--	--	--	--	< 250	--	--
MW-9	12/31/2008	8.29	2.66	NP	--	5.63	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	3/27/2009	8.29	2.01	NP	--	6.28	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	5/28/2009	8.29	2.20	NP	--	6.09	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	9/17/2009	8.29	1.83	NP	--	6.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/17/2009	8.29	1.52	NP	--	6.77	--	**105**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	--	< 250	--	--
MW-9	3/29/2010	8.29	2.21	NP	--	6.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	7/6/2010	10.94	2.02	NP	--	8.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	9/20/2010	10.94	2.03	NP	--	8.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	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	--	--
MW-9	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	--	--
MW-9	9/7/2011	10.94	2.46	NP	--	8.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	3/6/2012	10.94	3.03	NP	--	7.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	9/6/2012	10.94	1.24	NP	--	9.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	3/14/2013	10.94	2.38	NP	--	8.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	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	--	--
MW-9	9/10/2013	10.94	2.63	NP	--	8.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/12/2013	10.94	1.78	NP	--	9.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	3/4/2014	10.94	1.93	NP	--	9.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-9	9/5/2014	10.94	3.49	NP	--	7.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/22/2014	10.94	1.58	NP	--	9.36	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**5.2**	--	--	--	< 5.0	< 5.0	--	--
MW-9	3/16/2015	10.94	2.42	NP	--	8.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/11/2015	10.94	2.95	NP	--	7.99	--	< 50	< 100	< 1.0	< 2.0	< 2.0	--	--	**3.8**	--	--	--	< 20	< 200	--	--
MW-9	12/8/2015	10.94	3.09	NP	--	7.85	--	< 54	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**4.6**	--	--	--	< 10	< 100	--	--
MW-9	3/8/2016	10.94	1.41	NP	--	9.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/28/2016	10.94	2.94	NP	--	8.00	--	**380 HD**	< 50	< 0.50	< 1.0	< 1.0	--	--	**4.0**	--	--	--	< 10	< 100	--	--
MW-9	9/19/2016	10.94	2.28	NP	--	8.66	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	--	< 10	< 100	--	--
MW-9	12/2/2016	10.94	0.97	NP	--	9.97	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	--	< 10	< 100	--	--
MW-10	2/21/1995	8.62	4.69	NP	--	3.93	--	**270**	**1,500**	**250**	**26**	**9.1**	**160**	--	--	--	--	--	--	--	--	--
MW-10	5/18/1995	8.62	4.92	NP	--	3.70	--	**75**	**810**	**520**	ND	**18**	**23**	--	--	--	--	--	--	--	--	--
MW-10	8/17/1995	8.62	4.05	NP	--	4.57	--	ND	**67**	**25**	ND	**2.4**	ND	--	--	--	--	--	--	--	--	--
MW-10	7/26/1996	8.62	4.08	NP	--	4.54	--	ND	ND	**3.7**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-10	10/28/1996	8.62	4.09	NP	--	4.53	--	ND	ND	**1.1**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-10	1/29/1997	8.62	2.94	NP	--	5.68	--	ND	**210**	**41**	**0.67**	**7.2**	**4.8**	**11**	--	--	--	--	--	--	--	--
MW-10	4/15/1997	8.62	4.07	NP	--	4.55	--	ND	**110**	**12**	ND	**0.77**	ND	**9.7**	--	--	--	--	--	--	--	--
MW-10	5/27/1997	8.62	4.40	NP	--	4.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	7/15/1997	8.62	4.19	NP	--	4.43	--	ND	ND	**2.1**	ND	**0.67**	**0.73**	ND	--	--	--	--	--	--	--	--
MW-10	10/9/1997	8.62	4.75	NP	--	3.87	--	ND	**190**	**38**	**0.92**	**6.6**	**7.6**	ND	--	--	--	--	--	--	--	--
MW-10	1/14/1998	8.62	2.66	NP	--	5.96	--	--	**59**	**9.5**	**0.85**	**1.2**	**1.7**	**4.5**	--	--	--	--	--	--	--	--
MW-10	4/1/1998	8.62	3.45	NP	--	5.17	--	**62**	**230**	**66**	**1.7**	**12**	**17**	**6.4**	--	--	--	--	--	--	--	--
MW-10	7/15/1998	8.62	4.21	NP	--	4.41	--	**78**	**290**	**98**	**45**	**21**	**38**	**21**	--	--	--	--	--	--	--	--
MW-10	10/16/1998	8.62	4.11	NP	--	4.51	--	ND	**160**	**44**	**0.96**	**2.5**	**10**	**17**	--	--	--	--	--	--	--	--
MW-10	1/25/1999	8.62	3.26	NP	--	5.36	--	ND	**140**	**27**	ND	**2.8**	**6.8**	**23**	--	--	--	--	--	--	--	--
MW-10	4/15/1999	8.62	3.63	NP	--	4.99	--	ND	**120**	**18**	ND	**1.8**	**5.1**	**14**	--	--	--	--	--	--	--	--
MW-10	7/14/1999	8.62	3.89	NP	--	4.73	--	**180**	**280**	**55**	**3.2**	**11**	**31**	**6.1**	--	--	--	--	--	--	--	--
MW-10	10/21/1999	8.62	4.09	NP	--	4.53	--	**96**	**140**	**22**	**0.59**	**1.7**	**7.7**	**5.3**	--	--	--	--	--	--	--	--
MW-10	1/20/2000	8.62	3.92	NP	--	4.70	--	**252**	ND	**0.73**	**0.86**	ND	ND	**5.2**	--	--	--	--	--	--	--	--
MW-10	4/13/2000	8.62	3.85	NP	--	4.77	--	**69**	**67**	**54**	ND	**2.6**	ND	**3.8**	--	--	--	--	--	--	--	--
MW-10	7/14/2000	8.62	4.18	NP	--	4.44	--	**149**	ND	**0.547**	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-10	10/26/2000	8.62	3.96	NP	--	4.66	--	**83**	ND	**3.3**	ND	**0.83**	**1.5**	ND	--	--	--	--	--	--	--	--
MW-10	1/3/2001	8.62	4.14	NP	--	4.48	--	**126**	**52.7**	**5.15**	ND	**0.823**	**1.57**	ND	--	--	--	--	--	--	--	--
MW-10	4/4/2001	8.62	3.88	NP	--	4.74	--	**75**	**129**	**28.1**	**1.67**	**4.97**	**10.1**	ND	--	--	--	--	--	--	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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	7/17/2001	8.62	4.08	NP	--	4.54	--	ND	ND	**4.1**	ND	**1.0**	**1.8**	ND	--	--	--	--	--	--	--	--
MW-10	10/1/2001	8.62	4.22	NP	--	4.40	--	**100**	**140**	**30**	**0.51**	**4.0**	**12**	< 5.0	--	--	--	--	--	--	--	--
MW-10	1/31/2002	8.62	3.68	NP	--	4.94	--	**170**	**110**	**16**	< 0.50	**2.3**	**5.6**	< 2.5	--	--	--	--	--	--	--	--
MW-10	4/18/2002	8.62	4.01	NP	--	4.61	--	**130**	< 50	**11**	< 0.50	**1.4**	**4.5**	< 2.5	--	--	--	--	--	--	--	--
MW-10	7/28/2002	8.62	4.11	NP	--	4.51	--	**58**	**67**	**15**	< 0.50	**0.94**	**7.3**	--	< 2.0	--	--	--	--	--	--	--
MW-10	10/9/2002	8.62	3.97	NP	--	4.65	--	< 94	< 50	**0.67**	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-10	1/2/2003	8.62	3.03	NP	--	5.59	--	**64**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-10	4/1/2003	8.62	3.83	NP	--	4.79	--	**76**	< 50	**11**	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	--	--	--
MW-10	7/1/2003	8.62	4.13	NP	--	4.49	--	**87**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 2.0	--	--	--	--	< 500	--	--
MW-10	10/2/2003	8.62	4.05	NP	--	4.57	--	**160**	**77**	**9.9**	**0.78**	**2.3**	**4.9**	--	< 2.0	--	--	--	--	< 500	--	--
MW-10	1/9/2004	8.62	3.40	NP	--	5.22	--	**74**	**53**	**1.2**	< 0.50	**0.70**	**1.6**	--	< 2.0	--	--	--	--	< 500	--	--
MW-10	4/26/2004	8.62	3.89	NP	--	4.73	--	< 50	< 50	**2.8**	**1.3**	**1.0**	**2.9**	--	< 0.50	--	--	--	--	< 50	--	--
MW-10	7/22/2004	8.62	3.73	NP	--	4.89	--	< 200	< 50	< 0.5	< 0.5	< 0.5	< 1	--	< 0.5	--	--	--	--	< 1000	--	--
MW-10	10/29/2004	8.62	3.41	NP	--	5.21	--	< 50	**100**	**2.0**	**1.2**	**1.1**	**3.6**	--	< 0.50	--	--	--	--	< 50	--	--
MW-10	1/10/2005	8.62	2.68	NP	--	5.94	--	**94**	**84**	**7.8**	**2.7**	**2.2**	**8.9**	--	< 0.50	--	--	--	--	< 50	--	--
MW-10	6/15/2005	8.62	4.63	NP	--	3.99	--	**62**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 50	--	--
MW-10	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	--	--
MW-10	12/13/2005	8.62	3.75	NP	--	4.87	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	3/23/2006	8.62	3.13	NP	--	5.49	--	< 200	**50**	**13**	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	6/23/2006	8.62	3.90	NP	--	4.72	--	< 200	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	9/26/2006	8.62	3.66	NP	--	4.96	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	12/22/2006	8.62	3.56	NP	--	5.06	--	**81**	< 50	< 0.50	< 0.50	< 0.50	**1.8**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	3/30/2007	8.62	3.93	NP	--	4.69	--	**82**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	6/28/2007	8.62	4.03	NP	--	4.59	--	**57**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	9/25/2007	8.62	3.91	NP	--	4.71	--	**82**	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	12/28/2007	8.62	3.64	NP	--	4.98	--	**62**	< 50	**2.1**	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	3/22/2008	8.62	4.00	NP	--	4.62	--	< 50	**64**	**13**	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	6/23/2008	8.62	3.90	NP	--	4.72	--	< 50	**94**	**30**	**0.53**	**3.4**	**3.5**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	9/19/2008	8.62	3.85	NP	--	4.77	--	< 50	**130**	**15**	**1.7**	**5.7**	**11**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	12/31/2008	8.62	3.69	NP	--	4.93	--	< 50	**82**	**11**	< 0.50	**0.81**	**1.7**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	3/27/2009	8.62	3.75	NP	--	4.87	--	**730**	**210**	**28**	**1.4**	**1.2**	**3.9**	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	5/28/2009	8.62	3.66	NP	--	4.96	--	< 50	< 50	**0.91**	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	9/17/2009	8.62	3.85	NP	--	4.77	--	**65**	< 50	< 0.50	< 0.50	< 0.50	< 1.0	--	< 0.50	--	--	--	--	< 250	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	7/6/2010	10.97	3.73	NP	--	7.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	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	--	--
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	--	--
MW-10	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
MW-10	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	--	--
MW-10	3/14/2013	10.97	4.00	NP	--	6.97	--	< 50	**86**	**25**	< 0.50	**0.56**	**0.80**	--	< 0.50	--	--	--	< 5.0	< 5.0	--	--
MW-10	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	--	--
MW-10	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	--	--
MW-10	12/12/2013	10.97	3.85	NP	--	7.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	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	--	--
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-10	6/18/2014	10.97	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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
MW-11	9/20/2010	10.53	2.80	NP	--	7.73	--	< 50.0	**76.4**	< 0.50	< 0.50	< 0.50	< 1.5	--	**82.7**	--	--	--	--	< 250	--	--
MW-11	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	--	--
MW-11	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	--	--
MW-11	6/2/2011	10.53	1.75	NP	--	8.78	--	**69.0**	< 50.0	< 0.50	**0.61**	< 0.50	< 1.5	--	**24.9**	--	--	--	**7.1**	< 250	--	--
MW-11	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	--	--
MW-11	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	--	--
MW-11	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	--	--
MW-11	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	--	--
MW-11	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
MW-11	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	--	--
MW-11	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	--	--
MW-11	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	--	--
MW-11	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	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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-11	12/12/2013	10.53	2.20	NP	--	8.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	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	--	--
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-11	9/5/2014	10.53	3.27	NP	--	7.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	12/22/2014	10.53	1.53	NP	--	9.00	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**37**	--	--	--	< 5.0	< 5.0	--	--
MW-11	3/16/2015	10.53	2.40	NP	--	8.13	--	--	--	< 0.50	< 0.50	< 0.50	< 1.0	--	**19.6**	--	--	--	< 5.0	< 5.0	--	--
MW-11	6/11/2015	10.53	2.87	NP	--	7.66	--	< 50	**56**	< 0.50	< 1.0	< 1.0	--	--	**8.2**	--	--	--	< 10	< 100	--	--
MW-11	9/9/2015	10.53	3.58	NP	--	6.95	--	< 54	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**14**	--	--	--	< 10	< 100	--	--
MW-11	12/8/2015	10.53	3.32	NP	--	7.21	--	< 52	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**24**	--	--	--	< 10	< 100	--	--
MW-11	3/8/2016	10.53	1.90	NP	--	8.63	--	**52 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**12**	--	--	--	< 10	< 100	--	--
MW-11	6/29/2016	10.53	3.39	NP	--	7.14	--	**350 HD**	< 50	< 0.50	< 1.0	< 1.0	--	--	**8.6**	--	--	--	< 10	< 100	--	--
MW-11	9/19/2016	10.53	2.84	NP	--	7.69	--	**170 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**7.6**	--	--	--	< 10	< 100	--	--
MW-11	12/2/2016	10.53	2.23	NP	--	8.30	--	< 46	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**6.9**	--	--	--	< 10	< 100	--	--
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
MW-12	9/20/2010	11.01	4.18	NP	--	6.83	--	**5,220**	**73,700**	**6,020**	**6,390**	**2,970**	**18,300**	--	**894**	--	--	--	--	< 250	--	--
MW-12	12/8/2010	11.01	3.92	NP	--	7.09	--	**428**	**3,350**	**249**	**117**	**89.8**	**558**	--	**1,470**	--	--	--	--	< 2500	--	--
MW-12	3/14/2011	11.01	3.70	NP	--	7.31	--	**283**	**2,420**	**287**	**80.9**	**49.1**	**243**	--	**1,020**	--	--	--	**69.6**	< 250	--	--
MW-12	6/2/2011	11.01	4.40	NP	--	6.61	--	**1,330**	**12,200**	**688**	**70.5**	**225**	**619**	--	**824**	--	--	--	**110**	< 250	--	--
MW-12	9/7/2011	11.01	4.37	NP	--	6.64	--	**1,270**	**7,900**	**920**	**25.4**	**187**	**267**	--	**896**	--	--	--	--	< 2500	--	--
MW-12	12/5/2011	11.01	4.32	NP	--	6.69	--	**286**	**2,240**	**296**	**38.3**	**38.0**	**122**	--	**1,040**	--	--	--	--	< 250	--	--
MW-12	3/6/2012	11.01	4.01	NP	--	7.00	--	**272**	**1,260**	**193**	**22.6**	**28.8**	**80.5**	--	**835**	--	--	--	**78.4**	< 250	--	--
MW-12	6/11/2012	11.01	4.20	NP	--	6.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	6/12/2012	--	--	--	--	--	--	**957**	**1,030**	**178**	**17.0**	**24.1**	**68.8**	--	**993**	--	--	--	**448**	< 250	--	--
MW-12	9/6/2012	11.01	4.15	NP	--	6.86	--	< 200	**580**	**120**	**9.6**	**15**	**37**	--	**840**	< 1.5	< 1.5	< 1.5	**15**	< 15	< 1.5	**14**
MW-12	12/13/2012	11.01	3.35	NP	--	7.66	--	< 50	**480**	**70**	**4.6**	**7.2**	**19**	--	**820**	--	--	--	**19**	< 15	--	--
MW-12	3/14/2013	11.01	4.11	NP	--	6.90	--	< 50	**370**	**76**	**3.4**	**12**	**18**	--	**810**	--	--	--	**21**	< 15	--	--
MW-12	6/11/2013	11.01	4.30	NP	--	6.71	--	**62**	**290**	**51**	< 1.5	**4.3**	**6.4**	--	**840**	--	--	--	**19**	< 15	--	--
MW-12	9/10/2013	11.01	3.96	NP	--	7.05	--	< 50	**340**	**52**	**1.9**	**6.4**	**4.5**	--	**820**	--	--	--	**17**	< 15	--	--
MW-12	12/12/2013	11.01	4.00	NP	--	7.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	3/4/2014	11.01	3.46	NP	--	7.55	--	< 50	< 200	**19**	< 2.0	< 2.0	< 2.0	--	**990**	--	--	--	< 9.0	< 20	< 2.0	**11**
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-12	6/18/2014	11.01	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12A	7/6/2010	11.29	4.22	NP	--	7.07	--	**89.3**	**664**	**18.3 M0**	**0.78**	**2.3**	**50.2 M0**	--	**14.3 M0**	< 0.50	< 0.50	< 0.50	**11.9 M0**	< 250	< 1.0	< 1.0
MW-12A	9/20/2010	11.29	4.39	NP	--	6.90	--	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**8.5**	--	--	--	--	< 250	--	--
MW-12A	12/8/2010	11.29	4.00	NP	--	7.29	--	**76.4**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**9.4**	--	--	--	--	< 250	--	--
MW-12A	3/14/2011	11.29	3.81	NP	--	7.48	--	**61.5**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-12A	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	--	--
MW-12A	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	--	--
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	--	--
MW-12A	3/6/2012	11.29	4.32	NP	--	6.97	--	**52.0**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	< 0.50	--	--	--	< 5.0	< 250	--	--
MW-12A	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	--	--
MW-12A	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
MW-12A	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	--	--
MW-12A	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	--	--
