James P. Kiernan, P.E.
Project Manager

Chevron Environmental Management Company
6001 Bollinger Canyon Road
Room C2102
San Ramon, CA 94583
Tel (925) 842-3220
jkiernan@chevron.com

November 17, 2016

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

RECEIVED
By Alameda County Environmental Health 3:07 pm, Dec 08, 2016

Re: 76 Station No. 1156 (351645)
Semi-Annual Status Report – Third Quarter 2016
4276 MacArthur Boulevard, Oakland, California
Fuel Leak Case No.: RO0000409

I have reviewed the attached report dated November 15, 2016.

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 Arcadis U.S., Inc., 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,

James P. Kiernan, P.E.
Project Manager

Attachment: Semi-Annual Status Report – Third Quarter 2016 by Arcadis

Arcadis U.S., Inc.
1100 Olive Way
Suite 800
Seattle
WA 98101
Tel 206-726-4720
Fax 206-325-8218
www.arcadis-us.com

Ms. Kit Soo
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject:
Semi-Annual Status Report, Third Quarter 2016

ENVIRONMENT

Dear Ms. Soo,

On behalf of Chevron Environmental Management Company's (CEMC's) affiliate, Union Oil Company of California (Union Oil), Arcadis has prepared the attached *Semi-Annual Status Report, Third Quarter 2016* for the following facility:

76 Station No.	**Case No.**	**Location**
1156	RO0000409	4276 MacArthur Blvd. Oakland, CA

If you have any questions, please do not hesitate to contact me.

Sincerely,

Arcadis U.S., Inc.

Date:
November 15, 2016

Contact:
Samuel Miles

Phone:
206.726.4720

Email:
Samuel.Miles@arcadis.com

Our ref:
B0035135.1645

Samuel Miles
Project Manager

Katherine Brandt, P.G.
Senior Geologist

Copies:
Geotracker Database
Mr. James Kiernan, CEMC (electronic)
Mr. Rajan Goswamy (Property owner) (electronic)
Mr. Ed Ralston, Phillips 66 (electronic)

ARCADIS Design & Consultancy for natural and built assets

SEMI-ANNUAL STATUS REPORT
Third Quarter 2016
November 15, 2016

Facility No:	76 Station No. 1156	Address:	4276 MacArthur Blvd., Oakland, CA

Arcadis Contact Person / Phone No.:	Samuel Miles / (206) 726-4720
Arcadis Project No.:	B0035135.1645
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health / Kit Soo / Case No. RO0000409

WORK CONDUCTED THIS PERIOD [Second and Third Quarter 2016]:

1. Conducted semi-annual groundwater monitoring activities on July 20, 2016.
2. Prepared the *Semi-Annual Status Report, Third Quarter 2016*.

WORK PROPOSED NEXT PERIOD [Fourth Quarter 2016 and First Quarter 2017]:

1. Conduct semi-annual groundwater monitoring activities and impement Multi-Phase Extraction (MPE) Pilot Test.
2. Prepare the *Semi-Annual Status Report, First Quarter 2017and MPE Pilot Test Report*.

Current Phase of Project:	Monitoring	
Frequency of Monitoring / Sampling:	Semi-annual	
Are Phase Separate Hydrocarbons (PSH) Present On-site:	No	
Cumulative PSH Recovered to Date:	None	(gallons)
Approximate Depth to Groundwater:	3.36 to 10.04	(feet below top of casing)
Approximate Groundwater Elevation:	162.97 to 172.17	(feet above mean sea level)
Groundwater Flow Direction	West-Southwest	
Groundwater Gradient	0.072 to 0.107	(foot per foot)
Current Remediation Techniques:	None	

Permits for Discharge:	None
Summary of Unusual Activity:	None
Agency Directive Requirements:	None

DISCUSSION

Gettler-Ryan, Inc. (G-R) conducted semi-annual groundwater monitoring activities on July 20, 2016. Field data sheets and general procedures are included as Attachment A. Fourteen (14) monitoring wells were gauged and eight (8) monitoring wells were purged and sampled by G-R representatives. Wells MW-1B, MW-2B, MW-4B, MW-5, MW-7, and MW-9B are sampled annually during the first quarter.

Groundwater samples were submitted to BC Laboratories, Inc. of Bakersfield, California under standard chain-of-custody protocols. Gauging and analytical data obtained by G-R for this event are summarized in Tables 1 and 2. Historical gauging and analytical data for the site are included as Attachment B. The site location and layout are presented on Figures 1 and 2, respectively; the groundwater elevation contours for the site on July 20, 2016 are presented on Figure 3. Concentrations for total petroleum hydrocarbons as gasoline (TPH-g), total petroleum hydrocarbons as diesel (TPH-d), benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tert-butyl ether (MTBE) are presented on Figure 4. A copy of the laboratory analytical report and chain-of-custody documentation are included as Attachment C.

The calculated direction of groundwater flow (west-southwest) was consistent with previous monitoring events, however the calculated gradient was higher. TPH-g, TPH-d, benzene, toluene, ethylbenzene, and MTBE were detected in all wells sampled this period. Xylenes were detected in all the sampled wells except MW-10S. TBA was detected in five of the wells. The highest concentrations of petroleum hydrocarbons generally continue to be present in wells MW-11A and MW-11B in the far southwest corner of the site adjacent to the existing USTs. However, elevated concentrations also remain in wells on the northwest side of the site. The detected concentrations were generally within historical ranges; however, the current concentrations of select constituents of concern (COCs) in several of the sampled wells were the highest to date. In some cases, concentrations significantly increased from the previous event.

Arcadis recommends continued semi-annual monitoring activities to further evaluate groundwater quality and concentration trends. Completion of a MPE pilot test and associated reporting is currently planned for first quarter 2017.

LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Arcadis' contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Chevron Environmental Management Company's affiliate, Union Oil Company of California ("Union Oil"), for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Arcadis. To the extent that this report is based on information provided to Arcadis by third parties, Arcadis may have made efforts to verify this third party information, but Arcadis cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Arcadis.

Date: November 15, 2016

Katherine Brandt, P.G.
Senior Geologist

Date: November 15, 2016

Samuel Miles
Project Manager

ATTACHMENTS:

Table 1	Current Groundwater Gauging and Analytical Results
Table 2	Current Groundwater Analytical Results – Monitored Natural Attenuation Parameters
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contour Map, July 20, 2016
Figure 4	TPH-d, TPH-g, BTEX, and MTBE Concentration Map, July 20, 2016
Attachment A	Field Data Sheets and General Procedures
Attachment B	Historical Groundwater Gauging and Analytical Data
Attachment C	Laboratory Report and Chain-of-Custody Documentation

TABLES

Table 1. Current Groundwater Gauging and Analytical Results
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard, Oakland, California

Well ID	Date Sampled	TOC Elevation (feet MSL)	DTW (feet bTOC)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Previous Quarter GWE (feet MSL)	Change in Elevation (feet)	TPH-d SGT (µg/L)	TPH-g (µg/L)	TPH-O&G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)
MW-1B	7/20/2016	174.06	7.03	0	167.03	168.20	-1.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2B	7/20/2016	173.55	7.49	0	166.06	168.64	-2.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3B	7/20/2016	177.77	6.88	0	170.89	172.59	-1.70	**2100**	**3900**	--	**220**	**120**	**660**	**190**	**13**	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2500
MW-4B	7/20/2016	179.07	6.90	0	172.17	173.93	-1.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	7/20/2016	169.18	3.36	0	165.82	167.76	-1.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	7/20/2016	172.11	7.32	0	164.79	165.63	-0.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9A	7/20/2016	173.01	10.04	0	162.97	164.54	-1.57	**560**	**5,600**	--	**1,800**	**20**	**64**	**22**	**57**	**1,900**	< 5.0	< 5.0	< 5.0	< 5.0	**58**	< 2500
MW-9B	7/20/2016	172.78	5.81	0	166.97	168.06	-1.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10A	7/20/2016	174.48	7.69	0	168.67	165.85	2.82	**3,700**	**22,000**	--	**11,000**	**180**	**960**	**900**	**440**	< 100	< 5.0	< 5.0	< 5.0	< 5.0	**180**	< 2500
MW-10B	7/20/2016	174.62	7.59	0	166.93	168.19	-1.26	**1,000**	**8,000**	--	**2,200**	**81**	**410**	**430**	**92**	**730**	< 5.0	< 5.0	< 5.0	< 5.0	**58**	< 2500
MW-10S	7/20/2016	175.57	5.21	0	167.98	169.44	-1.46	**48**	**100**	<5,000	**10**	**0.35**	**22**	< 0.60	**8.2**	**91**	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 250
MW-11A	7/20/2016	175.37	7.10	0	170.16	171.09	-0.93	**10,000**	**49,000**	--	**8,500**	**3,100**	**1,300**	**7,300**	**2,100**	**3,000**	< 25	< 25	< 25	< 25	< 25	< 12000
MW-11B	7/20/2016	174.65	5.75	0	168.90	166.94	1.96	**3,700**	**29,000**	--	**9,500**	**1,300**	**1,000**	**2,100**	**1,800**	**4,400**	< 25	< 25	< 25	< 25	< 25	< 12000
MW-11S	7/20/2016	176.09	5.75	0	170.34	172.86	-2.52	**460**	**1,700**	<5,000	**280**	**7.7**	**83**	**81**	**74**	< 10	< 0.50	< 0.50	< 0.50	< 0.50	**8.7**	< 250

Standard Abbreviations

TOC	top of casing (surveyed reference elevation)
MSL	relative to mean sea level
DTW	depth to water
bTOC	below top of casing
SPH	separate phase hydrocarbons
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)
NA	not available/not applicable
<	denotes less than laboratory reporting limit

Analytes

TPH-d SGT	total petroleum hydrocarbons as diesel range organics (C12-C24) Silica Gel Treated
TPH-g	total petroleum hydrocarbons as gasoline range organics (C6-C12)
TPH-O&G	total petroleum hydrocarbons as oil and grease range organics
MTBE	methyl tertiary butyl ether
TBA	tertiary butyl alcohol
TAME	tertiary amyl methyl ether
DIPE	di-isopropyl ether
ETBE	ethyl tertiary butyl ether
EDB	ethylene dibromide (same as 1,2-dibromoethane)
1,2-DCA	1,2-dichloroethane (same ethylene dichloride)

Notes

A01	Practical quantitation limit and method detection limit for TPH-d are raised due to sample dilution
A17	Surrogate not reportable due to sample dilution.
A52	Chromatogram not typical of diesel

