Nicole M. Arceneaux
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6912
nicole.arceneaux@chevron.com

October 14, 2015

RECEIVED
By Alameda County Environmental Health 10:41 am, Oct 16, 2015

Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **76 Service Station No. 1156 (351645)**
4276 MacArthur Boulevard, Oakland, California

ACEH Fuel Leak Case No. RO0000409
RWQCB Case No. 01-2474
GeoTracker Global ID T0600102279

I have reviewed the attached report dated October 14, 2015.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by AECOM, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13257(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Nicole Arceneaux
Project Manager

Attachment: *Third Quarter 2015 Semiannual Groundwater Monitoring and Sampling Report*

AECOM
1220 Avenida Acaso
Camarillo, California 93012

tel 805-388-3775
fax 805-388-3577

October 14, 2015

Mr. Jerry Wickham, PG, CEG, CHG
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577
(via internet upload)

Subject: Third Quarter 2015 Semiannual Groundwater Monitoring and Sampling Report
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard, Oakland, California
Fuel Leak Case No. RO0000409 and GeoTracker Global ID T0600102279

Dear Mr. Wickham:

On behalf of Chevron Environmental Management Company's (EMC's) affiliate, Union Oil Company of California ("Union Oil"), AECOM is pleased to submit this third quarter 2015 semiannual groundwater monitoring and sampling report for the site located at 4276 West MacArthur Boulevard in Oakland, California (**Figure 1**).

The locations of site features are illustrated on **Figure 2**. Groundwater monitoring is conducted to evaluate the distribution of petroleum hydrocarbon constituents in groundwater beneath the site. The fieldwork was performed by Gettler-Ryan Inc. (GR). This report summarizes results for the groundwater samples collected from the wells associated with the site during the third quarter of 2015.

Groundwater Level Measurements

Well construction details are presented in **Table 1**. Depth to groundwater measurements were recorded for 12 on-site monitoring wells (MW-1B, MW-2B, MW-3B, MW-4B, MW-9A, MW-9B, MW-10A, MW-10B, MW-10S, MW-11A, MW-11B, and MW-11S) and for two off-site monitoring wells (MW-5 and MW-7) on July 21, 2015, and are presented in **Table 2**. Groundwater measurements were used to construct a groundwater elevation contour map included as **Figure 3**. The depth to groundwater ranged from 2.58 (MW-5) to 10.35 (MW-2B) feet below the top of well casings.

The groundwater flow direction on-site was calculated to flow west-southwest off-site with an average hydraulic gradient of approximately 0.06 feet per foot (ft/ft). The groundwater flow direction and gradient are similar to the first quarter 2015 monitoring event (0.06 ft/ft, northwest across the site, and southwest off-site). Copies of the groundwater sampling/purge logs are included in **Attachment 1**.

Groundwater Sampling and Analytical Results

Groundwater samples were collected from wells MW-3B, MW-9A, MW-10A, MW-10B, MW-10S, MW-11A, MW-11B, and MW-11S. Wells MW-1B, MW-2B, MW-4B, MW-5, MW-7, and MW-9B are sampled annually during the first quarter. The groundwater samples were submitted to BC Laboratories, Inc. in Bakersfield, California, for analysis of total petroleum hydrocarbons

(TPH)-gasoline range organics (TPH-GRO) by Environmental Protection Agency (EPA) by EPA Method 8015B; TPH-diesel range organics (TPH-DRO) by EPA Method 8015B/TPHd with silica gel cleanup; benzene, toluene, ethylbenzene, total xylenes (BTEX) by EPA Method 8020; fuel oxygenate compounds: methyl t-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl t-butyl ether (ETBE), t-amyl methyl ether (TAME), t-butyl alcohol (TBA), 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), and ethanol by EPA Method 8260B; and oil and grease by EPA Method 1664A HEM. The samples were also analyzed for monitored natural attenuation (MNA) parameters: methane by Method RSK-175M, nitrate as NO3 and sulfate by EPA Method 300.0; ferrous iron (Iron [II] Species) by Method SM-3500-FeD, and dissolved manganese by EPA Method 200.8.

Groundwater sampling results from this sampling event for oil and grease, TPH-DRO, TPH-GRO, BTEX, MTBE, TBA, ethanol, EDC, DIPE, ETBE, and TAME are summarized in **Tables 2 and 3**. MNA parameters are summarized in **Table 4**. Historical groundwater sampling results for these compounds are provided in **Tables 5 through 7**. Additional historical analytes are provided in **Tables 8a through 8k**. A map depicting dissolved-phase concentrations of TPH-DRO, TPH-GRO, BTEX, MTBE, and TBA in groundwater on July 21, 2015, is included as **Figure 4**. A copy of the certified laboratory analytical report with chain-of-custody documentation is included in **Attachment 2**.

The most recent monitoring data (third quarter 2015) for adjacent Former Shell Service Station No. 13-5701 (Alameda County Health Care Services Agency Environmental Health Services Case No. RO0000486, 4255 MacArthur Boulevard) are included as **Attachment 3** for reference.

Interpretation of Groundwater Data

Although historical site assessments indicated the presence of a confined aquifer under hydrostatic pressure, based on historical soil boring logs, and well installation in March 2013, AECOM concluded that the aquifer is generally unconfined. Shallow monitoring wells (MW-9A/B, MW-10A/B/S, and MW-11A/B/S) exhibited a hydraulic head consistent with those installed to 25 feet below ground surface (ft. bgs). Recharge occurred after purging during the most recent monitoring event.

Current groundwater analytical data (MW-9A/B, MW-10A/B/S, and MW-11A/B/S) indicate a non-uniform vertical distribution of groundwater impacts, likely due to the fine-grained nature of the subsurface soil. Although concentrations for the wells screened at 10 to 15 ft. bgs are the highest, horizontal migration appears to be impeded by the soil type, as the plume appears to be largely contained to the site boundaries. Off-site, downgradient wells (MW-5 and MW-7) are screened from 5 to 25 ft. bgs. Both wells have exhibited a declining trend for TPH-GRO, benzene, and MTBE since installation in 2001, suggesting that plume migration from the site is not occurring. In addition, the vertical migration of hydrocarbons appears to be limited. Impacts for wells screened at 20 to 25 ft. bgs are as much as four orders of magnitude less than those observed for the wells screened at 10 to 15 ft. bgs.

Groundwater samples collected on July 21, 2015, were analyzed for MNA parameters including methane, nitrate, sulfate, ferrous iron, and dissolved manganese, to evaluate if natural attenuation by anaerobic biodegradation is occurring beneath the site. Based on the analytical results for MNA parameters, depleted concentrations of nitrate and sulfate (electron donors for anaerobic reduction) were observed for wells with hydrocarbon impacts (such as MW-10A, MW-10B, MW-11A, and MW-11B). Additionally, ferrous iron and dissolved manganese concentrations (by-products of anaerobic reduction) are generally elevated for the impacted wells. Methane (product of anaerobic

hydrocarbon digestion) was also found to be elevated at MW-11A. These geochemical trends are indicative of anaerobic biodegradation occurring within the dissolved-phase hydrocarbon plume.

Activities Completed for This Period

GR conducted groundwater monitoring and sampling on July 21, 2015.

Activities Planned for Next Period

The next groundwater monitoring and sampling event will be conducted in January 2016, and will be coordinated with adjacent Former Shell Service Station No. 13-5701.

Remarks/Signatures

The interpretations in this report represent AECOM's professional opinions and are based, in part, on the information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact Chad Roper at (805) 764-4027.

Sincerely,

Chad Roper, PhD
Project Manager

Dana Files, PG No. 8410
Project Geologist

ecs: Ms. Nicole Arceneaux, EMC *(via electronic copy)*
Mr. Rajan Goswamy, property owner *(via email)*

Enclosures:

Figures
Figure 1 - Site Location Map
Figure 2 - Site Plan
Figure 3 - Third Quarter 2015 Semiannual Groundwater Elevation Map
Figure 4 - Third Quarter 2015 Semiannual Groundwater Analytical Data Map

Tables
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Table 8b - Historical Groundwater Analytical Results – Additional Analytes
Table 8c - Historical Groundwater Analytical Results – Additional Analytes
Table 8d - Historical Groundwater Analytical Results – Additional Analytes

Table 8e - Historical Groundwater Analytical Results – Additional Analytes
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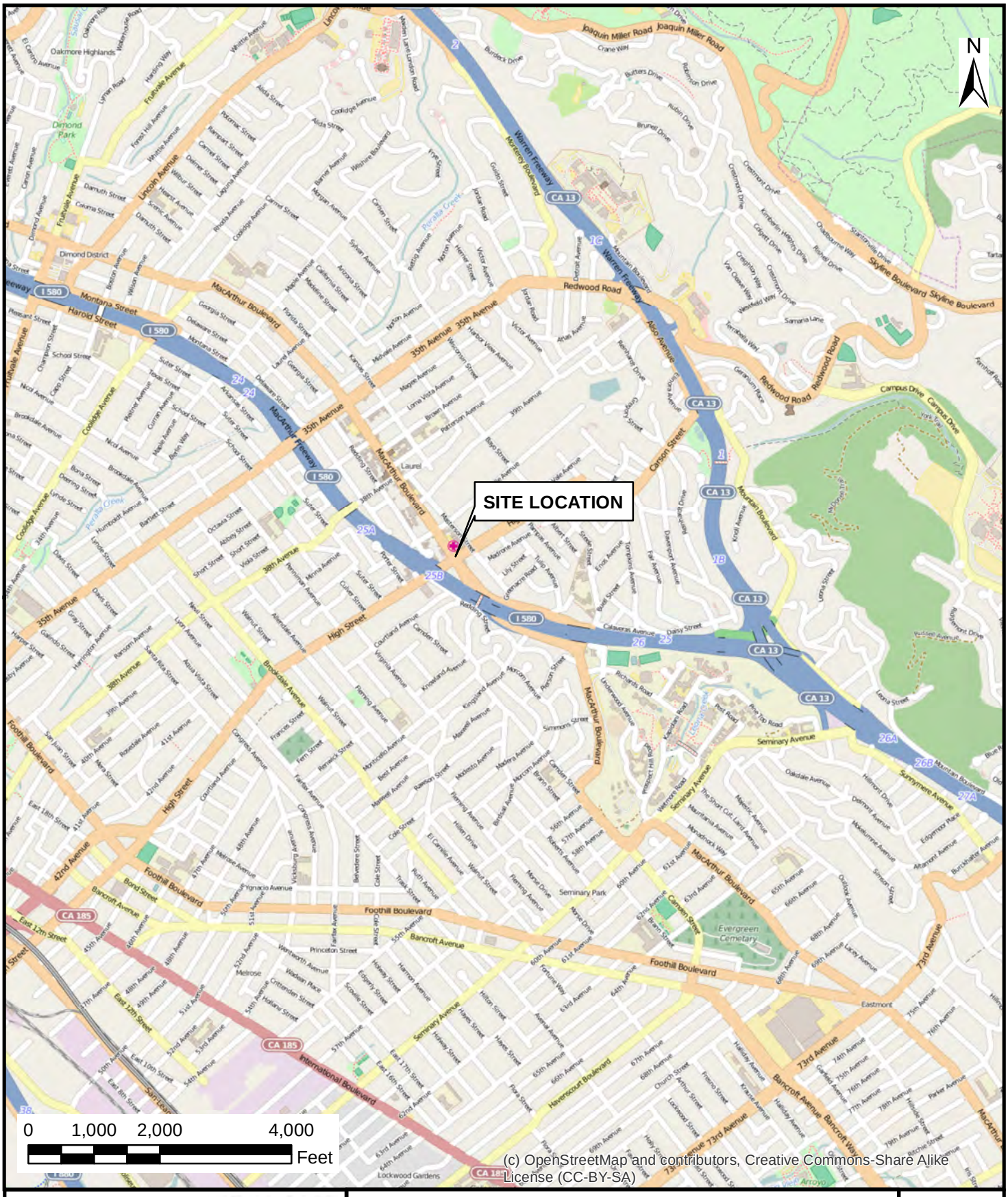
Table 8k - Historical Groundwater Analytical Results – Additional Analytes

Attachments:

Attachment 1 - Groundwater Sampling/Purge Logs
Attachment 2 - Laboratory Analytical Report and Chain-of-Custody Documentation
Attachment 3 - Adjacent Site Monitoring Data – Former Shell Service Station No. 13-5701, 4255 MacArthur Boulevard, Oakland, California

FIGURES



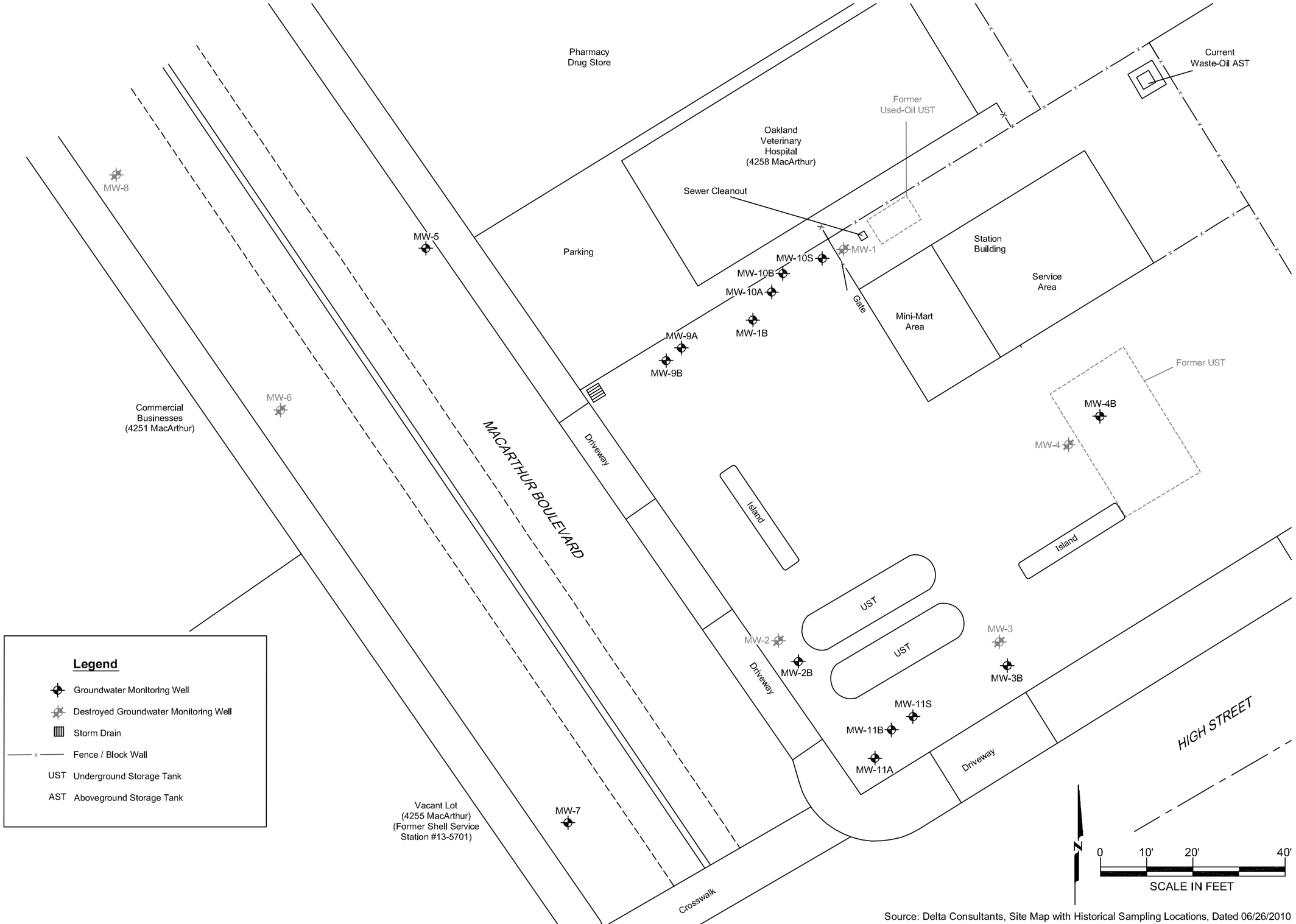
AECOM
1220 AVENIDA ACASO
CAMARILLO, CALIFORNIA 93012
PHONE: 805.388.3775
FAX: 805.388.3577
WEB: HTTP://WWW.AECOM.COM

SITE LOCATION MAP

76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

FIGURE NUMBER:
1

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
M. Scop	02/17/2015	60339178	1 of 1



Legend

- Groundwater Monitoring Well
- Destroyed Groundwater Monitoring Well
- Storm Drain
- x — Fence / Block Wall
- UST Underground Storage Tank
- AST Aboveground Storage Tank

Source: Delta Consultants, Site Map with Historical Sampling Locations, Dated 06/26/2010
MW well locations from Morrow Surveying Land Surveyors, 7/3/2014

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C. Roper	T. Quiroz	D. Files	C. Roper

AECOM
AECOM
1220 AVENIDA ACASO
CAMARILLO, CALIFORNIA 93012
PHONE: (805) 388-3775
FAX: (805) 388-3577

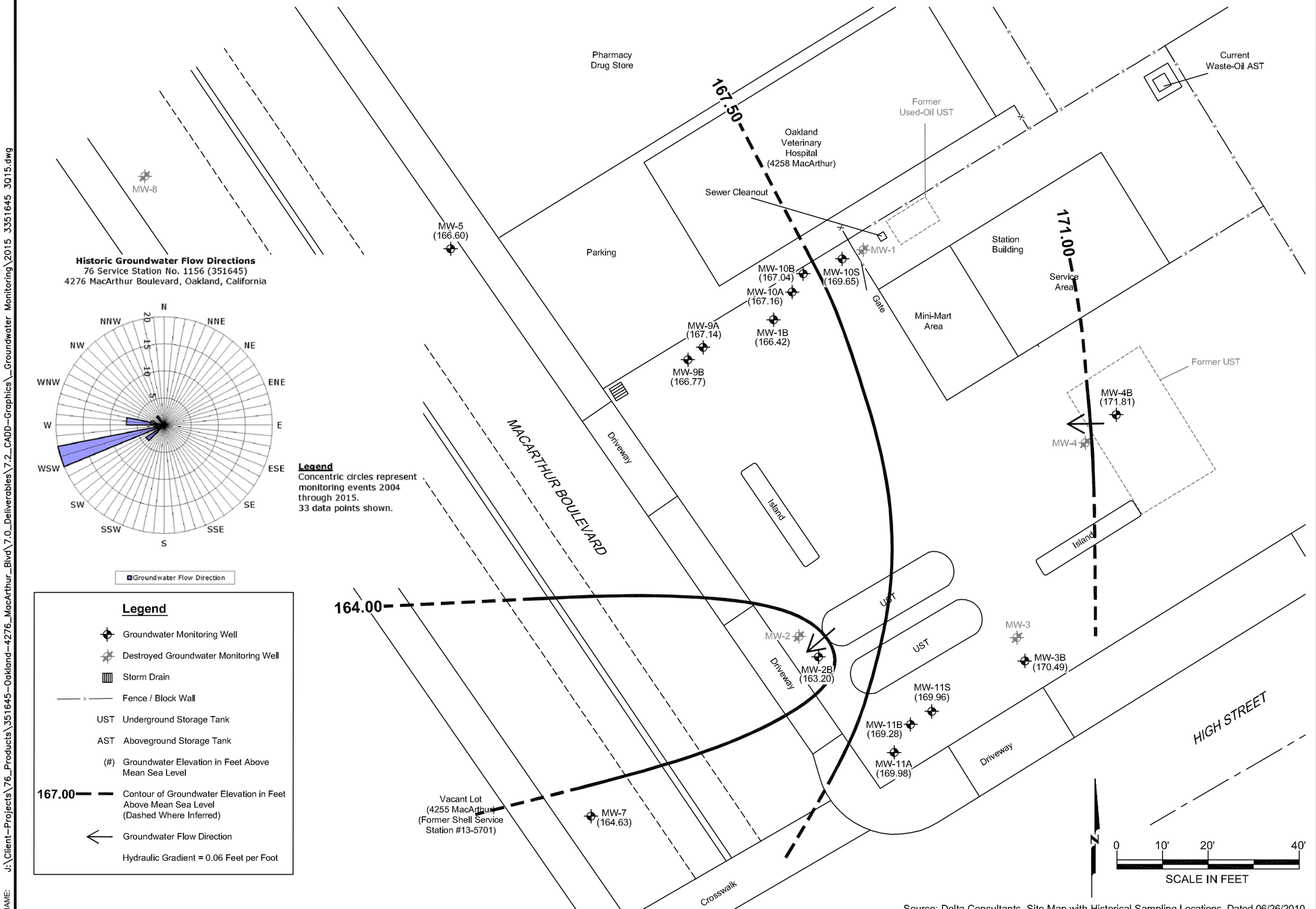
Site Plan
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

PROJECT NUMBER:	DATE:	SCALE:
60339178	09/15/2015	1" = 20'

FIGURE NUMBER:
2

SHEET NUMBER:
1 of 1

FILENAME: J:\Client--Projects\76_Products\351645--Oakland--4276_MacArthur_Blvd\7.0_Deliverables\7.2_CADD--Graphics_Groundwater Monitoring\2015 3351645 3Q15.dwg



Historic Groundwater Flow Directions
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard, Oakland, California

Legend
Concentric circles represent monitoring events 2004 through 2015.
33 data points shown.