MW-12A	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	--	--
MW-12A	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	--	--
MW-12A	12/12/2013	11.29	4.35	NP	--	6.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12A	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	--	--
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-12A	6/18/2014	11.29	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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
MW-13	9/20/2010	11.08	4.81	NP	--	6.27	--	< 50.0	**250**	< 0.50	< 0.50	< 0.50	< 1.5	--	**272**	--	--	--	--	< 250	--	--
MW-13	12/8/2010	11.08	5.02	NP	--	6.06	--	**97.0**	**177**	< 0.50	< 0.50	< 0.50	< 1.5	--	**390**	--	--	--	--	< 250	--	--
MW-13	3/14/2011	11.08	4.32	NP	--	6.76	--	**162**	**127**	< 0.50	< 0.50	< 0.50	< 1.5	--	**241**	--	--	--	**125**	< 250	--	--
MW-13	6/2/2011	11.08	3.98	NP	--	7.10	--	**89.9**	**260**	< 0.50	< 0.50	< 0.50	< 1.5	--	**228**	--	--	--	**44.7**	< 250	--	--
MW-13	9/7/2011	11.08	5.74	NP	--	5.34	--	< 50.0	**167**	< 0.50	< 0.50	< 0.50	< 1.5	--	**207**	--	--	--	--	< 250	--	--
MW-13	12/5/2011	11.08	5.00	NP	--	6.08	--	< 50.0	**166**	< 0.50	< 0.50	< 0.50	< 1.5	--	**215**	--	--	--	--	< 250	--	--
MW-13	3/6/2012	11.08	5.37	NP	--	5.71	--	< 50.0	**63.9**	< 0.50	< 0.50	< 0.50	< 1.5	--	**110**	--	--	--	**38.5**	< 250	--	--
MW-13	6/11/2012	11.08	5.73	NP	--	5.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	6/12/2012	--	--	--	--	--	--	< 37.9	**118**	< 0.50	< 0.50	< 0.50	< 1.5	--	**220**	--	--	--	**81.7**	< 250	--	--
MW-13	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
MW-13	12/13/2012	11.08	3.80	NP	--	7.28	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**130**	--	--	--	**14**	< 5.0	--	--
MW-13	3/14/2013	11.08	4.20	NP	--	6.88	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**110**	--	--	--	**24**	< 5.0	--	--
MW-13	6/11/2013	11.08	4.10	NP	--	6.98	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**97**	--	--	--	**31**	< 5.0	--	--
MW-13	9/10/2013	11.08	4.20	NP	--	6.88	--	< 50	< 50	< 0.50	< 0.50	< 0.50	**0.62**	--	**64**	--	--	--	**47**	< 5.0	--	--
MW-13	12/12/2013	11.08	4.05	NP	--	7.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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-13	3/4/2014	11.08	3.51	NP	--	7.57	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**54**	--	--	--	**30**	< 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-13	9/5/2014	11.08	4.23	NP	--	6.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	12/22/2014	11.08	3.07	NP	--	8.01	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**28**	--	--	--	**39**	< 5.0	--	--
MW-13	3/16/2015	11.08	3.97	NP	--	7.11	--	--	--	< 0.50	< 0.50	< 0.50	< 1.0	--	**27.7**	--	--	--	**35.5**	< 5.0	--	--
MW-13	6/11/2015	11.08	3.86	NP	--	7.22	--	< 50	< 250	< 2.5	< 5.0	< 5.0	--	--	**20**	--	--	--	< 50	< 500	--	--
MW-13	9/9/2015	11.08	4.48	NP	--	6.60	--	< 52	< 50	**0.84**	< 1.0	< 1.0	< 1.0	--	**17**	--	--	--	**38**	< 100	--	--
MW-13	12/8/2015	11.08	4.13	NP	--	6.95	--	< 52	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**14**	--	--	--	< 10	< 100	--	--
MW-13	3/8/2016	11.08	3.03	NP	--	8.05	--	< 46	**70**	< 0.50	< 1.0	< 1.0	< 1.0	--	**14**	--	--	--	**54**	< 100	--	--
MW-13	6/28/2016	11.08	4.28	NP	--	6.80	--	**190 HD**	< 50	**0.62**	< 1.0	< 1.0	--	--	**23**	--	--	--	**85**	< 100	--	--
MW-13	9/19/2016	11.08	4.12	NP	--	6.96	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**20**	--	--	--	**30**	< 100	--	--
MW-13	12/2/2016	11.08	3.88	NP	--	7.20	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**19**	--	--	--	**63**	< 100	--	--
MW-14	6/2/2011	12.00	3.58	NP	--	8.42	--	**4,180**	**51,600**	**2,750**	**67.9**	**1,790**	**13,400**	--	**1.9**	--	--	--	**27.2**	< 250	--	--
MW-14	9/7/2011	12.00	3.02	NP	--	8.98	--	**2,970**	**42,600**	**1,050**	**28.1**	**2,990**	**7,300**	--	< 25.0	--	--	--	--	< 12500	--	--
MW-14	12/5/2011	12.00	4.05	NP	--	7.95	--	**3,980**	**14,000**	**709**	**9.1**	**1,420**	**2,530**	--	**0.97**	--	--	--	--	< 250	--	--
MW-14	3/6/2012	12.00	3.94	NP	--	8.06	--	**3,640**	**16,600**	**959**	**15.0**	**2,330**	**3,830**	--	< 2.5	--	--	--	**28.1**	< 1250	--	--
MW-14	6/11/2012	12.00	3.91	NP	--	8.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	6/12/2012	--	--	--	--	--	--	**4580**	**15,700**	**1,200**	**14.0**	**1,580**	**3,010**	--	**1.4**	--	--	--	**23.3**	< 250	--	--
MW-14	9/6/2012	12.00	3.35	NP	--	8.65	--	< 2,000	**12,000**	**210**	**9.1**	**1,100**	**1,800**	--	< 4.0	< 4.0	< 4.0	< 4.0	< 20	< 40	< 4.0	< 4.0
MW-14	12/13/2012	12.00	3.26	NP	--	8.74	--	< 50	**10,000**	**72**	**5.8**	**610**	**780**	--	< 1.5	--	--	--	< 7.0	< 15	--	--
MW-14	3/14/2013	12.00	4.16	NP	--	7.84	--	< 50	**5,700**	**290**	**11**	**750**	**960**	--	< 1.5	--	--	--	**12**	< 15	--	--
MW-14	6/11/2013	12.00	4.63	NP	--	7.37	--	< 50	**6,900**	**630**	**5.3**	**480**	**680**	--	< 1.5	--	--	--	**24**	< 15	--	--
MW-14	9/10/2013	12.00	4.88	NP	--	7.12	--	**120**	**31,000**	**1,500**	**39**	**2,300**	**5,200**	--	< 1.5	--	--	--	**32**	< 15	--	--
MW-14	12/12/2013	12.00	4.35	NP	--	7.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	3/4/2014	12.00	3.60	NP	--	8.40	--	**250**	**40,000**	**1,600**	**41**	**2,900**	**6,700**	--	< 9.0	--	--	--	< 50	< 90	--	--
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-14	9/5/2014	12.00	5.47	NP	--	6.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	12/22/2014	12.00	3.18	NP	--	8.82	--	< 50	**3,200**	**220**	**3.8**	**260**	**540**	--	< 0.90	--	--	--	**12**	< 9.0	--	--
MW-14	3/16/2015	12.00	4.18	NP	--	7.82	--	--	--	**393**	**1.6**	**278**	**413**	--	**0.66**	--	--	--	**15.0**	< 5.0	--	--
MW-14	6/11/2015	12.00	4.74	NP	--	7.26	--	**1,800**	**3,900**	**510**	< 5.0	**340**	--	--	< 5.0	--	--	--	< 50	< 500	--	--
MW-14	7/7/2015	12.00	--	--	--	--	WD	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	--
MW-15	6/2/2011	11.11	2.50	NP	--	8.61	--	**124**	**357**	< 0.50	< 0.50	< 0.50	< 1.5	--	**15.2**	--	--	--	**6.4**	< 250	--	--
MW-15	9/7/2011	11.11	2.54	NP	--	8.57	--	< 50.0	**412**	**6.2**	< 0.50	**42.8**	< 1.5	--	**128**	--	--	--	--	< 250	--	--
MW-15	12/5/2011	11.11	2.70	NP	--	8.41	--	**50.5**	**201**	**6.6**	< 0.50	**0.93**	< 1.5	--	**142**	--	--	--	--	< 250	--	--
MW-15	3/6/2012	11.11	2.69	NP	--	8.42	--	**56.2**	< 50.0	< 0.50	< 0.50	< 0.50	< 1.5	--	**106**	--	--	--	**101**	< 250	--	--
MW-15	6/11/2012	11.11	2.84	NP	--	8.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	6/12/2012	--	--	--	--	--	--	< 37.9	**74.3**	< 0.50	< 0.50	< 0.50	< 1.5	--	**114**	--	--	--	**90.9**	< 250	--	--
MW-15	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
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	--	--
MW-15	3/14/2013	11.11	2.91	NP	--	8.20	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**46**	--	--	--	**21**	< 5.0	--	--
MW-15	6/11/2013	11.11	3.36	NP	--	7.75	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**73**	--	--	--	**31**	< 5.0	--	--
MW-15	9/10/2013	11.11	3.28	NP	--	7.83	--	< 50	**68**	< 0.50	< 0.50	< 0.50	< 0.50	--	**120**	--	--	--	**39**	< 5.0	--	--
MW-15	12/12/2013	11.11	3.00	NP	--	8.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	3/4/2014	11.11	2.34	NP	--	8.77	--	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	--	**96**	--	--	--	**45**	< 5.0	--	--
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-15	9/5/2014	11.11	4.00	NP	--	7.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	12/22/2014	11.11	2.38	NP	--	8.73	--	< 50	< 50	**0.50**	< 0.50	< 0.50	< 0.50	--	**65**	--	--	--	**36**	< 5.0	--	--
MW-15	3/16/2015	11.11	3.17	NP	--	7.94	--	--	--	< 0.50	< 0.50	< 0.50	< 1.0	--	**46.7**	--	--	--	**27.0**	< 5.0	--	--
MW-15	6/11/2015	11.11	3.47	NP	--	7.64	--	< 50	**94**	< 0.50	< 1.0	< 1.0	--	--	**46**	--	--	--	**15**	< 100	--	--
MW-15	9/9/2015	11.11	4.03	NP	--	7.08	--	< 52	**150**	< 0.50	< 1.0	< 1.0	< 1.0	--	**75**	--	--	--	**36**	< 100	--	--
MW-15	12/8/2015	11.11	3.04	NP	--	8.07	--	< 50	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**82**	--	--	--	**34**	< 100	--	--
MW-15	3/8/2016	11.11	2.71	NP	--	8.40	--	< 48	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**38**	--	--	--	**31**	< 100	--	--
MW-15	6/29/2016	11.11	3.64	NP	--	7.47	--	< 45	< 50	< 0.50	< 1.0	< 1.0	--	--	**51**	--	--	--	**30**	< 100	--	--
MW-15	9/19/2016	11.11	3.50	NP	--	7.61	--	< 45	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**47**	--	--	--	**35**	< 100	--	--
MW-15	12/2/2016	11.11	2.62	NP	--	8.49	--	**240 HD**	**98**	< 0.50	< 1.0	< 1.0	< 1.0	--	**33**	--	--	--	**24**	< 100	--	--
MW-16	6/2/2011	10.98	3.00	NP	--	7.98	--	**509**	**1,420**	**79.4**	< 0.50	**4.2**	< 1.5	--	**1,200**	--	--	--	**257**	< 250	--	--
MW-16	9/7/2011	10.98	2.65	NP	--	8.33	--	**90.0**	**934**	< 0.50	< 0.50	< 0.50	< 1.5	--	**1,240**	--	--	--	--	< 250	--	--
MW-16	12/5/2011	10.98	3.18	NP	--	7.80	--	**196**	**948**	< 0.50	< 0.50	< 0.50	< 1.5	--	**1,320**	--	--	--	--	< 250	--	--
MW-16	3/6/2012	10.98	2.91	NP	--	8.07	--	**204**	**392**	< 0.50	< 0.50	< 0.50	< 1.5	--	**1,090**	--	--	--	**134**	< 250	--	--
MW-16	6/11/2012	10.98	3.04	NP	--	7.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	6/12/2012	--	--	--	--	--	--	**48.1**	**430**	< 0.50	< 0.50	< 0.50	< 1.5	--	**1,100**	--	--	--	**374**	< 250	--	--
MW-16	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
MW-16	12/13/2012	10.98	2.50	NP	--	8.48	--	**52**	< 150	< 1.5	< 1.5	< 1.5	< 1.5	--	**980**	--	--	--	**55**	< 20	--	--
MW-16	3/14/2013	10.98	3.15	NP	--	7.83	--	< 50	< 200	< 2.0	< 2.0	< 2.0	< 2.0	--	**950**	--	--	--	**67**	< 20	--	--
MW-16	6/11/2013	10.98	3.18	NP	--	7.80	--	< 50	< 150	< 1.5	< 1.5	< 1.5	< 1.5	--	**820**	--	--	--	**70**	< 15	--	--
MW-16	9/10/2013	10.98	3.44	NP	--	7.54	--	< 50	< 50	< 0.50	< 0.50	< 0.50	**0.67**	--	**240**	--	--	--	**440**	< 5.0	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA						GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers	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-16	12/12/2013	10.98	2.90	NP	--	8.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	3/4/2014	10.98	3.25	NP	--	7.73	--	< 50	**60**	< 0.50	< 0.50	< 0.50	< 0.50	--	**440**	--	--	--	**400**	< 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-16	9/5/2014	10.98	3.70	NP	--	7.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	12/22/2014	10.98	3.11	NP	--	7.87	--	< 50	< 50	**0.52**	< 0.50	< 0.50	< 0.50	--	**23**	--	--	--	**140**	< 5.0	--	--
MW-16	3/16/2015	10.98	3.03	NP	--	7.95	--	--	--	< 0.50	< 0.50	< 0.50	< 1.0	--	**9.2**	--	--	--	**185**	< 5.0	--	--
MW-16	6/11/2015	10.98	3.62	NP	--	7.36	--	< 50	< 250	< 2.5	< 5.0	< 5.0	--	--	**5.1**	--	--	--	**130**	< 500	--	--
MW-16	9/9/2015	10.98	3.98	NP	--	7.00	--	< 50	< 50	< 0.5	< 1.0	< 1.0	< 1.0	--	**12**	--	--	--	**100**	< 501	--	--
MW-16	12/8/2015	10.98	3.86	NP	--	7.12	--	< 50	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**15**	--	--	--	**140**	< 100	--	--
MW-16	3/8/2016	10.98	3.23	NP	--	7.75	--	**140 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**8.3**	--	--	--	**130**	< 100	--	--
MW-16	6/28/2016	10.98	3.57	NP	--	7.41	--	**330 HD**	< 50	< 0.50	< 1.0	< 1.0	--	--	**4.3**	--	--	--	**86**	< 100	--	--
MW-16	9/19/2016	10.98	3.19	NP	--	7.79	--	**490 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**5.7**	--	--	--	**87**	< 100	--	--
MW-16	12/2/2016	10.98	3.19	NP	--	7.79	--	**230 HD**	< 50	< 0.50	< 1.0	< 1.0	< 1.0	--	**7.5**	--	--	--	**140**	< 100	--	--
MW-17	6/2/2011	11.52	5.78	NP	--	5.74	--	**687**	**9,130**	**2,530**	**960**	**35.1**	**907**	--	**0.74**	--	--	--	**366**	< 250	--	--
MW-17	9/7/2011	11.52	4.56	NP	--	6.96	--	**1,900**	**47,200**	**9,620**	**5,510**	**1,210**	**4,510**	--	< 25.0	--	--	--	--	< 12500	--	--
MW-17	12/5/2011	11.52	4.70	NP	--	6.82	--	**1,790**	**17,300**	**4,720**	**511**	**238**	**747**	--	< 2.5	--	--	--	--	< 1250	--	--
MW-17	3/6/2012	11.52	4.64	NP	--	6.88	--	**1,530**	**1,580**	**2,090**	**23.8**	**39.3**	**166**	--	**1.1**	--	--	--	**481**	< 250	--	--
MW-17	6/11/2012	11.52	4.67	NP	--	6.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	6/12/2012	--	--	--	--	--	--	**1,090**	**4,950**	**2,340**	**123**	**153**	**610**	--	< 2.5	--	--	--	**411**	< 1250	--	--
MW-17	9/6/2012	11.52	4.39	NP	--	7.13	--	< 1,000	**18,000**	**4,300**	**170**	**370**	**1,100**	--	< 10	< 10	< 10	< 10	**300**	< 100	< 10	**110**
MW-17	12/13/2012	11.52	4.20	NP	--	7.32	--	< 100	**55,000**	**7,300**	**2,700**	**1,700**	**4,600**	--	< 10	--	--	--	**300**	< 100	--	--
MW-17	3/14/2013	11.52	4.70	NP	--	6.82	--	< 200	**63,000**	**13,000**	**5,400**	**3,100**	**8,800**	--	< 15	--	--	--	**260**	< 150	--	--
MW-17	6/11/2013	11.52	4.83	NP	--	6.69	--	**710**	**110,000**	**10,000**	**11,000**	**3,100**	**12,000**	--	< 25	--	--	--	< 150	< 250	--	--
MW-17	9/10/2013	11.52	4.60	NP	--	6.92	--	**160**	**36,000**	**8,200**	**510**	**1,200**	**2,400**	--	< 15	--	--	--	**320**	< 150	--	--
MW-17	12/12/2013	11.52	5.00	NP	--	6.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	3/4/2014	11.52	3.99	NP	--	7.53	--	**400**	**13,000**	**1,600**	**270**	**260**	**540**	--	< 3.0	--	--	--	**330**	**48**	--	--
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	--	--
MW-17	6/18/2014	11.52	--	--	--	--	WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Gauging Notes:
TOC - Top of Casing
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
TPHg- Total petroleum hydrocarbons as gasoline, also known as Gasoline Range Organics (GRO)
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.
A - Lower boiling hydrocarbons present, atypical for Diesel Fuel.
2V - The detection of Ethanol is biased high likely due to the presence of interfering compounds
HD - The chromatographic pattern was inconsistent with the profile of the reference fuel 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 (mg/L)	Arsenic (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Biochemical Oxygen Demand (ug/L)	Bromate (mg/L)	Bromide (mg/L)	Cadmium (mg/L)	Cadmium (ug/L)	Chemical Oxygen Demand (ug/L)	Chloride (ug/L)	Chromium (mg/L)	Chromium (ug/L)	Chromium, Hexavalent (ug/L)	Cobalt (ug/L)	Coliform, Total MPN/100ML	E. Coli MPN/100ML
MW-6	3/14/2011	**18.4**	--	--	--	--	< 60.0	--	**22.7**	**216**	< 5.0	**32,200**	--	--	--	< 5.0	**173,000**	**204,000**	--	--	--	< 50.0	--	--
MW-6	6/2/2011	< 5.0	**828**	< 1	**828**	< 1	< 60.0	--	**22.0**	**191**	< 5.0	**45,100**	< 0.005	**2.1**	--	< 5.0	**121,000**	**149,000**	--	**4.3**	< 2	< 50.0	**42,000**	< 100
MW-6	9/6/2012	--	--	--	--	**650**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0050	--	< 10	--	--	--
MW-6	3/4/2014	--	--	--	--	--	--	**0.031**	--	--	--	--	--	--	< 0.0010	--	--	--	< 0.0050	--	--	--	--	--
MW-9	3/14/2011	< 5.0	--	--	--	--	< 60.0	--	< 20.0	< 100	< 5.0	**7,160**	--	--	--	< 5.0	**11,500**	**34,700**	--	--	--	< 50.0	--	--
MW-9	6/2/2011	< 5.0	**226**	< 1	**226**	< 1	< 60.0	--	< 20.0	< 100	< 5.0	**4,170**	< 0.005	**2**	--	< 5.0	**15,100**	**32,400**	--	**2.4**	< 0.2	< 50.0	**2**	< 1
MW-10	9/6/2012	--	--	--	--	**561**	--	--	--	--	--	--	--	--	--	--	--	--	**0.017**	--	< 10	--	--	--
MW-12	3/14/2011	< 5.0	--	--	--	--	< 60.0	--	< 20.0	< 100	< 5.0	< 2000	--	--	--	< 5.0	**80,100**	**8,240,000**	--	--	--	< 50.0	--	--
MW-12	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**	--	**3.3**	< 2	< 50.0	**210**	< 1
MW-12	9/6/2012	--	--	--	--	**806**	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0050	--	< 10	--	--	--
MW-12	3/4/2014	--	--	--	--	--	--	< 0.015	--	--	--	--	--	--	**0.0018**	--	--	--	< 0.0050	--	--	--	--	--
MW-14	9/6/2012	--	--	--	--	**1,720**	--	--	--	--	--	--	--	--	--	--	--	--	**0.024**	--	< 10	--	--	--
MW-17	9/6/2012	--	--	--	--	**2,820**	--	--	--	--	--	--	--	--	--	--	--	--	**0.038**	--	< 10	--	--	--