Calc. GW Elev. = Calculated groundwater elevation = TOC - Depth to Water + 0.75*(Measured SPH Thickness); assuming a specific gravity of 0.75 for SPH

BOLD Concentration detected above laboratory practical quantitation limit

TABLE 2
Current Groundwater Analytical Results
Monitored Natural Attenuation Parameters

76 Service Station No. 1156
4276 Mac Arthur Boulevard
Oakland, California

Well ID	Date Sampled	Ferrous Iron (µg/L)	Dissolved Manganese (µg/L)	Methane (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Comments
MW-3B	7/20/2016	**7,300**	**3,600**	**4.80**	< 0.44	< 1.0	A01, A07
MW-9A	7/20/2016	**11,000**	**880**	**0.79**	< 0.88	< 2.0	A01, A07
MW-10A	7/20/2016	**5,600**	**950**	**0.62**	< 0.44	< 1.0	A01, A07
MW-10B	7/20/2016	**32,000**	**4,700**	**0.38**	< 0.44	< 1.0	A01, A07
MW-10S	7/20/2016	**4500**	**800**	**0.44**	< 0.44	**34**	A01
MW-11A	7/20/2016	**12,000**	**3,500**	**2.30**	< 0.44	< 1.0	A01, A07
MW-11B	7/20/2016	**20,000**	**1,400**	**0.46**	< 0.44	< 1.0	A01, A07
MW-11S	7/20/2016	**13,000**	**1,400**	**0.48**	< 0.44	< 1.0	A01, A07

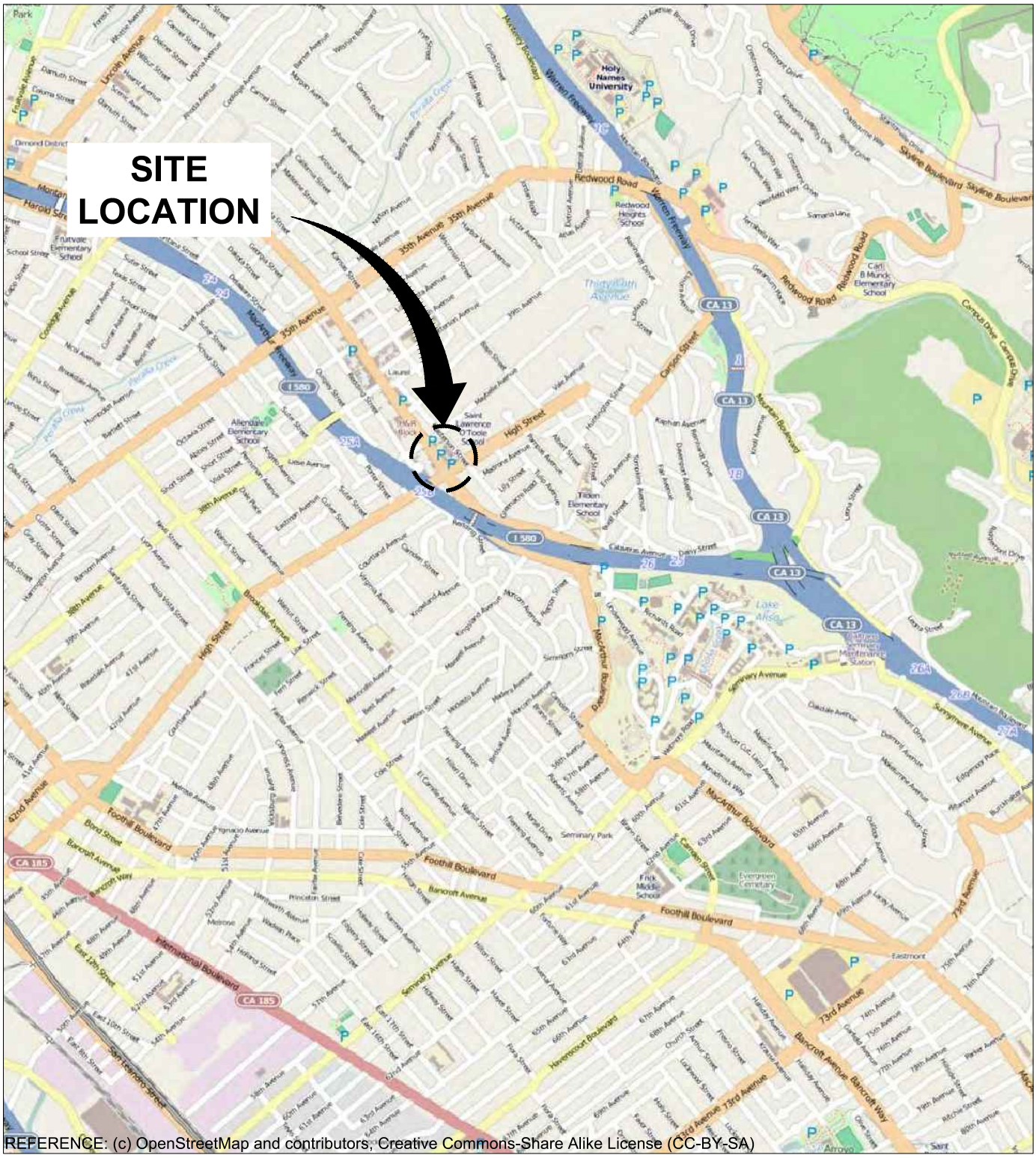
Standard Abbreviations

mg/L	milligrams per liter (approx. equivalent to parts per million, ppm)
µg/L	micrograms per liter (approx. equivalent to parts per billion, ppb)

Notes

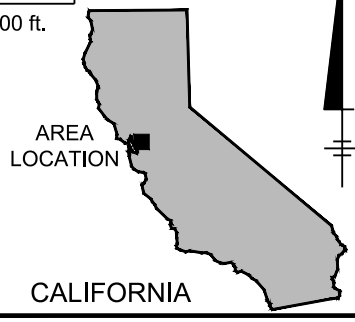
A01	Detection and quantitation limits are raised due to sample dilution
A07	Detection and quantitation limit's were raised due to sample dilution caused by high analyte concentration or matrix interference

FIGURES



0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



76 SERVICE STATION NO. 1156 (351645)
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA
THIRD QUARTER SEMI-ANNUAL STATUS REPORT 2016

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY:EMERYVILLE, CA DIV/GROUP:ENVCAD DB:A.REYES
G:\ENVCAD\Emeryville\ACT\B0035135\1645\Semi-AnnualSSR 2016\DWG\B0035135-1645 N01.dwg LAYOUT: 1 SAVED: 10/24/2016 10:30 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 10/24/2016 4:53 PM BY: REYES, ALEC
XREFS: IMAGES: PROJECTNAME: --
X-B0035135-1645_Location.jpg

Residence
(4257 Masterson)

Pharmacy
Drug Store

Current
Waste-Oil AST

Former
Used-Oil UST

Oakland
Veterinary
Hospital
(4258 MacArthur)

Sewer Cleanout

Parking

Station
Building

Service
Area

Mini-Mart
Area

Single-Family
Residence
(3627 High)

MW-1
MW-5
MW-10B
MW-10S
MW-10A
MW-1B
MW-9A
MW-9B
Gate

Former UST

MW-4B
MW-4

MW-6

MACARTHUR BOULEVARD

Driveway

Island

Island

UST

UST

MW-2
MW-2B
MW-3
MW-3B

Driveway

Driveway

MW-11S
MW-11B
MW-11A

Driveway

HIGH STREET

Vacant Lot
(4255 MacArthur)
(Former Shell Service
Station #13-5701)

MW-7

LEGEND

- GROUNDWATER MONITORING WELL
- DESTROYED GROUNDWATER MONITORING WELL
- STORM DRAIN
- FENCE / BLOCK WALL
- UST UNDERGROUND STORAGE TANK
- AST ABOVEGROUND STORAGE TANK

NORTH

0 20 40

APPROXIMATE SCALE IN FEET

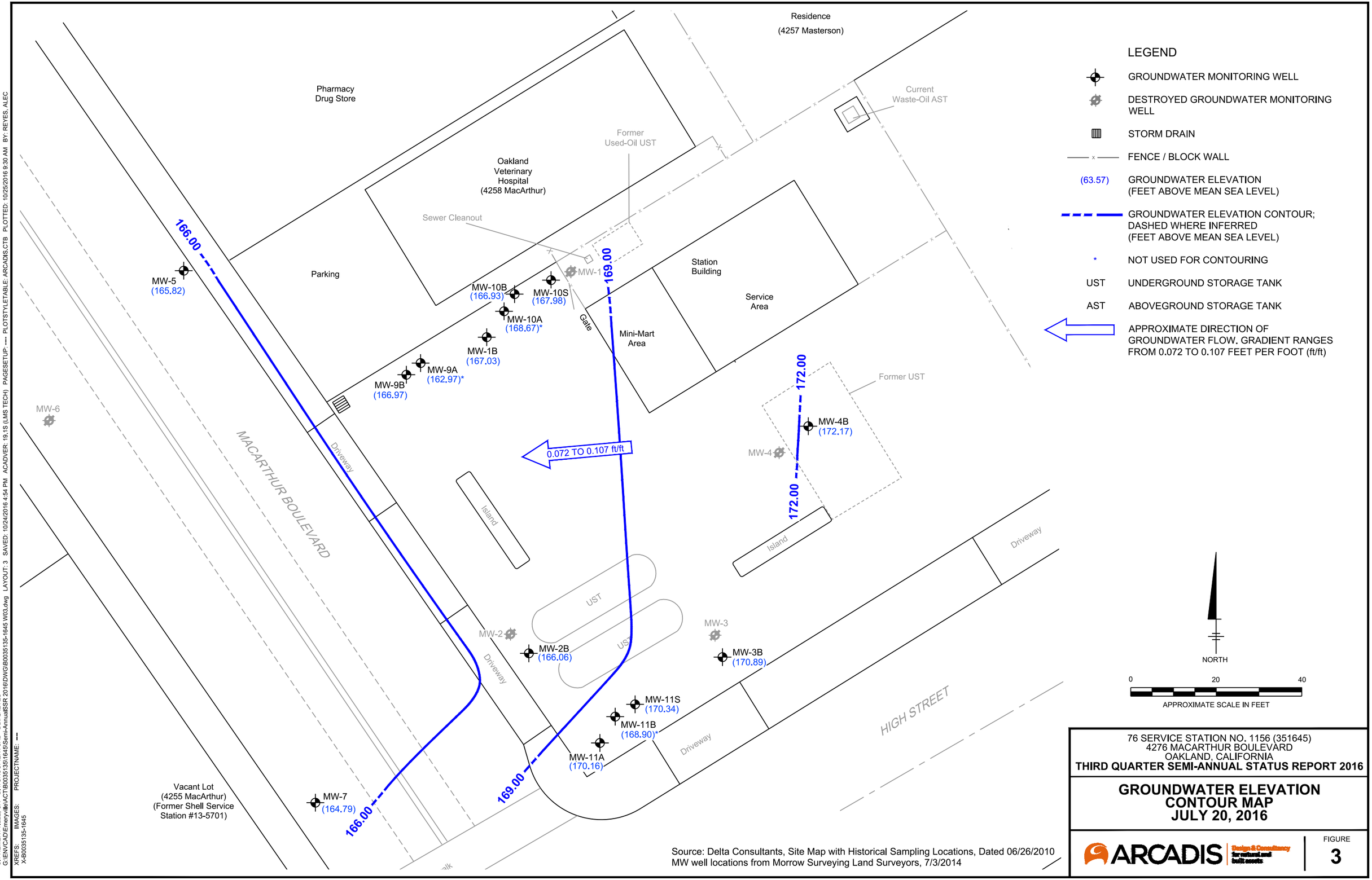
Source: Delta Consultants, Site Map with Historical Sampling Locations, Dated 06/26/2010
MW well locations from Morrow Surveying Land Surveyors, 7/3/2014