Legend

- Groundwater Monitoring Well
- Destroyed Groundwater Monitoring Well
- Storm Drain
- Fence / Block Wall
- UST Underground Storage Tank
- AST Aboveground Storage Tank
- (#) Groundwater Elevation in Feet Above Mean Sea Level
- 167.00 Contour of Groundwater Elevation in Feet Above Mean Sea Level (Dashed Where Inferred)
- Groundwater Flow Direction
- Hydraulic Gradient = 0.06 Feet per Foot

Source: Delta Consultants, Site Map with Historical Sampling Locations, Dated 06/26/2010
MW well locations from Morrow Surveying Land Surveyors, 7/3/2014

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY: C. Roper
DRAWN BY: T. Quiroz
CHECKED BY: D. Files
APPROVED BY: C. Roper

AECOM
AECOM
1220 AVENIDA ACASO
CAMARILLO, CALIFORNIA 93012
PHONE: (805) 388-3775
FAX: (805) 388-3577

Third Quarter 2015 Semiannual Groundwater Elevation Map

76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

SCALE: 1" = 20'
DATE: 09/15/2015
PROJECT NUMBER: 60339178

FIGURE NUMBER: 3

SHEET NUMBER: 1 of 1

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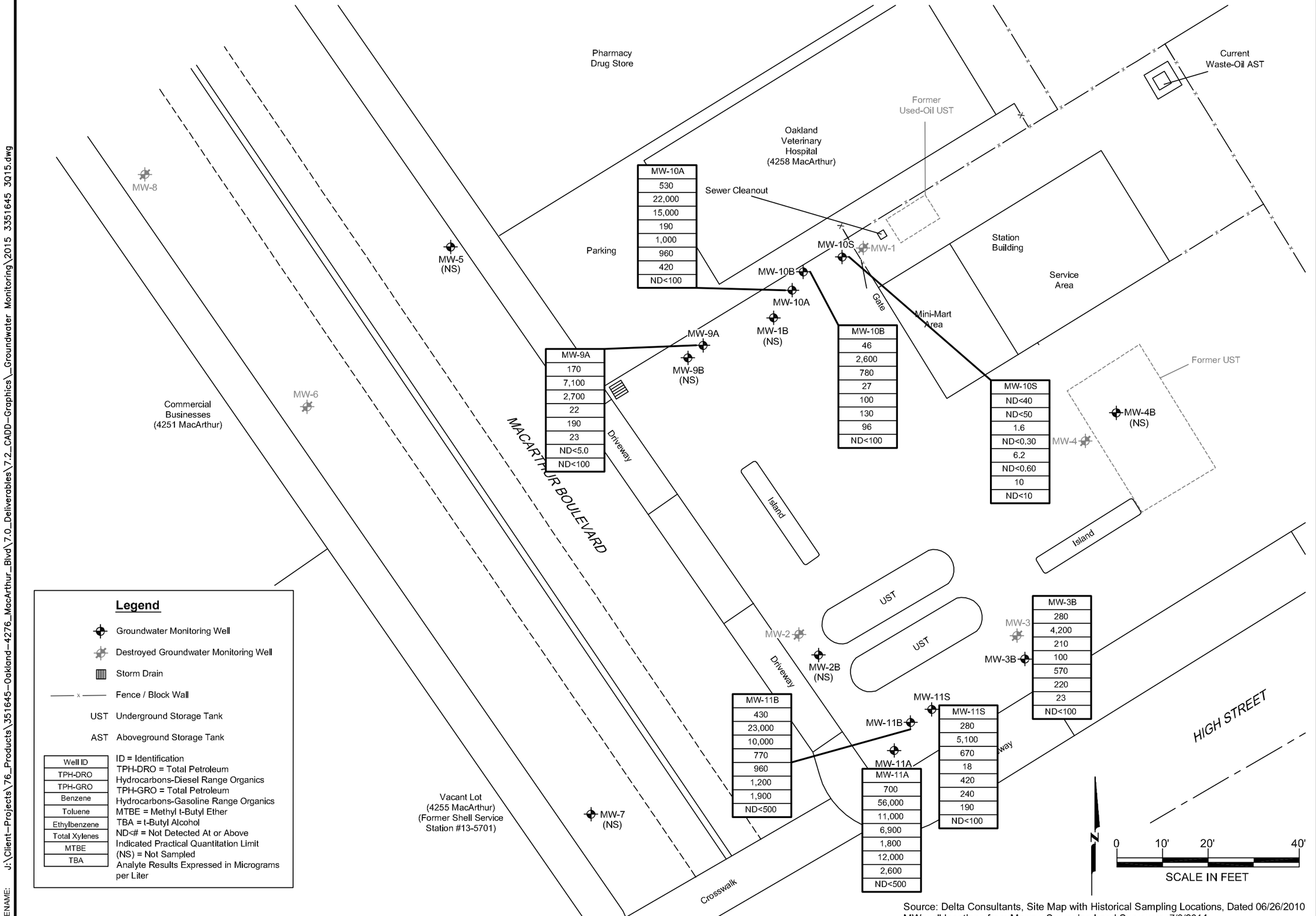

Legend

- Groundwater Monitoring Well
- Destroyed Groundwater Monitoring Well
- Storm Drain
- Fence / Block Wall
- UST Underground Storage Tank
- AST Aboveground Storage Tank

Well ID
TPH-DRO
TPH-GRO
Benzene
Toluene
Ethylbenzene
Total Xylenes
MTBE
TBA

ID = Identification
TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
MTBE = Methyl t-Butyl Ether
TBA = t-Butyl Alcohol
ND<# = Not Detected At or Above Indicated Practical Quantitation Limit
(NS) = Not Sampled
Analyte Results Expressed in Micrograms per Liter

Source: Delta Consultants, Site Map with Historical Sampling Locations, Dated 06/26/2010
MW well locations from Morrow Surveying Land Surveyors, 7/3/2014

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY: C. Roper
DRAWN BY: T. Quiroz
CHECKED BY: D. Files
APPROVED BY: C. Roper

AECOM
1220 AVENIDA ACASO
CAMARILLO, CALIFORNIA 93012
PHONE: (805) 388-3775
FAX: (805) 388-3577

Third Quarter 2015 Semiannual Groundwater Analytical Data Map

76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

PROJECT NUMBER: 60339178
DATE: 09/15/2015
SCALE: 1" = 20'

FIGURE NUMBER: 4

SHEET NUMBER: 1 of 1

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TABLES

Table 1
Well Construction Details
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

Well ID	Well Installation Date	Casing Diameter (in.)	Boring Depth (ft. bgs)	Screen Interval (ft. bgs)	Screen Size (in.)	Filter Pack (ft. bgs)	Bentonite Seal (ft. bgs)	Grout Interval (ft. bgs)
MW-1*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-1B	8/17/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-2*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-2B	8/16/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-3*	7/16/1999	2	31.5	5-25	0.01	4-27	3-4; 27-31.5	0-3
MW-3B	8/16/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-4*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-4B	8/13/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-5	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-6	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-7	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-8	10/30/2007	2	25	15-25	0.01	13-25	11-13	1-11
MW-9A	3/18/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-9B	3/18/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-10A	3/18/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-10B	3/18/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-10S	6/12/2014	4	10	6.5-10	0.02	3.5-10	1-3.5	n/a
MW-11A	3/19/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-11B	3/19/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-11S	6/11/2014	4	10	6.5-10	0.02	3.5-10	1-3.5	n/a

Notes:

* = Destroyed and replaced with "B" well in 2010
ft. bgs = Feet below ground surface
ID = Identification
in. = Inches
n/a = Not available

Table 2
Current Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1B	7/21/2015	174.06	7.64	0	166.42	--	--	--	--	--	--	--	Sampled Q1 only
MW-2B	7/21/2015	173.55	10.35	0	163.20	--	--	--	--	--	--	--	Sampled Q1 only
MW-3B	7/21/2015	177.77	7.28	0	170.49	--	280	4,200	210	100	570	220	
MW-4B	7/21/2015	179.07	7.26	0	171.81	--	--	--	--	--	--	--	Sampled Q1 only
MW-5	7/21/2015	169.18	2.58	0	166.60	--	--	--	--	--	--	--	Sampled Q1 only
MW-7	7/21/2015	172.11	7.48	0	164.63	--	--	--	--	--	--	--	Sampled Q1 only
MW-9A	7/21/2015	173.01	5.87	0	167.14	--	170	7,100	2,700	22	190	23	
MW-9B	7/21/2015	172.78	6.01	0	166.77	--	--	--	--	--	--	--	Sampled Q1 only
MW-10A	7/21/2015	174.48	7.32	0	167.16	--	530	22,000	15,000	190	1,000	960	
MW-10B	7/21/2015	174.62	7.58	0	167.04	--	46	2,600	780	27	100	130	
MW-10S	7/21/2015	175.57	5.92	0	169.65	ND<5,000	ND<40	ND<50	1.6	ND<0.30	6.2	ND<0.60	
MW-11A	7/21/2015	175.37	5.39	0	169.98	--	700	56,000	11,000	6,900	1,800	12,000	
MW-11B	7/21/2015	174.65	5.37	0	169.28	--	430	23,000	10,000	770	960	1,200	
MW-11S	7/21/2015	176.09	6.13	0	169.96	ND<5,000	280	5,100	670	18	420	240	
QA	7/21/2015	--	--	--	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

NOTES:
* TOC and GWE are in feet above mean sea level
Oil and grease analyzed by Environmental Protection Agency (EPA) Method 1664A HEM
TPH-DRO with SGC analyzed by EPA Method 8015B/TPHd
TPH-GRO analyzed by EPA Method 8015B
BTEX analyzed by EPA Method 8020
µg/L = Micrograms per liter
-- = Not available/not sampled
B = Benzene
DTW = Depth to water below TOC
E = Ethylbenzene
ft = Feet
GWE = Groundwater elevation
ID = Identification
LNAPL = Light non-aqueous phase liquid
ND<# = Analyte not detected at or above indicated practical quantitation limit
Q1 = 1st quarter
QA = Trip blank
T = Toluene
TOC = Top of casing
TPH-DRO W/SGC = Total petroleum hydrocarbons-diesel range organics with silica gel cleanup
TPH-GRO = Total petroleum hydrocarbons-gasoline range organics
X = Total xylenes

Table 3
Current Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1B	7/21/2015	--	--	--	--	--	--	--	--
MW-2B	7/21/2015	--	--	--	--	--	--	--	--
MW-3B	7/21/2015	23	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-4B	7/21/2015	--	--	--	--	--	--	--	--
MW-5	7/21/2015	--	--	--	--	--	--	--	--
MW-7	7/21/2015	--	--	--	--	--	--	--	--
MW-9A	7/21/2015	ND<5.0	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-9B	7/21/2015	--	--	--	--	--	--	--	--
MW-10A	7/21/2015	420	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-10B	7/21/2015	96	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-10S	7/21/2015	10	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-11A	7/21/2015	2,600	ND<500	ND<12,000	ND<25	ND<25	ND<25	ND<25	ND<25
MW-11B	7/21/2015	1,900	ND<500	ND<12,000	ND<25	ND<25	ND<25	ND<25	ND<25
MW-11S	7/21/2015	190	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
QA	7/21/2015	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

NOTES:

Oxygenate compounds analyzed by Environmental Protection Agency Method 8260B

µg/L = Micrograms per liter

-- = Not sampled

DIPE = Diisopropyl ether

EDB = 1,2-dibromoethane

EDC = 1,2-dichloroethane

ETBE = Ethyl t-butyl ether

ID = Identification

MTBE = Methyl t-butyl ether

ND<# = Analyte not detected at or above indicated practical quantitation limit

QA = Trip blank

TAME = t-amyl methyl ether

TBA = t-butyl alcohol

Table 4
Current Groundwater Analytical Results - Monitored Natural Attenuation Parameters
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	METHANE (mg/L)	NITRATE AS NO3 (mg/L)	SULFATE (mg/L)	IRON (II) SPECIES (µg/L)	DISSOLVED MANGANESE (µg/L)
MW-3B	7/21/2015	4.3	ND<0.44	ND<1.0	2,600	8.5
MW-9A	7/21/2015	0.91	ND<0.44	ND<1.0	6,000	1,300
MW-10A	7/21/2015	1.0	ND<0.44	ND<1.0	5,500	1,200
MW-10B	7/21/2015	0.20	ND<0.44	ND<1.0	5,300	1,100
MW-10S	7/21/2015	0.50	ND<0.44	51	2,400	1,600
MW-11A	7/21/2015	2.7	ND<0.44	ND<1.0	8,400	1,500
MW-11B	7/21/2015	0.48	ND<0.44	ND<1.0	3,100	1,800
MW-11S	7/21/2015	0.65	ND<0.44	ND<1.0	5,200	1,700

NOTES:

Methane analyzed by Method RSK-175M

Nitrate as NO3 and sulfate analyzed by Environmental Protection Agency (EPA) Method 300.0

Iron (II) Species analyzed by Method SM-3500-FeD

Dissolved Manganese analyzed by EPA Method 200.8

µg/L = Micrograms per liter

-- = Not sampled

ID = Identification

mg/L = Milligrams per liter

ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1	7/20/1999	174.86	7.50	0	167.36	--	16,000	120,000	--	11,000	27,000	3,300	18,000	
	9/28/1999	174.86	8.75	0	166.11	--	2,410	6,020	--	1,030	1,040	68.5	412	
	1/7/2000	174.86	9.05	0.02	165.82	--	7,870	72,700	--	7,410	13,900	2,070	9,620	GWE corrected
	3/31/2000	174.86	7.18	0	167.68	--	3,600	92,000	--	10,000	23,000	3,200	14,000	
	7/14/2000	174.86	7.68	0	167.18	--	8,580	108,000	--	8,250	18,700	3,750	17,800	
	10/3/2000	174.86	7.99	0	166.87	--	9,260	96,000	--	8,760	20,000	3,350	15,600	
	1/3/2001	174.86	9.18	0	165.68	--	11,000	37,000	--	5,800	13,000	1,700	8,100	
	4/4/2001	174.86	8.05	0	166.81	--	14,000	86,900	--	7,780	18,500	2,470	11,800	
	7/17/2001	174.86	7.01	0	167.85	--	2,200	79,000	--	5,600	11,000	2,800	12,000	
	10/3/2001	177.54	7.89	0	169.65	--	--	99,000	--	8,200	18,000	3,000	16,000	
	10/5/2001	177.54	7.91	0	169.63	--	13,000	--	--	--	--	--	--	
	1/28/2002	177.54	5.98	0	171.56	--	4,400	110,000	--	8,900	19,000	2,600	12,000	
	4/25/2002	177.54	6.19	0	171.35	--	9,000	93,000	--	8,100	18,000	3,000	15,000	
	7/18/2002	177.54	6.99	0	170.55	--	9,200	69,000	--	5,400	10,000	2,100	10,000	
	10/7/2002	177.54	7.73	0	169.81	--	3,400	82,000	--	9,200	20,000	2,600	13,000	
	1/6/2003	177.54	5.48	0	172.06	--	5,100	82,000	--	6,500	18,000	2,700	11,000	
	4/7/2003	177.54	6.30	0	171.24	--	2,800	74,000	--	7,000	15,000	2,400	11,000	
	7/7/2003	177.54	6.47	0	171.07	--	7,000	60,000	--	6,400	11,000	2,600	11,000	
	10/9/2003	177.54	7.85	0	169.69	--	4,300	91,000	81,000	8,100	17,000	3,200	14,000	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	177.54	6.69	0	170.85	--	6,200	98,000	--	8,000	21,000	2,600	15,000	
	4/28/2004	177.54	6.43	0	171.11	--	--	93,000	--	9,000	20,000	1,300	10,000	
	7/12/2004	177.54	7.44	0	170.10	--	270	57,000	--	6,900	7,200	1,600	580	
	10/25/2004	177.54	7.54	0	170.00	--	5,100	66,000	--	7,300	19,000	2,700	14,000	
	1/17/2005	177.54	5.79	0	171.75	--	6,400	86,000	--	8,600	21,000	3,200	15,000	
	4/6/2005	177.54	4.93	0	172.61	--	2,800	85,000	--	8,400	20,000	3,200	16,000	
	7/8/2005	177.54	5.35	0	172.19	--	6,400	69,000	--	7,100	17,000	2,700	14,000	
	10/7/2005	177.54	5.96	0	171.58	--	5,500	68,000	--	5,900	8,300	1,800	8,300	
	1/27/2006	177.54	5.08	0	172.46	--	9,000	94,000	--	7,400	19,000	3,700	14,000	
	4/28/2006	177.54	4.85	0	172.69	--	9,200	74,000	--	6,400	13,000	2,300	10,000	
	7/28/2006	177.54	5.32	0	172.22	--	5,100	74,000	--	6,600	12,000	3,100	13,000	
	10/27/2006	177.54	6.13	0	171.41	--	4,600	100,000	--	8,300	20,000	3,600	16,000	
	1/10/2007	177.54	5.47	0	172.07	--	12,000	84,000	--	7,100	15,000	2,600	13,000	
	4/13/2007	177.54	5.60	0	171.94	--	8,400	27,000	--	5,600	840	2,300	3,200	
	7/19/2007	177.54	5.69	0	171.85	--	10,000	83,000	--	6,000	15,000	2,600	13,000	
	10/8/2007	177.54	--	--	--	--	--	--	--	--	--	--	--	Gate locked; no key available
	1/9/2008	177.54	5.15	0	172.39	--	12,000	40,000	--	6,000	4,800	2,600	5,100	Gauged on 1/18/2008
	4/4/2008	177.54	5.25	0	172.29	--	15,000	71,000	--	6,800	12,000	3,300	13,000	
	7/3/2008	177.54	6.00	0	171.54	--	9,300	92,000	--	7,000	16,000	3,500	15,000	
	10/3/2008	177.54	7.16	0	170.38	--	4,400	69,000	--	7,200	18,000	3,500	14,000	
	1/22/2009	177.54	6.61	0	170.93	--	8,000	45,000	--	410	720	2,400	9,600	
	4/13/2009	177.54	5.11	0	172.43	--	4,800	5,400	--	300	640	300	940	
	7/23/2009	177.54	6.04	0	171.50	--	2,800	85,000	--	5,800	15,000	3,500	13,000	
	2/1/2010	177.54	4.86	0	172.68	ND<5,000	3,900	74,000	--	7,000	11,000	3,100	10,000	
	8/2/2010	177.54	5.68	0	171.86	ND<5,000	3,900	71,000	--	7,000	11,000	3,300	10,000	
	8/24/2010						DESTROYED							
MW-1B	11/1/2010	174.05	7.15	0	166.90	ND<5,000	ND<50	99	--	3.0	0.30	ND<0.30	ND<0.60	
	1/31/2011	174.05	6.62	0	167.43	ND<5,000	ND<50	170	--	6.7	0.64	0.33	ND<0.60	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	4/26/2011	174.05	6.14	0	167.91	ND<5,000	ND<50	220	--	7.3	0.55	0.32	0.69	
	7/25/2011	174.05	6.69	0	167.36	ND<5,000	ND<40	140	--	7.8	0.35	ND<0.30	ND<0.60	
	10/7/2011	174.06	6.86	0	167.20	ND<5,000	ND<40	120	--	5.7	ND<0.30	ND<0.30	ND<0.60	
	1/23/2012	174.06	6.96	0	167.10	ND<5,000	ND<40	89	--	3.6	ND<0.30	ND<0.30	ND<0.60	
	4/6/2012	174.06	5.89	0	168.17	ND<5,000	ND<40	110	--	4.5	ND<0.30	ND<0.30	ND<0.60	
	7/24/2012	174.06	6.98	0	167.08	ND<5,000	ND<40	130	--	6.2	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	174.06	6.65	0	167.41	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	174.06	7.11	0	166.95	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	0.61	
	1/16/2014	174.06	7.73	0	166.33	ND<5,000	ND<40	ND<50	--	1.0	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	174.06	7.18	0	166.88	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	174.06	6.63	0	167.43	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	**174.06**	**7.64**	**0**	**166.42**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**Sampled Q1 only**
MW-2	7/20/1999	173.01	5.40	--	167.61	--	--	ND	--	ND	ND	ND	ND	
	9/28/1999	173.01	5.60	0	167.41	--	--	1,390	--	124	ND	62.9	43.1	
	1/7/2000	173.01	5.92	0	167.09	--	--	1,450	--	99	ND	23.8	16	
	3/31/2000	173.01	5.23	0	167.78	--	--	ND	--	42	ND	ND	ND	
	7/14/2000	173.01	5.52	0	167.49	--	--	ND	--	44.7	ND	ND	ND	
	10/3/2000	173.01	6.04	0	166.97	--	--	ND	--	56.7	ND	ND	ND	
	1/3/2001	173.01	6.42	0	166.59	--	--	ND	--	ND	ND	ND	ND	
	4/4/2001	173.01	6.14	0	166.87	--	--	ND	--	ND	ND	ND	ND	
	7/17/2001	173.01	5.30	0	167.71	--	--	ND	--	ND	ND	ND	ND	
	10/3/2001	173.50	7.38	0	166.12	--	--	ND<250	--	2.7	ND<2.5	ND<2.5	ND<2.5	
	1/28/2002	173.50	5.68	0	167.82	--	--	ND<250	--	2.5	4.4	2.8	7.4	
	4/25/2002	173.50	5.82	0	167.68	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/18/2002	173.50	6.90	0	166.60	--	--	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	10/7/2002	173.50	7.54	0	165.96	--	--	4,300	--	ND<10	27	21	75	
	1/6/2003	173.50	6.79	0	166.71	--	--	5,900	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	4/7/2003	173.50	6.49	0	167.01	--	--	1,500	--	ND<10	14	11	38	
	7/7/2003	173.50	6.72	0	166.78	--	--	ND<2,500	--	ND<25	ND<25	ND<25	ND<25	
	10/9/2003	173.50	7.16	0	166.34	--	--	3,500	ND<5,000	ND<50	ND<50	ND<50	ND<100	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	173.50	5.53	0	167.97	--	--	3,200	--	ND<25	ND<25	ND<25	ND<25	
	4/28/2004	173.50	5.21	0	168.29	--	--	22,000	--	ND<3	9.2	ND<3	ND<6	
	7/12/2004	173.50	5.83	0	167.67	--	--	1,700	--	3.8	18	2.6	16	
	10/25/2004	173.50	6.89	0	166.61	--	--	3,400	--	ND<25	ND<25	ND<25	ND<25	
	1/17/2005	173.50	5.70	0	167.80	--	--	1,700	--	ND<10	ND<10	ND<10	ND<10	
	4/6/2005	173.50	4.50	0	169.00	--	--	3,000	--	ND<20	ND<20	ND<20	ND<20	
	7/8/2005	173.50	4.69	0	168.81	--	--	ND<2,000	--	ND<20	ND<20	ND<20	ND<20	
	10/7/2005	173.50	4.61	0	168.89	--	--	7,500	--	6.7	6.6	ND<3.0	ND<6.0	
	1/27/2006	173.50	4.10	0	169.40	--	--	2,500	--	1.0	2.6	ND<0.30	ND<0.60	
	4/28/2006	173.50	3.75	0	169.75	--	--	3,100	--	9.4	3.6	0.94	3.4	
	7/28/2006	173.50	4.34	0	169.16	--	--	3,000	--	2.0	ND<1.5	ND<1.5	ND<3.0	
	10/27/2006	173.50	5.62	0	167.88	--	--	1,800	--	1.5	ND<1.5	ND<1.5	ND<3.0	
	1/10/2007	173.50	4.02	0	169.48	--	--	2,100	--	1.1	ND<0.60	ND<0.60	ND<1.2	
	4/13/2007	173.50	4.03	0	169.47	--	--	3,300	--	12	1.6	0.46	1.1	
	7/19/2007	173.50	4.41	0	169.09	--	--	2,500	--	21	0.64	5.1	1.5	
	10/8/2007	173.50	4.93	0	168.57	--	--	3,400	--	38	1.6	13	2.1	
	1/9/2008	173.50	3.03	0	170.47	--	--	1,700	--	6.2	2.5	0.61	0.91	Gauged on 1/18/2008