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 HISORICAL GROUNDWATER ANALYTICAL DATA
76 STATION NO. 5191/504
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA																								
		Copper (mg/L)	Inorganic Carbon (mg/L)	Iron SW6010 D (ug/L)	Iron SW6010 T (ug/L)	Iron, Ferric (mg/L)	Iron, Ferric (ug/L)	Iron, Ferrous (ug/L)	Lead (mg/L)	Lead (ug/L)	Manganese (T) (mg/L)	Manganese (D) (mg/L)	Manganese (D) (ug/L)	Mercury (mg/L)	Mercury (ug/L)	Methane (ug/L)	Molybdenum (ug/L)	Nickel (mg/L)	Nickel (ug/L)	Nitrate as N E353/E351 (ug/L)	Nitrite as N (mg/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-3	12/17/2009	--	--	--	**12,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 50.0	--	< 50.0	--	--	--
MW-3	6/30/2010	--	--	**5,550**	**10,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**95.0**	--	**75.7**	--	--	--
MW-3	6/2/2011	--	--	--	**13,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 10.0	--	**52.5**	--	--	--
MW-3	6/11/2012	--	--	--	**10,900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-5	11/30/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
MW-5	2/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
MW-5	5/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
MW-5	8/4/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
MW-6	9/17/2009	--	--	--	**1,500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	12/17/2009	--	--	--	**2,460**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 50.0	--	< 50.0	--	--	--
MW-6	3/29/2010	--	--	**1,790**	**1,510**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**41.3**	--	**54.9**	--	--	--
MW-6	6/30/2010	--	--	**946**	**2,310**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**57.9**	--	**69.3**	--	--	--
MW-6	9/20/2010	--	--	**2,730**	**2,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 10.0	--	**52.1**	--	--	--
MW-6	3/14/2011	--	--	--	**4,900**	--	**3,900**	**1,000**	--	**26.8**	--	--	**1,270**	--	< 0.20	**474**	< 20.0	--	< 40.0	**50.1**	--	< 10.0	--	**54.2**	--	--	--
MW-6	6/2/2011	--	**870**	--	**4,320**	--	**2,520**	**1,800**	--	**22.6**	--	--	**1,510**	--	< 0.20	**445**	< 20.0	--	< 40.0	< 50.0	--	< 10.0	**2.9**	**50.5**	**4.8**	--	**1,500**
MW-6	6/12/2012	--	--	--	**1,240**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-6	9/6/2012	--	--	--	--	**1.0**	--	--	--	--	**1.4**	**1.2**	--	--	--	**2,890**	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/4/2014	--	--	--	**2,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/4/2014	< 0.0050	--	--	--	--	--	--	**0.014**	--	--	--	--	< 0.00050	--	--	--	**0.017**	--	--	--	--	--	--	--	--	--
MW-7	6/30/2010	--	--	**836**	**7,550**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**73.9**	--	**73.6**	--	--	--
MW-7	6/2/2011	--	--	--	**7,800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**233**	--	< 10.0	--	**239**	--	--	--
MW-7	6/11/2012	--	--	--	**264**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	**0.067**	--	--	**111**	--	--	--
MW-8	6/30/2010	--	--	**4,710**	**8,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**68.2**	--	**59.7**	--	--	--
MW-8	6/2/2011	--	--	--	**24,900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**60.9**	--	< 10.0	--	**60.9**	--	--	--
MW-8	6/11/2012	--	--	--	**21,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	**0.048**	--	--	< 50.0	--	--	--
MW-9	12/17/2009	--	--	--	**2,270**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 50.0	--	< 50.0	--	--	--
MW-9	6/30/2010	--	--	**3,210**	**8,820**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**14.9**	--	< 50.0	--	--	--
MW-9	3/14/2011	--	--	--	**1,560**	--	**157**	**1,400**	--	< 10.0	--	--	**148**	--	< 0.20	**419**	< 20.0	--	< 40.0	< 50.0	--	< 10.0	--	< 50.0	--	--	--
MW-9	6/2/2011	--	**240**	--	**1,260**	--	**1,060**	**200**	--	< 10.0	--	--	**91.5**	--	< 0.20	**673**	< 20.0	--	< 40.0	< 50.0	--	< 10.0	**0.86**	< 50.0	**0.6**	--	**405**
MW-9	6/11/2012	--	--	--	**731**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-10	9/17/2009	--	--	--	**9,800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	12/17/2009	--	--	--	**3,410**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,970**	--	**60.3**	--	**2,030**	--	--	--
MW-10	3/29/2010	--	--	**365**	**2,410**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,960**	--	**18.7**	--	**1,970**	--	--	--
MW-10	6/30/2010	--	--	**216**	**1,860**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,120**	--	**68.1**	--	**2,190**	--	--	--
MW-10	9/20/2010	--	--	**280**	**3,080**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,690**	--	**68.2**	--	**2,750**	--	--	--
MW-10	3/14/2011	--	--	--	**2,620**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,350**	--	--	--
MW-10	6/2/2011	--	--	--	**9,870**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,290**	--	**49.3**	--	**1,340**	--	--	--
MW-10	6/11/2012	--	--	--	**11,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,510**	**0.057**	--	--	**1,570**	--	--	--
MW-10	9/6/2012	--	--	--	--	**11**	--	--	--	--	**0.70**	**0.49**	--	--	--	**467**	--	--	--	--	--	--	--	--	--	--	--
MW-11	7/6/2010	--	--	< 100	**3,510**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**31.0**	--	**66.9**	--	--	--
MW-11	9/20/2010	--	--	< 100	**1,690**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**167**	--	< 10.0	--	**172**	--	--	--
MW-11	3/14/2011	--	--	--	**756**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	--	--
MW-11	6/2/2011	--	--	--	**1,040**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**110**	--	< 10.0	--	**115**	--	--	--
MW-11	6/11/2012	--	--	--	**1,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**88.8**	< 0.010	--	--	**93.5**	--	--	--
MW-12	7/6/2010	--	--	< 100	**30,200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**60.5**	--	< 50.0	--	--	--
MW-12	9/20/2010	--	--	**552**	**3,890**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**72.3**	--	< 10.0	--	**75.2**	--	--	--
MW-12	3/14/2011	--	--	--	**793**	--	**593**	**200**	--	< 10.0	--	--	**12,400**	--	< 0.20	**114**	< 20.0	--	**151**	< 50.0	--	**60.6**	--	**54.4**	--	--	--
MW-12	6/2/2011	--	**1,100**	--	**9,340**	--	**8,740**	**600**	--	< 10.0	--	--	**12,800**	--	< 0.20	**287**	< 20.0	--	**119**	< 50.0	--	< 10.0	**0.14**	**58.0**	**0.91**	--	**15,600**
MW-12	6/12/2012	--	--	--	**497**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-12	9/6/2012	--	--	--	--	**0.19**	--	--	--	--	**10**	**10**	--	--	--	**63.8**	--	--	--	--	--	--	--	--	--	--	--
MW-12	3/4/2014	< 0.0050	--	--	--	--	--	--	< 0.0050	--	--	--	--	< 0.00050	--	--	--	**0.12**	--	--	--	--	--	--	--	--	--
MW-12A	7/6/2010	--	--	**716**	**57,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3,680**	--	**164**	--	**3,840**	--	--	--
MW-12A	9/20/2010	--	--	< 100	**523**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,680**	--	**10.2**	--	**4,690**	--	--	--
MW-12A	3/14/2011	--	--	--	**523**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,790**	--	--	--
MW-12A	6/2/2011	--	--	--	**754**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,710**	--	< 10.0	--	**4,720**	--	--	--
MW-12A	6/11/2012	--	--	--	**859**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,250**	< 0.010	--	--	**4,260**	--	--	--
MW-13	7/6/2010	--	--	**116**	**92,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**64.9**	--	**70.4**	--	--	--
MW-13	9/20/2010	--	--	**279**	**59,500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 10.0	--	< 50.0	--	--	--
MW-13	3/14/2011	--	--	--	**44,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	--	--
MW-13	6/2/2011	--	--	--	**36,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**71.5**	--	**14.5**	--	**86.0**	--	--	--
MW-13	6/12/2012	--	--	--	**3,760**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	**0.019**	--	--	< 50.0	--	--	--
MW-14	6/2/2011	--	--	--	**47,500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**10.4**	--	**50.1**	--	--	--
MW-14	6/12/2012	--	--	--	**1,150**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-14	9/6/2012	--	--	--	--	**8.9**	--	--	--	--	**3.0**	**2.3**	--	--	--	**718**	--	--	--	--	--	--	--	--	--	--	--
MW-15	6/2/2011	--	--	--	**11,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**890**	--	**38.0**	--	**928**	--	--	--
MW-15	6/12/2012	--	--	--	**2,920**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-16	6/2/2011	--	--	--	**34,200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	< 10.0	--	< 50.0	--	--	--
MW-16	6/12/2012	--	--	--	**1,730**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	< 0.010	--	--	< 50.0	--	--	--
MW-17	6/2/2011	--	--	--	**109,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	--	**29.7**	--	< 50.0	--	--	--
MW-17	6/12/2012	--	--	--	**44,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 50.0	**0.039**	--	--	< 50.0	--	--	--
MW-17	9/6/2012	--	--	--	--	**21**	--	--	--	--	**7.5**	**7.9**	--	--	--	**182**	--	--	--	--	--	--	--	--	--	--	--