76 SERVICE STATION NO. 1156 (351645)
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA
THIRD QUARTER SEMI-ANNUAL STATUS REPORT 2016

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2



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

76 SERVICE STATION NO. 1156 (351645)
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA
THIRD QUARTER SEMI-ANNUAL STATUS REPORT 2016

GROUNDWATER ELEVATION CONTOUR MAP JULY 20, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

MW-10B	
TPH-d	**1,000**
TPH-g	**8,000**
B	**2,200**
T	**81**
E	**410**
X	**430**
MTBE	**92**

MW-10A	
TPH-d	**3,700**
TPH-g	**22,000**
B	**11,000**
T	**180**
E	**960**
X	**900**
MTBE	**440**

MW-9A	
TPH-d	**560**
TPH-g	**5,600**
B	**1,800**
T	**20**
E	**64**
X	**22**
MTBE	**57**

MW-10S	
TPH-d	**48**
TPH-g	**100**
B	**10**
T	**0.35**
E	**22**
X	< 0.60
MTBE	**8.2**

MW-11B	
TPH-d	**3,700**
TPH-g	**29,000**
B	**9,500**
T	**1,300**
E	**1,000**
X	**2,100**
MTBE	**1,800**

MW-11A	
TPH-d	**10,000**
TPH-g	**49,000**
B	**8,500**
T	**3,100**
E	**1,300**
X	**7,300**
MTBE	**2,100**

MW-3B	
TPH-d	**2,100**
TPH-g	**3,900**
B	**220**
T	**120**
E	**660**
X	**190**
MTBE	**13**

MW-11S	
TPH-d	**460**
TPH-g	**1,700**
B	**280**
T	**7.7**
E	**83**
X	**81**
MTBE	**74**

Residence
(4257 Masterson)
Pharmacy
Drug Store
Oakland
Veterinary
Hospital
(4258 MacArthur)
Parking
Sewer Cleanout
Former
Used-Oil UST
Current
Waste-Oil AST
Station
Building
Service
Area
Mini-Mart
Area
Gate
Former UST
Island
Island
Driveway
Driveway
Driveway
Driveway
UST
UST
MACARTHUR BOULEVARD
HIGH STREET
Vacant Lot
(4255 MacArthur)
(Former Shell Service
Station #13-5701)
MW-1
MW-2
MW-2B (NS)
MW-3
MW-3B
MW-4
MW-4B (NS)
MW-5 (NS)
MW-6
MW-7 (NS)
MW-9B (NS)
MW-1B (NS)
MW-10S
MW-10B
MW-10A
MW-9A
MW-11S
MW-11B
MW-11A

LEGEND

- GROUNDWATER MONITORING WELL
- DESTROYED GROUNDWATER MONITORING WELL
- STORM DRAIN
- FENCE / BLOCK WALL
- UST — UNDERGROUND STORAGE TANK
- AST — ABOVEGROUND STORAGE TANK
- (NS) — NOT SAMPLED
- <0.50 — NOT DETECTED AT OR ABOVE THE STATED LIMIT

LOCATION IDENTIFICATION	
TPH-d	TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS (µg/L)
TPH-g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS (µg/L)
B	BENZENE (µg/L)
T	TOLUENE (µg/L)
E	ETHYLBENZENE (µg/L)
X	TOTAL XYLENES (µg/L)
MTBE	METHYL TERTIARY BUTYL ETHER (µg/L)

NORTH

0 20 40

APPROXIMATE SCALE IN FEET

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

76 SERVICE STATION NO. 1156 (351645)
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA
THIRD QUARTER SEMI-ANNUAL STATUS REPORT 2016

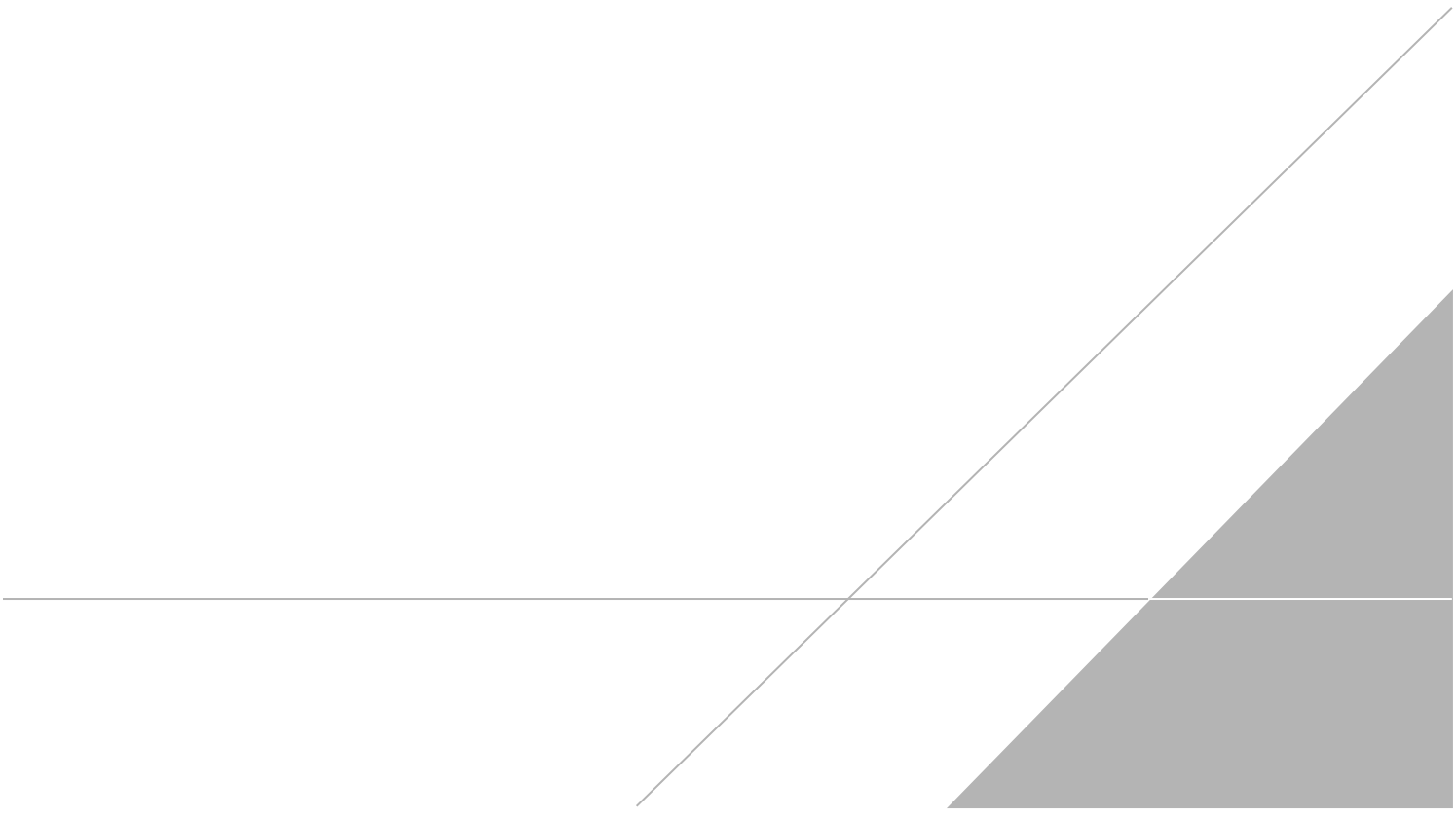
TPH-d, TPH-g, BTEX, AND MTBE CONCENTRATION MAP JULY 20, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4

ATTACHMENT A

[Field Data Sheets and General Procedures]



GETTLER-RYAN INC.

TRANSMITTAL

July 29, 2016
G-R #385646

TO: Mr. Samuel Miles
Arcadis
1100 Olive Way, Suite 800
Seattle, WA 98101

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 20, 2016**

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: 7/20/16

Sampler: GM

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							NO	NO	EMCO/12/2	
MW-7	ok			S(2)	ok						
MW-9A	ok									8	
MW-9B	ok										
MW-10A	ok										
MW-10B	ok										
MW-10S	ok										

Comments

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #351645 / 1156**

Site Address: **4276 Macarthur Blvd.**

City: **Oakland, CA**

Job #: **385646**

Event Date: 7.20.16

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-5	OK									Boart L./8"/3	
MW-11A	OK									Emco/8"/2	
MW-11B	OK									Emco/8/2	
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: 7/20/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW- 1B Date Monitored: 7/20/16
Well Diameter 2 in.
Total Depth 24.92 ft.
Depth to Water 7.03 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.

17.89 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/sm)	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/D

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: 7.20.16 (inclusive)
City: Oakland, CA Sampler: FR

Well ID MW-3B Date Monitored: 7.20.16
Well Diameter 2 in.
Total Depth 24.90 ft.
Depth to Water 7.49 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.