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Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	4/4/2008	173.50	3.52	0	169.98	--	--	1,400	--	15	2.1	0.76	ND<0.60	
	7/3/2008	173.50	4.70	0	168.80	--	--	1,100	--	14	1.1	2.0	1.2	
	10/3/2008	173.50	5.57	0	167.93	--	ND<50	740	--	14	ND<0.30	4.5	6.9	
	1/22/2009	173.50	5.03	0	168.47	--	ND<50	640	--	4.6	ND<0.30	ND<0.30	ND<0.60	
	4/13/2009	173.50	3.73	0	169.77	--	ND<50	940	--	7.1	ND<0.30	ND<0.30	ND<0.60	
	7/23/2009	173.50	4.39	0	169.11	--	230	700	--	12	6.0	5.4	13	
	2/1/2010	173.50	4.33	0	169.17	--	140	860	--	17	13	0.83	2.4	
	8/2/2010	173.50	5.16	0	168.34	--	210	1,200	--	9.5	32	1.4	2.4	
	8/24/2010						DESTROYED							
MW-2B	11/1/2010	173.55	11.27	0	162.28	--	57	550	--	7.8	2.7	2.1	0.99	
	1/31/2011	173.55	7.79	0	165.76	--	ND<50	420	--	1.7	0.47	0.59	ND<0.60	
	4/26/2011	173.55	9.09	0	164.46	--	ND<50	390	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/25/2011	173.55	3.91	0	169.64	--	ND<40	210	--	1.7	ND<0.30	ND<0.30	ND<0.60	
	10/7/2011	173.55	4.50	0	169.05	--	52	110	--	1.0	ND<0.30	ND<0.30	ND<0.60	
	1/23/2012	173.55	6.96	0	166.59	--	ND<40	110	--	0.73	ND<0.30	ND<0.30	ND<0.60	
	4/6/2012	173.55	5.67	0	167.88	--	ND<40	120	--	0.36	ND<0.30	ND<0.30	ND<0.60	
	7/24/2012	173.55	5.33	0	168.22	--	ND<40	73	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	173.55	4.58	0	168.97	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	173.55	7.06	0	166.49	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/16/2014	173.55	5.58	0	167.97	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	173.55	6.18	0	167.37	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	173.55	4.98	0	168.57	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	**173.55**	**10.35**	**0**	**163.20**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**Sampled Q1 only**
MW-3	7/20/1999	178.44	8.50	--	169.94	--	--	1,000	--	76	52	79	76	
	9/28/1999	178.44	8.31	0	170.13	--	--	1,860	--	174	95.4	71.8	135	
	1/7/2000	178.44	8.56	0	169.88	--	--	28,400	--	2,450	3,090	1,560	3,910	
	3/31/2000	178.44	8.42	0	170.02	--	--	26,000	--	1,300	2,900	2,600	3,500	
	7/14/2000	178.44	8.61	0	169.83	--	--	24,500	--	1,850	2,630	2,750	3,900	
	10/3/2000	178.44	9.14	0	169.30	--	--	22,000	--	1,910	2,020	2,400	2,680	
	1/3/2001	178.44	9.06	0	169.38	--	--	14,000	--	1,600	1,100	2,300	1,400	
	4/4/2001	178.44	8.98	0	169.46	--	--	19,600	--	1,150	1,470	2,100	1,820	
	7/17/2001	178.44	7.46	0	170.98	--	--	26,000	--	1,500	2,100	2,100	3,400	
	10/3/2001	178.13	9.81	0	168.32	--	--	22,000	--	830	1,900	1,700	3,000	
	1/28/2002	178.13	7.39	0	170.74	--	--	30,000	--	880	2,600	1,800	4,300	
	4/25/2002	178.13	7.86	0	170.27	--	--	18,000	--	500	2,000	1,300	3,800	
	7/18/2002	178.13	8.83	0	169.30	--	--	37,000	--	1,800	3,800	2,200	8,000	
	10/7/2002	178.13	9.71	0	168.42	--	--	26,000	--	600	2,000	1,800	6,400	
	1/6/2003	178.13	7.40	0	170.73	--	--	27,000	--	800	2,100	2,000	6,400	
	4/7/2003	178.13	8.17	0	169.96	--	--	28,000	--	660	2,200	1,900	6,300	
	7/7/2003	178.13	8.35	0	169.78	--	--	33,000	--	1,200	2,500	2,700	8,300	
	10/9/2003	178.13	9.39	0	168.74	--	--	3,800	6,000	120	260	390	1,200	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	178.13	6.86	0	171.27	--	--	5,100	--	120	240	310	720	
	4/28/2004	178.13	6.63	0	171.50	--	--	7,300	--	250	440	580	1300	
	7/12/2004	178.13	7.41	0	170.72	--	--	5,500	--	350	310	120	350	
	10/25/2004	178.13	8.81	0	169.32	--	--	3,300	--	96	140	270	490	
	1/17/2005	178.13	6.37	0	171.76	--	--	3,400	--	150	270	360	750	

Table 5
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76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	4/6/2005	178.13	4.69	0	173.44	--	--	14,000	--	420	1,300	1,000	3,100	
	7/8/2005	178.13	5.23	0	172.90	--	--	5,000	--	180	290	500	800	
	10/7/2005	178.13	6.35	0	171.78	--	--	6,800	--	270	120	ND<0.30	210	
	1/27/2006	178.13	5.24	0	172.89	--	--	3,200	--	120	140	270	460	
	4/28/2006	178.13	5.01	0	173.12	--	--	4,500	--	130	250	380	670	
	7/28/2006	178.13	6.21	0	171.92	--	--	4,700	--	160	240	510	730	
	10/27/2006	178.13	6.93	0	171.20	--	--	3,700	--	150	160	460	530	
	1/10/2007	178.13	5.93	0	172.20	--	--	4,800	--	180	160	550	600	
	4/13/2007	178.13	6.10	0	172.03	--	--	5,100	--	180	240	550	710	
	7/19/2007	178.13	6.51	0	171.62	--	--	2,000	--	110	64	220	190	
	10/8/2007	178.13	7.05	0	171.08	--	--	2,100	--	72	65	180	290	
	1/9/2008	178.13	3.65	0	174.48	--	--	4,200	--	200	160	510	580	Gauged on 1/18/2008
	4/4/2008	178.13	5.69	0	172.44	--	--	7,500	--	270	390	810	1,200	
	7/3/2008	178.13	7.28	0	170.85	--	--	2,300	--	99	66	210	220	
	10/3/2008	178.13	8.40	0	169.73	--	1,200	12,000	--	740	620	1,500	2,700	
	1/22/2009	178.13	7.68	0	170.45	--	270	2,000	--	120	79	290	290	
	4/13/2009	178.13	6.28	0	171.85	--	150	3,600	--	110	150	180	510	
	7/23/2009	178.13	7.20	0	170.93	--	310	3,400	--	180	150	360	650	
	2/1/2010	178.13	5.29	0	172.84	--	390	6,500	--	180	92	300	250	
	8/2/2010	178.13	6.83	0	171.30	--	540	8,600	--	140	110	320	1,000	
	8/24/2010						DESTROYED							
MW-3B	11/1/2010	177.77	6.82	0	170.95	--	58	990	--	31	32	47	50	
	1/31/2011	177.77	5.30	0	172.47	--	65	2,800	--	32	20	39	47	
	4/26/2011	177.77	4.64	0	173.13	--	93	2,800	--	36	55	80	82	
	7/25/2011	177.77	5.53	0	172.24	--	100	1,700	--	28	33	80	73	
	10/7/2011	177.77	6.08	0	171.69	--	81	1,700	--	32	20	88	47	
	1/23/2012	177.77	6.90	0	170.87	--	120	1,800	--	39	17	75	20	
	4/6/2012	177.77	4.23	0	173.54	--	ND<40	1,200	--	36	25	80	41	
	7/24/2012	177.77	6.42	0	171.35	--	190	1,500	--	66	10	76	39	
	2/8/2013	177.77	5.60	0	172.17	--	ND<40	4,400	--	170	93	450	150	
	7/10/2013	177.77	6.71	0	171.06	--	350	2,800	--	190	60	530	82	
	1/16/2014	177.77	7.63	0	170.14	5,300	40	3,800	--	190	71	380	210	
	7/22/2014	177.77	6.89	0	170.88	--	370	8,600	--	190	120	670	190	
	1/27/2015	177.77	5.00	0	172.77	--	94	6,400	--	240	84	480	140	
	7/21/2015	**177.77**	**7.28**	**0**	**170.49**	**--**	**280**	**4,200**	**--**	**210**	**100**	**570**	**220**	
MW-4	7/20/1999	179.10	7.40	--	171.70	--	--	69	--	2.7	0.77	ND	7.1	
	9/28/1999	179.10	7.19	0	171.91	--	--	4,050	--	1,250	72	51.3	133	
	1/7/2000	179.10	8.98	0	170.12	--	--	7,010	--	2,260	167	271	276	
	3/31/2000	179.10	7.26	0	171.84	--	--	5,500	--	1,800	230	330	400	
	7/14/2000	179.10	7.67	0	171.43	--	--	7,940	--	2,810	332	450	247	
	10/3/2000	179.10	8.12	0	170.98	--	--	11,400	--	3,110	437	519	816	
	1/3/2001	179.10	9.10	0	170.00	--	--	8,600	--	2,500	340	480	960	
	4/4/2001	179.10	8.63	0	170.47	--	--	9,950	--	2,380	126	416	725	
	7/17/2001	179.10	6.49	0	172.61	--	--	10,000	--	2,300	110	410	800	
	10/3/2001	178.96	7.01	0	171.95	--	--	7,800	--	2,100	85	380	390	
	1/28/2002	178.96	6.21	0	172.75	--	--	12,000	--	2,100	130	350	670	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	4/25/2002	178.96	5.49	0	173.47	--	--	3,300	--	1,300	42	270	250	
	7/18/2002	178.96	8.28	0	170.68	--	--	4,800	--	1,300	71	290	220	
	10/7/2002	178.96	7.49	0	171.47	--	--	5,100	--	1,400	110	330	380	
	1/6/2003	178.96	6.36	0	172.60	--	--	5,600	--	1,100	57	260	320	
	4/7/2003	178.96	6.24	0	172.72	--	--	5,100	--	1,100	55	190	370	
	7/7/2003	178.96	6.43	0	172.53	--	--	3,000	--	920	28	170	330	
	10/9/2003	178.96	7.97	0	170.99	--	--	530	700	100	2.2	5.4	14	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	178.96	6.30	0	172.66	--	--	530	--	88	4.1	9.9	11	
	4/28/2004	178.96	5.68	0	173.28	--	--	1,200	--	200	5.3	21	13	
	7/12/2004	178.96	6.48	0	172.48	--	--	3,600	--	1,000	14	260	72	
	10/25/2004	178.96	6.85	0	172.11	--	--	490	--	34	ND<2.5	ND<2.5	ND<2.5	
	1/17/2005	178.96	4.56	0	174.40	--	--	620	--	100	2.6	15	8.0	
	4/6/2005	178.96	2.90	0	176.06	--	--	630	--	81	9.6	16	41	
	7/8/2005	178.96	3.74	0	175.22	--	--	980	--	170	24	44	140	
	10/7/2005	178.96	4.24	0	174.72	--	--	4,900	--	1,100	11	110	110	
	1/27/2006	178.96	3.65	0	175.31	--	--	2,800	--	580	20	130	230	
	4/28/2006	178.96	3.94	0	175.02	--	--	710	--	110	2.4	21	22	
	7/28/2006	178.96	4.63	0	174.33	--	--	550	--	120	2.1	12	19	
	10/27/2006	178.96	5.19	0	173.77	--	--	260	--	37	2.0	1.9	6.7	
	1/10/2007	178.96	4.82	0	174.14	--	--	270	--	29	0.72	1.8	2.7	
	4/13/2007	178.96	4.25	0	174.71	--	--	390	--	53	1.2	3.1	4.1	
	7/19/2007	178.96	5.35	0	173.61	--	--	210	--	8.0	1.0	1.4	4.5	
	10/8/2007	178.96	5.48	0	173.48	--	--	290	--	17	2.3	3.8	14	
	1/9/2008	178.96	3.40	0	175.56	--	--	770	--	190	5.9	21	40	Gauged on 1/18/2008
	4/4/2008	178.96	4.20	0	174.76	--	--	180	--	11	2.0	0.67	2.9	
	7/3/2008	178.96	5.89	0	173.07	--	--	140	--	4.5	1.3	ND<0.30	ND<0.60	
	10/3/2008	178.96	7.34	0	171.62	--	96	430	--	29	3.4	9.6	20	
	1/22/2009	178.96	6.75	0	172.21	--	ND<50	190	--	25	1.7	0.87	1.5	
	4/13/2009	178.96	4.74	0	174.22	--	110	290	--	17	2.1	4.4	12	
	7/23/2009	178.96	6.01	0	172.95	--	85	360	--	33	2.3	5.4	18	
	2/1/2010	178.96	6.42	0	172.54	--	80	490	--	35	3.1	2.7	5.5	
	8/2/2010	178.96	5.92	0	173.04	--	120	470	--	17	3.4	2.5	12	
	8/24/2010						DESTROYED							
MW-4B	11/1/2010	179.07	7.20	0	171.87	--	ND<50	230	--	ND<0.30	2.1	1.3	43	
	1/31/2011	179.07	4.49	0	174.58	--	ND<50	68	--	ND<0.30	ND<0.30	ND<0.30	2.0	
	4/26/2011	179.07	4.32	0	174.75	--	ND<50	52	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/25/2011	179.07	5.52	0	173.55	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/7/2011	179.07	6.04	0	173.03	--	ND<40	ND<50	--	ND<0.30	0.46	ND<0.30	ND<0.60	
	1/23/2012	179.07	6.58	0	172.49	--	ND<40	ND<50	--	ND<0.30	0.36	0.87	ND<0.60	
	4/6/2012	179.07	4.41	0	174.66	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/24/2012	179.07	6.20	0	172.87	--	ND<40	75	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	179.07	5.37	0	173.70	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	179.07	6.52	0	172.55	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/16/2014	179.07	7.55	0	171.52	ND<5,000	ND<40	ND<50	--	0.32	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	179.07	6.80	0	172.27	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	179.07	5.83	0	173.24	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	**179.07**	**7.26**	**0**	**171.81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**Sampled Q1 only**

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-5	10/3/2001	169.18	2.81	0	166.37	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/28/2002	169.18	1.88	0	167.30	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	4/25/2002	169.18	1.99	0	167.19	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/18/2002	169.18	2.49	0	166.69	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	10/7/2002	169.18	2.80	0	166.38	--	--	140	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/6/2003	169.18	1.86	0	167.32	--	ND<50	120	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	4/7/2003	169.18	2.15	0	167.03	--	--	220	--	0.53	ND<0.50	ND<0.50	ND<0.50	
	7/7/2003	169.18	2.26	0	166.92	--	--	120	--	ND<1.2	ND<1.2	ND<1.2	ND<1.2	
	10/9/2003	169.18	2.72	0	166.46	--	--	560	210	ND<1.0	ND<1.0	ND<1.0	ND<2.0	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	169.18	2.00	0	167.18	--	--	560	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	
	4/28/2004	169.18	2.01	0	167.17	--	--	760	--	ND<0.3	1.8	ND<0.3	ND<0.6	
	7/12/2004	169.18	2.56	0	166.62	--	--	96	--	1.8	3.3	0.54	3.6	
	10/25/2004	169.18	2.43	0	166.75	--	--	1,100	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	1/17/2005	169.18	1.49	0	167.69	--	--	720	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	4/6/2005	169.18	0.95	0	168.23	--	--	830	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	7/8/2005	169.18	1.49	0	167.69	--	--	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	10/7/2005	169.18	1.92	0	167.26	--	--	540	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/27/2006	169.18	2.03	0	167.15	--	--	490	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/28/2006	169.18	1.02	0	168.16	--	--	430	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/28/2006	169.18	1.57	0	167.61	--	--	480	--	0.34	ND<0.30	ND<0.30	ND<0.60	
	10/27/2006	169.18	2.20	0	166.98	--	--	420	--	0.34	ND<0.30	ND<0.30	ND<0.60	
	1/10/2007	169.18	1.57	0	167.61	--	--	390	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2007	169.18	1.89	0	167.29	--	--	170	--	3.8	5.9	1.5	3.8	
	7/19/2007	169.18	1.92	0	167.26	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/8/2007	169.18	2.28	0	166.90	--	--	200	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/9/2008	169.18	1.09	0	168.09	--	--	150	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	Gauged on 1/18/2008
	4/4/2008	169.18	1.72	0	167.46	--	--	210	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/3/2008	169.18	2.27	0	166.91	--	--	260	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/3/2008	169.18	2.80	0	166.38	--	60	200	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/22/2009	169.18	2.45	0	166.73	--	ND<50	130	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2009	169.18	1.81	0	167.37	--	ND<50	190	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/23/2009	169.18	2.33	0	166.85	--	ND<50	210	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/1/2010	169.18	1.32	0	167.86	--	ND<50	170	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	8/2/2010	169.18	2.20	0	166.98	--	ND<50	64	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	11/1/2010	169.18	3.92	0	165.26	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	1/31/2011	169.18	1.63	0	167.55	--	ND<50	160	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/26/2011	169.18	1.32	0	167.86	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	7/25/2011	169.18	1.79	0	167.39	--	ND<40	140	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/7/2011	169.18	2.18	0	167.00	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	1/23/2012	169.18	1.98	0	167.20	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/6/2012	169.18	1.18	0	168.00	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	7/24/2012	169.18	1.90	0	167.28	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	169.18	1.88	0	167.30	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	169.18	2.32	0	166.86	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/16/2014	169.18	2.82	0	166.36	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	169.18	3.13	0	166.05	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	169.18	1.96	`	167.22	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	