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 (mg/L)	Silver (ug/L)	Sulfate E300 (mg/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Sulfate E300.1 (ug/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (mg/L)	Zinc (ug/L)
MW-3	12/17/2009	--	--	--	--	--	< 0.5	--	--	--	--	--	--
MW-3	6/30/2010	--	--	--	--	< 5000	--	--	--	--	--	--	--
MW-3	6/2/2011	--	--	--	--	< 5000	--	--	--	--	--	--	--
MW-3	6/11/2012	--	--	--	--	< 2000	--	--	--	--	--	--	--
MW-6	9/17/2009	--	--	--	--	< 0.0010	--	--	--	--	--	--	--
MW-6	12/17/2009	--	--	--	--	--	< 0.5	--	--	--	--	--	--
MW-6	3/29/2010	--	--	--	< 1.0	--	--	--	--	--	--	--	--
MW-6	6/30/2010	--	--	--	--	< 5000	--	--	--	--	--	--	--
MW-6	9/20/2010	--	--	--	--	< 1000	--	--	--	--	--	--	--
MW-6	3/14/2011	< 10.0	--	< 10.0	--	**35,400**	--	--	< 20.0	--	< 50.0	--	< 40.0
MW-6	6/2/2011	< 10.0	--	< 10.0	--	**38,900**	--	--	< 20.0	**41**	< 50.0	--	< 40.0
MW-6	6/12/2012	--	--	--	--	**1,110**	--	--	--	--	--	--	--
MW-6	3/4/2014	--	< 0.0050	--	--	--	--	--	--	--	--	**0.036**	--
MW-7	6/30/2010	--	--	--	--	**191,000**	--	--	--	--	--	--	--
MW-7	6/2/2011	--	--	--	--	**48,900**	--	--	--	--	--	--	--
MW-7	6/11/2012	--	--	--	--	**56,900**	--	--	--	--	--	--	--
MW-8	6/30/2010	--	--	--	--	**2,360,000**	--	--	--	--	--	--	--
MW-8	6/2/2011	--	--	--	--	**2,830,000**	--	--	--	--	--	--	--
MW-8	6/11/2012	--	--	--	--	**2,570,000**	--	--	--	--	--	--	--
MW-9	12/17/2009	--	--	--	--	--	**11**	--	--	--	--	--	--
MW-9	6/30/2010	--	--	--	--	**19,000**	--	--	--	--	--	--	--
MW-9	3/14/2011	< 10.0	--	< 10.0	--	**8,980**	--	--	< 20.0	--	< 50.0	--	< 40.0
MW-9	6/2/2011	< 10.0	--	< 10.0	--	**18,600**	--	--	< 20.0	**4.7**	< 50.0	--	< 40.0
MW-9	6/11/2012	--	--	--	--	**42,500**	--	--	--	--	--	--	--
MW-10	9/17/2009	--	--	--	--	**84**	--	**0.084**	--	--	--	--	--
MW-10	12/17/2009	--	--	--	--	**86**	--	--	--	--	--	--	--
MW-10	12/17/2009	--	--	--	--	--	**86**	--	--	--	--	--	--
MW-10	3/29/2010	--	--	--	--	**73,600**	--	--	--	--	--	--	--
MW-10	3/29/2010	--	--	--	**73.6**	--	--	--	--	--	--	--	--
MW-10	6/30/2010	--	--	--	--	**70,800**	--	--	--	--	--	--	--
MW-10	9/20/2010	--	--	--	--	**82,000**	--	--	--	--	--	--	--
MW-10	3/14/2011	--	--	--	--	**68,600**	--	--	--	--	--	--	--
MW-10	6/2/2011	--	--	--	--	**71,700**	--	--	--	--	--	--	--
MW-10	6/11/2012	--	--	--	--	**70,100**	--	--	--	--	--	--	--
MW-11	7/6/2010	--	--	--	--	**82,100**	--	--	--	--	--	--	--
MW-11	9/20/2010	--	--	--	--	**58,300**	--	--	--	--	--	--	--
MW-11	3/14/2011	--	--	--	--	**59,900**	--	--	--	--	--	--	--
MW-11	6/2/2011	--	--	--	--	**62,900**	--	--	--	--	--	--	--
MW-11	6/11/2012	--	--	--	--	**79,400**	--	--	--	--	--	--	--
MW-12	7/6/2010	--	--	--	--	**3,030,000**	--	--	--	--	--	--	--
MW-12	9/20/2010	--	--	--	--	**1,970,000**	--	--	--	--	--	--	--
MW-12	3/14/2011	< 10.0	--	< 10.0	--	**2,500,000**	--	--	< 20.0	--	< 50.0	--	< 40.0
MW-12	6/2/2011	< 10.0	--	< 10.0	--	**2,330,000**	--	--	< 20.0	**9.1**	< 50.0	--	< 40.0
MW-12	6/12/2012	--	--	--	--	**2,130,000**	--	--	--	--	--	--	--
MW-12	3/4/2014	--	< 0.0050	--	--	--	--	--	--	--	--	**0.046**	--
MW-12A	7/6/2010	--	--	--	--	**100,000**	--	--	--	--	--	--	--
MW-12A	9/20/2010	--	--	--	--	**82,500**	--	--	--	--	--	--	--
MW-12A	3/14/2011	--	--	--	--	**81,000**	--	--	--	--	--	--	--
MW-12A	6/2/2011	--	--	--	--	**101,000**	--	--	--	--	--	--	--
MW-12A	6/11/2012	--	--	--	--	**118,000**	--	--	--	--	--	--	--
MW-13	7/6/2010	--	--	--	--	**450,000**	--	--	--	--	--	--	--
MW-13	9/20/2010	--	--	--	--	**241,000**	--	--	--	--	--	--	--
MW-13	3/14/2011	--	--	--	--	**375,000**	--	--	--	--	--	--	--
MW-13	6/2/2011	--	--	--	--	**188,000**	--	--	--	--	--	--	--
MW-13	6/12/2012	--	--	--	--	**131,000**	--	--	--	--	--	--	--