17.41 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: MLD

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: 7.20.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-3B Date Monitored: 7.20.16
Well Diameter 2 in.
Total Depth 24.93 ft.
Depth to Water 6.88 ft. ☐ Check if water column is less then 0.50 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

18.05 xVF .17 = 3.06 x3 case volume = Estimated Purge Volume: 9.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.49

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): 0900 Weather Conditions: Sunny
Sample Time/Date: 0935 / 7.20.16 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: 10.45

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0900	----------	PRE: 6.83	PRE: 425	PRE: 21.8	PRE: 1.8	PRE: -81
0906	3.0	6.86	433	20.2	1.6	-85
0912	6.0	6.88	439	20.0	1.4	-88
0918	9.0	6.90	446	19.7	1.5	-92

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: 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: 7.20.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-4B Date Monitored: 7.20.16
Well Diameter 2 in.
Total Depth 24.81 ft.
Depth to Water 6.90 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.

17.91 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 umhos/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: 7.20.16 (inclusive)
City: Oakland, CA Sampler: FR

Well ID MW-5 Date Monitored: 7.20.16
Well Diameter 2 in.
Total Depth 25.31 ft.
Depth to Water 3.36 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.

21.95 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: MW0

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: 7/20/16 (inclusive)

City: **Oakland, CA** Sampler: GM

Well ID **MW-7** Date Monitored: 7/20/16

Well Diameter 2 in.

Total Depth 23.95 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.

16.63 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/D

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: 7/20/16 (inclusive)
City: Oakland, CA Sampler: CM

Well ID MW-9A Date Monitored: 7/20/16
Well Diameter 2 in.
Total Depth 15.11 ft.
Depth to Water 10.04 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.

5.07 xVF 0.17 = 0.86 x3 case volume = Estimated Purge Volume: 3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.05

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
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: Ø 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): 0946 Weather Conditions: Sunny
Sample Time/Date: 1070/7/20/16 Water Color: Cloudy Odor: (Y) N SLIGHT
Approx. Flow Rate: — gpm. Sediment Description: silt
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 10.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature ((F) C)	D.O. (mg/L)	ORP (mV)
PRE: 0948	----------	PRE: 7.12	PRE: 1189	PRE: 21.1	PRE: 1.1	PRE: -29
0951	1	7.09	1158	20.4	1.3	-12
0954	2	7.04	1151	20.1	1.5	-11
0958	3	7.01	1142	19.9	1.6	-10

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)
	6 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: 7/20/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-9B Date Monitored: 7/20/16
Well Diameter 2 in.
Total Depth 20.16 ft.
Depth to Water 5.81 ft.
14.35 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

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.

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: 0 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/sm)	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: 7/20/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-10A Date Monitored: 7/20/16
Well Diameter 2 in.
Total Depth 14.48 ft.
Depth to Water 7.69 ft. ☐ Check if water column is less then 0.50 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

6.79 xVF 0.17 = 1.15 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.04

Purge Equipment:
Disposable Bailer X
Stainless Steel Bailer
Stack Pump
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: 0 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): 0855 Weather Conditions: Sunny
Sample Time/Date: 0930 7/20/16 Water Color: CLEAR Odor: Y N STRONG
Approx. Flow Rate: — gpm. Sediment Description: CC SILT
Did well de-water? No If yes, Time: — Volume: — gal. DTW @ Sampling: 8.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0855	----------	PRE: 7.25	PRE: 1101	PRE: 20.1	PRE: 1.7	PRE: -44
0858	1.75	7.20	1044	19.5	2.1	-30
0901	2.5	7.20	1076	19.2	2.7	-37
0904	3.5	7.19	1024	19.1	2.4	-25

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)
	0 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: 7/20/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-10B Date Monitored: 7/20/16
Well Diameter 2 in.
Total Depth 19.25 ft.
Depth to Water 7.59 ft. ☐ Check if water column is less then 0.50 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

11.66 xVF 0.17 = 1.98 x3 case volume = Estimated Purge Volume: 6 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.92

Purge Equipment:
Disposable Bailer: X
Stainless Steel Bailer:
Stack Pump:
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: 0 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): 0805 Weather Conditions: Sunny
Sample Time/Date: 0840 / 7/20/16 Water Color: GRAY Odor: (Y) / N STRONG
Approx. Flow Rate: — gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 9.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm	Temperature (C) F	D.O. (mg/L)	ORP (mV)
PRE: 0805	----------	PRE: 7.15	PRE: 825	PRE: 21.1	PRE: 1.7	PRE: -38
0810	2	7.08	814	19.4	2.1	-30
0814	4	7.07	812	19.2	2.2	-29
0818	6	7.05	811	19.6	2.4	-29

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)
	2 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: 7/20/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-10S Date Monitored: 7/20/16
Well Diameter 4 in.
Total Depth 10.33 ft.
Depth to Water 5.21 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.

5.12 xVF 0.66 = 3.37 x3 case volume = Estimated Purge Volume: 10.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.23

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: 0 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): 0740 Weather Conditions: Sunny
Sample Time/Date: 1100 / 7/20/16 Water Color: Cloudy Odor: Y / N
Approx. Flow Rate: 1 gpm. Sediment Description: Silt
Did well de-water? Yes If yes, Time: 0750 Volume: 5 gal. DTW @ Sampling: 6.12

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0740	----------	PRE: 7.25	PRE: 1582	PRE: 21.9	PRE: 7.4	PRE: 92
0743	3	7.17	1549	20.1	2.1	85

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: 7.20.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-11A Date Monitored: 7.20.16
Well Diameter 2 in.
Total Depth 15.00 ft.
Depth to Water 7.10 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.

7.90 xVF .17 = 1.34 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.68

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): 0945 Weather Conditions: SUNNY
Sample Time/Date: 1015 / 7.20.16 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: 7.75

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0945		PRE: 6.67	PRE: 480	PRE: 21.9	PRE: 1.5	PRE: -52
0948	1.5	6.73	494	21.4	1.4	-57
0951	3.0	6.77	502	20.9	1.3	-61
0954	4.0	6.81	510	20.4	1.2	-67

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: 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: 7.20.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-11B Date Monitored: 7.20.16
Well Diameter 2 in.
Total Depth 20.20 ft.
Depth to Water 5.75 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.

14.45 xVF .17 = 2.45 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.64

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): 1030 Weather Conditions: SUNNY
Sample Time/Date: 1200 / 7.20.16 Water Color: CLEAR Odor: Y / N STEAM
Approx. Flow Rate: ✓ gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 8.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 1030		PRE 6.76	PRE: 561	PRE: 20.7	PRE: 1.6	PRE: -68
1035	2.5	6.84	557	21.1	1.4	-74
1040	5.0	6.89	563	20.9	1.3	-80
1045	7.0	6.92	571	20.5	1.2	-88

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11B	4 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: 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: 7.20.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-11S Date Monitored: 7.20.16
Well Diameter 2 in.
Total Depth 10.16 ft.
Depth to Water 5.75 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: 9.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.63

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): 0830 Weather Conditions: Sunny
Sample Time/Date: 1100 / 7.20.16 Water Color: CLEAR Odor: Y / N MODERATE
Approx. Flow Rate: / gpm. Sediment Description: NONE
Did well de-water? YES If yes, Time: 0836 Volume: 3.0 gal. DTW @ Sampling: 6.58

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0830		PRE 6.58	PRE: 496	PRE: 23.1	PRE: 1.7	PRE: -69
0836	3.0	6.62	491	22.7	1.5	-74

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:

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 1

Union Oil Site ID: 1156
Site Global ID: T0600102279
Site Address: 9276 MACARTHUR BLVD OAKLAND, CA
Union Oil PM: NICOLE M. ARCENEAUX
Union Oil PM Phone No.: (925)790-6912
Charge Code: NWRTB-0 351643 -0- LAB

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

Union Oil Consultant: ARCADIS
Consultant Contact: TAMEIA RODGERS
Consultant Phone No.: (408) 297-2013
Sampling Company: CETTER-RYAN INC
Sampled By (PRINT): GILBERT MEDINA
Sampler Signature:

BC Laboratories, Inc.
Project Manager: Molly Meyers
4100 Atlas Court, Bakersfield, CA 93308
Phone No. 661-327-4911

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

Special Instructions: LAB TO FILTER DISSOLVED MANGANESE SAMPLES

SAMPLE ID						ANALYSES REQUIRED											
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015 M w/SGC	TPH - G by (8015M)	OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	BTEX (8021) MTBE (8260B)	OIL & GREASE (1664)	FERROUS IRON SM3500	METHANE (RSK-175)	NITRATE/SULFATE EPA 300.0 DISSOLVED MANGANESE (200.7)		Notes / Comments
QA	W-S-A		160720	—	2		X				X						
MW-3B	W-S-A			0935	12	X		X					X	X	X		
MW-9A	W-S-A			1020													
MW-10A	W-S-A			0930													
MW-10B	W-S-A			0940	↓												
MW-10S	W-S-A			1100	13							X			X		
MW-11A	W-S-A			1015	12												
MW-11B	W-S-A			1200	↓												
MW-11S	W-S-A		↓	1100	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	7/20/16 1500						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
Rory Bogan	BCLab	7-20-16 1500						

ATTACHMENT B

[Historical Groundwater Gauging and Analytical Data]

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 THICKNESS (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	1/20/2016	174.06	5.86	0	168.20	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-2B	1/20/2016	173.55	4.91	0	168.64	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-3B	1/20/2016	177.77	5.18	0	172.59	--	240	4,700	160	52	230	80	
MW-4B	1/20/2016	179.07	5.14	0	173.93	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-5	1/20/2016	169.18	1.42	0	167.76	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-7	1/20/2016	172.11	6.48	0	165.63	--	ND<40	130	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-9A	1/20/2016	173.01	8.47	0	164.54	--	360	7,700	2,400	17	53	14	
MW-9B	1/20/2016	172.78	4.72	0	168.06	--	ND<40	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	
MW-10A	1/20/2016	174.48	8.63	0	165.85	--	990	30,000	9,100	200	960	1,000	
MW-10B	1/20/2016	174.62	6.43	0	168.19	--	300	7,800	1,600	60	240	270	
MW-10S	1/20/2016	175.57	6.13	0	169.44	ND<5,000.0	ND<40	200	5.6	ND<0.30	15	ND<0.60	
MW-11A	1/20/2016	175.37	4.28	0	171.09	--	930	68,000	10,000	5,500	1,500	11,000	
MW-11B	1/20/2016	174.65	7.71	0	166.94	--	780	35,000	9,400	1,600	880	2,300	
MW-11S	1/20/2016	176.09	3.23	0	172.86	--	ND<40	270	2.6	0.47	1.4	0.86	
QA	1/20/2016	--	--	--	--	--	--	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	