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WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	7/21/2015	**169.18**	**2.58**	**0**	**166.60**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**Sampled Q1 only**
MW-6	10/3/2001	169.04	2.87	0	166.17	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/28/2002	169.04	1.82	0	167.22	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	4/25/2002	169.04	2.01	0	167.03	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/18/2002	169.04	2.44	0	166.60	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	10/7/2002	169.04	2.72	0	166.32	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/6/2003	169.04	1.90	0	167.14	--	--	ND<50	--	0.62	1.2	1.2	3.5	
	4/7/2003	169.04	2.02	0	167.02	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/7/2003	169.04	2.21	0	166.83	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	10/9/2003	169.04	2.71	0	166.33	--	--	ND<50	ND<50	0.95	3.0	1.4	5.5	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	169.04	2.00	0	167.04	--	--	ND<50	--	ND<0.50	0.57	ND<0.50	0.64	
	4/28/2004	169.04	2.18	0	166.86	--	--	ND<50	--	0.39	0.78	ND<0.3	ND<0.6	
	7/12/2004	169.04	2.69	0	166.35	--	--	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	
	10/25/2004	169.04	2.46	0	166.58	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	1/17/2005	169.04	1.54	0	167.50	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	4/6/2005	169.04	1.15	0	167.89	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	7/8/2005	169.04	1.05	0	167.99	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	10/7/2005	169.04	1.90	0	167.14	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/27/2006	169.04	1.32	0	167.72	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/28/2006	169.04	0.00	0	169.04	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/28/2006	169.04	1.68	0	167.36	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/27/2006	169.04	1.98	0	167.06	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/10/2007	169.04	1.60	0	167.44	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2007	169.04	2.01	0	167.03	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/19/2007	169.04	1.96	0	167.08	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/8/2007	169.04	2.35	0	166.69	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/9/2008	169.04	1.10	0	167.94	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	Gauged on 1/18/2008
	4/4/2008	169.04	1.60	0	167.44	--	--	ND<50	--	ND<0.30	0.40	ND<0.30	0.71	
	7/3/2008	169.04	2.19	0	166.85	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/3/2008	169.04	2.78	0	166.26	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/22/2009	169.04	2.35	0	166.69	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2009	169.04	1.81	0	167.23	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/23/2009	169.04	--	--	--	--	--	--	--	--	--	--	--	Paved over
	2/1/2010	169.04	--	--	--	--	--	--	--	--	--	--	--	Paved over
	8/2/2010	169.04	--	--	--	--	--	--	--	--	--	--	--	Paved over
	8/24/2010						DESTROYED							
MW-7	10/3/2001	171.64	7.62	0	164.02	--	--	10,000	--	210	ND<50	ND<50	800	
	1/28/2002	171.64	7.21	0	164.43	--	--	ND<1,000	--	ND<10	ND<10	ND<10	ND<10	
	4/25/2002	171.64	7.25	0	164.39	--	--	ND<5,000	--	660	ND<50	ND<50	ND<50	
	7/18/2002	171.64	8.12	0	163.52	--	--	ND<5,000	--	130	ND<50	ND<50	ND<50	
	10/7/2002	171.64	7.71	0	163.93	--	--	18,000	--	ND<50	ND<50	ND<50	ND<50	
	1/6/2003	171.64	7.63	0	164.01	--	ND<50	410	--	0.61	1.0	0.89	2.9	
	4/7/2003	171.64	7.58	0	164.06	--	--	13,000	--	ND<20	ND<20	ND<20	ND<20	
	7/7/2003	171.64	7.56	0	164.08	--	--	990	--	8.2	ND<0.50	1.2	ND<0.50	
	10/9/2003	171.64	7.72	0	163.92	--	--	6,800	ND<13,000	ND<130	ND<130	ND<130	ND<250	Sampled for TPH-GRO by 8015M on 11/14/2003
	1/14/2004	171.64	6.97	0	164.67	--	--	19,000	--	ND<100	ND<100	ND<100	ND<100	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	4/28/2004	171.64	8.70	0	162.94	--	--	19,000	--	ND<3	ND<3	ND<3	ND<6	
	7/12/2004	171.64	9.44	0	162.20	--	--	12,000	--	28	14	330	200	
	10/25/2004	171.64	7.23	0	164.41	--	--	28,000	--	ND<250	ND<250	ND<250	ND<250	
	1/17/2005	171.64	6.30	0	165.34	--	--	15,000	--	ND<100	ND<100	ND<100	ND<100	
	4/6/2005	171.64	5.96	0	165.68	--	--	13,000	--	ND<100	ND<100	ND<100	ND<100	
	7/8/2005	171.64	6.45	0	165.19	--	--	ND<10,000	--	ND<100	ND<100	ND<100	ND<100	
	10/7/2005	171.64	6.78	0	164.86	--	--	13,000	--	ND<3.0	ND<3.0	ND<3.0	ND<6.0	
	1/27/2006	171.64	5.82	0	165.82	--	--	8,200	--	0.64	1.6	ND<0.30	ND<0.60	
	4/28/2006	171.64	5.57	0	166.07	--	--	6,900	--	0.88	1.5	0.34	1.0	
	7/28/2006	171.64	6.67	0	164.97	--	--	5,400	--	5.2	ND<3.0	ND<3.0	ND<6.0	
	10/27/2006	171.64	6.93	0	164.71	--	--	4,500	--	ND<1.5	ND<1.5	ND<1.5	ND<3.0	
	1/10/2007	171.64	6.41	0	165.23	--	12,000	4,000	--	ND<1.2	ND<1.2	ND<1.2	ND<2.4	
	4/13/2007	171.64	--	--	--	--	--	--	--	--	--	--	--	Paved over
	7/19/2007	171.64	7.10	0	164.54	--	--	2,700	--	0.57	ND<0.30	ND<0.30	ND<0.60	
	10/8/2007	171.64	7.42	0	164.22	--	--	1,600	--	0.47	0.49	ND<0.30	ND<0.60	
	1/9/2008	171.64	5.98	0	165.66	--	--	1,500	--	0.45	0.49	ND<0.30	ND<0.60	Gauged on 1/18/2008
	4/4/2008	171.64	6.80	0	164.84	--	--	1,800	--	0.72	0.58	ND<0.30	ND<0.60	
	7/3/2008	171.64	7.31	0	164.33	--	--	1,600	--	0.45	ND<0.30	ND<0.30	ND<0.60	
	10/3/2008	171.64	7.79	0	163.85	--	ND<50	1,300	--	0.53	0.59	ND<0.30	ND<0.60	
	1/22/2009	171.64	7.26	0	164.38	--	ND<50	890	--	0.43	0.49	ND<0.30	ND<0.60	
	4/13/2009	171.64	6.83	0	164.81	--	ND<50	1,100	--	0.46	0.30	ND<0.30	ND<0.60	
	7/23/2009	171.64	7.32	0	164.32	--	ND<50	920	--	ND<0.30	0.73	ND<0.30	ND<0.60	
	2/1/2010	171.64	6.21	0	165.43	--	53	1,000	--	5.6	4.0	1.2	2.0	
	8/2/2010	171.64	7.08	0	164.56	--	ND<50	880	--	ND<0.30	0.62	ND<0.30	ND<0.60	
	11/1/2010	172.11	6.97	0	165.14	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	1/31/2011	172.11	6.58	0	165.53	--	ND<50	730	--	0.31	0.59	ND<0.30	ND<0.60	
	4/26/2011	172.11	5.21	0	166.90	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	7/25/2011	172.11	6.89	0	165.22	--	ND<40	610	--	2.5	ND<0.30	ND<0.30	ND<0.60	
	10/7/2011	172.11	7.15	0	164.96	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	1/23/2012	172.11	6.92	0	165.19	--	ND<40	300	--	ND<0.30	0.55	ND<0.30	ND<0.60	
	4/6/2012	172.11	6.01	0	166.10	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
	7/24/2012	172.11	7.25	0	164.86	--	ND<40	270	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/8/2013	172.11	6.90	0	165.21	--	ND<40	240	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/10/2013	172.11	7.36	0	164.75	--	ND<40	340	--	0.75	ND<0.30	0.46	0.69	
	1/16/2014	172.11	7.86	0	164.25	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	172.11	7.40	0	164.71	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	172.11	6.93	0	165.18	--	ND<40	150	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	**172.11**	**7.48**	**0**	**164.63**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**Sampled Q1 only**
MW-8	1/18/2008	167.97	0.43	0	167.54	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/4/2008	167.97	0.55	0	167.42	--	--	ND<50	--	0.76	1.6	0.72	2.3	
	7/3/2008	167.97	0.91	0	167.06	--	--	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	10/3/2008	167.97	1.71	0	166.26	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/22/2009	167.97	1.59	0	166.38	--	64	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	4/13/2009	167.97	0.08	0	167.89	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/23/2009	167.97	1.10	0	166.87	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	2/1/2010	167.97	0.65	0	167.32	--	ND<50	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	8/2/2010	167.97	--	--	--	--	--	--	--	--	--	--	--	Paved over

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	8/24/2010						DESTROYED							
MW-9A	7/10/2013	173.01	5.88	0	167.13	--	220	4,600	--	1,100	14	220	140	
	1/16/2014	173.01	6.24	0	166.77	ND<5,000	200	4,600	--	820	ND<6.0	180	ND<12	
	7/22/2014	173.01	8.65	0	164.36	--	250	6,400	--	1,100	12	380	12	
	1/27/2015	173.01	8.24	0	164.77	--	250	7,900	--	2,500	16	340	23	
	7/21/2015	**173.01**	**5.87**	**0**	**167.14**	**--**	**170**	**7,100**	**--**	**2,700**	**22**	**190**	**23**	
MW-9B	7/10/2013	172.78	5.87	0	166.91	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	1/16/2014	172.78	6.57	0	166.21	ND<5,000	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/22/2014	172.78	5.94	0	166.84	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/27/2015	172.78	5.38	0	167.40	--	ND<40	ND<50	--	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
	7/21/2015	**172.78**	**6.01**	**0**	**166.77**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**Sampled Q1 only**
MW-10A	7/10/2013	174.48	7.15	0	167.33	--	1,300	23,000	--	6,600	76	750	1,900	
	1/16/2014	174.48	9.41	0	165.07	ND<5,000	710	25,000	--	6,600	120	850	830	
	7/22/2014	174.48	10.61	0	163.87	--	800	27,000	--	6,300	120	900	1,000	
	1/27/2015	174.48	10.82	0	163.66	--	800	28,000	--	9,800	190	1,200	1,200	
	7/21/2015	**174.48**	**7.32**	**0**	**167.16**	**--**	**530**	**22,000**	**--**	**15,000**	**190**	**1,000**	**960**	
MW-10B	7/10/2013	174.62	7.65	0	166.97	--	170	4,100	--	1,100	34	130	140	
	1/16/2014	174.62	8.33	0	166.29	ND<5,000	360	5,500	--	1,200	69	190	160	
	7/22/2014	174.62	7.76	0	166.86	--	120	2,400	--	570	19	68	54	
	1/27/2015	174.62	7.18	0	167.44	--	250	7,500	--	2,000	80	290	290	
	7/21/2015	**174.62**	**7.58**	**0**	**167.04**	**--**	**46**	**2,600**	**--**	**780**	**27**	**100**	**130**	
MW-10S	7/22/2014	175.57	10.02	0	165.55	--	--	--	--	--	--	--	--	Insufficient water to sample
	1/27/2015	175.57	7.82	0	167.75	ND<5,000	ND<40	110	--	3.1	ND<0.30	1.8	ND<0.60	
	7/21/2015	**175.57**	**5.92**	**0**	**169.65**	**ND<5,000**	**ND<40**	**ND<50**	**--**	**1.6**	**ND<0.30**	**6.2**	**ND<0.60**	
MW-11A	7/10/2013	175.37	6.02	0	169.35	--	730	45,000	--	8,600	5,900	940	7,600	
	1/16/2014	175.37	6.08	0	169.29	ND<5,000	480	45,000	--	7,000	4,000	660	6,300	
	7/22/2014	175.37	6.22	0	169.15	--	1,600	49,000	--	6,600	3,300	1,100	7,100	
	1/27/2015	175.37	4.61	0	170.76	--	500	73,000	--	10,000	6,500	1,600	11,000	
	7/21/2015	**175.37**	**5.39**	**0**	**169.98**	**--**	**700**	**56,000**	**--**	**11,000**	**6,900**	**1,800**	**12,000**	
MW-11B	7/10/2013	174.65	5.07	0	169.58	--	ND<40	3,800	--	1,300	52	41	300	
	1/16/2014	174.65	5.97	0	168.68	ND<5,000	120	19,000	--	5,700	240	330	470	
	7/22/2014	174.65	5.35	0	169.30	--	260	12,000	--	3,400	64	210	59	
	1/27/2015	174.65	5.78	0	168.87	--	170	17,000	--	4,200	190	310	330	
	7/21/2015	**174.65**	**5.37**	**0**	**169.28**	**--**	**430**	**23,000**	**--**	**10,000**	**770**	**960**	**1,200**	
MW-11S	7/22/2014	176.09	6.05	0	170.04	ND<5,000	2,400	40,000	--	4,200	3,000	690	7,100	
	1/27/2015	176.09	4.69	0	171.40	ND<5,000	210	3,300	--	230	16	64	100	
	7/21/2015	**176.09**	**6.13**	**0**	**169.96**	**ND<5,000**	**280**	**5,100**	**--**	**670**	**18**	**420**	**240**	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL (ft)	GWE* (ft)	OIL AND GREASE (µg/L)	TPH-DRO W/SGC (µg/L)	TPH-GRO (µg/L)	TPH-GRO (GC/MS) (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS

NOTES:

* TOC and GWE are in feet above mean sea level
µg/L = Micrograms per liter
-- = Not available/not sampled
B = Benzene
DTW = Depth to water below TOC
E = Ethylbenzene
ft = Feet
GC/MS = Gas chromatography/mass spectrometery
GWE = Groundwater elevation
ID = Identification
LNAPL = Light non-aqueous phase liquid
ND<# = Analyte not detected at or above indicated practical quantitation limit
Q1 = 1st quarter
QA = Trip blank
T = Toluene
TOC = Top of casing
TPH-DRO W/SGC = Total petroleum hydrocarbons-diesel range organics with silica gel cleanup
TPH-GRO = Total petroleum hydrocarbons-gasoline range organics
X = Total xylenes

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-1	7/20/1999	ND	--	--	--	--	--	--	--	--	--	--
	9/28/1999	321	333	ND	--	--	--	--	--	ND	ND	ND
	1/7/2000	ND	--	--	--	--	--	--	--	--	--	--
	3/31/2000	ND	--	--	--	--	--	--	--	--	--	--
	7/14/2000	ND	--	--	--	--	--	--	--	--	--	--
	10/3/2000	ND	--	--	--	--	--	--	--	--	--	--
	1/3/2001	2,200	--	--	--	--	--	--	--	--	--	--
	4/4/2001	ND	481	ND	--	ND	ND	--	ND	ND	ND	ND
	7/17/2001	ND	230	ND	--	ND	ND	--	ND	ND	ND	ND
	10/3/2001	ND<2,500	--	--	--	--	--	--	--	--	--	--
	10/5/2001	--	--	--	--	--	--	--	--	--	--	--
	1/28/2002	3,000	440	--	--	--	--	--	--	--	--	--
	4/25/2002	810	670	--	--	--	--	--	--	--	--	--
	7/18/2002	ND<500	620	ND<100	--	ND<2,500,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	10/7/2002	1,300	760	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	1/6/2003	ND<1,000	790	ND<20,000	--	ND<100,000,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	4/7/2003	1,000	800	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	7/7/2003	600	530	ND<25,000	ND<120,000	--	ND<500	--	ND<500	ND<500	ND<500	ND<500
	10/9/2003	--	660	ND<2,0000	--	ND<100,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	1/14/2004	ND<1,300	ND<800	ND<40,000	--	ND<200,000	ND<800	--	ND<800	ND<800	ND<800	ND<800
	4/28/2004	1,400	560	800	--	ND<1,000	ND<50	--	ND<50	ND<1	ND<1	ND<1
	7/12/2004	490	440	1,100	--	ND<20,000	ND<10	--	ND<10	ND<20	ND<20	ND<20
	10/25/2004	ND<1,300	330	ND<2,000	--	ND<20,000	ND<200	--	ND<200	ND<400	ND<200	ND<200
	1/17/2005	ND<1,300	570	3,100	--	ND<20,000	ND<200	--	ND<200	ND<400	ND<200	ND<200
	4/6/2005	ND<1,300	580	1,500	--	ND<10,000	ND<100	--	ND<100	ND<100	ND<100	ND<100
	7/8/2005	ND<1,300	290	ND<1,300	--	ND<13,000	ND<130	--	3.8	ND<130	ND<130	ND<130
	10/7/2005	330	250	680	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	450	360	ND<500	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	4/28/2006	460	280	ND<500	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	7/28/2006	330	220	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	10/27/2006	280	250	ND<2,500	--	ND<62,000	ND<120	--	ND<120	ND<120	ND<120	ND<120
	1/10/2007	350	260	ND<1,000	--	ND<25,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	4/13/2007	270	220	730	--	ND<250	ND<0.50	--	0.68	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	1,000	200	ND<1,000	--	ND<25,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	10/8/2007	--	--	--	--	--	--	--	--	--	--	--
	1/9/2008	840	170	ND<250	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	4/4/2008	--	160	770	--	ND<5,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	7/3/2008	--	110	ND<250	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	10/3/2008	--	180	ND<200	--	ND<5,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	1/22/2009	--	160	ND<500	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	4/13/2009	--	150	280	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/23/2009	--	140	ND<2,000	--	ND<50,000	ND<100	--	ND<100	ND<100	ND<100	ND<100
	2/1/2010	--	ND<50	--	--	--	--	--	--	--	--	--
	8/2/2010	--	ND<10	--	--	--	ND<10	ND<10	ND<10	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-1B	11/1/2010	--	30	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/31/2011	--	46	28	--	ND<250	ND<0.50	--	0.76	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	44	33	--	ND<250	ND<0.50	--	0.82	ND<0.50	ND<0.50	ND<0.50
	7/25/2011	--	47	28	--	ND<250	ND<0.50	--	0.75	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	41	30	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/23/2012	--	32	23	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	55	18	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/24/2012	--	46	27	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	28	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	12	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	42	ND<10	ND<250	--	ND<0.50	--	1.3	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	0.96	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-2	7/20/1999	4,500	11,000	--	--	--	--	--	--	--	--	--
	9/28/1999	5,280	6,150	ND	--	--	--	--	--	ND	ND	ND
	1/7/2000	33,100	--	--	--	--	--	--	--	--	--	--
	3/31/2000	17,000	--	--	--	--	--	--	--	--	--	--
	7/14/2000	66,500	--	--	--	--	--	--	--	--	--	--
	10/3/2000	57,500	--	--	--	--	--	--	--	--	--	--
	1/3/2001	49,000	--	--	--	--	--	--	--	--	--	--
	4/4/2001	38,700	37,800	ND	--	ND	ND	--	ND	ND	ND	ND
	7/17/2001	65,000	56,000	ND	--	ND	ND	--	ND	ND	ND	ND
	10/3/2001	14,000	18,000	--	--	--	--	--	--	--	--	--
	1/28/2002	11,000	10,000	--	--	--	--	--	--	--	--	--
	4/25/2002	8,400	8,100	--	--	--	--	--	--	--	--	--
	7/18/2002	4,300	8,800	ND<1,000	--	ND<25,000,000	ND<100	--	ND<100	ND<100	ND<100	ND<100
	10/7/2002	7,100	5,900	ND<20,000	--	ND<100,000,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	1/6/2003	31,000	35,000	ND<50,000	--	ND<250,000,000	ND<1,000	--	ND<1,000	ND<1,000	ND<1,000	ND<1,000
	4/7/2003	2,000	1,500	ND<2,000	--	ND<10,000,000	ND<40	--	ND<40	ND<40	ND<40	ND<40
	7/7/2003	5,500	8,300	ND<5,000	--	ND<25,000,000	ND<100	--	ND<100	ND<100	ND<100	ND<100
	10/9/2003	--	8,500	ND<10,000	--	ND<50,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	1/14/2004	2,600	3,200	ND<2,500	--	ND<13,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	4/28/2004	35,000	22,000	13,000	--	ND<1,000	ND<0.5	--	ND<0.5	ND<1	ND<1	11
	7/12/2004	3,000	3,000	110	--	ND<4,000	ND<3	--	ND<3	ND<5	ND<5	ND<5
	10/25/2004	1,800	1,600	1,100	--	ND<1,300	ND<13	--	ND<13	ND<25	ND<13	ND<13
	1/17/2005	1,600	1,500	1,200	--	ND<1,300	ND<13	--	ND<13	ND<25	ND<13	ND<13
	4/6/2005	2,500	3,200	2,800	--	ND<2,500	ND<25	--	ND<25	ND<25	ND<25	ND<25
	7/8/2005	2,900	3,100	4,300	--	ND<2,500	ND<25	--	ND<25	ND<25	ND<25	ND<25
	10/7/2005	5,900	5,200	8,700	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	2,600	2,800	5,200	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	4/28/2006	3,700	3,600	6,700	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	1.6
	7/28/2006	3,000	2,900	5,100	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	10/27/2006	1,600	1,300	6,600	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	1/10/2007	2,300	2,000	6,000	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	4/13/2007	3,600	3,200	7,400	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	7/19/2007	2,000	2,000	6,200	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/8/2007	5,000	4,000	20,000	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/9/2008	2,100	2,200	9,900	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/4/2008	--	2,100	5,800	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/3/2008	--	1,400	8,300	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	750	5,900	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	1/22/2009	--	850	7,400	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	990	5,500	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	7/23/2009	--	390	5,000	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/1/2010	--	290	--	--	--	--	--	--	--	--	--
	8/2/2010	--	140	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-2B	11/1/2010	--	250	2,000	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/31/2011	--	310	1,300	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	240	770	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/25/2011	--	170	1,100	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	100	840	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/23/2012	--	95	370	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	140	310	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/24/2012	--	53	270	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	1.2	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	0.86	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	9.6	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	3.9	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-3	7/20/1999	330	--	--	--	--	--	--	--	--	--	--
	9/28/1999	443	288	ND	--	--	--	--	--	ND	ND	8.80
	1/7/2000	1,940	--	--	--	--	--	--	--	--	--	--
	3/31/2000	2,800	--	--	--	--	--	--	--	--	--	--
	7/14/2000	548	--	--	--	--	--	--	--	--	--	--
	10/3/2000	965	--	--	--	--	--	--	--	--	--	--
	1/3/2001	3,300	--	--	--	--	--	--	--	--	--	--
	4/4/2001	1,050	450	ND	--	ND	ND	--	ND	ND	ND	ND
	7/17/2001	ND	350	ND	--	ND	ND	--	ND	ND	ND	ND
	10/3/2001	ND<1000	--	--	--	--	--	--	--	--	--	--
	1/28/2002	3,200	210	--	--	--	--	--	--	--	--	--
	4/25/2002	500	260	--	--	--	--	--	--	--	--	--
	7/18/2002	ND<250	270	ND<50	--	ND<1,200,000	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/7/2002	ND<120	ND<200	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	1/6/2003	440	110	ND<4,000	--	23,000,000	ND<80	--	ND<80	ND<80	ND<80	ND<80
	4/7/2003	440	100	ND<4,000	--	ND<20,000,000	ND<80	--	ND<80	ND<80	ND<80	ND<80
	7/7/2003	280	100	ND<2,000	--	ND<10,000,000	ND<40	--	ND<40	ND<40	ND<40	ND<40
	10/9/2003	--	190	ND<1,000	--	ND<5,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	1/14/2004	190	230	ND<1,000	--	ND<5,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	4/28/2004	740	240	ND<12	--	ND<1,000	ND<3	--	ND<3	ND<1	ND<1	ND<1
	7/12/2004	180	100	350	--	ND<20,000	ND<10	--	ND<10	ND<20	ND<20	ND<20
	10/25/2004	94	260	39	--	ND<250	ND<2.5	--	ND<2.5	ND<5.0	ND<2.5	ND<2.5
	1/17/2005	55	200	120	--	ND<250	ND<2.5	--	ND<2.5	ND<5.0	ND<2.5	ND<2.5
	4/6/2005	ND<250	200	150	--	ND<1,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	7/8/2005	ND<250	150	64	--	ND<250	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	10/7/2005	260	180	ND<200	--	ND<5,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	1/27/2006	280	250	ND<10	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	4/28/2006	230	180	190	--	ND<250	ND<0.50	--	0.63	ND<0.50	ND<0.50	ND<0.50
	7/28/2006	250	150	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	10/27/2006	250	140	ND<10	--	ND<250	ND<0.50	--	1.3	ND<0.50	ND<0.50	ND<0.50
	1/10/2007	230	150	66	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	4/13/2007	230	160	ND<10	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	190	180	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/8/2007	180	120	ND<20	--	ND<500	ND<1.0	--	1.1	ND<1.0	ND<1.0	ND<1.0
	1/9/2008	290	120	ND<20	--	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	4/4/2008	--	120	ND<50	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/3/2008	--	190	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	71	ND<100	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/22/2009	--	130	ND<20	--	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	4/13/2009	--	120	ND<10	--	ND<250	ND<0.50	--	1.0	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	120	ND<100	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/1/2010	--	97	--	--	--	--	--	--	--	--	--
	8/2/2010	--	89	--	--	--	ND<0.50	--	ND<0.50	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-3B	11/1/2010	--	46	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/31/2011	--	73	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	52	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/25/2011	--	62	47	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	61	64	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/23/2012	--	56	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	68	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/24/2012	--	54	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	20	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	14	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/16/2014	--	13	ND<10	ND<250	--	ND<5.0	--	1.2	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	8.8	ND<20	ND<500	--	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	1/27/2015	--	14	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	15
	7/21/2015	**--**	**23**	**ND<100**	**ND<2,500**	**--**	**ND<5.0**	**--**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-4	7/20/1999	100	--	--	--	--	--	--	--	--	--	--
	9/28/1999	416	459	ND	--	--	--	--	--	ND	ND	ND
	1/7/2000	764	--	--	--	--	--	--	--	--	--	--
	3/31/2000	1,000	--	--	--	--	--	--	--	--	--	--
	7/14/2000	1,530	--	--	--	--	--	--	--	--	--	--
	10/3/2000	1,040	--	--	--	--	--	--	--	--	--	--
	1/3/2001	850	--	--	--	--	--	--	--	--	--	--
	4/4/2001	1,140	819	ND	--	ND	ND	--	ND	ND	ND	ND
	7/17/2001	1,200	900	ND	--	ND	ND	--	ND	ND	ND	ND
	10/3/2001	580	820	--	--	--	--	--	--	--	--	--
	1/28/2002	1,100	500	--	--	--	--	--	--	--	--	--
	4/25/2002	680	600	--	--	--	--	--	--	--	--	--
	7/18/2002	530	760	ND<100	--	ND<2,500,000	ND<10	--	49	ND<10	ND<10	ND<10
	10/7/2002	650	540	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	1/6/2003	370	520	ND<1,000	--	ND<5,000,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	4/7/2003	550	420	ND<1,000	--	ND<5,000,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	7/7/2003	480	450	ND<1,000	--	ND<5,000,000	ND<20	--	ND<20	ND<20	ND<20	ND<20
	10/9/2003	--	270	ND<200	--	ND<1,000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0
	1/14/2004	150	180	ND<200	--	ND<1,000	ND<4.0	--	6.5	ND<4.0	ND<4.0	ND<4.0
	4/28/2004	490	310	150	--	ND<1,000	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1
	7/12/2004	710	470	210	--	ND<4,000	ND<3	--	14	ND<5	ND<5	ND<5
	10/25/2004	200	170	38	--	ND<100	ND<1.0	--	2.0	ND<2.0	ND<1.0	ND<1.0
	1/17/2005	240	200	110	--	ND<100	ND<1.0	--	3.6	ND<2.0	ND<1.0	ND<1.0
	4/6/2005	ND<25	26	ND<25	--	73,000	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/8/2005	ND<25	64	29	--	ND<50	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	10/7/2005	370	310	210	--	ND<250	ND<0.50	--	26	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	320	240	280	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	4/28/2006	140	140	130	--	ND<250	ND<0.50	--	0.97	ND<0.50	ND<0.50	ND<0.50
	7/28/2006	170	150	64	--	ND<250	ND<0.50	--	5.8	ND<0.50	ND<0.50	ND<0.50