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 (mg/L)	Silver (ug/L)	Sulfate E300 (mg/L)	Sulfate E300 (ug/L)	Sulfate E300.1 (mg/L)	Sulfate E300.1 (ug/L)	Thallium (ug/L)	Total Organic Carbon (mg/L)	Vanadium (ug/L)	Zinc (mg/L)	Zinc (ug/L)
MW-3	12/17/2009	--	--	--	--	--	< 0.5	--	--	--	--	--	--
MW-14	6/2/2011	--	--	--	--	**56,300**	--	--	--	--	--	--	--
MW-14	6/12/2012	--	--	--	--	**439,000**	--	--	--	--	--	--	--
MW-15	6/2/2011	--	--	--	--	**62,700**	--	--	--	--	--	--	--
MW-15	6/12/2012	--	--	--	--	**42,100**	--	--	--	--	--	--	--
MW-16	6/2/2011	--	--	--	--	**8,740**	--	--	--	--	--	--	--
MW-16	6/12/2012	--	--	--	--	**19,900**	--	--	--	--	--	--	--
MW-17	6/2/2011	--	--	--	--	**3,920,000**	--	--	--	--	--	--	--
MW-17	6/12/2012	--	--	--	--	**2,520,000**	--	--	--	--	--	--	--

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)	Isopropylbenzene (ug/L)	Naphthalene (ug/L)	o-Xylene (ug/L)	m,p-Xylenes (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)	Oil & Grease (HEM) (ug/L)	Phenolics (ug/L)	Cyanide (ug/L)
MW-3	6/11/2015	--	--	--	--	< 5.0	< 5.0	--	--	--	--	--	--	--
MW-6	3/4/2014	--	--	--	--	--	**1,400**	--	--	--	--	**1.6**	< 0.1	< 0.02
MW-6	3/4/2014	**3000**	**860**	**200**	**990**	**300**	--	**100**	**530**	**22**	**53**	--	--	--
MW-6	6/11/2015	--	--	--	--	**2,000**	**5,800**	--	--	--	--	--	--	--
MW-9	6/11/2015	--	--	--	--	< 2.0	< 2.0	--	--	--	--	--	--	--
MW-11	6/11/2015	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--
MW-12	3/4/2014	--	**11**	--	--	--	< 2.0	--	--	--	--	**1.9**	**0.1**	< 0.02
MW-12	3/4/2014	**3.7**	< 2.0	< 2.0	< 2.0	< 2.0	--	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--
MW-13	6/11/2015	--	--	--	--	< 5.0	< 5.0	--	--	--	--	--	--	--
MW-14	6/11/2015	--	--	--	--	< 5.0	**470**	--	--	--	--	--	--	--
MW-15	6/11/2015	--	--	--	--	< 1.0	< 1.0	--	--	--	--	--	--	--
MW-16	6/11/2015	--	--	--	--	< 5.0	< 5.0	--	--	--	--	--	--	--

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
A full list of volatile organic compounds by EPA Method 624 was analyzed for monitoring wells MW-6 and MW-12, only constituents reported above the laboratory's indicated reporting limits are included in the table.

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 feet)	Groundwater Flow Direction															
			N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	04/22/92		0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
	08/31/92	0.05	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
	11/30/92	0.04	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
	02/07/94		0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	11/14/94	0.03	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	02/21/95	0.08	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	05/18/95	0.07	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/26/96	0.02	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/28/96	0.02	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	01/29/97	0.01	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	04/15/97	0.01	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	07/15/97	0.10	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/09/97	0.10	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	01/14/98	0.02	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/01/98	0.05	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	07/15/98	0.04	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	09/30/98	0.05	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/25/99	0.05	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/15/99	0.04	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	10/21/99	0.03	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/14/99	0.04	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/13/00	0.050	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/14/00	0.033	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/26/00	0.060	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/03/01	0.070	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/17/01	0.040	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	10/01/01	0.030	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/31/02	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	07/28/02	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/09/02	0.016	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	01/02/03	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/01/03	0.008	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	07/29/09	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	10/02/03	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	01/09/04	0.010	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	04/26/04	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	07/22/04	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	10/29/04	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	01/10/05	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	06/15/05	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/27/05	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	12/13/05	0.005	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	03/23/06	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	06/23/06	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	09/26/06	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	12/22/06	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	03/30/07	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/25/07	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	12/28/07	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	06/28/07	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	03/22/08	0.020	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	06/23/08	0.010	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	09/19/08	0.006	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	12/31/08	0.005	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	03/27/09	0.006	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	05/28/09	0.008	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/17/09	0.010	0	0	0	0	0	0	**1**	0	0	0	**1**	0	0	0	0	0
	12/17/09	0.008	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	03/29/10	0.010	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	06/30/10	0.009	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/20/10	0.007	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0
	12/08/10	0.018	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	03/14/11	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	06/02/11	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	09/07/11	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
	12/05/11	0.020	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0

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 feet)	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	**1**	0	0	0	0	0	0	0	0
	06/11/12	0.050	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
	12/13/12	0.020	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	**1**	0	0	0	0	0	0	0	0	0
	06/11/13	0.001	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	**1**	0	0	0	0	0	0	0
	12/12/13	0.018	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	**1**	0	0	0	0	0	0	0	0	0
	06/12/14	0.020	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	09/05/14	0.003	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
	12/22/14	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03/16/15	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	06/11/15	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	09/09/15	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/08/15	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03/08/16	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	06/28/16	0.0067	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
	09/19/16	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12/02/16	Variable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.024 Average	**0**	**0**	**0**	**0**	**0**	**1**	**34**	**1**	**16**	**0**	**21**	**2**	**3**	**0**	**0**	**0**

Explanation
NA = Not available
Number of Events = 83

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.

June 2014 – Antea Group destroyed monitoring wells MW-10, MW-12, MW-12A, and MW-17 by pressure grouting. The wells were destroyed in preparation for on-site soil excavation activities.

September 2014 – Antea Group advanced two (2) cone penetration test (CPT) borings CPT-1 and CPT-2 in preparation for soil excavations on site. Soil and groundwater samples were not collected. Data from the CPT borings was used to help design shoring for excavations. Antea Group advanced three (3) off-site soil borings, SB-13 through SB-15. Soil and grab-groundwater samples were collected from the borings.

July 2015 – Antea Group destroyed on-site monitoring wells MW-6 and MW-14 in preparation for on-site soil excavation activities. On-site soil borings were advanced for waste characterization (WC-1 to WC-3) and delineate soil (SB-16 to SB-18) concentrations in the vicinity of the proposed soil excavation. Two off-site soil borings were advanced (SB-11 and SB-12) for delineation down-gradient.

January 2015 – Antea Group destroyed off-site monitoring wells MW-7 and MW-8 by drill-out.

May through July 2016 – Antea Group performed a series of remedial excavations on-site. The excavation focused on removing soil from two areas of hydrocarbon impact to the soil (secondary source areas) identified during previous investigations, one on the east side of the site between the dispensers and Hegenberger Road, and the other in the southwest corner of the site. A total of 1665 tons of soil were removed from the site during excavation activities. Approximately 1,400 pounds of OCR-A was spread throughout the entire excavation area to facilitate in-situ aerobic biodegradation.

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**

Appendix B

Blaine Tech Groundwater Sampling Field Data Sheets

Well-Head Inspection & Well Gauging Form

Antea Group Project No: 270519 Site Address: 449 HELLENBERGER RD, OAKLAND, CA

Field Technician: WILLIAM WONG / BLAINE TECH SERVICES Date: 12-2-16 Weather: SUNNY
(Print Full Name & Company*)

Sample Order	Field Point	Well Condition: 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
4	MW-3	R	Y	Y	Y	Y	Y	2	0943	2.59	13.93	—	—	REPLACED 1/2 BOLTS (5/16")
1	MW-9	R	Y	Y	Y	Y	N	2	0925	0.97	12.56	—	—	1/3 TABS; 1 (9/16") BOLT REPLACED.
5	MW-11	Y	Y	Y	Y	Y	N	4	0949	2.23	19.62	—	—	
2	MW-13	Y	Y	Y	Y	Y	N	2	0931	3.88	14.66	—	—	
6	MW-15	Y	Y	Y	Y	Y	N	2	0959	2.62	12.73	—	—	
3	MW-16	Y	Y	Y	Y	Y	Y	2	0937	3.19	12.70	—	—	

Notes:

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

anteagroup

*Form provided by Antea Group

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

Groundwater Sampling Form

Site Address:	449 HEGEN		
Project No:	270519	Field Technician:	MW
Field Point:	MW-3	Date:	12-2-16
Depth to Water (DTW) (ft bgs):	2.59	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	13.93	Water Column Height (ft):	11.34

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): 11.34 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.9

Casing Volume (gal): 1.9 X Specified Volumes: 3 = Calculated Purge (gal): 5.7

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

Purge: **Start Time:** 1134 **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				—		—		
1135	22.3	7.50	2190	-157.6	106	2.01	0.9	
1136	22.0	7.40	2199	-154.2	81	2.27	1.9	
1137	21.6	7.30	2208	-151.2	63	2.39	2.8	
1138	21.2	7.20	2229	-146.6	47	2.46	3.8	
1139	21.3	7.12	2412	-144.3	42	2.39	4.7	
1140	21.4	7.05	2511	-142.5	37	2.31	5.7	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 5.7

Other Comments: 807: 4.86

SAMPLED @ 7.86 (2HR)

Sample Info:

Sample ID:	MW-3_20161230	Sample Date and Time:	12-2-16 / 1400
Selected Analysis:	See SOW		

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

Signature: _____ Date: 12-2-16

anteagroup
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:	449 MEGEN BERGER		
Project No:	2705191	Field Technician:	WW
Field Point:	MW-9	Date:	12-2-16
Depth to Water (DTW) (ft bgs):	0.97	Well Diameter (in):	(2) 4 6 8
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	12.56	Water Column Height (ft):	11.59

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/ BGD
Extraction Port
Dedicated Tubing
Disposable Tubing
Other:

Water Column Height (ft): 11.59 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 2.0

Casing Volume (gal): 2.0 X Specified Volumes: 3 = Calculated Purge (gal): 6.0

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

Purge: Start Time: 1022 Stop Time: 1028

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				—		—		
1023	22.6	8.12	1966	-137.8	72	1.70	1	
1024	22.5	7.96	2360	-135.6	69	2.09	2	
1025	22.4	7.72	2618	-133.2	69	2.50	3	
1026	22.3	7.44	2984	-131.6	68	2.91	4	
1027	22.1	7.39	2996	-128.4	63	3.07	5	
1028	22.0	7.34	3014	-125.3	58	3.16	6	
Post-Purge				—		—		

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

Other Comments: 80/20 : 3.29
SAMPLED @ 1.04

Sample Info:

Sample ID:	MW-9_20161230	Sample Date and Time:	12-2-16 / 1340
Selected Analysis:	see SOW		

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

Signature: _____ Date: 12-2-16

anteagroup
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:	449 HEGENBERGER RD, OAKLAND, CA		
Project No:	285191	Field Technician:	WM
Field Point:	MW-11	Date:	12-2-16
Depth to Water (DTW) (ft bgs):	2.23	Well Diameter (in):	2 (4) 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	19.62	Water Column Height (ft):	17.39

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/ BB); Extraction Port; Dedicated Tubing; Disposable Tubing; Other:

Water Column Height (ft): 17.39 X Conversion Factor (gal/ft): 0.66 = Casing Volume (gal): 11.5

Casing Volume (gal): 11.5 X Specified Volumes: 3 = Calculated Purge (gal): 34.5

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

Purge: Start Time: 1153 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				—		—		
1156	21.5	7.76	1460	-171.3	54	2.91	5.8	
1158	21.7	7.48	1535	-165.9	46	2.32	11.5	
1200	21.3	7.42	1549	-164.6	30	1.88	17.3	
1202	21.9	7.37	1565	-163.9	14	1.44	23.0	
1205	22.0	7.39	1566	-164.0	11	1.43	28.8	
1207	22.3	7.40	1567	-164.8	8	1.42	34.5	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 34.5