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	1/20/2016	14	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2B	1/20/2016	3.8	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3B	1/20/2016	8.9	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-4B	1/20/2016	1.7	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-5	1/20/2016	2.2	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	1/20/2016	120	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-9A	1/20/2016	16	1,300	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-9B	1/20/2016	4.1	ND<10	ND<250	ND<0.50	1.1	ND<0.50	ND<0.50	ND<0.50
MW-10A	1/20/2016	320	ND<50	ND<1,200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-10B	1/20/2016	51	ND<10	ND<250	ND<0.50	36	ND<0.50	ND<0.50	ND<0.50
MW-10S	1/20/2016	4.4	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-11A	1/20/2016	2,400	ND<500	ND<12,000	ND<25	ND<25	ND<25	ND<25	ND<25
MW-11B	1/20/2016	1,900	ND<250	ND<6,200	ND<12	ND<12	ND<12	ND<12	ND<12
MW-11S	1/20/2016	2.5	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
QA	1/20/2016	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	1/20/2016	3.0	ND<0.44	4.9	1,400	3,200
MW-9A	1/20/2016	1.3	ND<0.44	ND<1.0	21,000	1,000
MW-10A	1/20/2016	1.2	ND<0.44	ND<1.0	5,100	1,000
MW-10B	1/20/2016	0.86	ND<0.44	ND<1.0	7,800	5,100
MW-10S	1/20/2016	0.0018	ND<0.44	33	200	1,400
MW-11A	1/20/2016	5.2	ND<0.44	ND<1.0	5,500	3,400
MW-11B	1/20/2016	1.5	ND<0.44	ND<1.0	5,500	1,400
MW-11S	1/20/2016	0.0014	ND<0.44	28	440	330

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 THICKNESS (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	
	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	

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 THICKNESS (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
	4/6/2012	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
	1/20/2016	**174.06**	**5.86**	**0**	**168.20**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
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
	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	

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 THICKNESS (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
	8/2/2010	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
	1/20/2016	**173.55**	**4.91**	**0**	**168.64**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
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	
	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	

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 THICKNESS (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
	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	
	1/20/2016	**177.77**	**5.18**	**0**	**172.59**	**--**	**240**	**4,700**	**--**	**160**	**52**	**230**	**80**	
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	
	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	

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 THICKNESS (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
	7/8/2005	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
	1/20/2016	**179.07**	**5.14**	**0**	**173.93**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
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	

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4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL THICKNESS (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
	7/8/2005	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	
	7/21/2015	169.18	2.58	0	166.60	--	--	--	--	--	--	--	--	Sampled Q1 only
	1/20/2016	**169.18**	**1.42**	**0**	**167.76**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
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	

Table 5
Historical Groundwater Monitoring Data and Analytical Results
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4276 MacArthur Boulevard
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WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL THICKNESS (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
	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	
	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	

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4276 MacArthur Boulevard
Oakland, California

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL THICKNESS (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
	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
	1/20/2016	**172.11**	**6.48**	**0**	**165.63**	**--**	**ND<40**	**130**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
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
	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	
	1/20/2016	**173.01**	**8.47**	**0**	**164.54**	**--**	**360**	**7,700**	**--**	**2,400**	**17**	**53**	**14**	
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
	1/20/2016	**172.78**	**4.72**	**0**	**168.06**	**--**	**ND<40**	**ND<50**	**--**	**ND<0.30**	**ND<0.30**	**ND<0.30**	**ND<0.60**	
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	
	1/20/2016	**174.48**	**8.63**	**0**	**165.85**	**--**	**990**	**30,000**	**--**	**9,100**	**200**	**960**	**1,000**	
MW-10B	7/10/2013	174.62	7.65	0	166.97	--	170	4,100	--	1,100	34	130	140	

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WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL THICKNESS (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
	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	
	1/20/2016	**174.62**	**6.43**	**0**	**168.19**	**--**	**300**	**7,800**	**--**	**1,600**	**60**	**240**	**270**	
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	
	1/20/2016	**175.57**	**6.13**	**0**	**169.44**	**ND<5,000.0**	**ND<40**	**200**	**--**	**5.6**	**ND<0.30**	**15**	**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	
	1/20/2016	**175.37**	**4.28**	**0**	**171.09**	**--**	**930**	**68,000**	**--**	**10,000**	**5,500**	**1,500**	**11,000**	
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	
	1/20/2016	**174.65**	**7.71**	**0**	**166.94**	**--**	**780**	**35,000**	**--**	**9,400**	**1,600**	**880**	**2,300**	
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	
	1/20/2016	**176.09**	**3.23**	**0**	**172.86**	**--**	**ND<40**	**270**	**--**	**2.6**	**0.47**	**1.4**	**0.86**	

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 = Analyzed by gas chromatography/mass spectrometery method
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
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
	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

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)
	4/13/2007	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	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**14**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-2	7/20/1999	4,500	11,000	--	--	--	--	--	--	--	--	--
	9/28/1999	5,280	6,150	ND	--	--	--	--	--	ND	ND	ND

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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)
	1/7/2000	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
	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

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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)
	1/9/2008	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	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**3.8**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
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	--	--	--	--	--	--	--	--	--	--

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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)
	10/3/2000	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
	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

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)
	10/3/2008	--	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
	1/20/2016	**--**	**8.9**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
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

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)
	7/17/2001	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
	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

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)
	7/23/2009	--	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	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**1.7**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
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

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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)
	7/12/2004	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
	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

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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)
	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	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**2.2**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
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
	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

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)
	1/9/2008	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
	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

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)
	1/10/2007	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	--	--	--
	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	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**120**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
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

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)
	10/3/2008	--	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
	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
	1/20/2016	**--**	**16**	**1,300**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
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	--	--	--	--	--	--	--	--	--	--	--
	1/20/2016	**--**	**4.1**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**1.1**	**ND<0.50**	**ND<0.50**	**ND<0.50**
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
	1/20/2016	**--**	**320**	**ND<50**	**ND<1,200**	**--**	**ND<2.5**	**--**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**
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

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)
	1/27/2015	--	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
	1/20/2016	**--**	**51**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**36**	**ND<0.50**	**ND<0.50**	**ND<0.50**
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
	1/20/2016	**--**	**4.4**	**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
	1/20/2016	**--**	**2,400**	**ND<500**	**ND<12,000**	**--**	**ND<25**	**--**	**ND<25**	**ND<25**	**ND<25**	**ND<25**
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
	1/20/2016	**--**	**1,900**	**ND<250**	**ND<6,200**	**--**	**ND<12**	**--**	**ND<12**	**ND<12**	**ND<12**	**ND<12**
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
	1/20/2016	**--**	**2.5**	**ND<10**	**ND<250**	**--**	**ND<0.50**	**--**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**

Table 6
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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)

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
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
	1/20/2016	**3.0**	**ND<0.44**	**4.9**	**1,400**	**3,200**
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
	1/20/2016	**1.3**	**ND<0.44**	**ND<1.0**	**21,000**	**1,000**
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
	1/20/2016	**1.2**	**ND<0.44**	**ND<1.0**	**5,100**	**1,000**
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
	1/20/2016	**0.86**	**ND<0.44**	**ND<1.0**	**7,800**	**5,100**
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
	1/20/2016	**0.0018**	**ND<0.44**	**33**	**200**	**1,400**
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
	1/20/2016	**5.2**	**ND<0.44**	**ND<1.0**	**5,500**	**3,400**

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-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
	1/20/2016	**1.5**	**ND<0.44**	**ND<1.0**	**5,500**	**1,400**
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
	1/20/2016	**0.0014**	**ND<0.44**	**28**	**440**	**330**

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
	1/20/2016	**2.2**	**1.8**	**125**	**140**
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
	1/20/2016	**1.9**	**1.6**	**70**	**86**
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

ATTACHMENT C

[Laboratory Report and Chain-of-Custody Documentation]

Date of Report: 10/18/2016

Tamera Rogers

Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Client Project:	351645
BCL Project:	1156
BCL Work Order:	1619986
Invoice ID:	B242890

Enclosed are the results of analyses for samples received by the laboratory on 7/20/2016. 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

Table of Contents

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: 156	Union Oil Consultant: ARCADIS
Site Global ID: T0600102279	Consultant Contact: TAMELA RODGERS
Site Address: 4276 MACARTUR BLVD OAKLAND, CA	Consultant Phone No.: (408) 297-2012
	Sampling Company: GETTER-RYAN INC
Union Oil PM: NICOLE M. ARCENEAUX	Sampled By (PRINT): GILBERT MEDINA
Union Oil PM Phone No.: (925) 790-6912	Sampler Signature: [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. 16-19986

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

Special Instructions: LAB TO FILTER DISSOLVED MANGANESE SAMPLES

ANALYSES REQUIRED

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015M w/SGC	TPH - G by 8015M	OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	BTEX (8021) / MTBE (8260B)	OIL & GREASE (1664)	FERROUS IRON (SM20 3500 Fe B)	METHANE (RSK-175)	NITRATE/SULFATE EPA 300.0	DISSOLVED MANGANESE (200.7)	Notes / Comments
-1 QA	W-S-A (circled)		160720	—	2		X				X						
-2 MW-3B	W-S-A		↓	0935	12	X	↓	X			↓		X	X	X		
-3 MW-9A	W-S-A		↓	1020	↓	↓	↓	↓			↓		↓	↓	↓		
-4 MW-10A	W-S-A		↓	0930	↓	↓	↓	↓			↓		↓	↓	↓		
-5 MW-10B	W-S-A		↓	0840	↓	↓	↓	↓			↓		↓	↓	↓		
-6 MW-10S	W-S-A		↓	1100	13	↓	↓	↓			↓	X	↓	↓	X		
-7 MW-11A	W-S-A		↓	1015	12	↓	↓	↓			↓		↓	↓	↓		
-8 MW-11B	W-S-A		↓	1200	↓	↓	↓	↓			↓		↓	↓	↓		
-9 MW-11S	W-S-A		↓	1100	13	↓	↓	↓			↓	X	↓	↓	X		
	W-S-A																
	W-S-A																
	W-S-A																

SHORT HOLDING TIME: Cr+6, NO2, NO3 (circled), 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	7/20/16 1500	Gary Bogan	BCLab	7-20-16 1830	[signature]	BCLAB	7/20/16 2215
Received By	**Company**	**Date / Time**	**Received By**	**Company**	**Date / Time**	**Received By**	**Company**	**Date / Time**
Gary Bogan	BCLab	7-20-16 1500	[signature]	BCLAB	7/20/16 18:30	[signature]	BCLAB	7.20.16 2215