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	10/27/2006	130	130	54	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	1/10/2007	160	150	33	--	310	ND<0.50	--	1.9	ND<0.50	ND<0.50	ND<0.50
	4/13/2007	210	160	82	--	ND<250	ND<0.50	--	0.77	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	120	130	13	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/8/2007	160	150	ND<20	--	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	1/9/2008	210	220	ND<20	--	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	4/4/2008	--	110	27	--	ND<250	ND<0.50	--	1.0	ND<0.50	ND<0.50	ND<0.50
	7/3/2008	--	100	27	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	100	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/22/2009	--	96	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	88	39	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	92	42	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	2/1/2010	--	51	--	--	--	--	--	--	--	--	--
	8/2/2010	--	48	--	--	--	ND<0.50	ND<1.0	1.4	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-4B	11/1/2010	--	20	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/31/2011	--	30	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	26	25	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/25/2011	--	28	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	25	25	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/23/2012	--	17	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	21	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/24/2012	--	24	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	2.8	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	0.64	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	2.3	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	2.1	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-5	10/3/2001	1,800	2,100	--	--	--	--	--	--	--	--	--
	1/28/2002	650	550	--	--	--	--	--	--	--	--	--
	4/25/2002	2,200	2,400	--	--	--	--	--	--	--	--	--
	7/18/2002	530	690	ND<20	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	10/7/2002	300	330	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	1/6/2003	410	350	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	4/7/2003	450	420	ND<500	--	ND<2,500,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	7/7/2003	220	200	ND<200	--	ND<1,000,000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0
	10/9/2003	--	290	ND<200	--	ND<1,000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0
	1/14/2004	670	760	ND<2,000	--	ND<10,000	ND<40	--	ND<40	ND<40	ND<40	ND<40
	4/28/2004	1,200	790	ND<12	--	ND<1,000	ND<0.5	--	1.8	ND<1	ND<1	ND<1
	7/12/2004	2.8	ND<0.5	ND<12	--	ND<800	ND<0.5	--	0.76	ND<1	ND<1	ND<1
	10/25/2004	780	1,100	ND<500	--	ND<5,000	ND<50	--	ND<50	ND<100	ND<50	ND<50
	1/17/2005	530	550	100	--	ND<250	ND<2.5	--	ND<2.5	ND<5.0	ND<2.5	ND<2.5
	4/6/2005	600	760	7.6	--	ND<50	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	7/8/2005	570	630	180	--	ND<500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/7/2005	530	490	ND<10	--	ND<250	ND<0.50	--	1.0	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	580	610	1,000	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	4/28/2006	590	520	130	--	ND<250	ND<0.50	--	0.95	ND<0.50	ND<0.50	ND<0.50
	7/28/2006	440	420	ND<100	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/27/2006	460	390	43	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	1/10/2007	430	420	28	--	ND<250	ND<0.50	--	1.7	ND<0.50	ND<0.50	ND<0.50
	4/13/2007	160	120	ND<10	--	ND<250	ND<0.50	--	0.84	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	19	23	ND<10	--	ND<250	ND<0.50	--	ND<5.0	ND<0.50	ND<0.50	ND<0.50
	10/8/2007	310	280	ND<10	--	ND<250	ND<0.50	--	1.3	ND<0.50	ND<0.50	ND<0.50
	1/9/2008	170	170	ND<10	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	4/4/2008	--	260	ND<10	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	7/3/2008	--	360	ND<10	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	240	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	1/22/2009	--	170	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	190	ND<10	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	210	ND<10	--	ND<250	ND<0.50	--	1.8	ND<0.50	ND<0.50	ND<0.50
	2/1/2010	--	120	--	--	--	--	--	--	--	--	--
	8/2/2010	--	42	--	--	--	ND<0.50	--	ND<0.50	--	--	--
	11/1/2010	--	--	--	--	--	--	--	--	--	--	--
	1/31/2011	--	130	ND<10	--	ND<250	ND<0.50	--	1.6	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	--	--	--	--	--	--	--	--	--	--
	7/25/2011	--	130	ND<10	--	ND<250	ND<0.50	--	1.6	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	--	--	--	--	--	--	--	--	--	--
	1/23/2012	--	52	22	--	ND<250	ND<0.50	--	0.92	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	--	--	--	--	--	--	--	--	--	--
	7/24/2012	--	81	20	--	ND<250	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	21	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/10/2013	--	4.7	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	39	ND<10	ND<250	--	ND<0.50	--	0.67	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	2.9	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-6	10/3/2001	200	270	--	--	--	--	--	--	--	--	--
	1/28/2002	ND<2.5	--	--	--	--	--	--	--	--	--	--
	4/25/2002	ND<2.5	--	--	--	--	--	--	--	--	--	--
	7/18/2002	ND<2.5	ND<2.0	ND<20	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	10/7/2002	ND<2.5	ND<2.0	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	1/6/2003	ND<2.0	ND<2.0	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	4/7/2003	46	46	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	7/7/2003	ND<2.0	ND<2.0	ND<100	--	ND<500,000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	10/9/2003	--	ND<2.0	ND<100	--	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	1/14/2004	ND<5.0	ND<2.0	ND<100	--	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	4/28/2004	ND<1	ND<0.5	ND<12	--	ND<1,000	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1
	7/12/2004	6.4	ND<0.5	ND<12	--	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1
	10/25/2004	ND<5.0	0.57	ND<5.0	--	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50
	1/17/2005	ND<5.0	ND<0.50	ND<5.0	--	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50
	4/6/2005	ND<5.0	ND<0.50	ND<5.0	--	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/8/2005	ND<5.0	ND<0.50	ND<5.0	--	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/7/2005	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/27/2006	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/28/2006	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/28/2006	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/27/2006	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/10/2007	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2007	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/8/2007	ND<1.0	0.80	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/9/2008	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/4/2008	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/3/2008	--	1.4	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	1.8	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/22/2009	--	1.2	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	0.72	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	--	--	--	--	--	--	--	--	--	--
	2/1/2010	--	--	--	--	--	--	--	--	--	--	--
	8/2/2010	--	--	--	--	--	--	--	--	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/3/2001	35,000	40,000	--	--	--	--	--	--	--	--	--
	1/28/2002	42,000	38,000	--	--	--	--	--	--	--	--	--
	4/25/2002	42,000	45,000	--	--	--	--	--	--	--	--	--
	7/18/2002	51,000	53,000	33,000	--	ND<5,000,000	ND<20	--	ND<20	ND<20	ND<20	ND<20

Table 6
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4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	10/7/2002	33,000	38,000	26,000	--	ND<100,000,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	1/6/2003	3,900	3,100	ND<10,000	--	ND<50,000,000	ND<200	--	ND<200	ND<200	ND<200	ND<200
	4/7/2003	32,000	28,000	ND<40,000	--	ND<200,000,000	ND<800	--	ND<800	ND<800	ND<800	ND<800
	7/7/2003	36,000	45,000	27,000	--	ND<100,000,000	ND<400	--	ND<400	ND<400	ND<400	ND<400
	10/9/2003	--	20,000	ND<25,000	--	ND<130,000	ND<500	--	ND<500	ND<500	ND<500	ND<500
	1/14/2004	20,000	25,000	ND<40,000	--	ND<200,000	ND<800	--	ND<800	ND<800	ND<800	ND<800
	4/28/2004	30,000	21,000	9,200	--	ND<1,000	ND<0.5	--	6.8	ND<1	ND<1	12
	7/12/2004	12,000	11,000	4,600	--	ND<8,000	ND<5	--	5.1	ND<10	ND<10	ND<10
	10/25/2004	13,000	14,000	3,900	--	ND<5,000	ND<50	--	ND<50	ND<100	ND<50	ND<50
	1/17/2005	17,000	16,000	4,200	--	ND<5,000	ND<50	--	ND<50	ND<100	ND<50	ND<50
	4/6/2005	14,000	17,000	4,200	--	ND<10,000	ND<0.50	--	6.4	ND<0.50	ND<0.50	9.3
	7/8/2005	8,600	11,000	4,300	--	ND<5,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	10/7/2005	9,400	9,800	1,100	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	1/27/2006	9,900	7,900	1,600	--	ND<25,000	ND<50	--	ND<50	ND<50	ND<50	ND<50
	4/28/2006	9,600	11,000	2,900	--	ND<250	ND<0.50	--	3.4	ND<0.50	ND<0.50	6.3
	7/28/2006	5,000	5,300	1,300	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	10/27/2006	4,700	3,700	1,700	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/10/2007	4,400	4,400	1,300	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	4/13/2007	--	--	--	--	--	--	--	--	--	--	--
	7/19/2007	2,700	3,300	ND<100	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/8/2007	2,500	2,200	ND<500	--	ND<12,000	ND<25	--	ND<25	ND<25	ND<25	ND<25
	1/9/2008	1,900	1,900	2,700	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	1.1
	4/4/2008	--	2,700	1,400	--	ND<6,200	ND<12	--	ND<12	ND<12	ND<12	ND<12
	7/3/2008	--	2,300	940	--	ND<250	ND<0.50	--	2.2	ND<0.50	ND<0.50	1.2
	10/3/2008	--	1,800	540	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	1/22/2009	--	1,300	370	--	ND<1,200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	4/13/2009	--	1,200	420	--	ND<5,000	ND<10	--	ND<10	ND<10	ND<10	ND<10
	7/23/2009	--	900	370	--	ND<2,500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/1/2010	--	720	--	--	--	--	--	--	--	--	--
	8/2/2010	--	770	--	--	--	ND<0.50	--	1.9	--	--	--

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	11/1/2010	--	--	--	--	--	--	--	--	--	--	--
	1/31/2011	--	600	160	--	ND<250	ND<0.50	--	1.3	ND<0.50	ND<0.50	ND<0.50
	4/26/2011	--	--	--	--	--	--	--	--	--	--	--
	7/25/2011	--	620	220	--	ND<250	ND<0.50	--	1.6	ND<0.50	ND<0.50	ND<0.50
	10/7/2011	--	--	--	--	--	--	--	--	--	--	--
	1/23/2012	--	390	190	--	ND<250	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	4/6/2012	--	--	--	--	--	--	--	--	--	--	--
	7/24/2012	--	300	160	--	ND<250	ND<0.50	--	1.5	ND<0.50	ND<0.50	ND<0.50
	2/8/2013	--	610	ND<50	ND<1,200	--	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/10/2013	--	450	44	ND<250	--	ND<0.50	--	1.2	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	310	ND<10	ND<250	--	ND<0.50	--	1.4	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	180	ND<10	ND<250	--	ND<0.50	--	0.80	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-8	1/18/2008	ND<1.0	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/4/2008	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/3/2008	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/3/2008	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/22/2009	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	4/13/2009	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/23/2009	--	ND<0.50	ND<10	--	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	2/1/2010	--	ND<0.50	--	--	--	--	--	--	--	--	--
	8/2/2010	--	--	--	--	--	--	--	--	--	--	--
	8/24/2010	--	--	--	--	--	--	--	--	--	--	--
MW-9A	7/10/2013	--	4.4	1,700	ND<250	--	ND<0.50	--	16	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	ND<0.50	2,800	ND<250	--	ND<0.50	--	25	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	4.1	2,600	ND<1,200	--	ND<2.5	--	18	ND<2.5	ND<2.5	ND<2.5
	1/27/2015	--	3.9	1,100	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	58

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
	7/21/2015	**--**	**ND<5.0**	**ND<100**	**ND<2,500**	**--**	**ND<5.0**	**--**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**
MW-9B	7/10/2013	--	18	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	56	ND<10	ND<250	--	ND<0.50	--	1.7	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	9.8	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-10A	7/10/2013	--	310	1,500	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/16/2014	--	420	1,800	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	7/22/2014	--	360	ND<100	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/27/2015	--	340	1,500	ND<2,500	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	50
	7/21/2015	**--**	**420**	**ND<100**	**ND<2,500**	**--**	**ND<5.0**	**--**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**
MW-10B	7/10/2013	--	110	370	ND<250	--	ND<0.50	--	3.5	ND<0.50	ND<0.50	ND<0.50
	1/16/2014	--	100	630	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/22/2014	--	89	ND<50	ND<1,200	--	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	1/27/2015	--	59	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/21/2015	**--**	**96**	**ND<100**	**ND<2,500**	**--**	**ND<5.0**	**--**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**
MW-10S	7/22/2014	--	--	--	--	--	--	--	--	--	--	--
	1/27/2015	--	3.9	180	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	2.5
	7/21/2015	**--**	**10**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-11A	7/10/2013	--	3,600	4,900	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	ND<12
	1/16/2014	--	3,600	4,000	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	ND<12
	7/22/2014	--	2,800	ND<250	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	ND<12
	1/27/2015	--	2,200	3,600	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	90
	7/21/2015	**--**	**2,600**	**ND<500**	**ND<12,000**	**--**	**ND<25**	**--**	**ND<25**	**ND<25**	**ND<25**	**ND<25**

Table 6
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL 8260B (µg/L)	ETHANOL 8015B (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-11B	7/10/2013	--	490	1,500	ND<1,200	--	ND<2.5	--	57	ND<2.5	ND<2.5	ND<2.5
	1/16/2014	--	2,100	5,200	ND<1,200	--	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	7/22/2014	--	1,400	5,500	ND<5,000	--	ND<10	--	ND<10	ND<10	ND<10	ND<10
	1/27/2015	--	1,200	3,000	ND<1,200	--	ND<2.5	--	110	ND<2.5	ND<2.5	46
	7/21/2015	**--**	**1,900**	**ND<500**	**ND<12,000**	**--**	**ND<25**	**--**	**ND<25**	**ND<25**	**ND<25**	**ND<25**
MW-11S	7/22/2014	--	1,300	4,800	ND<6,200	--	ND<12	--	ND<12	ND<12	ND<12	ND<12
	1/27/2015	--	29	ND<10	ND<250	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	1.2
	7/21/2015	**--**	**190**	**ND<100**	**ND<2,500**	**--**	**ND<5.0**	**--**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**

NOTES:

8021B = Analyzed by Environmental Protection Agency (EPA) Method 8021B
8260B = Analyzed by EPA Method 8260B
8015B = Analyzed by EPA Method 8015B
504 = Analyzed by EPA Method 504
µg/L = Micrograms per liter
-- = Not sampled
DIPE = Diisopropyl ether
EDB = 1,2-dibromoethane
EDC = 1,2-dichloroethane
ETBE = Ethyl t-butyl ether
ID = Identification
MTBE = Methyl t-butyl ether
ND = Not detected
ND<# = Analyte not detected at or above indicated practical quantitation limit
QA = Trip blank
TAME = t-amyl methyl ether
TBA = t-butyl alcohol

Table 7
Historical Groundwater Analytical Results - Monitored Natural Attenuation Parameters
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	METHANE (mg/L)	NITRATE AS NO3 (mg/L)	SULFATE (mg/L)	IRON (II) SPECIES (µg/L)	DISSOLVED MANGANESE (µg/L)
MW-1B	1/16/2014	0.013	7.2	19	ND<100	120
MW-2B	1/16/2014	0.0021	ND<0.44	7.9	ND<100	260
MW-3B	1/16/2014	12	ND<0.44	1.0	5,200	3,300
	7/22/2014	13	ND<0.44	1.8	5,900	3,300
	1/27/2015	11	ND<0.44	1.8	1,600	3,700
	7/21/2015	**4.3**	**ND<0.44**	**ND<1.0**	**2,600**	**8.5**
MW-4B	1/16/2014	0.0079	12	28	ND<100	70
MW-5	1/16/2014	0.0027	4.5	27	ND<100	5.2
MW-7	1/16/2014	0.081	ND<0.44	4.1	2,200	300
MW-9A	1/16/2014	2.5	ND<0.88	8.6	2,400	1,500
	7/22/2014	1.9	ND<0.88	ND<2.0	6,800	1,600
	1/27/2015	1.7	14	ND<1.0	6,200	1,400
	7/21/2015	**0.91**	**ND<0.44**	**ND<1.0**	**6,000**	**1,300**
MW-9B	1/16/2014	0.0017	4.7	18	ND<100	630
MW-10A	1/16/2014	1.7	ND<0.44	ND<1.0	5,800	1,100
	7/22/2014	2.8	ND<0.44	ND<1.0	7,200	1,200
	1/27/2015	2.0	--	--	--	--
	7/21/2015	**1.0**	**ND<0.44**	**ND<1.0**	**5,500**	**1,200**
MW-10B	1/16/2014	0.63	ND<0.44	ND<1.0	7,300	5,400
	7/22/2014	0.064	ND<0.44	ND<1.0	4,200	5,000
	1/27/2015	0.67	ND<0.44	ND<1.0	6,400	5,000
	7/21/2015	**0.20**	**ND<0.44**	**ND<1.0**	**5,300**	**1,100**
MW-10S	1/27/2015	0.25	ND<0.44	72	700	1,200
	7/21/2015	**0.50**	**ND<0.44**	**51**	**2,400**	**1,600**
MW-11A	1/16/2014	2.3	ND<0.44	ND<1.0	7,900	3,700
	7/22/2014	4.6	ND<0.44	ND<1.0	6,100	4,600
	1/27/2015	3.9	ND<0.44	ND<1.0	7,000	4,100
	7/21/2015	**2.7**	**ND<0.44**	**ND<1.0**	**8,400**	**1,500**
MW-11B	1/16/2014	0.31	ND<0.44	5.2	6,600	1,100
	7/22/2014	0.48	ND<0.44	ND<1.0	2,700	1,600
	1/27/2015	0.68	ND<0.44	ND<1.0	8,800	1,500
	7/21/2015	**0.48**	**ND<0.44**	**ND<1.0**	**3,100**	**1,800**

Table 7
Historical Groundwater Analytical Results - Monitored Natural Attenuation Parameters
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	METHANE (mg/L)	NITRATE AS NO3 (mg/L)	SULFATE (mg/L)	IRON (II) SPECIES (µg/L)	DISSOLVED MANGANESE (µg/L)
MW-11S	7/22/2014	0.50	ND<0.44	30	1,900	1,800
	1/27/2015	0.30	ND<0.44	22	690	1,200
	7/21/2015	**0.65**	**ND<0.44**	**ND<1.0**	**5,200**	**1,700**

NOTES:

µg/L = Micrograms per liter

-- = Not sampled

ID = Identification

mg/L = Milligrams per liter

ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8a
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	Acenaph-thylene (µg/L)	Bromo-dichloro-methane (µg/L)	Bromo-form (µg/L)	Bromo-methane (µg/L)	Carbon Tetra-chloride (µg/L)	Chloro-benzene (µg/L)	Chloro-ethane (µg/L)	Chloroform (µg/L)	Chloro-methane (µg/L)	Dibromo-chloro-methane (µg/L)	1,2-Dichloro-benzene (µg/L)	1,3-Dichloro-benzene (µg/L)
MW-1	7/20/1999	--	--	--	--	--	12	--	--	--	--	3.9	--
	3/31/2000	--	--	--	--	--	--	--	--	--	--	6.2	--
	4/4/2001	--	--	--	--	--	5.6	--	--	--	--	4.6	--
	7/17/2001	--	--	--	--	--	--	--	--	--	--	18	--
	7/18/2002	--	--	--	--	--	5.9	1.1	--	--	--	5.8	--
	7/7/2003	--	--	--	--	--	ND<120	--	--	--	--	--	--
	7/12/2004	ND<2	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<2	ND<2
	7/8/2005	--	ND<0.50	ND<2.0	ND<1.0	ND<0.50	12	1.0	ND<0.50	ND<1.0	ND<0.50	9.0	ND<0.50
	7/28/2006	--	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	7/19/2007	--	ND<50	ND<50	ND<100	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
	7/3/2008	--	ND<12	ND<12	ND<25	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12
MW-7	1/6/2003	--	--	--	--	--	ND<50	--	--	--	--	--	--

NOTES:

µg/L = Micrograms per liter

-- = Not sampled

ID = Identification

ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8b
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	1,4-Dichloro-benzene (µg/L)	Dichloro-difluoro-methane (µg/L)	1,1-Dichloro-ethane (µg/L)	1,1-Dichloro-ethene (µg/L)	cis-1,2-Dichloro-ethene (µg/L)	trans-1,2-Dichloro-ethene (µg/L)	1,2-Dichloro-propane (µg/L)	cis-1,3-Dichloro-propene (µg/L)	trans-1,3-Dichloro-propene (µg/L)	Hexa-chloro-butadiene (µg/L)	Methylene chloride (µg/L)	Naph-thalene (µg/L)
MW-1	7/20/1999	--	--	2.0	--	3.6	--	0.92	--	--	--	--	600
	9/28/1999	--	--	--	--	--	--	--	--	--	--	--	534
	1/7/2000	--	--	--	--	--	--	--	--	--	--	--	1,050
	3/31/2000	--	--	--	--	--	--	--	--	--	--	--	140
	7/14/2000	--	--	--	--	--	--	--	--	--	--	--	690
	10/3/2000	--	--	--	--	--	--	--	--	--	--	--	361
	1/3/2001	--	--	--	--	--	--	--	--	--	--	--	400
	4/4/2001	--	--	--	--	3.4	--	--	--	--	--	--	490
	7/17/2001	--	--	--	--	--	--	--	--	--	--	--	740
	7/18/2002	1.3	--	--	--	1.3	--	--	--	--	--	--	910
	7/7/2003	--	--	--	--	ND<120	--	--	--	--	--	--	850
	7/12/2004	ND<2	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<2	ND<20	450
	7/8/2005	1.2	ND<1.0	1.3	ND<0.50	3.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<5.0	250
	7/28/2006	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<1.0	--
	7/19/2007	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND<100	--
	7/3/2008	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	ND<12	--	ND<25	--
MW-5	1/6/2003	--	--	--	--	ND<0.50	--	--	--	--	--	--	ND<10
MW-7	1/6/2003	--	--	--	--	ND<50	--	--	--	--	--	--	ND<10

NOTES:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8c
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	n-Propyl-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	Tetrachloro-ethene (PCE) (µg/L)	Trichloro-trifluoro-ethane (µg/L)	1,2,4-Trichloro-benzene (µg/L)	1,1,1-Trichloro-ethane (µg/L)	1,1,2-Trichloro-ethane (µg/L)	Trichloro-ethene (TCE) (µg/L)	Trichloro-fluoro-methane (µg/L)	1,2,4-Trimethyl-benzene (µg/L)	1,3,5-Trimethyl-benzene (µg/L)	Vinyl chloride (µg/L)
MW-1	9/28/1999	--	--	--	--	--	--	--	--	--	1240	318	--
	1/7/2000	371	--	--	--	--	--	--	--	--	2210	597	--
	7/14/2000	--	--	334	--	--	--	--	--	--	--	--	--
	7/18/2002	--	--	ND<0.60	--	--	--	--	--	--	--	--	--
	7/7/2003	--	--	ND<120	--	--	--	--	--	--	--	--	--
	7/12/2004	--	ND<10	ND<10	ND<10	ND<2	ND<10	ND<10	ND<10	ND<10	--	--	ND<10
	7/8/2005	--	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	0.73	ND<1.0	--	--	ND<0.50
	7/28/2006	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	ND<0.50
	7/19/2007	--	ND<50	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<50	--	--	ND<50
	7/3/2008	--	ND<12	ND<12	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	ND<12
MW-5	1/6/2003	--	--	ND<0.50	--	--	--	--	--	--	--	--	--
MW-7	1/6/2003	--	--	ND<50	--	--	--	--	--	--	--	--	--

NOTES:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8d
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	Acena-phthene (µg/L)	Acena-phthylene (svoc) (µg/L)	Anthra-cene (µg/L)	Benzo[a]-anthracene (µg/L)	Benzo[a]-pyrene (µg/L)	Benzo[b]-fluor-anthene (µg/L)	Benzo-[g,h,I]-perylene (µg/L)	Benzo[k]-fluor-anthene (µg/L)	Benzoic Acid (µg/L)	Benzyl Alcohol (µg/L)	Bis(2-chloro-ethoxy) methane (µg/L)	Bis(2-chloro-ethyl) ether (µg/L)
MW-1	7/12/2004	ND<2	--	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	--	--	--	--
	7/28/2006	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<50	ND<10	ND<10	ND<10
	7/19/2007	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<11	ND<2.2	ND<2.2	ND<2.2
	7/3/2008	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<100	ND<20	ND<20	ND<20

NOTES:

µg/L = Micrograms per liter

-- = Not sampled

ID = Identification

ND<# = Analyte not detected at or above indicated practical quantitation limit

svoc = Semi-volatile organic compound

Table 8e
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	Bis(2-chloro-isopropyl)-ether (µg/L)	Bis(2-ethyl-hexyl) phthalate (µg/L)	4-Bromo-pheny phe-nyl ether (µg/L)	Butyl-benzyl phthalate (µg/L)	4-Chloro-3-methyl-phenol (µg/L)	4-Chloro-aniline (µg/L)	2-Chloro-naphtha-lene (µg/L)	2-Chloro-phenol (µg/L)	4-Chloro-phenyl phenyl ether (µg/L)	Chrysene (µg/L)	Dibenzo-[a,h]-anthracene (µg/L)	Dibenzo-furan (µg/L)
MW-1	3/31/2000	--	10	--	--	--	--	--	--	--	--	--	--
	10/3/2000	--	51.6	--	--	--	--	--	--	--	--	--	--
	4/4/2001	--	55	--	--	--	--	--	--	--	--	--	--
	7/17/2001	--	400	--	--	--	--	--	--	--	--	--	--
	7/18/2002	--	120	--	--	--	--	--	--	--	--	--	--
	7/7/2003	--	70	--	--	--	--	--	--	--	--	--	--
	7/12/2004	--	ND<5	--	--	--	--	--	--	--	ND<2	ND<3	--
	7/28/2006	ND<10	33	ND<10	ND<10	ND<25	ND<10	ND<10	ND<10	ND<10	ND<10	ND<15	ND<10
	7/19/2007	ND<2.2	ND<4.4	ND<2.2	ND<2.2	ND<5.5	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<3.3	ND<2.2
	7/3/2008	ND<20	ND<40	ND<20	ND<20	ND<50	ND<20	ND<20	ND<20	ND<20	ND<20	ND<30	ND<20
MW-5	1/6/2003	--	ND<5.0	--	--	--	--	--	--	--	--	--	--
MW-7	1/6/2003	--	ND<5.0	--	--	--	--	--	--	--	--	--	--

NOTES:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8f
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	1,2-Dichloro-benzene (svoc) (µg/L)	1,3-Dichloro-benzene (svoc) (µg/L)	1,4-Dichloro-benzene (svoc) (µg/L)	3,3-Dichloro-benzidine (µg/L)	2,4-Dichloro-phenol (µg/L)	Diethyl phthalate (µg/L)	2,4-Dimethyl-phenol (µg/L)	Dimethyl phthalate (µg/L)	Di-n-butyl phthalate (µg/L)	2,4-Dinitro-phenol (µg/L)	2,4-Dinitro-toluene (µg/L)	2,6-Dinitro-toluene (µg/L)
MW-1	7/28/2006	ND<10	ND<10	ND<10	ND<50	ND<10	ND<10	ND<10	ND<10	ND<10	ND<50	ND<10	ND<10
	7/19/2007	ND<2.2	ND<2.2	ND<2.2	ND<11	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<11	ND<2.2	ND<2.2
	7/3/2008	ND<20	ND<20	ND<20	ND<100	ND<20	ND<20	ND<20	ND<20	ND<20	ND<100	ND<20	ND<20

NOTES:

µg/L = Micrograms per liter

-- = Not sampled

ID = Identification

ND<# = Analyte not detected at or above indicated practical quantitation limit

svoc = Semi-volatile organic compound

Table 8g
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	Di-n-octyl phthalate (µg/L)	Fluoran-thene (µg/L)	Fluorene (µg/L)	Hexa-chloro-benzene (µg/L)	Hexachloro-butadiene (svoc) (µg/L)	Hexachloro cyclopenta-diene (µg/L)	Hexachloro -ethane (µg/L)	Indeno-[1,2,3-c,d] pyrene (µg/L)	Isophorone (µg/L)	2-Methyl-4,6-dinitro-phenol (µg/L)	2-Methyl-naphtha-lene (µg/L)	2-Methyl-phenol (µg/L)
MW-1	7/20/1999	--	--	--	--	--	--	--	--	--	--	240	--
	9/28/1999	--	--	--	--	--	--	--	--	--	--	87.4	26.4
	1/7/2000	--	--	--	--	--	--	--	--	--	--	315	--
	3/31/2000	--	--	--	--	--	--	--	--	--	--	73	31
	7/14/2000	--	--	--	--	--	--	--	--	--	--	300	--
	10/3/2000	--	--	--	--	--	--	--	--	--	--	98.1	--
	1/3/2001	--	--	--	--	--	--	--	--	--	--	180	--
	4/4/2001	--	--	--	--	--	--	--	--	--	--	78	--
	7/17/2001	--	--	--	--	--	--	--	--	--	--	290	47
	7/18/2002	--	--	--	--	--	--	--	--	--	--	420	13
	7/7/2003	--	--	--	--	--	--	--	--	--	--	260	ND<5.0
	7/12/2004	--	ND<2	ND<2	--	--	--	--	ND<2	--	--	--	--
	7/28/2006	ND<10	ND<10	ND<10	ND<10	ND<5.0	ND<10	ND<10	ND<10	ND<10	--	280	ND<10
	7/19/2007	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<1.1	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<11	230	29
	7/3/2008	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<100	270	ND<20
MW-5	1/6/2003	--	--	--	--	--	--	--	--	--	--	ND<5.0	ND<5.0
MW-7	1/6/2003	--	--	--	--	--	--	--	--	--	--	ND<5.0	ND<5.0

NOTES:

µg/L = Micrograms per liter

-- = Not sampled

ID = Identification

ND<# = Analyte not detected at or above indicated practical quantitation limit

svoc = Semi-volatile organic compound

Table 8h
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	4-Methyl-phenol (µg/L)	Naphtha-lene (svoc) (µg/L)	2-Nitro-aniline (µg/L)	3-Nitro-aniline (µg/L)	4-Nitro-aniline (µg/L)	Nitro-benzene (µg/L)	2-Nitro-phenol (µg/L)	4-Nitro-phenol (µg/L)	N-nitrosodi-n-propyl-amine (µg/L)	N-Nitro-sodiphenyl-amine (µg/L)	Penta-chloro-phenol (µg/L)	Phen-anthrene (µg/L)
MW-1	7/20/1999	27	--	--	--	--	--	--	--	--	--	--	--
	9/28/1999	35.6	--	--	--	--	--	--	--	--	--	--	--
	3/31/2000	18	--	--	--	--	--	--	--	--	--	--	--
	10/3/2000	28.9	--	--	--	--	--	--	--	--	--	--	--
	7/17/2001	25	--	--	--	--	--	--	--	--	--	--	--
	7/18/2002	25	--	--	--	--	--	--	--	--	--	--	--
	7/7/2003	22	--	--	--	--	--	--	--	--	--	--	--
	7/12/2004	--	--	--	--	--	--	--	--	--	--	--	ND<2
	7/28/2006	--	660	ND<10	ND<10	ND<25	ND<10	ND<10	ND<10	ND<10	ND<10	ND<50	ND<10
	7/19/2007	--	770	ND<2.2	ND<2.2	ND<5.5	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<11	ND<2.2
	7/3/2008	--	750	ND<20	ND<20	ND<50	ND<20	ND<20	ND<20	ND<20	ND<20	ND<100	ND<20
MW-5	1/6/2003	ND<5.0	--	--	--	--	--	--	--	--	--	--	--
MW-7	1/6/2003	ND<5.0	--	--	--	--	--	--	--	--	--	--	--

NOTES:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit
svoc = Semi-volatile organic compound

Table 8i
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	Phenol (µg/L)	Pyrene (µg/L)	1,2,4-Trichloro-benzene (µg/L)	2,4,6-Trichloro-phenol (µg/L)	2,4,5-Trichloro-phenol (µg/L)	Carbon (organic, total) (µg/L)	Chromium VI (µg/L)	Chromium (total) (µg/L)	Iron Ferrous (µg/L)	Manganese (dissolved) (µg/L)	Manganese (total) (µg/L)	Molyb-denum (total) (µg/L)
MW-1	7/12/2004	--	ND<2	--	--	--	--	--	--	--	--	--	--
	7/28/2006	ND<10	ND<10	ND<10	ND<25	ND<25	--	--	--	--	--	--	--
	7/19/2007	ND<2.2	ND<2.2	ND<2.2	ND<5.5	ND<5.5	--	--	--	--	--	--	--
	7/3/2008	ND<20	ND<20	ND<20	ND<50	ND<50	--	--	--	--	--	--	--
	4/13/2009	--	--	--	--	--	26	ND<2.0	ND<3.0	280	160	200	8.6
MW-2	4/13/2009	--	--	--	--	--	4.4	ND<2.0	9.3	740	110	230	1.1
MW-3	4/13/2009	--	--	--	--	--	3.0	ND<2.0	14	1,800	2,800	2,500	4.7
MW-4	4/13/2009	--	--	--	--	--	1.9	ND<2.0	8.1	1,500	2,000	3,500	7.2
MW-5	4/13/2009	--	--	--	--	--	1.4	ND<2.0	19	ND<500	1.4	650	1.2
MW-6	4/13/2009	--	--	--	--	--	1.4	ND<2.0	32	ND<500	14	530	2.6
MW-7	4/13/2009	--	--	--	--	--	2.3	ND<2.0	100	3,200	960	2,300	1.1
MW-8	4/13/2009	--	--	--	--	--	0.48	ND<2.0	3.3	130	ND<1.0	47	1.2

NOTES:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8j
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	Molyb-denum (dissolved) (µg/L)	Selenium (total) (µg/L)	Selenium (dissolved) (µg/L)	Vanadium (total) (µg/L)	Vanadium (dissolved) (µg/L)	Bromate (µg/L)	Bromide (µg/L)	Chloride (µg/L)	Nitrogen as Nitrate (µg/L)	Sulfate (µg/L)	Alkalinity (total) (µg/L)	Specific Con-ductance (µg/L)
MW-1	4/13/2009	7.5	ND<2.0	ND<2.0	ND<3.0	ND<3.0	ND<25	0.77	23	ND<0.44	ND<1.0	390	750
MW-2	4/13/2009	ND<1.0	ND<2.0	ND<2.0	31	12	ND<25	0.40	25	0.85	14	350	688
MW-3	4/13/2009	3.7	ND<2.0	ND<2.0	22	ND<3.0	ND<25	0.41	30	2.9	16	360	681
MW-4	4/13/2009	6.4	ND<2.0	ND<2.0	13	3.4	ND<25	0.40	37	4.4	23	320	704
MW-5	4/13/2009	1.5	ND<2.0	ND<2.0	59	6.1	ND<25	0.71	68	5.7	26	350	860
MW-6	4/13/2009	2.9	ND<2.0	ND<2.0	80	5.2	ND<25	0.58	72	8.9	37	280	754
MW-7	4/13/2009	1.3	ND<2.0	ND<2.0	190	5.6	ND<25	0.50	37	ND<0.44	9.3	430	848
MW-8	4/13/2009	1.2	ND<2.0	ND<2.0	12	4.5	ND<25	ND<0.10	81	19	40	210	690

NOTES:
µg/L = Micrograms per liter
-- = Not sampled
ID = Identification
ND<# = Analyte not detected at or above indicated practical quantitation limit

Table 8k
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	PRE-PURGE DO (mg/L)	POST-PURGE DO (mg/L)	PRE-PURGE ORP (mV)	POST-PURGE ORP (mV)
MW-1	4/13/2009	0.75	--	-102	--
	7/23/2009	2.47	--	-23	--
	2/1/2010	1.18	0.81	-98	-108
	8/2/2010	0.72	0.59	-82	-97
MW-1B	11/1/2010	2.80	0.93	121	111
	1/31/2011	2.57	1.32	152	159
	4/26/2011	3.05	1.90	173	182
	1/23/2012	1.63	0.67	84	80
	7/24/2012	1.36	0.70	74	95
	2/8/2013	1.8	1.7	52	61
	7/10/2013	2.0	1.8	55	58
	1/16/2014	3.3	1.2	158	99
	1/27/2015	2.5	2.0	139	111
MW-2	4/13/2009	0.65	0.49	-27	-15
	7/23/2009	2.57	7.09	56	14
	2/1/2010	2.13	1.51	3	-14
	8/2/2010	0.97	0.62	-7	-12
MW-2B	11/1/2010	1.30	1.06	113	115
	1/31/2011	1.25	0.89	159	159
	4/26/2011	4.27	2.42	173	180
	1/23/2012	0.98	--	108	--
	7/24/2012	0.67	1.10	69	67
	2/8/2013	1.9	1.7	79	86
	7/10/2013	1.7	1.5	54	60
	1/16/2014	2.2	1.8	75	90
	1/27/2015	1.9	1.7	128	119
MW-3	4/13/2009	0.64	0.38	-89	-82
	7/23/2009	5.14	6.14	-22	-56
	2/1/2010	2.12	0.79	-63	-89
	8/2/2010	0.81	0.62	-77	-59
MW-3B	11/1/2010	1.89	0.60	125	117
	1/31/2011	0.88	0.66	161	100
	4/26/2011	1.44	0.92	169	115
	1/23/2012	0.83	0.31	84	-9
	7/24/2012	0.64	0.49	-14	-53
	2/8/2013	1.4	1.2	-36	-47
	7/10/2013	1.7	1.4	-29	-32
	1/16/2014	1.5	1.2	-25	-42

Table 8k
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	PRE-PURGE DO (mg/L)	POST-PURGE DO (mg/L)	PRE-PURGE ORP (mV)	POST-PURGE ORP (mV)
	7/22/2014	1.6	1.2	-68	-43
	1/27/2015	1.5	1.3	-42	-58
	7/21/2015	**1.6**	**1.3**	**-32**	**-53**
MW-4	4/13/2009	0.51	1.35	-67	-46
	7/23/2009	2.10	7.23	-28	-48
	2/1/2010	1.67	0.90	-76	-70
	8/2/2010	0.74	0.57	-94	-64
MW-4B	11/1/2010	1.31	0.63	77	83
	1/31/2011	3.13	1.72	151	145
	4/26/2011	4.19	1.97	234	221
	1/23/2012	2.18	3.96	161	124
	7/24/2012	1.37	0.91	2	8
	2/8/2013	2.2	2.1	86	95
	7/10/2013	2.4	2.2	24	27
	1/16/2014	2.0	1.5	65	49
	1/27/2015	2.6	2.3	122	110
MW-5	4/13/2009	1.80	0.95	-21	-12
	7/23/2009	1.54	2.08	136	144
	2/1/2010	1.82	1.84	21	23
	8/2/2010	1.78	1.36	171	44
	1/31/2011	1.17	1.00	154	155
	1/23/2012	1.15	0.56	98	84
	7/24/2012	2.74	0.79	40	42
	2/8/2013	2.3	2.1	62	71
	7/10/2013	2.4	2.2	34	37
	1/16/2014	2.6	2.1	125	107
	1/27/2015	2.2	2.0	135	114
MW-6	4/13/2009	0.80	0.54	-40	-32
MW-7	4/13/2009	0.80	1.27	-21	-13
	7/23/2009	1.35	0.76	165	165
	2/1/2010	1.86	0.97	-33	-12
	8/2/2010	1.24	0.74	133	41
	1/31/2011	1.22	0.92	156	163
	1/23/2012	3.15	0.55	113	106
	7/24/2012	3.14	1.57	-108	-76
	2/8/2013	2.4	2.3	56	67
	7/10/2013	2.1	1.9	52	56
	1/16/2014	2.3	2.1	138	125

Table 8k
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	PRE-PURGE DO (mg/L)	POST-PURGE DO (mg/L)	PRE-PURGE ORP (mV)	POST-PURGE ORP (mV)
	1/27/2015	2.4	2.2	138	127
MW-8	4/13/2009	2.56	1.11	-70	-48
	7/23/2009	4.57	8.40	196	185
	2/1/2010	3.17	2.94	-17	-16
MW-9A	7/10/2013	1.4	1.1	59	58
	1/16/2014	2.2	1.8	28	10
	7/22/2014	1.3	1.0	37	26
	1/27/2015	2.3	2.1	60	42
	7/21/2015	**2.1**	**1.7**	**128**	**105**
MW-9B	7/10/2013	1.3	1.1	71	74
	1/16/2014	0.6	0.7	99	87
	1/27/2015	2.8	2.4	137	126
MW-10A	7/10/2013	1.9	1.5	81	84
	1/16/2014	1.0	0.7	34	22
	7/22/2014	1.1	.09	43	33
	1/27/2015	1.3	1.0	39	30
	7/21/2015	**1.5**	**1.1**	**68**	**56**
MW-10B	7/10/2013	1.9	1.7	76	79
	1/16/2014	0.8	0.8	66	57
	7/22/2014	1.1	.08	84	70
	1/27/2015	1.1	0.8	83	72
	7/21/2015	**1.3**	**1.0**	**106**	**84**
MW-10S	**7/21/2015**	**1.8**	**1.6**	**80**	**74**
MW-11A	7/10/2013	1.6	1.4	43	49
	1/16/2014	1.8	1.7	60	46
	7/22/2014	1.7	1.5	69	54
	1/27/2015	1.6	1.2	35	34
	7/21/2015	**1.3**	**1.1**	**12**	**4**
MW-11B	7/10/2013	1.3	1.1	73	74
	1/16/2014	1.5	1.1	25	-83
	7/22/2014	1.6	1.2	-37	-26
	1/27/2015	1.4	1.2	18	7
	7/21/2015	**1.9**	**1.6**	**89**	**66**
MW-11S	7/22/2014	1.8	1.4	16	6

Table 8k
Historical Groundwater Analytical Results - Additional Analytes
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE	PRE-PURGE DO (mg/L)	POST-PURGE DO (mg/L)	PRE-PURGE ORP (mV)	POST-PURGE ORP (mV)
	1/27/2015	1.9	1.4	-19	-32
	7/21/2015	**1.7**	**1.4**	**19**	**9**

NOTES:

-- = Not monitored

DO = Dissolved oxygen

ID = Identification

mg/L = Milligrams per liter

mV = Millivolts

ORP = Oxidation-reduction potential

ATTACHMENT 1

Groundwater Sampling/Purge Logs

GETTLER-RYAN INC.

TRANSMITTAL

July 31, 2015
G-R #385646

TO: Mr. Chad Roper
AECOM
1220 Avenida Acaso
Camarillo, California 93012

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Chevron Facility
#351645/1156
4276 Mac Arthur Boulevard
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Second Semi-Annual Event of July 21, 2015**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351645/1156

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #351645 / 1156

Site Address: 4276 Macarthur Blvd.

City: Oakland, CA

Job #: 385646

Event Date: 7/21/18

Sampler: JW

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-1B	ok							N	N	12" emco	N
MW-5	ok									8" BL	
MW-9A	ok									8" emco	
MW-9B	ok										
MW-10A	ok										
MW-10B	ok										
MW-10S	ok										
MW-7	ok			2x5						12" emco	

Comments

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #351645 / 1156

Site Address: 4276 Macarthur Blvd.