Other Comments: 80%: 5.71

SAMPLE DTW: 3.19

Sample Info:

Sample ID: MW-11-20161230 Sample Date and Time: 12-2-16 / 1210

Selected Analysis: see SAP

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

Signature: Date: 12-2-16

antea group

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:	449 HELEN BERGER RD, OAKLAND, CA		
Project No:	270519 1	Field Technician:	MW
Field Point:	MW-13	Date:	12-2-16
Depth to Water (DTW) (ft bgs):	3.88	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	14.66	Water Column Height (ft):	10.78

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/ BFD; Extraction Port; Dedicated Tubing; Disposable Tubing; Other: ___

Water Column Height (ft): 10.78 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.8

Casing Volume (gal): 1.8 X Specified Volumes: 3 = Calculated Purge (gal): 5.4

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

Purge: Start Time: 1030 Stop Time: 1042

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				—		—		
1037	19.9	7.52	3082	-142.3	292	2.30	0.9	
1038	19.5	7.54	3060	-144.9	117	2.39	1.8	
1039	19.1	7.55	3042	-145.0	89	2.90	2.7	
1040	18.7	7.57	3038	-145.0	68	3.00	3.6	
1041	18.9	7.55	3117	-145.0	53	2.89	4.5	
1042	19.0	7.53	3341	-145.4	49	2.71	5.4	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 5.4

Other Comments: 80% = 6.04

SAMPLED @ 6.04

Sample Info:

Sample ID: MW-13-20161230 Sample Date and Time: 12-2-16 / 1055

Selected Analysis: SEE SOW

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

Signature: _____ Date: 12-2-16

antea group

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:	449 HELEN BERGER RD, OAKLAND, CA		
Project No:	2705191	Field Technician:	WW
Field Point:	MW-15	Date:	12-2-16
Depth to Water (DTW) (ft bgs):	2.62	Well Diameter (in):	(2) 4 6 8
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	~~12.67~~ 12.73	Water Column Height (ft):	10.11

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): 10.11 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 = radius^2 * 0.163

Purge: Start Time: 12 28 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				—		—		
1229	18.9	7.38	1859	-133.3	26	1.89	0.9	
1230	18.9	7.30	1735	-131.0	23	1.77	1.7	
1231	19.0	7.22	1611	-129.6	20	1.65	2.6	
1232	19.0	7.10	1487	-128.6	19	1.53	3.4	
1233	19.1	7.00	1360	-126.4	14	1.36	4.3	
1234	19.1	6.92	1238	-125.5	11	1.26	5.1	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 5.1

Other Comments: 60%: 4.64

Sample DTW: 7.76 2ND QHR

Sample Info:

Sample ID:	MW-15_20161230	Sample Date and Time:	12-2-16 / 1235
Selected Analysis:	8260 SOW		

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

Signature: Date: 12-2-16

anteagroup

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:	449 HEGENBERGER RD, OAKLAND, CA		
Project No:	270519	Field Technician:	MW
Field Point:	MW-16	Date:	12-2-16
Depth to Water (DTW) (ft bgs):	3.19	Well Diameter (in):	(2) 4 6 8 ___
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	12.70	Water Column Height (ft):	9.51

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): 9.51 X Conversion Factor (gal/ft): 0.17 = Casing Volume (gal): 1.6

Casing Volume (gal): 1.6 X Specified Volumes: 3 = Calculated Purge (gal): 4.8

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

Purge: Start Time: 1100 Stop Time: 1106

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				—		—		
1101	21.0	7.97	3461	-136.0	103	2.24	0.8	
1102	21.1	7.89	3442	-135.6	91	1.94	1.6	
1103	21.2	7.72	3421	-133.2	67	1.67	2.4	
1104	21.3	7.55	3415	-132.4	44	1.34	3.2	
1105	21.4	7.50	3400	-130.7	30	1.30	4.0	
1106	21.4	7.45	3370	-128.6	15	1.27	4.8	
Post-Purge				—		—		

Did Well dewater? Yes (No) Total Purge volume (gal): 4.8

Other Comments: 80% :5.09
SAMPLED @ 4.89

Sample Info:

Sample ID:	MW-16_20161230	Sample Date and Time:	12-2-16 / 1350
Selected Analysis:	SEE BOW		

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

Signature: _____ Date: 12-2-16

anteagroup
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

TEST EQUIPMENT CALIBRATION LOG

2705191

PROJECT NAME ANTEA GROUP 4443 HEGENBERGER RD, OAKLAND, CA				PROJECT NUMBER 161202-WW1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI PRO PWS	10B100	12-2-16 0615	pH: 4, 7, 10 cond: 3900 µS	pH: 7.00; 10.00 4.00 cond: 3900 µS	YES	14.3 °C	MW
"	"	"	ORP: 245 mV DO: 10 mg/L @ 100 %	ORP: 245 mV DO: 1 mg/L @ 100 %	YES	14.3 °C	MW

20161230.2705191.WG_Q_201612.BO

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
Cooler # ____ of ____

anteagroup

4Q16 GW Event

Required Lab Information:

Lab Name:	Calscience
Address:	7440 Lincoln Way
Garden Grove, CA 92841	
Lab PM:	Terri Chang
Phone/Fax:	714-895-5494
Lab PM email	Terrichang@eurofinsus.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:	2705191	Task:	WG_Q_201606
AnteaGrp proj#			
Site Address	449 Hegenberger		
City	Oakland	State	CA 94621
AG PM Name:	Dacre Bush		
Phone/Fax:	805-295-9071		
AG PM Email:	Dacre.bush@anteagroup.com		

Required Invoice Information:

Send Invoice to:	Sandy Hayes			
Address:	11050 White Rock Road, Suite 110			
City/State	Rancho Cordova CA 95670	Phone #:	916-638-2085	
Reimbursement project?		Non-reimbursement project?	Y	Mark one
Send EDD to	agdataview.us@anteagroup.com			
CC Hardcopy report to	Jerilyn.thao@anteagroup.com			
CC Hardcopy report to	Jon.fillingame@anteagroup.com			

Turn around time (days)	10		
QC level Required: Standard		Special	Mark one
NJ Reduced Deliverable Package?			
MA MCP Cert?		CT RCP Cert?	Mark One
Lab Project ID (lab use)			

Valid Matrix Codes: DRINKING WATER WP; GROUND WATER WG; WASTE WATER WW; FREE PRODUCT LF; SOIL SO; OIL OIL; WIPE SW; AMBIENT AIR AA; SVE AIR AE; SOIL GAS GS; WATER W; SURFACE WATER WS; WATER DC WQ; SLUDGE SL; RINSEATE WH; OTHER OT; ANIMAL TISSUE TA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: 8015TPHDiesel W/Silica Gel	8260 GC/MS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-11_20161230	WG	G	12-2-16	1210	3	N				X					X	X	X	X	
2	MW-13_20161230	WG	G		1055	3	N				X					X	X	X	X	
3	MW-15_20161230	WG	G		1235	3	N				X					X	X	X	X	
4	MW-16_20161230	WG	G		1350	3	N				X					X	X	X	X	
5	MW-3_20161230	WG	G		1400	3	N				X					X	X	X	X	
6	MW-9_20161230	WG	G		1340	3	N				X					X	X	X	X	
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	12-2-16				

SHIPPING METHOD: (mark as appropriate) UPS COURIER FEDEX US MAIL (GSO)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: WILLIAM WONK

SIGNATURE of SAMPLER:

DATE Signed 12-2-16 Time: 1505

Sample Receipt Conditions

	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?	

Final 11/13/06. AMTait

Appendix C

Certified Laboratory Analytical Report and Data Validation Form

eurofins | Calscience

WORK ORDER NUMBER: 16-12-0293

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Antea Group

Client Project Name: 2705191

Attention: Dacre Bush
11050 White Rock Road
Suite 110
Rancho Cordova, CA 95670-6001

Approved for release on 12/09/2016 by:
Terri Chang
Project Manager

ResultLink

Email your PM

eurofins | Calscience

Contents

Client Project Name: 2705191
Work Order Number: 16-12-0293

eurofins | Calscience

Work Order Narrative

Work Order: 16-12-0293 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 12/03/16. They were assigned to Work Order 16-12-0293.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

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

Return to Contents

eurofins | Calscience

Sample Summary

Client:	Antea Group	Work Order:	16-12-0293
	11050 White Rock Road, Suite 110	Project Name:	2705191
	Rancho Cordova, CA 95670-6001	PO Number:	
		Date/Time Received:	12/03/16 10:10
		Number of Containers:	30
Attn:	Dacre Bush		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
MW-11_20161230	16-12-0293-1	12/02/16 12:10	5	Aqueous
MW-13_20161230	16-12-0293-2	12/02/16 10:55	5	Aqueous
MW-15_20161230	16-12-0293-3	12/02/16 12:35	5	Aqueous
MW-16_20161230	16-12-0293-4	12/02/16 13:50	5	Aqueous
MW-3_20161230	16-12-0293-5	12/02/16 14:00	5	Aqueous
MW-9_20161230	16-12-0293-6	12/02/16 13:40	5	Aqueous

Return to Contents

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11_20161230	**16-12-0293-1-E**	**12/02/16 12:10**	**Aqueous**	**GC 45**	**12/06/16**	**12/08/16 23:41**	**161206B15**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	46	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-13_20161230	**16-12-0293-2-E**	**12/02/16 10:55**	**Aqueous**	**GC 45**	**12/06/16**	**12/09/16 00:02**	**161206B15**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	45	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-15_20161230	**16-12-0293-3-E**	**12/02/16 12:35**	**Aqueous**	**GC 45**	**12/06/16**	**12/09/16 00:25**	**161206B15**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	240	46	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16_20161230	**16-12-0293-4-E**	**12/02/16 13:50**	**Aqueous**	**GC 45**	**12/06/16**	**12/09/16 00:47**	**161206B15**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	230	45	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	95	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3_20161230	**16-12-0293-5-E**	**12/02/16 14:00**	**Aqueous**	**GC 45**	**12/06/16**	**12/09/16 01:08**	**161206B15**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	48	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	97	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9_20161230	**16-12-0293-6-E**	**12/02/16 13:40**	**Aqueous**	**GC 45**	**12/06/16**	**12/09/16 01:28**	**161206B15**

Comment(s): - The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	45	1.00	SG

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	102	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-304-1586**	**N/A**	**Aqueous**	**GC 45**	**12/06/16**	**12/08/16 21:12**	**161206B15**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	68-140	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11_20161230	**16-12-0293-1-A**	**12/02/16 12:10**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 16:19**	**161205L001**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	6.9	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	102	80-120	
Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	96	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-13_20161230	**16-12-0293-2-A**	**12/02/16 10:55**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 16:49**	**161205L001**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	19	1.0	1.00	
Tert-Butyl Alcohol (TBA)	63	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	103	80-120	
Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	96	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-15_20161230	**16-12-0293-3-A**	**12/02/16 12:35**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 17:19**	**161205L001**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	33	1.0	1.00	
Tert-Butyl Alcohol (TBA)	24	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	98	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	104	80-120	
Toluene-d8-TPPH	103	88-112	
1,4-Bromofluorobenzene	95	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16_20161230	**16-12-0293-4-A**	**12/02/16 13:50**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 17:49**	**161205L001**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	7.5	1.0	1.00	
Tert-Butyl Alcohol (TBA)	140	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	104	75-135	
Toluene-d8	103	80-120	
Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	96	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3_20161230	**16-12-0293-5-A**	**12/02/16 14:00**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 18:19**	**161205L001**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	8.7	1.0	1.00	
Tert-Butyl Alcohol (TBA)	24	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	81	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	102	80-120	
Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	99	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9_20161230	**16-12-0293-6-A**	**12/02/16 13:40**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 18:49**	**161205L001**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	104	80-120	
Toluene-d8-TPPH	103	88-112	
1,4-Bromofluorobenzene	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: 2705191

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-7603**	**N/A**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 12:19**	**161205L001**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Xylenes (total)	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C6-C12)	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	98	75-135	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Quality Control - Spike/Spike Duplicate