Chain of Custody and Cooler Receipt Form for 1619986 Page 2 of 3

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

Submission #: 1619986

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 ☐
(W) / S

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 7.20 2225

Temperature: (A) 0.0 °C / (C) 0.0 °C Analyst Init ARL

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz (16oz) PE UNPRES			I	I	I	I				
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										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	AB									
40ml VOA VIAL			A·F K	A·F K	A·F K	A·F K				
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK			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 EPA 548										
QT EPA 549										
QT EPA 8015M			LM	LM	LM	LM				
QT EPA 8270										
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: 7.20.16 0920
A = Actual / C = Corrected

Rev 21 05/23/2016
(S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20)

Chain of Custody and Cooler Receipt Form for 1619986 Page 3 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 16-19986

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	(W) / S

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: PE Thermometer ID: 208 Date/Time 7.20 2225

Temperature: (A) 2.5 °C / (C) 2.6 °C Analyst Init ARL

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	F	1					F	F	F	
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										
40ml VOA VIAL	A-F						A-F	A-F	A-F	
QT EPA 1664									IC	
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK	GM						GM	GM	GM	
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 EPA 548										
QT EPA 549										
QT EPA 8015M	KL						KL	KL	LM	
QT EPA 8270										
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: M Date/Time: 7.21.16 0024

A = Actual / C = Corrected

Rev 21 05/23/2016

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]

Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1619986-01	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 00:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	QA-W-160720	**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:
1619986-02	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 09:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3B-W-160720	**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:
1619986-03	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 10:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9A-W-160720	**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:

Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1619986-04	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 09:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10A-W-160720	**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:		
1619986-05	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 08:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10B-W-160720	**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:		
1619986-06	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 11:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10S-W-160720	**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:		

Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1619986-07	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 10:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11A-W-160720	**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:		
1619986-08	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 12:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11B-W-160720	**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:		
1619986-09	**COC Number:**	---	**Receive Date:** 07/20/2016 22:15
	Project Number:	1156	**Sampling Date:** 07/20/2016 11:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11S-W-160720	**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:		

Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-01 | **Client Sample Name:** 1156, QA-W-160720, 7/20/2016 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	89.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 13:57	IO1	MS-V12	1	BZG1534

Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-01 | **Client Sample Name:** 1156, QA-W-160720, 7/20/2016 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.30		EPA-8020	ND		1
Toluene	ND	ug/L	0.30		EPA-8020	ND		1
Ethylbenzene	ND	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)	92.8	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	93.7	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/16	07/27/16 16:20	AKM	GC-V9	1	BZG1951
2	EPA-8015B	07/27/16	07/27/16 16:20	AKM	GC-V9	1	BZG1951

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-02 | **Client Sample Name:** 1156, MW-3B-W-160720, 7/20/2016 9:35:00AM

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	**13**	**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)	110	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	91.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 17:10	IO1	MS-V12	10	BZG1534

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Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-02 | **Client Sample Name:** 1156, MW-3B-W-160720, 7/20/2016 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**220**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Toluene	**120**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Ethylbenzene	**660**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Total Xylenes	**190**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	1
Gasoline Range Organics (C4 - C12)	**3900**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	2
a,a,a-Trifluorotoluene (PID Surrogate)	92.1	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	92.0	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/16	07/27/16 17:01	AKM	GC-V9	10	BZG1951
2	EPA-8015B	07/27/16	07/27/16 17:01	AKM	GC-V9	10	BZG1951

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Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1619986-02 | **Client Sample Name:** 1156, MW-3B-W-160720, 7/20/2016 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**2100**	**ug/L**	**200**		**EPA-8015B/TPHd**	ND	**A01,A52**	1
Tetracosane (Surrogate)	69.0	%	40 - 140 (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	07/27/16	08/03/16 12:08	RSM	GC-5	5	BZH0232

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Gas Testing in Water

BCL Sample ID: 1619986-02 | **Client Sample Name:** 1156, MW-3B-W-160720, 7/20/2016 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**4.8**	**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	08/02/16	08/02/16 09:27	JH2	GC-V1	10	BZH0146

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

BCL Sample ID: 1619986-02 | **Client Sample Name:** 1156, MW-3B-W-160720, 7/20/2016 9:35:00AM

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	**7300**	**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	07/21/16	07/21/16 21:27	JSW	IC2	1	BZG1862
2	SM-3500-FeD	07/26/16	07/26/16 14:31	RCC	KONE-1	10	BZG1521

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Metals Analysis

BCL Sample ID: 1619986-02 | **Client Sample Name:** 1156, MW-3B-W-160720, 7/20/2016 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**3600**	**ug/L**	**2.0**		**EPA-200.8**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	07/29/16	07/29/16 19:07	GPD	PE-EL2	2	BZG2676

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-03 | **Client Sample Name:** 1156, MW-9A-W-160720, 7/20/2016 10:20:00AM

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	**58**	**ug/L**	**5.0**		**EPA-8260B**	ND	**A01**	1
Methyl t-butyl ether	**57**	**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	**1900**	**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)	95.5	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	92.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 17:27	IO1	MS-V12	10	BZG1749

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-03 | **Client Sample Name:** 1156, MW-9A-W-160720, 7/20/2016 10:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**1800**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	1
Toluene	**20**	**ug/L**	**1.5**		**EPA-8020**	ND	**A01**	2
Ethylbenzene	**64**	**ug/L**	**1.5**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**22**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**5600**	**ug/L**	**250**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	98.5	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	93.1	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	95.2	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	08/03/16	08/03/16 12:22	AKM	GC-V9	50	BZG1951
2	EPA-8020	07/27/16	07/28/16 01:14	AKM	GC-V9	5	BZG1951
3	EPA-8015B	07/27/16	07/28/16 01:14	AKM	GC-V9	5	BZG1951

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Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1619986-03 | **Client Sample Name:** 1156, MW-9A-W-160720, 7/20/2016 10:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**560**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	40.1	%	40 - 140 (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	07/27/16	08/03/16 10:03	RSM	GC-5	1	BZH0232

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Gas Testing in Water

BCL Sample ID: 1619986-03 | **Client Sample Name:** 1156, MW-9A-W-160720, 7/20/2016 10:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.79**	**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	08/02/16	08/02/16 09:32	JH2	GC-V1	10	BZH0146

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

BCL Sample ID: 1619986-03 | **Client Sample Name:** 1156, MW-9A-W-160720, 7/20/2016 10:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.88		EPA-300.0	ND	A07	1
Sulfate	ND	mg/L	2.0		EPA-300.0	ND	A07	1
Iron (II) Species	**11000**	**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	07/21/16	07/21/16 21:46	JSW	IC2	2	BZG1862
2	SM-3500-FeD	07/26/16	07/26/16 14:31	RCC	KONE-1	10	BZG1521

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Metals Analysis

BCL Sample ID: 1619986-03 | **Client Sample Name:** 1156, MW-9A-W-160720, 7/20/2016 10:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**880**	**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	07/29/16	07/29/16 19:30	GPD	PE-EL2	1	BZG2676

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-04 | **Client Sample Name:** 1156, MW-10A-W-160720, 7/20/2016 9:30:00AM

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	**180**	**ug/L**	**5.0**		**EPA-8260B**	ND	**A01**	1
Methyl t-butyl ether	**440**	**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)	84.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	95.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	87.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 17:45	IO1	MS-V12	10	BZG1749

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-04 | **Client Sample Name:** 1156, MW-10A-W-160720, 7/20/2016 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**11000**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Toluene	**180**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	2
Ethylbenzene	**960**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**900**	**ug/L**	**30**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**22000**	**ug/L**	**2500**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	90.4	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	90.5	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	92.6	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/16	07/27/16 23:52	AKM	GC-V9	200	BZG1951
2	EPA-8020	07/27/16	07/27/16 18:44	AKM	GC-V9	50	BZG1951
3	EPA-8015B	07/27/16	07/27/16 18:44	AKM	GC-V9	50	BZG1951

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1619986-04 | **Client Sample Name:** 1156, MW-10A-W-160720, 7/20/2016 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**3700**	**ug/L**	**400**		**EPA-8015B/TPHd**	ND	**A01,A52**	1
Tetracosane (Surrogate)	54.2	%	40 - 140 (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	07/27/16	08/03/16 12:22	RSM	GC-5	10	BZH0232

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Gas Testing in Water

BCL Sample ID: 1619986-04 | **Client Sample Name:** 1156, MW-10A-W-160720, 7/20/2016 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.62**	**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	08/02/16	08/02/16 09:36	JH2	GC-V1	10	BZH0146

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

BCL Sample ID: 1619986-04 | **Client Sample Name:** 1156, MW-10A-W-160720, 7/20/2016 9:30:00AM

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	**5600**	**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	07/21/16	07/22/16 08:56	OLH	IC2	1	BZG1862
2	SM-3500-FeD	07/26/16	07/26/16 14:31	RCC	KONE-1	10	BZG1521

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Project: 1156
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Project Manager: Tamera Rogers

Metals Analysis

BCL Sample ID: 1619986-04 | **Client Sample Name:** 1156, MW-10A-W-160720, 7/20/2016 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**950**	**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	07/29/16	07/29/16 19:33	GPD	PE-EL2	1	BZG2676

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-05 | **Client Sample Name:** 1156, MW-10B-W-160720, 7/20/2016 8:40:00AM

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	**58**	**ug/L**	**5.0**		**EPA-8260B**	ND	**A01**	1
Methyl t-butyl ether	**92**	**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	**730**	**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)	94.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	88.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 18:03	IO1	MS-V12	10	BZG1749

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-05 | **Client Sample Name:** 1156, MW-10B-W-160720, 7/20/2016 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**2200**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	1
Toluene	**81**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	2
Ethylbenzene	**410**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**430**	**ug/L**	**12**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**8000**	**ug/L**	**1000**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	92.3	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	90.6	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	91.5	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/16	07/27/16 18:23	AKM	GC-V9	50	BZG1951
2	EPA-8020	07/27/16	07/27/16 18:03	AKM	GC-V9	20	BZG1951
3	EPA-8015B	07/27/16	07/27/16 18:03	AKM	GC-V9	20	BZG1951

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1619986-05 | **Client Sample Name:** 1156, MW-10B-W-160720, 7/20/2016 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**1000**	**ug/L**	**200**		**EPA-8015B/TPHd**	ND	**A01,A52**	1
Tetracosane (Surrogate)	49.0	%	40 - 140 (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	07/27/16	08/03/16 12:36	RSM	GC-5	5	BZH0232