City: Oakland, CA

Job #: 385646

Event Date: 7-21-15

Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/(N)	REPLACE CAP Y/(N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/(N)
MW-2B	OK									Emco/12"/2	
MW-3B	OK										
MW-4B	OK										
MW-11A	OK									Emco/8"/2	
MW-11B	OK									" " "	
MW-11S	OK									Emco/12"/2	

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7/21/15 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-1B Date Monitored: 7/21/15
Well Diameter 2 in.
Total Depth 24.92 ft.
Depth to Water 7.64 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

17.28 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump ✓
- QED Bladder Pump
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Metal Filters
- Peristaltic Pump ✓
- QED Bladder Pump
- Other:

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: ___ / ___ Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ gpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE:	----------	PRE:	PRE:	PRE:	PRE:	PRE:

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: MW

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #351645 / 1156** Job Number: **385646**

Site Address: **4276 Macarthur Blvd.** Event Date: 7.21.15 (inclusive)

City: **Oakland, CA** Sampler: FT

Well ID MW-2B Date Monitored: 7.21.15

Well Diameter 2 in.

Total Depth 24.90 ft.

Depth to Water 10.35 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

14.55 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:

Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:

Sample Time/Date: / Water Color: Odor: **Y / N**

Approx. Flow Rate: gpm. Sediment Description:

Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE:	----------	PRE:	PRE:	PRE:	PRE:	PRE:

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: M/O

EMIO 12" DK

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7.21.15 (inclusive)
City: Oakland, CA Sampler: ET

Well ID MW-3B Date Monitored: 7.21.15
Well Diameter 2 in.
Total Depth 24.93 ft.
Depth to Water 7.28 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

17.65 xVF .17 = 3.00 x3 case volume = Estimated Purge Volume: 9.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.81

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0930 Weather Conditions: CLOUDY
Sample Time/Date: 1135 / 7.21.15 Water Color: CLEAR Odor: Ⓨ / N STRONG
Approx. Flow Rate: ~ gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 10.52

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/ mS µmhos/cm)	Temperature (Ⓒ / F)	D.O. (mg/L)	ORP (mV)
PRE: 0930	----------	PRE: 6.71	PRE: 755	PRE: 20.8	PRE: 1.6	PRE: -32
0936	3.0	6.69	749	21.1	1.5	-40
0942	6.0	6.65	741	21.6	1.4	-46
0948	9.0	6.62	736	22.1	1.3	-53

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3B	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: EMCO 12" OK
SLOW RECOVERY

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #351645 / 1156** Job Number: **385646**

Site Address: **4276 Macarthur Blvd.** Event Date: 7.21.15 (inclusive)

City: **Oakland, CA** Sampler: FR

Well ID **MW-4B** Date Monitored: 7.21.15

Well Diameter 2 in.

Total Depth 24.81 ft.

Depth to Water 7.26 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

17.55 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:

Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump ___
QED Bladder Pump ___
Other: ___

Sampling Equipment:

Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump ___
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___

Sample Time/Date: ___ / ___ Water Color: ___ Odor: **Y / N** ___

Approx. Flow Rate: ___ gpm. Sediment Description: ___

Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE:	----------	PRE:	PRE:	PRE:	PRE:	PRE:

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: M/O
EMIO 12" OK

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7/21/15 (inclusive)
City: Oakland, CA Sampler: JW

Well ID MW-5 Date Monitored: 7/21/15
Well Diameter 2 in.
Total Depth 25.31 ft.
Depth to Water 2.58 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

22.73 ~~22.72~~ MNL xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump
- QED Bladder Pump
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Metal Filters
- Peristaltic Pump
- QED Bladder Pump
- Other:

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: ___ / ___ Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ gpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE:	----------	PRE:	PRE:	PRE:	PRE:	PRE:

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: M/O

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7/21/15 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-7 Date Monitored: 7/21/15
Well Diameter 2 in.
Total Depth 23.95 ft.
Depth to Water 7.48 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

16.47 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump
- QED Bladder Pump
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Metal Filters
- Peristaltic Pump
- QED Bladder Pump
- Other:

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: ___ / ___ Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ gpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE:	----------	PRE:	PRE:	PRE:	PRE:	PRE:

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: MW

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7/21/15 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-9A Date Monitored: 7/21/15
Well Diameter 2 in.
Total Depth 15.11 ft.
Depth to Water 5.87 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

9.24 xVF .17 = 1.57 x3 case volume = Estimated Purge Volume: 4.71 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.71

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0710 Weather Conditions: Cloudy
Sample Time/Date: 1000 / 7/21/15 Water Color: Cloudy Odor: (Y) / N Low
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.59

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0710	----------	PRE: 6.78	PRE: 1213	PRE: 22.0	PRE: 2.1	PRE: 126
0715	1.5	6.73	1205	21.9	2.0	121
0720	3.0	6.70	1192	21.7	1.8	113
0725	4.5	6.62	1180	21.6	1.7	105

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9A	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	~~x 1 liter ambers~~	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: 8" Emco

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 | Job Number: 385646
Site Address: 4276 Macarthur Blvd. | Event Date: 7/21/15 (inclusive)
City: Oakland, CA | Sampler: JH

Well ID: MW-9B | Date Monitored: 7/21/15
Well Diameter: 2 in.
Total Depth: 20.16 ft.
Depth to Water: 6.01 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

14.15 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump ✓
- QED Bladder Pump
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Metal Filters
- Peristaltic Pump
- QED Bladder Pump ✓
- Other:

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: ___ / ___ Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ gpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE:	----------	PRE:	PRE:	PRE:	PRE:	PRE:

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: MW

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7/21/15 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-10A Date Monitored: 7/21/15
Well Diameter 2 in.
Total Depth 14.48 ft.
Depth to Water 7.32 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

7.16 xVF .17 = 1.21 x3 case volume = Estimated Purge Volume: 3.65 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.75

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0815 Weather Conditions: cloudy
Sample Time/Date: 1110 / 7/21/15 Water Color: cloudy Odor: Ⓨ / N Strong
Approx. Flow Rate: — gpm. Sediment Description: silt
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.47

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (Ⓒ / F)	D.O. (mg/L)	ORP (mV)
PRE: 0815	----------	PRE: 7.20	PRE: 1510	PRE: 20.8	PRE: 1.5	PRE: 68
0819	1	7.14	1501	20.7	1.4	62
0823	2.5	7.11	1482	20.6	1.2	60
0827	3.5	7.04	1475	20.4	1.1	56

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10A	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	~~x 1 liter ambers~~	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS:

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7/21/15 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-10B Date Monitored: 7/21/15
Well Diameter 2 in.
Total Depth 19.25 ft.
Depth to Water 7.58 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

11.67 xVF .17 = 1.98 x3 case volume = Estimated Purge Volume: 5.95 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.91

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0900 Weather Conditions: Cloudy
Sample Time/Date: 1135 / 7/21/15 Water Color: Cloudy Odor: (Y) / N Low
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 9.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0900	----------	PRE: 7.46	PRE: 1450	PRE: 22.0	PRE: 1.3	PRE: 106
0905	2	7.46	1472	21.8	1.2	98
0911	4	7.31	1455	21.7	1.0	91
0918	6	7.20	1498	21.7	1.0	84

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10B	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	~~x 1 liter ambers~~	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7/21/15 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-10S Date Monitored: 7/21/15
Well Diameter ● in.
Total Depth 10.33 ft.
Depth to Water 5.92 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.41 xVF .66 = 2.91 x3 case volume = Estimated Purge Volume: 8.73 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.80

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0750 Weather Conditions: Cl
Sample Time/Date: 1040 / 7/21/15 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: Light
Did well de-water? Yes If yes, Time: 0757 Volume: 4 gal. DTW @ Sampling: 6.54

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0750	----------	PRE: 7.30	PRE: 1570	PRE: 21.8	PRE: 1.8	PRE: 80
0756	3	7.20	1539	21.5	1.6	74

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10S	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	1 x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7.21.15 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-11A Date Monitored: 7.21.15
Well Diameter 2 in.
Total Depth 15.00 ft.
Depth to Water 5.39 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

9.61 xVF .17 = 1.63 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.31

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0905 Weather Conditions: CLOUDY
Sample Time/Date: 1110 / 7.21.15 Water Color: CLOUDY Odor: (Y) / N STRONG
Approx. Flow Rate: / gpm. Sediment Description: SL. GRY.
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 6.92

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0905		PRE: 6.55	PRE: 939	PRE: 20.9	PRE: 1.3	PRE: 12
0908	1.5	6.50	944	21.3	1.2	09
0911	3.0	6.48	950	21.8	1.1	7
0915	5.0	6.46	958	22.0	1.1	4

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11A	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: EMCO 8" SLOW RECOVERY

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7.21.15 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-11B Date Monitored: 7.21.15
Well Diameter 2 in.
Total Depth 20.20 ft.
Depth to Water 5.37 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

14.83 xVF .17 = 2.52 x3 case volume = Estimated Purge Volume: 8.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.33

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0835 Weather Conditions: CLOUDY
Sample Time/Date: 1045 / 7.21.15 Water Color: CLEAR Odor: Y / N STRONG
Approx. Flow Rate: ✓ gpm. Sediment Description: NONE
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 8.28

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0835	----------	PRE 6.59	PRE: 1086	PRE: 20.1	PRE: 1.9	PRE: 89
0840	2.5	6.52	1095	20.3	1.8	75
0845	5.0	6.49	1108	20.8	1.7	71
0851	8.0	6.47	1120	21.0	1.6	66

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11B	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	■ x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: Emco 8" SLOW RECOVERY

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 7.21.15 (inclusive)
City: Oakland, CA Sampler: FF

Well ID MW-11S Date Monitored: 7.21.15
Well Diameter 2 in.
Total Depth 10.16 ft.
Depth to Water 6.13 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

4.03 xVF .66 = 2.65 x3 case volume = Estimated Purge Volume: 8.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.93

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0810 Weather Conditions: CLOUDY
Sample Time/Date: 1025 / 7.21.15 Water Color: CLEAR Odor: (Y) / N STRONG
Approx. Flow Rate: — gpm. Sediment Description: NONE
Did well de-water? YES If yes, Time: 0821 Volume: 5.0 gal. DTW @ Sampling: 6.87

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)
PRE: 0810	----------	PRE: 6.50	PRE: 918	PRE: 22.9	PRE: 1.7	PRE: 19
0815	2.5	6.45	932	22.6	1.5	12
0820	5.0	6.41	940	22.1	1.4	09

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11S	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX(8021)MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)
	1 x 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: EMCO 12" OK

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583 COC 1 of ____

Union Oil Site ID: 1156	Union Oil Consultant: AECOM
Site Global ID: T0600102279	Consultant Contact: C Roper
Site Address: 4276 MacArthur Blvd Oakland CA	Consultant Phone No.: 805-467-4627
	Sampling Company: ~~TRC~~ GRinc
Union Oil PM: N. Arceneaux	Sampled By (PRINT): S. Heras
Union Oil PM Phone No.: 925-790-6912	Sampler Signature:
Charge Code: NWRTB- 0 351645 -0- LAB	**BC Laboratories, Inc.** **Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.

ANALYSES REQUIRED

Turnaround Time (TAT): Standard ☒ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015 w/sgc	TPH - G by ~~GC/MS~~ (8260B)	BTEX/MTBE/~~OXYS~~ by EPA 8260B	~~Ethanol by EPA 8260B~~ Methane (RSK-175)	EPA 8260B Full List with OXYS	Btex (8021)	MTBE (8260B)	8 oxys (8260)	Oil & Grease (1664)	Ferrous Iron (...)	Dissolved ...	Notes / Comments
QA	W-S-A		150721	—	2		X	X									
MW-2B	W-S-A		↓	1135	12	X	↓	X	X		X	X	X		X	X	
MW-9A	W-S-A		↓	1000	12	↓	↓	X	↓		↓	↓	↓		↓	↓	
MW-10A	W-S-A		↓	1110	12	↓	↓	X	↓		↓	↓	↓		↓	↓	
MW-10B	W-S-A		↓	1135	12	↓	↓	X	↓		↓	↓	↓		↓	↓	
MW-10S	W-S-A		↓	1040	13	↓	↓	X	↓		↓	↓	↓	X	↓	↓	
MW-11A	W-S-A		↓	1110	12	↓	↓	X	↓		↓	↓	↓		↓	↓	
MW-11B	W-S-A		↓	1045	12	↓	↓	X	↓		↓	↓	↓		↓	↓	
MW-11S	W-S-A		↓	1025	13	↓	↓	X	↓		↓	↓	↓	X	↓	↓	
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	GRinc	7/21/15 1400						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
[signature]	[illegible]	[illegible]						

ATTACHMENT 2

Laboratory Analytical Report and Chain-of-Custody Documentation

Date of Report: 08/12/2015

Chad Roper

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Client Project:	351645
BCL Project:	1156
BCL Work Order:	1517890
Invoice ID:	B210398

Enclosed are the results of analyses for samples received by the laboratory on 7/21/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

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CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: 1156	Union Oil Consultant: ABCom
Site Global ID: T0600102279	Consultant Contact: C. Roper
Site Address: 4276 MacArthur Blvd Oakland CA	Consultant Phone No.: 805-467-4027
	Sampling Company: GRinc
Union Oil PM: N. Arceneaux	Sampled By (PRINT): J. Herra
Union Oil PM Phone No.: 925-790-6912	Sampler Signature: [signature]
Charge Code: NWRTB-0 351645 -0- LAB 1517890	BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.

Turnaround Time (TAT): Standard ☒ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

ANALYSES REQUIRED

	Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015 w/SGC	TPH - G by (8015m)	BTEX/MTBE/ by EPA 8260B	Methane (RSK-175)	EPA 8260B Full List with OXYS	Btex (8021)	MTBE (8260B)	8 oxys (8260)	O.I & Grease (1664)	Ferrous Iron (SM80 3500 Fe B)	Nitrate/Sulfate 300.0 / Dissolved Manganese (200.7)	Notes / Comments
-1	QA	W-S-A		150721	—	2		X	~~X~~									
-2	MW-3B	W-S-A		↓	1135	12	X		[scribbled out]	X		X	X	X		X	X	
-3	MW-9A	W-S-A		↓	1000	12	↓	↓	[scribbled out]	↓		↓	↓	↓		↓	↓	
-4	MW-10A	W-S-A		↓	1110	12	↓	↓	[scribbled out]	↓		↓	↓	↓		↓	↓	
-5	MW-10B	W-S-A		↓	1135	12	↓	↓	[scribbled out]	↓		↓	↓	↓		↓	↓	
-6	MW-10S	W-S-A		↓	1040	13	↓	↓	[scribbled out]	↓		↓	↓	↓	X	↓	↓	
-7	MW-11A	W-S-A		↓	1110	12	↓	↓	[scribbled out]	↓		↓	↓	↓		↓	↓	
-8	MW-11B	W-S-A		↓	1045	12	↓	↓	[scribbled out]	↓		↓	↓	↓		↓	↓	
-9	MW-11S	W-S-A		↓	1025	13	↓	↓	[scribbled out]	↓		↓	↓	↓	X	↓	↓	
		W-S-A																
		W-S-A																
		W-S-A																

SHORT HOLDING TIME: Cr+6 NO2 (NO3) OP SS DO Cl2 BOD MBAS COT

CHK BY [initials] DISTRIBUTION [initials] SUB-OUT ☐

Relinquished By	Company	Date / Time	Relinquished By	Company	Date / Time	Relinquished By	Company	Date / Time
[signature]	GRinc	7/21/15 1400	Gary Bogen	BcLab	7-21-2015 1830	[signature]	BCLAB	7/21/15 1850
Received By	**Company**	**Date / Time**	**Received By**	**Company**	**Date / Time**	**Received By**	**Company**	**Date / Time**
Gary Bogen	BcLab	7-21-15 1510	[signature]	BCLAB	7/21/15 2250	[signature]	BCLAB	7.21.15 2250

Chain of Custody and Cooler Receipt Form for 1517890 Page 2 of 3

BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 1 Of 2

Submission #: 15-17890

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 208

Temperature: (A) 1.6 °C / (C) 1.4 °C

Date/Time 7/21/15 2304

Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES			F	F	F	F				
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	AB									
40ml VOA VIAL			A·F	A·F	A·F	A·F K				
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- ~~504~~ methene			GH	GH	GH	GH				
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M			KL	KL	KL	LM				
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON			J	J	J	J				
ENCORE										
SMART KIT										
Summa Canister										

Comments:
Sample Numbering Completed By: Date/Time: 7/21/15 0015
A = Actual / C = Corrected

Rev. No. 19 05/06/2015 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 19)

Chain of Custody and Cooler Receipt Form for 1517890 Page 3 of 3

BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 2 Of 2

Submission #: 15.17890

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Amber Thermometer ID: 208 Date/Time 7/21/15

Temperature: (A) 0.4 °C / (C) 0.5 °C Analyst Init KIB 2307

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		GH					GH	GH	F	
4oz / 8oz / 16oz PE UNPRES		GH								
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK		A-F					A-F	A-F	A-F	
40ml VOA VIAL									K	
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL		GH					GH	GH	GH	
40 ml VOA VIAL- ~~504~~ methene										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549		KL					KL	KL	LM	
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON	1	MJ					MJ	J	J	
ENCORE		MJ								
SMART KIT										
Summa Canister										

Comments:
Sample Numbering Completed By: Date/Time: 7.21.15 0040
A = Actual / C = Corrected

Rev. No. 19 05/06/2015 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19)

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1517890-01	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 00:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	QA-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Blank Water
			Delivery Work Order:
			Global ID: T0600102279
			Location ID (FieldPoint): QA
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1517890-02	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 11:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3B-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID: T0600102279
			Location ID (FieldPoint): MW-3B
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1517890-03	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 10:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9A-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time
			Delivery Work Order:
			Global ID: T0600102279
			Location ID (FieldPoint): MW-9A
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1517890-04	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 11:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10A-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
	Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600102279 Location ID (FieldPoint): MW-10A Matrix: W Sample QC Type (SACode): CS Cooler ID:		
1517890-05	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 11:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10B-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
	Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600102279 Location ID (FieldPoint): MW-10B Matrix: W Sample QC Type (SACode): CS Cooler ID:		
1517890-06	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 10:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10S-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
	Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600102279 Location ID (FieldPoint): MW-10S Matrix: W Sample QC Type (SACode): CS Cooler ID:		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1517890-07	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 11:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11A-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
	Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600102279 Location ID (FieldPoint): MW-11A Matrix: W Sample QC Type (SACode): CS Cooler ID:		
1517890-08	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 10:45
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11B-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
	Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600102279 Location ID (FieldPoint): MW-11B Matrix: W Sample QC Type (SACode): CS Cooler ID:		
1517890-09	**COC Number:**	---	**Receive Date:** 07/21/2015 22:50
	Project Number:	1156	**Sampling Date:** 07/21/2015 10:25
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11S-W-150721	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
	Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600102279 Location ID (FieldPoint): MW-11S Matrix: W Sample QC Type (SACode): CS Cooler ID:		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-01 | **Client Sample Name:** 1156, QA-W-150721, 7/21/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 11:13	SE1	MS-V12	1	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-01 | **Client Sample Name:** 1156, QA-W-150721, 7/21/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	07/27/15	07/28/15 02:03	AKM	GC-V9	1	BYG1892

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-02 | **Client Sample Name:** 1156, MW-3B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	**23**	**ug/L**	**5.0**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	100		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	2500		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	95.6	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 15:03	SE1	MS-V12	10	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-02 | **Client Sample Name:** 1156, MW-3B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**210**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Toluene	**100**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Ethylbenzene	**570**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Total Xylenes	**220**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	1
Gasoline Range Organics (C4 - C12)	**4200**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	2
a,a,a-Trifluorotoluene (PID Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	107	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/24/15	07/24/15 22:57	AKM	GC-V9	10	BYG1892
2	EPA-8015B	07/24/15	07/24/15 22:57	AKM	GC-V9	10	BYG1892

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1517890-02 | **Client Sample Name:** 1156, MW-3B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**280**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	59.2	%	20 - 120 (LCL - UCL)		EPA-8015B/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	07/28/15	08/05/15 10:16	RSM	GC-5	1	BYH0326

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1517890-02 | **Client Sample Name:** 1156, MW-3B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**4.3**	**mg/L**	**0.010**		**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	07/30/15	07/30/15 10:22	JH2	GC-V1	10	BYG2519

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1517890-02 | **Client Sample Name:** 1156, MW-3B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**2600**	**ug/L**	**100**		**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/22/15	07/22/15 16:18	BMW	IC8	1	BYG1957
2	SM-3500-FeD	07/22/15	07/22/15 10:54	TDC	KONE-1	1	BYG1894

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1517890-02 | **Client Sample Name:** 1156, MW-3B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**8.5**	**ug/L**	**1.0**		**EPA-200.8**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	08/10/15	08/11/15 00:32	EAR	PE-EL3	1	BYH0771

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-03 | **Client Sample Name:** 1156, MW-9A-W-150721, 7/21/2015 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
t-Amyl Methyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	100		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	2500		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	80.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 17:24	SE1	MS-V12	10	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-03 | **Client Sample Name:** 1156, MW-9A-W-150721, 7/21/2015 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**2700**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	1
Toluene	**22**	**ug/L**	**0.30**		**EPA-8020**	ND		2
Ethylbenzene	**190**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	3
Total Xylenes	**23**	**ug/L**	**0.60**		**EPA-8020**	ND		2
Gasoline Range Organics (C4 - C12)	**7100**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	4
a,a,a-Trifluorotoluene (PID Surrogate)	112	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	123	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (PID Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-8020			3
a,a,a-Trifluorotoluene (FID Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-8015B			4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/24/15	07/25/15 00:38	AKM	GC-V9	50	BYG1892
2	EPA-8020	07/27/15	07/28/15 04:05	AKM	GC-V9	1	BYG1892
3	EPA-8020	07/24/15	07/24/15 23:17	AKM	GC-V9	10	BYG1892
4	EPA-8015B	07/24/15	07/24/15 23:17	AKM	GC-V9	10	BYG1892

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1517890-03 | **Client Sample Name:** 1156, MW-9A-W-150721, 7/21/2015 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**170**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	49.8	%	20 - 120 (LCL - UCL)		EPA-8015B/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	07/28/15	08/05/15 10:29	RSM	GC-5	1	BYH0326

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1517890-03 | **Client Sample Name:** 1156, MW-9A-W-150721, 7/21/2015 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.91**	**mg/L**	**0.010**		**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	07/30/15	07/30/15 10:32	JH2	GC-V1	10	BYG2519