Antea Group		Date Received:	12/03/16
11050 White Rock Road, Suite 110		Work Order:	16-12-0293
Rancho Cordova, CA 95670-6001		Preparation:	EPA 5030C
		Method:	GC/MS / EPA 8260B
Project: 2705191			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-11-2486-8	**Sample**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 12:49**	**161205S001**
16-11-2486-8	**Matrix Spike**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 13:19**	**161205S001**
16-11-2486-8	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 13:49**	**161205S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	56.29	113	55.40	111	74-122	2	0-21	
Ethylbenzene	ND	50.00	57.71	115	56.54	113	77-125	2	0-24	
Toluene	ND	50.00	57.44	115	57.32	115	72-126	0	0-23	
p/m-Xylene	ND	100.0	117.4	117	115.3	115	63-129	2	0-25	
o-Xylene	ND	50.00	57.99	116	57.56	115	62-128	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	51.67	103	51.80	104	68-134	0	0-21	
Tert-Butyl Alcohol (TBA)	253.7	250.0	529.5	110	515.8	105	65-143	3	0-30	
Ethanol	ND	500.0	648.4	130	637.1	127	34-178	2	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

eurofins | Calscience

Quality Control - LCS/LCSD

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 3510C
Method: EPA 8015B (M)
Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-304-1586	**LCS**	**Aqueous**	**GC 45**	**12/06/16**	**12/08/16 21:33**	**161206B15**
099-15-304-1586	**LCSD**	**Aqueous**	**GC 45**	**12/06/16**	**12/08/16 21:54**	**161206B15**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	2278	114	2259	113	75-117	1	0-13	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

eurofins | Calscience

Quality Control - LCS/LCSD

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670-6001

Project: 2705191

Date Received: 12/03/16
Work Order: 16-12-0293
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-7603	**LCS**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 10:45**	**161205L001**
099-12-767-7603	**LCSD**	**Aqueous**	**GC/MS LL**	**12/05/16**	**12/05/16 11:15**	**161205L001**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.99	100	N/A	N/A	80-120	N/A	0-20	
Ethylbenzene	50.00	51.41	103	N/A	N/A	80-123	N/A	0-20	
Toluene	50.00	51.61	103	N/A	N/A	80-120	N/A	0-20	
p/m-Xylene	100.0	105.0	105	N/A	N/A	75-123	N/A	0-25	
o-Xylene	50.00	52.92	106	N/A	N/A	74-122	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	50.46	101	N/A	N/A	69-129	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	278.6	111	N/A	N/A	69-129	N/A	0-25	
Ethanol	500.0	667.1	133	N/A	N/A	42-168	N/A	0-20	
Gasoline Range Organics (C6-C12)	1000	1122	112	1118	112	65-135	0	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

eurofins | Calscience

Sample Analysis Summary Report

Work Order: 16-12-0293 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 3510C	421	GC 45	1
GC/MS / EPA 8260B	EPA 5030C	867	GC/MS LL	2

Return to Contents

eurofins | Calscience

Glossary of Terms and Qualifiers

Work Order: 16-12-0293 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Return to Contents

20161230.2705191.WG_Q_201612.BO

anteagroup

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
Cooler # ____ of ____

16-12-0293

4Q16 GW Event

Required Lab Information:		**Required** Project Information:				**Required** Invoice Information:					
Lab Name:	Calscience	Site ID #:	2705191	Task:	WG_Q_201606	Send Invoice to:	Sandy Hayes				
Address:	7440 Lincoln Way	AnteaGrp proj#				Address:	11050 White Rock Road, Suite 110			Turn around time (days)	10
Garden Grove, CA 92841		Site Address	449 Hegenberger			City/State	Rancho Cordova CA 95670	Phone #:	916-638-2085	QC level Required: Standard	Special / Mark one
Lab PM:	Terri Chang	City	Oakland	State	CA 94621	Reimbursement project?		Non-reimbursement project?	Y	NJ Reduced Deliverable Package?	
Phone/Fax:	714-895-5494	AG PM Name:	Dacre Bush			Send EDD to	agdataview.us@anteagroup.com			MA MCP Cert? / CT RCP Cert?	Mark One
Lab PM email	Terrichang@eurofinsus.com	Phone/Fax:	805-295-9071			CC Hardcopy report to	Jerilyn.thao@anteagroup.com			Lab Project ID (lab use)	
Applicable Lab Quote #:		AG PM Email:	Dacre.bush@anteagroup.com			CC Hardcopy report to	Jon.fillingame@anteagroup.com			Requested Analyses	

Valid Matrix Codes

MATRIX		MATRIX	
DRINKING WATER	WP	WATER	W
GROUND WATER	WG	SURFACE WATER	WS
WASTE WATER	WW	WATER QC	WQ
FREE PRODUCT	LF	SLUDGE	SL
SOIL	SO	RINSEATE	WH
OIL	OIL	OTHER	OT
WIPE	SW	ANIMAL TISSUE	TA
AMBIENT AIR	AA		
SVE AIR	AE		
SOIL GAS	GS		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8015TPHDiesel W/Silica Gel	8260 GCMS GRO	8260BtexMtbeTBA	8260Ethanol	Comments/Lab Sample I.D.
1	MW-11_20161230	WG	G	12-2-16	1210	3	N				X					X	X	X	X	
2	MW-13_20161230	WG	G		1055	3	N				X					X	X	X	X	
3	MW-15_20161230	WG	G		1235	3	N				X					X	X	X	X	
4	MW-16_20161230	WG	G		1350	3	N				X					X	X	X	X	
5	MW-3_20161230	WG	G		1400	3	N				X					X	X	X	X	
6	MW-9_20161230	WG	G		1340	3	N				X					X	X	X	X	
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments/Special Instructions:

Global ID: T0600101476

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	12-2-16				
				12/3/16	1010

Sample Receipt Conditions

	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?

SHIPPING METHOD: (mark as appropriate) UPS COURIER FEDEX US MAIL (GSO)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: WILLIAM WONG

SIGNATURE of SAMPLER:

DATE Signed 12-2-16 Time: 1505

Final 11/13/06. AMTait

Return to Contents

0293

GSO GOLDEN STATE OVERNIGHT

800-322-5555 www.gso.com

Ship From
BLAINE TECH SERVICES, INC
MICHAEL NINOTAKA
1680 ROGERS AVE
SAN JOSE, CA 95112

Ship To
CALSCIENCE
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
BTSSJ
Delivery Instructions:
FRAGILE, NON HAZARDOUS
Signature Type: REQUIRED

Tracking #: 534210317

SDS

ORC **A**

GARDEN GROVE

D92845A

59827123

Print Date: 12/2/2016 5:08 PM

PRINT LABEL ☐ Print All FINISH

1 of 1

LABEL INSTRUCTIONS:

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

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

Return to Contents

eurofins | Calscience

WORK ORDER NUMBER: 16-12- 0293

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Antea

DATE: 12 / 03 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC3A (CF: 0.0°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.8 °C; ☑ Blank ☐ Sample

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

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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SM

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: SM

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
☐ Sampling date ☑ Sampling time (1400) ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☑ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ (3) VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☑ (2) 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

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

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: 778

2016-09-23 Revision

Return to Contents

Is the Data Valid? (circle) (Yes) / No

Preservation Temperature (if Known): 2.8 °C

Antea Group Lab Validation Sheet

Project/Client: COP/ELT
Project #: I42705191
Date of Validation: 12/30/16 **Date of Analysis:** 12/9/16 **Sample Date:** 12/2/16
Completed By: Jon F. **Signature:** Jonathan F. Wiggins
Analytical Lab Used and Report # (if any): Eurofins Calscience 16-12-0293

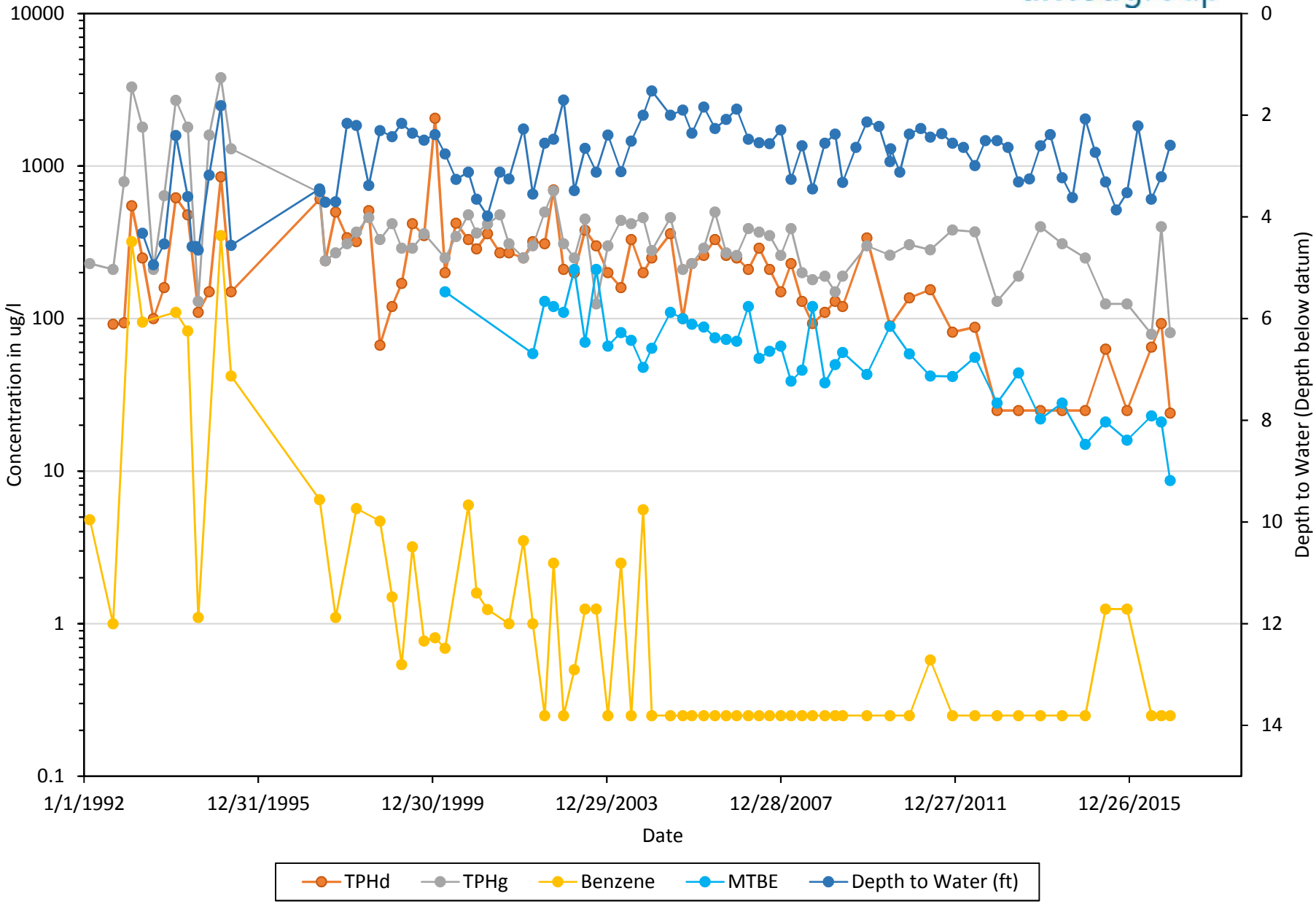
	Circle or Highlight Yes/No below
1. Was the analysis the one requested?	(Yes) / No
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	(Yes) / No
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?	(Yes) / No
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?	(Yes) / No
5. Were Laboratory blanks performed, if so, were they below non-detect?	(Yes) / No
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/m^3,etc.)	(Yes) / No
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	(Yes) / No
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	Yes / No (N/
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?	Yes / No
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	(Yes) / No
11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?	(Yes) / No

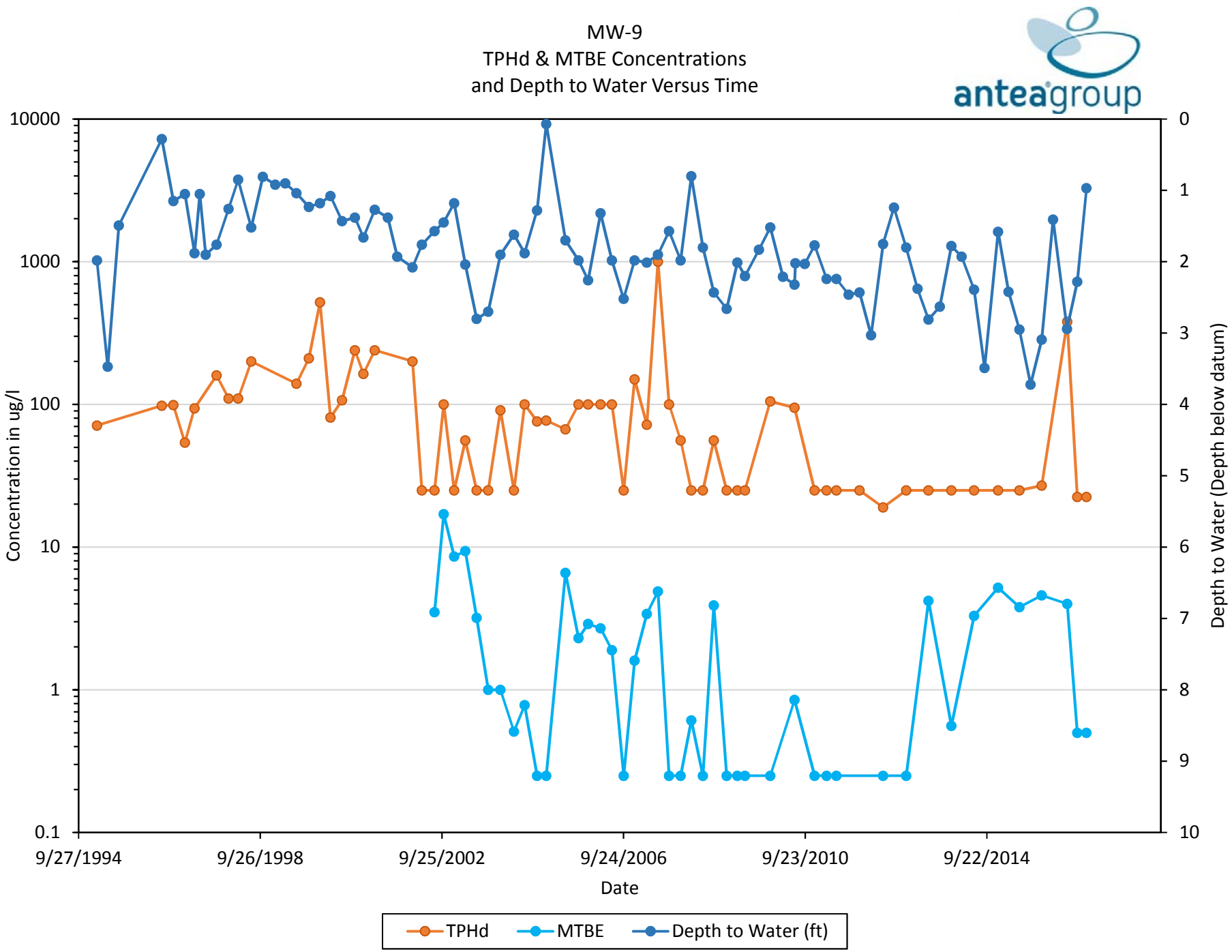
If any answer is no, explain why and what corrective action was taken:

Appendix D

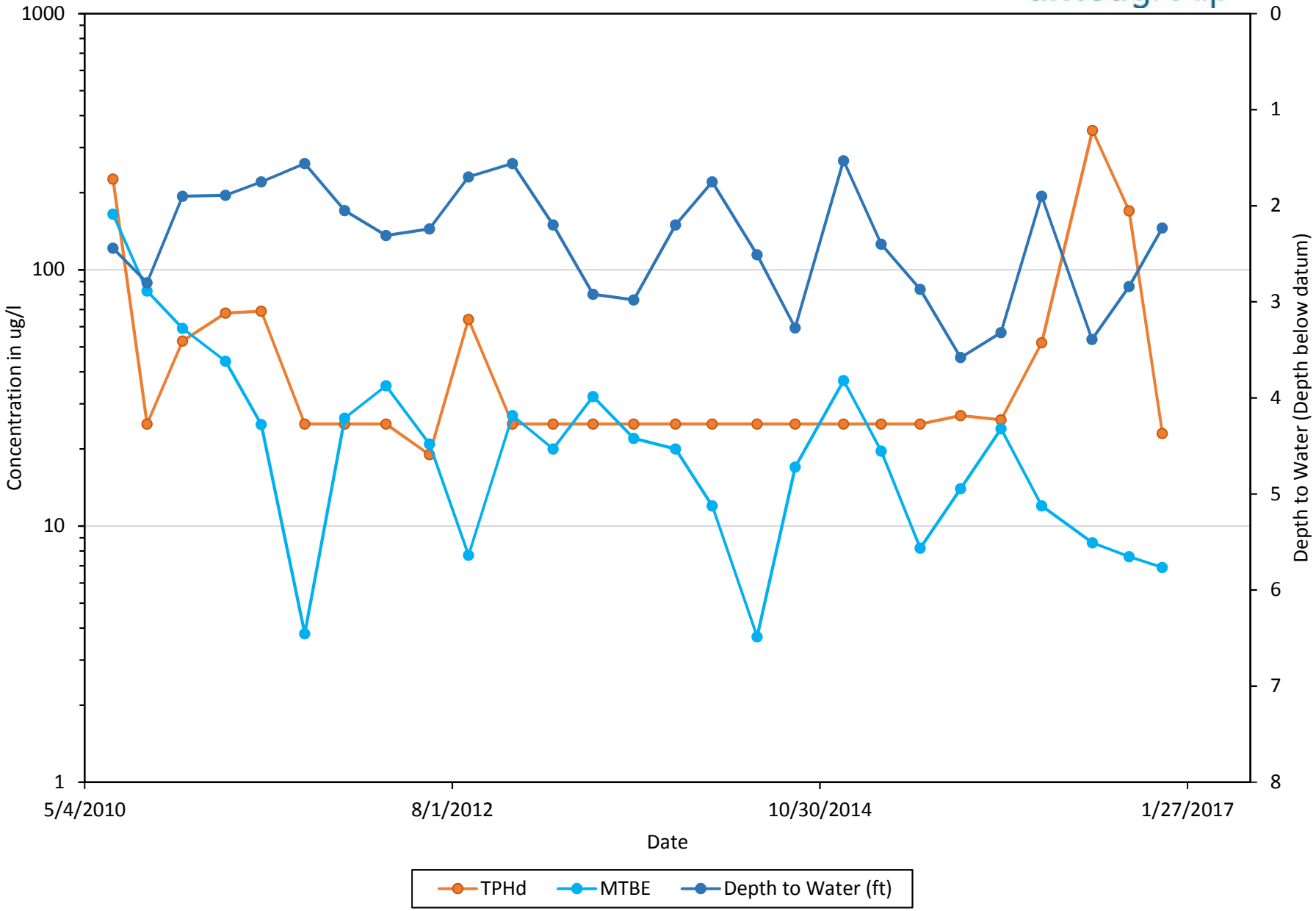
Time Series Graphs

MW-3
TPHd, TPHg, Benzene, & MTBE Concentrations
and Depth to Water Versus Time

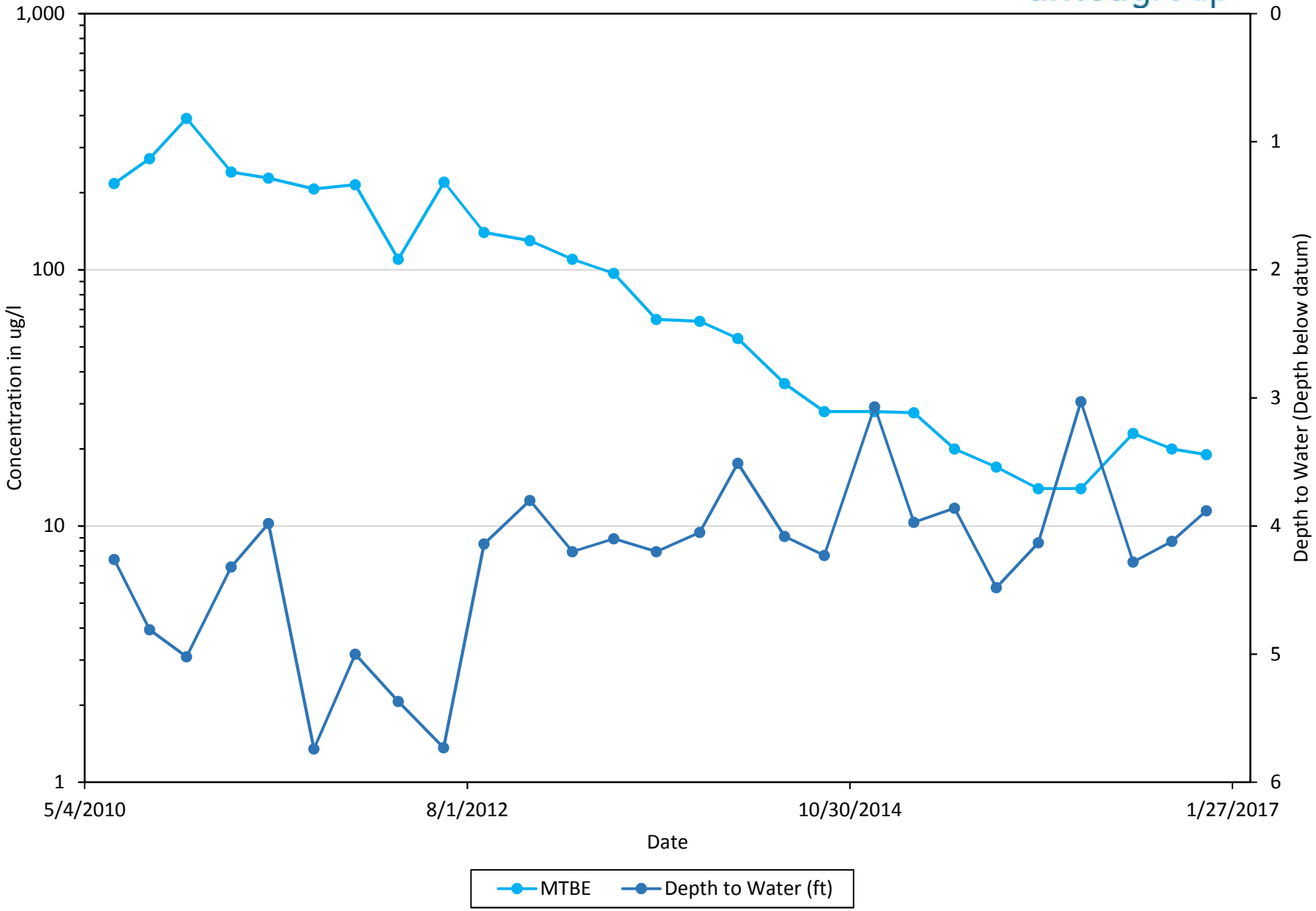



MW-9
TPHd & MTBE Concentrations
and Depth to Water Versus Time
anteagroup
10000
1000
100
10
1
0.1
Concentration in ug/l
0
1
2
3
4
5
6
7
8
9
10
Depth to Water (Depth below datum)
9/27/1994
9/26/1998
9/25/2002
9/24/2006
9/23/2010
9/22/2014
Date
TPHd
MTBE
Depth to Water (ft)

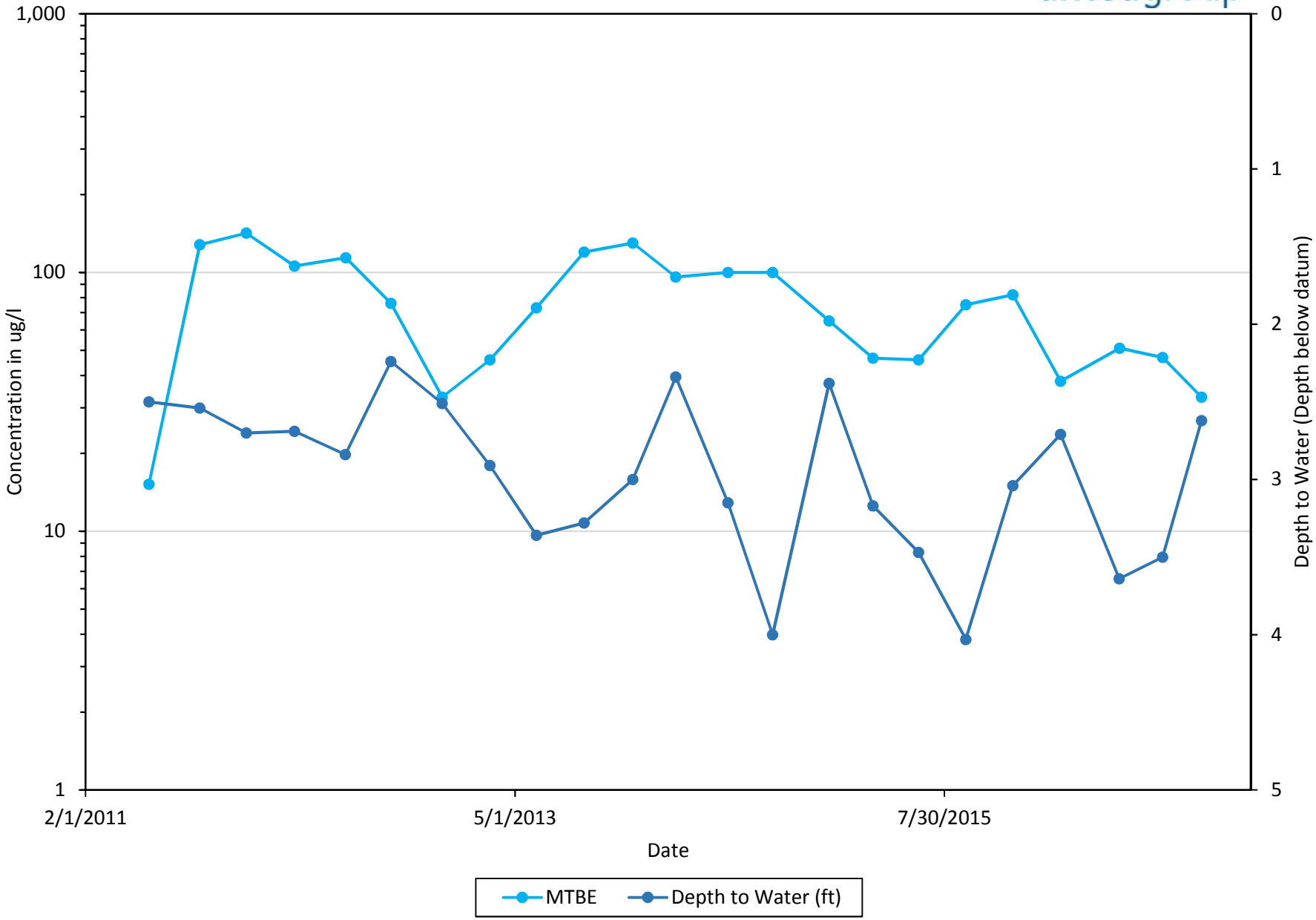
MW-11
MTBE Concentrations
and Depth to Water Versus Time



MW-13
MTBE Concentrations
and Depth to Water Versus Time



MW-15
MTBE Concentrations
and Depth to Water Versus Time



MW-16
MTBE & TPHd Concentrations
and Depth to Water Versus Time