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Project Manager: Tamera Rogers

Gas Testing in Water

BCL Sample ID: 1619986-05 | **Client Sample Name:** 1156, MW-10B-W-160720, 7/20/2016 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.38**	**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	08/02/16	08/02/16 09:41	JH2	GC-V1	10	BZH0146

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Water Analysis (General Chemistry)

BCL Sample ID: 1619986-05 | **Client Sample Name:** 1156, MW-10B-W-160720, 7/20/2016 8:40:00AM

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	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**32000**	**ug/L**	**2000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/21/16	07/21/16 22:25	JSW	IC2	1	BZG1862
2	SM-3500-FeD	07/26/16	07/26/16 14:50	RCC	KONE-1	20	BZG1521

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Metals Analysis

BCL Sample ID: 1619986-05 | **Client Sample Name:** 1156, MW-10B-W-160720, 7/20/2016 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**4700**	**ug/L**	**5.0**		**EPA-200.8**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	07/29/16	07/29/16 20:03	GPD	PE-EL2	5	BZG2676

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-06 | **Client Sample Name:** 1156, MW-10S-W-160720, 7/20/2016 11:00:00AM

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	**8.2**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
t-Amyl Methyl ether	**1.8**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
t-Butyl alcohol	**91**	**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)	98.1	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	90.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 16:34	IO1	MS-V12	1	BZG1749

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-06 | **Client Sample Name:** 1156, MW-10S-W-160720, 7/20/2016 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**10**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Toluene	**0.35**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Ethylbenzene	**22**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Total Xylenes	ND	ug/L	0.60		EPA-8020	ND		1
Gasoline Range Organics (C4 - C12)	**100**	**ug/L**	**50**		**EPA-8015B**	ND		2
a,a,a-Trifluorotoluene (PID Surrogate)	90.6	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	94.3	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/16	07/27/16 16:41	AKM	GC-V9	1	BZG1951
2	EPA-8015B	07/27/16	07/27/16 16:41	AKM	GC-V9	1	BZG1951

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Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1619986-06 | **Client Sample Name:** 1156, MW-10S-W-160720, 7/20/2016 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**48**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	69.5	%	40 - 140 (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	07/27/16	08/03/16 10:44	RSM	GC-5	1	BZH0232

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EPA Method 1664

BCL Sample ID: 1619986-06 | **Client Sample Name:** 1156, MW-10S-W-160720, 7/20/2016 11:00:00AM

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	07/27/16	07/27/16 11:30	MAM	MAN-SV	1	BZG2549

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Gas Testing in Water

BCL Sample ID: 1619986-06 | **Client Sample Name:** 1156, MW-10S-W-160720, 7/20/2016 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.44**	**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	08/02/16	08/02/16 09:46	JH2	GC-V1	10	BZH0146

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

BCL Sample ID: 1619986-06 | **Client Sample Name:** 1156, MW-10S-W-160720, 7/20/2016 11:00:00AM

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	**34**	**mg/L**	**1.0**		**EPA-300.0**	ND		1
Iron (II) Species	**4500**	**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	07/21/16	07/22/16 09:15	OLH	IC2	1	BZG1862
2	SM-3500-FeD	07/26/16	07/26/16 14:17	RCC	KONE-1	1	BZG1521

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Metals Analysis

BCL Sample ID: 1619986-06 | **Client Sample Name:** 1156, MW-10S-W-160720, 7/20/2016 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**800**	**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	07/29/16	07/29/16 19:42	GPD	PE-EL2	1	BZG2676

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-07 | **Client Sample Name:** 1156, MW-11A-W-160720, 7/20/2016 10:15:00AM

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	**2100**	**ug/L**	**25**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
t-Butyl alcohol	**3000**	**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)	88.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	88.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 18:21	IO1	MS-V12	50	BZG1749

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-07 | **Client Sample Name:** 1156, MW-11A-W-160720, 7/20/2016 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**8500**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Toluene	**3100**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Ethylbenzene	**1300**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Total Xylenes	**7300**	**ug/L**	**120**		**EPA-8020**	ND	**A01**	1
Gasoline Range Organics (C4 - C12)	**49000**	**ug/L**	**10000**		**EPA-8015B**	ND	**A01**	2
a,a,a-Trifluorotoluene (PID Surrogate)	90.3	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	93.7	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/16	07/28/16 00:12	AKM	GC-V9	200	BZG1951
2	EPA-8015B	07/27/16	07/28/16 00:12	AKM	GC-V9	200	BZG1951

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1619986-07 | **Client Sample Name:** 1156, MW-11A-W-160720, 7/20/2016 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**10000**	**ug/L**	**800**		**EPA-8015B/TPHd**	ND	**A01,A52**	1
Tetracosane (Surrogate)	0	%	40 - 140 (LCL - UCL)		EPA-8015B/TPHd		A17	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	07/27/16	08/03/16 12:50	RSM	GC-5	20	BZH0232

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Gas Testing in Water

BCL Sample ID: 1619986-07 | **Client Sample Name:** 1156, MW-11A-W-160720, 7/20/2016 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**2.3**	**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	08/02/16	08/02/16 09:50	JH2	GC-V1	10	BZH0146

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

BCL Sample ID: 1619986-07 | **Client Sample Name:** 1156, MW-11A-W-160720, 7/20/2016 10:15:00AM

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	**12000**	**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	07/21/16	07/21/16 23:03	JSW	IC2	1	BZG1862
2	SM-3500-FeD	07/26/16	07/26/16 14:31	RCC	KONE-1	10	BZG1521

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Metals Analysis

BCL Sample ID: 1619986-07 | **Client Sample Name:** 1156, MW-11A-W-160720, 7/20/2016 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**3500**	**ug/L**	**2.0**		**EPA-200.8**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	07/29/16	07/29/16 19:59	GPD	PE-EL2	2	BZG2676

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-08 | **Client Sample Name:** 1156, MW-11B-W-160720, 7/20/2016 12:00:00PM

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	**1800**	**ug/L**	**25**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
t-Butyl alcohol	**4400**	**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)	92.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 18:38	IO1	MS-V12	50	BZG1749

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-08 | **Client Sample Name:** 1156, MW-11B-W-160720, 7/20/2016 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**9500**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Toluene	**1300**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Ethylbenzene	**1000**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Total Xylenes	**2100**	**ug/L**	**120**		**EPA-8020**	ND	**A01**	1
Gasoline Range Organics (C4 - C12)	**29000**	**ug/L**	**10000**		**EPA-8015B**	ND	**A01**	2
a,a,a-Trifluorotoluene (PID Surrogate)	90.2	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	93.1	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/16	07/28/16 00:33	AKM	GC-V9	200	BZG1951
2	EPA-8015B	07/27/16	07/28/16 00:33	AKM	GC-V9	200	BZG1951

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1619986-08 | **Client Sample Name:** 1156, MW-11B-W-160720, 7/20/2016 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**3700**	**ug/L**	**400**		**EPA-8015B/TPHd**	ND	**A01,A52**	1
Tetracosane (Surrogate)	53.8	%	40 - 140 (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	07/27/16	08/03/16 13:33	RSM	GC-5	10	BZH0232

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Gas Testing in Water

BCL Sample ID: 1619986-08 | **Client Sample Name:** 1156, MW-11B-W-160720, 7/20/2016 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.46**	**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	08/02/16	08/02/16 09:54	JH2	GC-V1	10	BZH0146

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Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

BCL Sample ID: 1619986-08 | **Client Sample Name:** 1156, MW-11B-W-160720, 7/20/2016 12:00:00PM

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	**20000**	**ug/L**	**2000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/21/16	07/21/16 23:22	OLH	IC2	1	BZG1862
2	SM-3500-FeD	07/26/16	07/26/16 14:50	RCC	KONE-1	20	BZG1521

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Project Number: 351645
Project Manager: Tamera Rogers

Metals Analysis

BCL Sample ID: 1619986-08 | **Client Sample Name:** 1156, MW-11B-W-160720, 7/20/2016 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1400**	**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	07/29/16	07/29/16 19:48	GPD	PE-EL2	1	BZG2676

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1619986-09 | **Client Sample Name:** 1156, MW-11S-W-160720, 7/20/2016 11:00:00AM

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	**8.7**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
Methyl t-butyl ether	**74**	**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)	90.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	93.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	89.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	07/21/16	07/21/16 16:52	IO1	MS-V12	1	BZG1749

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Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1619986-09 | **Client Sample Name:** 1156, MW-11S-W-160720, 7/20/2016 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**280**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Toluene	**7.7**	**ug/L**	**0.30**		**EPA-8020**	ND		2
Ethylbenzene	**83**	**ug/L**	**0.30**		**EPA-8020**	ND		2
Total Xylenes	**81**	**ug/L**	**0.60**		**EPA-8020**	ND		2
Gasoline Range Organics (C4 - C12)	**1700**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	92.7	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	90.6	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	07/27/16	07/27/16 17:22	AKM	GC-V9	10	BZG1951
2	EPA-8020	08/03/16	08/03/16 13:03	AKM	GC-V9	1	BZG1951
3	EPA-8015B	07/27/16	07/27/16 17:22	AKM	GC-V9	10	BZG1951

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1619986-09 | **Client Sample Name:** 1156, MW-11S-W-160720, 7/20/2016 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**460**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	68.3	%	40 - 140 (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	07/27/16	08/03/16 11:54	RSM	GC-5	1	BZH0232

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Project: 1156
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Project Manager: Tamera Rogers

EPA Method 1664

BCL Sample ID: 1619986-09 | **Client Sample Name:** 1156, MW-11S-W-160720, 7/20/2016 11:00:00AM

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	07/27/16	07/27/16 11:30	MAM	MAN-SV	1	BZG2549

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Gas Testing in Water

BCL Sample ID: 1619986-09 | **Client Sample Name:** 1156, MW-11S-W-160720, 7/20/2016 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.48**	**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	08/02/16	08/02/16 09:58	JH2	GC-V1	10	BZH0146

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Reported: 10/18/2016 11:27
Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

BCL Sample ID: 1619986-09 | **Client Sample Name:** 1156, MW-11S-W-160720, 7/20/2016 11:00:00AM

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	**13000**	**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	07/21/16	07/21/16 23:41	OLH	IC2	1	BZG1862
2	SM-3500-FeD	07/26/16	07/26/16 14:33	RCC	KONE-1	10	BZG1521

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Project: 1156
Project Number: 351645
Project Manager: Tamera Rogers