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1517890-03 | **Client Sample Name:** 1156, MW-9A-W-150721, 7/21/2015 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**6000**	**ug/L**	**1000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/22/15	07/22/15 22:27	BMW	IC8	1	BYG1957
2	SM-3500-FeD	07/22/15	07/22/15 11:50	TDC	KONE-1	10	BYG1894

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1517890-03 | **Client Sample Name:** 1156, MW-9A-W-150721, 7/21/2015 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1300**	**ug/L**	**1.0**		**EPA-200.8**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	08/10/15	08/11/15 20:23	EAR	PE-EL3	1	BYH0771

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-04 | **Client Sample Name:** 1156, MW-10A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	**420**	**ug/L**	**5.0**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	100		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	2500		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	63.3	%	75 - 125 (LCL - UCL)		EPA-8260B		S09	1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	91.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 15:56	SE1	MS-V12	10	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-04 | **Client Sample Name:** 1156, MW-10A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**15000**	**ug/L**	**75**		**EPA-8020**	ND	**A01**	1
Toluene	**190**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	2
Ethylbenzene	**1000**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	3
Total Xylenes	**960**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**22000**	**ug/L**	**2500**		**EPA-8015B**	ND	**A01**	4
a,a,a-Trifluorotoluene (PID Surrogate)	103	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	110	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (PID Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-8020			3
a,a,a-Trifluorotoluene (FID Surrogate)	96.5	%	70 - 130 (LCL - UCL)		EPA-8015B			4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/15	07/28/15 05:06	AKM	GC-V9	250	BYG1892
2	EPA-8020	07/24/15	07/24/15 23:38	AKM	GC-V9	10	BYG1892
3	EPA-8020	07/27/15	07/28/15 04:45	AKM	GC-V9	50	BYG1892
4	EPA-8015B	07/27/15	07/28/15 04:45	AKM	GC-V9	50	BYG1892

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1517890-04 | **Client Sample Name:** 1156, MW-10A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**530**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	55.4	%	20 - 120 (LCL - UCL)		EPA-8015B/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	07/28/15	08/05/15 10:41	RSM	GC-5	1	BYH0326

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1517890-04 | **Client Sample Name:** 1156, MW-10A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**1.0**	**mg/L**	**0.010**		**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	07/30/15	07/30/15 10:40	JH2	GC-V1	10	BYG2519

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1517890-04 | **Client Sample Name:** 1156, MW-10A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**5500**	**ug/L**	**1000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/22/15	07/22/15 22:45	BMW	IC8	1	BYG1957
2	SM-3500-FeD	07/22/15	07/22/15 11:50	TDC	KONE-1	10	BYG1894

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1517890-04 | **Client Sample Name:** 1156, MW-10A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1200**	**ug/L**	**1.0**		**EPA-200.8**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	08/10/15	08/11/15 00:39	EAR	PE-EL3	1	BYH0771

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-05 | **Client Sample Name:** 1156, MW-10B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	**96**	**ug/L**	**5.0**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	100		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	2500		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	90.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 15:21	SE1	MS-V12	10	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-05 | **Client Sample Name:** 1156, MW-10B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**780**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Toluene	**27**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Ethylbenzene	**100**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Total Xylenes	**130**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	1
Gasoline Range Organics (C4 - C12)	**2600**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	2
a,a,a-Trifluorotoluene (PID Surrogate)	103	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	96.7	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/24/15	07/24/15 23:58	AKM	GC-V9	10	BYG1892
2	EPA-8015B	07/24/15	07/24/15 23:58	AKM	GC-V9	10	BYG1892

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1517890-05 | **Client Sample Name:** 1156, MW-10B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**46**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	47.1	%	20 - 120 (LCL - UCL)		EPA-8015B/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	07/28/15	08/05/15 10:54	RSM	GC-5	1	BYH0326

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1517890-05 | **Client Sample Name:** 1156, MW-10B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.20**	**mg/L**	**0.0010**		**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	07/30/15	07/30/15 10:44	JH2	GC-V1	1	BYG2519

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1517890-05 | **Client Sample Name:** 1156, MW-10B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**5300**	**ug/L**	**1000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/22/15	07/22/15 18:06	BMW	IC8	1	BYG1957
2	SM-3500-FeD	07/22/15	07/22/15 11:50	TDC	KONE-1	10	BYG1894

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1517890-05 | **Client Sample Name:** 1156, MW-10B-W-150721, 7/21/2015 11:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1100**	**ug/L**	**1.0**		**EPA-200.8**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	08/10/15	08/11/15 00:42	EAR	PE-EL3	1	BYH0771

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-06 | **Client Sample Name:** 1156, MW-10S-W-150721, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	**10**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 11:49	SE1	MS-V12	1	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-06 | **Client Sample Name:** 1156, MW-10S-W-150721, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**1.6**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Toluene	ND	ug/L	0.30		EPA-8020	ND		1
Ethylbenzene	**6.2**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Total Xylenes	ND	ug/L	0.60		EPA-8020	ND		1
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		2
a,a,a-Trifluorotoluene (PID Surrogate)	98.4	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	95.0	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/15	07/28/15 03:45	AKM	GC-V9	1	BYG1892
2	EPA-8015B	07/27/15	07/28/15 03:45	AKM	GC-V9	1	BYG1892

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1517890-06 | **Client Sample Name:** 1156, MW-10S-W-150721, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	55.4	%	20 - 120 (LCL - UCL)		EPA-8015B/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	07/28/15	08/05/15 11:07	RSM	GC-5	1	BYH0326

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

EPA Method 1664

BCL Sample ID: 1517890-06 | **Client Sample Name:** 1156, MW-10S-W-150721, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0		EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	07/23/15	07/23/15 08:00	MAM	MAN-SV	1	BYG2102

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1517890-06 | **Client Sample Name:** 1156, MW-10S-W-150721, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.50**	**mg/L**	**0.0010**		**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	07/30/15	07/30/15 10:48	JH2	GC-V1	1	BYG2520

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1517890-06 | **Client Sample Name:** 1156, MW-10S-W-150721, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	**51**	**mg/L**	**1.0**		**EPA-300.0**	ND		1
Iron (II) Species	**2400**	**ug/L**	**100**		**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/22/15	07/22/15 23:03	BMW	IC8	1	BYG1957
2	SM-3500-FeD	07/22/15	07/22/15 10:54	TDC	KONE-1	1	BYG1894

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1517890-06 | **Client Sample Name:** 1156, MW-10S-W-150721, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1600**	**ug/L**	**1.0**		**EPA-200.8**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	08/10/15	08/11/15 20:30	EAR	PE-EL3	1	BYH0771

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-07 | **Client Sample Name:** 1156, MW-11A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	25		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	25		EPA-8260B	ND	A01	1
Methyl t-butyl ether	**2600**	**ug/L**	**25**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	500		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	12000		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	85.6	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 14:10	SE1	MS-V12	50	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-07 | **Client Sample Name:** 1156, MW-11A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**11000**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Toluene	**6900**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Ethylbenzene	**1800**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**12000**	**ug/L**	**30**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**56000**	**ug/L**	**2500**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	108	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	107	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/24/15	07/25/15 01:58	AKM	GC-V9	200	BYG1892
2	EPA-8020	07/24/15	07/25/15 00:58	AKM	GC-V9	50	BYG1892
3	EPA-8015B	07/24/15	07/25/15 00:58	AKM	GC-V9	50	BYG1892

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1517890-07 | **Client Sample Name:** 1156, MW-11A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**700**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	47.6	%	20 - 120 (LCL - UCL)		EPA-8015B/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	07/28/15	08/05/15 11:20	RSM	GC-5	1	BYH0326

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1517890-07 | **Client Sample Name:** 1156, MW-11A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**2.7**	**mg/L**	**0.010**		**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	07/30/15	07/30/15 11:26	JH2	GC-V1	10	BYG2520

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1517890-07 | **Client Sample Name:** 1156, MW-11A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**8400**	**ug/L**	**1000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/22/15	07/22/15 19:18	BMW	IC8	1	BYG1957
2	SM-3500-FeD	07/22/15	07/22/15 11:50	TDC	KONE-1	10	BYG1894

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1517890-07 | **Client Sample Name:** 1156, MW-11A-W-150721, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1500**	**ug/L**	**1.0**		**EPA-200.8**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	08/10/15	08/11/15 00:49	EAR	PE-EL3	1	BYH0771

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-08 | **Client Sample Name:** 1156, MW-11B-W-150721, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	25		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	25		EPA-8260B	ND	A01	1
Methyl t-butyl ether	**1900**	**ug/L**	**25**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	500		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	12000		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	82.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 14:27	SE1	MS-V12	50	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-08 | **Client Sample Name:** 1156, MW-11B-W-150721, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**10000**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Toluene	**770**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	2
Ethylbenzene	**960**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**1200**	**ug/L**	**30**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**23000**	**ug/L**	**2500**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	108	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	105	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/24/15	07/25/15 01:38	AKM	GC-V9	200	BYG1892
2	EPA-8020	07/24/15	07/25/15 01:18	AKM	GC-V9	50	BYG1892
3	EPA-8015B	07/24/15	07/25/15 01:18	AKM	GC-V9	50	BYG1892

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1517890-08 | **Client Sample Name:** 1156, MW-11B-W-150721, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**430**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	62.7	%	20 - 120 (LCL - UCL)		EPA-8015B/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	07/28/15	08/05/15 11:57	RSM	GC-5	1	BYH0326

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1517890-08 | **Client Sample Name:** 1156, MW-11B-W-150721, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.48**	**mg/L**	**0.0010**		**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	07/30/15	07/30/15 11:30	JH2	GC-V1	1	BYG2520

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1517890-08 | **Client Sample Name:** 1156, MW-11B-W-150721, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**3100**	**ug/L**	**100**		**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/22/15	07/22/15 19:36	BMW	IC8	1	BYG1957
2	SM-3500-FeD	07/22/15	07/22/15 10:54	TDC	KONE-1	1	BYG1894

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1517890-08 | **Client Sample Name:** 1156, MW-11B-W-150721, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1800**	**ug/L**	**1.0**		**EPA-200.8**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	08/10/15	08/11/15 20:34	EAR	PE-EL3	1	BYH0771

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1517890-09 | **Client Sample Name:** 1156, MW-11S-W-150721, 7/21/2015 10:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	**190**	**ug/L**	**5.0**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	100		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	2500		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	90.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/22/15	07/22/15 15:39	SE1	MS-V12	10	BYG1834

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1517890-09 | **Client Sample Name:** 1156, MW-11S-W-150721, 7/21/2015 10:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**670**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Toluene	**18**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Ethylbenzene	**420**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Total Xylenes	**240**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	1
Gasoline Range Organics (C4 - C12)	**5100**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	2
a,a,a-Trifluorotoluene (PID Surrogate)	105	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	103	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/24/15	07/25/15 00:18	AKM	GC-V9	10	BYG1892
2	EPA-8015B	07/24/15	07/25/15 00:18	AKM	GC-V9	10	BYG1892

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Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1517890-09 | **Client Sample Name:** 1156, MW-11S-W-150721, 7/21/2015 10:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**280**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	48.0	%	20 - 120 (LCL - UCL)		EPA-8015B/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	07/28/15	08/05/15 12:10	RSM	GC-5	1	BYH0326

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EPA Method 1664

BCL Sample ID: 1517890-09 | **Client Sample Name:** 1156, MW-11S-W-150721, 7/21/2015 10:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0		EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	07/23/15	07/23/15 08:00	MAM	MAN-SV	1	BYG2102

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Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1517890-09 | **Client Sample Name:** 1156, MW-11S-W-150721, 7/21/2015 10:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.65**	**mg/L**	**0.010**		**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	07/30/15	07/30/15 11:40	JH2	GC-V1	10	BYG2520

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Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1517890-09 | **Client Sample Name:** 1156, MW-11S-W-150721, 7/21/2015 10:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**5200**	**ug/L**	**1000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/22/15	07/22/15 23:21	BMW	IC8	1	BYG1957
2	SM-3500-FeD	07/22/15	07/22/15 11:52	TDC	KONE-1	10	BYG1894

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Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1517890-09 | **Client Sample Name:** 1156, MW-11S-W-150721, 7/21/2015 10:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1700**	**ug/L**	**1.0**		**EPA-200.8**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	08/10/15	08/11/15 00:56	EAR	PE-EL3	1	BYH0771

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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG1834						
Benzene	BYG1834-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BYG1834-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BYG1834-BLK1	ND	ug/L	0.50		
Ethylbenzene	BYG1834-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BYG1834-BLK1	ND	ug/L	0.50		
Toluene	BYG1834-BLK1	ND	ug/L	0.50		
Total Xylenes	BYG1834-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BYG1834-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BYG1834-BLK1	ND	ug/L	10		
Diisopropyl ether	BYG1834-BLK1	ND	ug/L	0.50		
Ethanol	BYG1834-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BYG1834-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	**BYG1834-BLK1**	**104**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYG1834-BLK1**	**96.0**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYG1834-BLK1**	**98.0**	%	**80 - 120 (LCL - UCL)**		

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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG1834										
Benzene	BYG1834-BS1	LCS	26.580	25.000	ug/L	106		70 - 130		
Toluene	BYG1834-BS1	LCS	27.830	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYG1834-BS1	LCS	9.3600	10.000	ug/L	93.6		75 - 125		
Toluene-d8 (Surrogate)	BYG1834-BS1	LCS	10.100	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYG1834-BS1	LCS	9.8500	10.000	ug/L	98.5		80 - 120		

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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG1834	Used client sample: N										
Benzene	MS	1517748-03	ND	29.990	25.000	ug/L		120		70 - 130	
	MSD	1517748-03	ND	28.180	25.000	ug/L	6.2	113	20	70 - 130	
Toluene	MS	1517748-03	ND	30.830	25.000	ug/L		123		70 - 130	
	MSD	1517748-03	ND	28.840	25.000	ug/L	6.7	115	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1517748-03	ND	9.6400	10.000	ug/L		96.4		75 - 125	
	MSD	1517748-03	ND	9.8400	10.000	ug/L	2.1	98.4		75 - 125	
Toluene-d8 (Surrogate)	MS	1517748-03	ND	10.030	10.000	ug/L		100		80 - 120	
	MSD	1517748-03	ND	9.9300	10.000	ug/L	1.0	99.3		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1517748-03	ND	10.140	10.000	ug/L		101		80 - 120	
	MSD	1517748-03	ND	10.090	10.000	ug/L	0.5	101		80 - 120	

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG1892						
Benzene	BYG1892-BLK1	ND	ug/L	0.30		
Toluene	BYG1892-BLK1	ND	ug/L	0.30		
Ethylbenzene	BYG1892-BLK1	ND	ug/L	0.30		
Total Xylenes	BYG1892-BLK1	ND	ug/L	0.60		
Gasoline Range Organics (C4 - C12)	BYG1892-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (PID Surrogate)	**BYG1892-BLK1**	**105**	%	**70 - 130 (LCL - UCL)**		
a,a,a-Trifluorotoluene (FID Surrogate)	**BYG1892-BLK1**	**105**	%	**70 - 130 (LCL - UCL)**		

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Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG1892										
Benzene	BYG1892-BS1	LCS	38.657	40.000	ug/L	96.6		85 - 115		
Toluene	BYG1892-BS1	LCS	36.920	40.000	ug/L	92.3		85 - 115		
Ethylbenzene	BYG1892-BS1	LCS	37.360	40.000	ug/L	93.4		85 - 115		
Total Xylenes	BYG1892-BS1	LCS	112.31	120.00	ug/L	93.6		85 - 115		
Gasoline Range Organics (C4 - C12)	BYG1892-BS1	LCS	1056.9	1000.0	ug/L	106		85 - 115		
a,a,a-Trifluorotoluene (PID Surrogate)	BYG1892-BS1	LCS	41.641	40.000	ug/L	104		70 - 130		
a,a,a-Trifluorotoluene (FID Surrogate)	BYG1892-BS1	LCS	41.646	40.000	ug/L	104		70 - 130		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG1892	Used client sample: N										
Benzene	MS	1516891-14	ND	41.736	40.000	ug/L		104		70 - 130	
	MSD	1516891-14	ND	38.366	40.000	ug/L	8.4	95.9	20	70 - 130	
Toluene	MS	1516891-14	ND	41.278	40.000	ug/L		103		70 - 130	
	MSD	1516891-14	ND	36.805	40.000	ug/L	11.5	92.0	20	70 - 130	
Ethylbenzene	MS	1516891-14	ND	40.500	40.000	ug/L		101		70 - 130	
	MSD	1516891-14	ND	37.389	40.000	ug/L	8.0	93.5	20	70 - 130	
Total Xylenes	MS	1516891-14	ND	122.92	120.00	ug/L		102		70 - 130	
	MSD	1516891-14	ND	112.49	120.00	ug/L	8.9	93.7	20	70 - 130	
Gasoline Range Organics (C4 - C12)	MS	1516891-14	ND	1007.5	1000.0	ug/L		101		70 - 130	
	MSD	1516891-14	ND	973.56	1000.0	ug/L	3.4	97.4	20	70 - 130	
a,a,a-Trifluorotoluene (PID Surrogate)	MS	1516891-14	ND	42.113	40.000	ug/L		105		70 - 130	
	MSD	1516891-14	ND	40.690	40.000	ug/L	3.4	102		70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1516891-14	ND	43.002	40.000	ug/L		108		70 - 130	
	MSD	1516891-14	ND	39.460	40.000	ug/L	8.6	98.6		70 - 130	

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0326						
Diesel Range Organics (C12 - C24)	BYH0326-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	**BYH0326-BLK1**	**42.8**	%	**20 - 120 (LCL - UCL)**		
Capric acid (Reverse Surrogate)	BYH0326-BLK1	0	%	0 - 1 (LCL - UCL)		

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH0326										
Diesel Range Organics (C12 - C24)	BYH0326-BS1	LCS	218.14	500.00	ug/L	43.6		20 - 110		
Tetracosane (Surrogate)	BYH0326-BS1	LCS	11.075	20.000	ug/L	55.4		20 - 120		
Capric acid (Reverse Surrogate)	BYH0326-BS1	LCS	ND	100.00	ug/L	0		0 - 1		

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0326	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1506890-11	ND	219.33	500.00	ug/L		43.9		20 - 110	
	MSD	1506890-11	ND	270.01	500.00	ug/L	20.7	54.0	30	20 - 110	
Tetracosane (Surrogate)	MS	1506890-11	ND	10.654	20.000	ug/L		53.3		20 - 120	
	MSD	1506890-11	ND	13.515	20.000	ug/L	23.7	67.6		20 - 120	
Capric acid (Reverse Surrogate)	MS	1506890-11	ND	ND	100.00	ug/L		0		0 - 1	
	MSD	1506890-11	ND	ND	100.00	ug/L		0		0 - 1	

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EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2102						
Oil and Grease	BYG2102-BLK1	ND	mg/L	5.0		

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EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2102										
Oil and Grease	BYG2102-BS1	LCS	37.200	38.900	mg/L	95.6		78 - 114		

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EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2102	Used client sample: N										
Oil and Grease	DUP	1513811-68	ND	ND		mg/L			18		
	MS	1513811-68	ND	38.100	38.900	mg/L		97.9		78 - 114	
	MSD	1513811-68	ND	35.250	38.900	mg/L	7.8	90.6	18	78 - 114	

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Gas Testing in Water

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2519						
Methane	BYG2519-BLK1	ND	mg/L	0.0010		
QC Batch ID: BYG2520						
Methane	BYG2520-BLK1	ND	mg/L	0.0010		

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Gas Testing in Water

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2519										
Methane	BYG2519-BS1	LCS	0.011746	0.010843	mg/L	108		80 - 120		
	BYG2519-BSD1	LCSD	0.011708	0.010843	mg/L	108	0.3	80 - 120	20	
QC Batch ID: BYG2520										
Methane	BYG2520-BS1	LCS	0.011910	0.010843	mg/L	110		80 - 120		
	BYG2520-BSD1	LCSD	0.011900	0.010843	mg/L	110	0.1	80 - 120	20	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG1894						
Iron (II) Species	BYG1894-BLK1	ND	ug/L	100		
QC Batch ID: BYG1957						
Nitrate as NO3	BYG1957-BLK1	ND	mg/L	0.44		
Sulfate	BYG1957-BLK1	ND	mg/L	1.0		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG1894										
Iron (II) Species	BYG1894-BS1	LCS	2531.8	2500.0	ug/L	101		90 - 110		
QC Batch ID: BYG1957										
Nitrate as NO3	BYG1957-BS1	LCS	23.444	22.134	mg/L	106		90 - 110		
Sulfate	BYG1957-BS1	LCS	107.41	100.00	mg/L	107		90 - 110		

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Reported: 08/12/2015 11:04
Project: 1156
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Project Manager: Chad Roper

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG1894	Used client sample: Y - Description: MW-3B-W-150721, 07/21/2015 11:35										
Iron (II) Species	DUP	1517890-02	2601.9	2568.3		ug/L	1.3		10		
QC Batch ID: BYG1957	Used client sample: Y - Description: MW-3B-W-150721, 07/21/2015 11:35										
Nitrate as NO3	DUP	1517890-02	0.19921	ND		mg/L			10		
	MS	1517890-02	0.19921	23.757	22.358	mg/L		105		80 - 120	
	MSD	1517890-02	0.19921	23.793	22.358	mg/L	0.2	106	10	80 - 120	
Sulfate	DUP	1517890-02	0.81000	ND		mg/L			10		
	MS	1517890-02	0.81000	108.56	101.01	mg/L		107		80 - 120	
	MSD	1517890-02	0.81000	108.57	101.01	mg/L	0.0	107	10	80 - 120	

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Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0771						
Dissolved Manganese	BYH0771-BLK1	ND	ug/L	1.0		

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Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH0771										
Dissolved Manganese	BYH0771-BS1	LCS	99.526	100.00	ug/L	99.5		85 - 115		

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Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0771	Used client sample: N										
Dissolved Manganese	DUP	1518000-02	393.09	391.55		ug/L	0.4		20		
	MS	1518000-02	393.09	487.80	102.04	ug/L		92.8		70 - 130	
	MSD	1518000-02	393.09	489.14	102.04	ug/L	0.3	94.1	20	70 - 130	

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Reported: 08/12/2015 11:04
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
A52	Chromatogram not typical of diesel.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

ATTACHMENT 3

Adjacent Site Monitoring Data – Former Shell Service Station No. 13-5701, 4255 MacArthur Boulevard, Oakland, California