Metals Analysis

BCL Sample ID: 1619986-09 | **Client Sample Name:** 1156, MW-11S-W-160720, 7/20/2016 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1400**	**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	07/29/16	07/29/16 19:52	GPD	PE-EL2	1	BZG2676

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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: BZG1534						
1,2-Dibromoethane	BZG1534-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BZG1534-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZG1534-BLK1	ND	ug/L	0.50		
t-Amyl Methyl ether	BZG1534-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BZG1534-BLK1	ND	ug/L	10		
Diisopropyl ether	BZG1534-BLK1	ND	ug/L	0.50		
Ethanol	BZG1534-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BZG1534-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	**BZG1534-BLK1**	**94.4**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BZG1534-BLK1**	**95.6**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BZG1534-BLK1**	**88.1**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BZG1749						
1,2-Dibromoethane	BZG1749-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BZG1749-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZG1749-BLK1	ND	ug/L	0.50		
t-Amyl Methyl ether	BZG1749-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BZG1749-BLK1	ND	ug/L	10		
Diisopropyl ether	BZG1749-BLK1	ND	ug/L	0.50		
Ethanol	BZG1749-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BZG1749-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	**BZG1749-BLK1**	**97.8**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BZG1749-BLK1**	**99.2**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BZG1749-BLK1**	**89.3**	%	**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: BZG1534										
1,2-Dichloroethane-d4 (Surrogate)	BZG1534-BS1	LCS	11.150	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	BZG1534-BS1	LCS	10.050	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BZG1534-BS1	LCS	8.6200	10.000	ug/L	86.2		80 - 120		
QC Batch ID: BZG1749										
1,2-Dichloroethane-d4 (Surrogate)	BZG1749-BS1	LCS	10.880	10.000	ug/L	109		75 - 125		
Toluene-d8 (Surrogate)	BZG1749-BS1	LCS	9.5400	10.000	ug/L	95.4		80 - 120		
4-Bromofluorobenzene (Surrogate)	BZG1749-BS1	LCS	8.8600	10.000	ug/L	88.6		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: BZG1534	Used client sample: N										
1,2-Dichloroethane-d4 (Surrogate)	MS	1616196-66	ND	10.340	10.000	ug/L		103		75 - 125	
	MSD	1616196-66	ND	10.550	10.000	ug/L	2.0	106		75 - 125	
Toluene-d8 (Surrogate)	MS	1616196-66	ND	9.6700	10.000	ug/L		96.7		80 - 120	
	MSD	1616196-66	ND	9.6300	10.000	ug/L	0.4	96.3		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1616196-66	ND	8.8300	10.000	ug/L		88.3		80 - 120	
	MSD	1616196-66	ND	9.0100	10.000	ug/L	2.0	90.1		80 - 120	
QC Batch ID: BZG1749	Used client sample: N										
1,2-Dichloroethane-d4 (Surrogate)	MS	1616196-69	ND	10.400	10.000	ug/L		104		75 - 125	
	MSD	1616196-69	ND	10.780	10.000	ug/L	3.6	108		75 - 125	
Toluene-d8 (Surrogate)	MS	1616196-69	ND	9.6100	10.000	ug/L		96.1		80 - 120	
	MSD	1616196-69	ND	9.6200	10.000	ug/L	0.1	96.2		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1616196-69	ND	9.0400	10.000	ug/L		90.4		80 - 120	
	MSD	1616196-69	ND	9.1300	10.000	ug/L	1.0	91.3		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: BZG1951						
Benzene	BZG1951-BLK1	ND	ug/L	0.30		
Toluene	BZG1951-BLK1	ND	ug/L	0.30		
Ethylbenzene	BZG1951-BLK1	ND	ug/L	0.30		
Total Xylenes	BZG1951-BLK1	ND	ug/L	0.60		
Gasoline Range Organics (C4 - C12)	BZG1951-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (PID Surrogate)	**BZG1951-BLK1**	**109**	%	**70 - 130 (LCL - UCL)**		
a,a,a-Trifluorotoluene (FID Surrogate)	**BZG1951-BLK1**	**109**	%	**70 - 130 (LCL - UCL)**		

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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: BZG1951										
Benzene	BZG1951-BS1	LCS	37.972	40.000	ug/L	94.9		85 - 115		
Toluene	BZG1951-BS1	LCS	37.774	40.000	ug/L	94.4		85 - 115		
Ethylbenzene	BZG1951-BS1	LCS	39.034	40.000	ug/L	97.6		85 - 115		
Total Xylenes	BZG1951-BS1	LCS	115.60	120.00	ug/L	96.3		85 - 115		
Gasoline Range Organics (C4 - C12)	BZG1951-BS1	LCS	1006.3	1000.0	ug/L	101		85 - 115		
a,a,a-Trifluorotoluene (PID Surrogate)	BZG1951-BS1	LCS	39.980	40.000	ug/L	100		70 - 130		
a,a,a-Trifluorotoluene (FID Surrogate)	BZG1951-BS1	LCS	39.753	40.000	ug/L	99.4		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: BZG1951	Used client sample: N										
Benzene	MS	1616196-61	ND	38.790	40.000	ug/L		97.0		70 - 130	
	MSD	1616196-61	ND	41.851	40.000	ug/L	7.6	105	20	70 - 130	
Toluene	MS	1616196-61	ND	38.187	40.000	ug/L		95.5		70 - 130	
	MSD	1616196-61	ND	41.577	40.000	ug/L	8.5	104	20	70 - 130	
Ethylbenzene	MS	1616196-61	ND	39.098	40.000	ug/L		97.7		70 - 130	
	MSD	1616196-61	ND	42.954	40.000	ug/L	9.4	107	20	70 - 130	
Total Xylenes	MS	1616196-61	ND	115.70	120.00	ug/L		96.4		70 - 130	
	MSD	1616196-61	ND	126.20	120.00	ug/L	8.7	105	20	70 - 130	
Gasoline Range Organics (C4 - C12)	MS	1616196-61	ND	889.03	1000.0	ug/L		88.9		70 - 130	
	MSD	1616196-61	ND	959.54	1000.0	ug/L	7.6	96.0	20	70 - 130	
a,a,a-Trifluorotoluene (PID Surrogate)	MS	1616196-61	ND	41.605	40.000	ug/L		104		70 - 130	
	MSD	1616196-61	ND	40.690	40.000	ug/L	2.2	102		70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1616196-61	ND	42.499	40.000	ug/L		106		70 - 130	
	MSD	1616196-61	ND	40.264	40.000	ug/L	5.4	101		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: BZH0232						
Diesel Range Organics (C12 - C24)	BZH0232-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	**BZH0232-BLK1**	**56.1**	%	**40 - 140 (LCL - UCL)**		
Capric acid (Reverse Surrogate)	BZH0232-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: BZH0232										
Diesel Range Organics (C12 - C24)	BZH0232-BS1	LCS	315.13	500.00	ug/L	63.0		20 - 110		
Tetracosane (Surrogate)	BZH0232-BS1	LCS	13.273	20.000	ug/L	66.4		40 - 140		
Capric acid (Reverse Surrogate)	BZH0232-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: BZH0232	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1612122-61	ND	282.41	500.00	ug/L		56.5		20 - 110	
	MSD	1612122-61	ND	345.14	500.00	ug/L	20.0	69.0	30	20 - 110	
Tetracosane (Surrogate)	MS	1612122-61	ND	12.637	20.000	ug/L		63.2		40 - 140	
	MSD	1612122-61	ND	14.308	20.000	ug/L	12.4	71.5		40 - 140	
Capric acid (Reverse Surrogate)	MS	1612122-61	ND	ND	100.00	ug/L		0		0 - 1	
	MSD	1612122-61	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: BZG2549						
Oil and Grease	BZG2549-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: BZG2549										
Oil and Grease	BZG2549-BS1	LCS	39.250	40.500	mg/L	96.9		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: BZG2549	Used client sample: N										
Oil and Grease	DUP	1616196-81	ND	ND		mg/L			18		
	MS	1616196-81	ND	38.250	40.500	mg/L		94.4		78 - 114	
	MSD	1616196-81	ND	37.150	40.500	mg/L	2.9	91.7	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: BZH0146						
Methane	BZH0146-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: BZH0146										
Methane	BZH0146-BS1	LCS	0.011168	0.010843	mg/L	103		80 - 120		
	BZH0146-BSD1	LCSD	0.012759	0.010843	mg/L	118	13.3	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: BZG1521						
Iron (II) Species	BZG1521-BLK1	ND	ug/L	100		
QC Batch ID: BZG1862						
Nitrate as NO3	BZG1862-BLK1	ND	mg/L	0.44		
Sulfate	BZG1862-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: BZG1521										
Iron (II) Species	BZG1521-BS1	LCS	2668.6	2500.0	ug/L	107		90 - 110		
QC Batch ID: BZG1862										
Nitrate as NO3	BZG1862-BS1	LCS	23.019	22.134	mg/L	104		90 - 110		
Sulfate	BZG1862-BS1	LCS	106.05	100.00	mg/L	106		90 - 110		

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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: BZG1521	Used client sample: Y - Description: MW-3B-W-160720, 07/20/2016 09:35										
Iron (II) Species	DUP	1619986-02	7329.6	7231.1		ug/L	1.4		10		
QC Batch ID: BZG1862	Used client sample: Y - Description: MW-3B-W-160720, 07/20/2016 09:35										
Nitrate as NO3	DUP	1619986-02	ND	ND		mg/L			10		
	MS	1619986-02	ND	23.332	22.358	mg/L		104		80 - 120	
	MSD	1619986-02	ND	23.493	22.358	mg/L	0.7	105	10	80 - 120	
Sulfate	DUP	1619986-02	0.29300	ND		mg/L			10		A02
	MS	1619986-02	0.29300	107.11	101.01	mg/L		106		80 - 120	
	MSD	1619986-02	0.29300	107.42	101.01	mg/L	0.3	106	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: BZG2676						
Dissolved Manganese	BZG2676-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: BZG2676										
Dissolved Manganese	BZG2676-BS1	LCS	104.28	100.00	ug/L	104		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: BZG2676	Used client sample: N										
Dissolved Manganese	DUP	1620424-01	3.6120	3.6570		ug/L	1.2		20		
	MS	1620424-01	3.6120	91.495	102.04	ug/L		86.1		70 - 130	
	MSD	1620424-01	3.6120	91.798	102.04	ug/L	0.3	86.4	20	70 - 130	

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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.
A02	The difference between duplicate readings is less than the quantitation limit.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
A17	Surrogate not reportable due to sample dilution.
A52	Chromatogram not typical of diesel.