Nicole M. Arceneaux
Project Manager
Marketing Business Unit

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

April 11, 2016

RECEIVED
By Alameda County Environmental Health 3:18 pm, Apr 12, 2016

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

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

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

I have reviewed the attached report dated April 11, 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 AECOM, upon whose assistance and advice I have relied.

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

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

Sincerely,

Nicole Arceneaux
Project Manager

Attachment: *First Quarter 2016 Semiannual Groundwater Monitoring and Sampling Report*

AECOM
1220 Avenida Acaso
Camarillo, California 93012

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

April 12, 2016

Dilan Roe
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577
(via internet upload)

Subject: First Quarter 2016 Semiannual Groundwater Monitoring and Sampling Report
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard, Oakland, California
Fuel Leak Case No. RO0000409 and GeoTracker Global ID T0600102279

Dear Ms. Roe,

On behalf of Chevron Environmental Management Company's (EMC's) affiliate, Union Oil Company of California ("Union Oil"), AECOM is pleased to submit this first quarter 2016 semiannual groundwater monitoring and sampling report for the above-referenced site.

Future Work

The next groundwater monitoring event is scheduled to be conducted during the third quarter of 2016.

Remarks/Signatures

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

If you have any questions regarding this project, please contact Chad Roper, AECOM project manager, at (805) 764-4027 or Chad.Roper@aecom.com.

Sincerely,

Chad Roper, PhD
Project Manager

Dana Files, PG No. 8410
Project Geologist
Stamped

4/12/16

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

Enclosures:

Attachment A - Groundwater Summary
Attachment B - Figures
Attachment C - Tables
Attachment D - Groundwater Sampling/Purge Logs
Attachment E - Laboratory Analytical Report and Chain-of-Custody Documentation
Attachment F - Adjacent Site Monitoring Data – Former Shell Service Station No. 13-5701, 4255 MacArthur Boulevard, Oakland, California

ATTACHMENT A

GROUNDWATER SUMMARY

GROUNDWATER MONITORING SUMMARY REPORT
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard, Oakland, California

CURRENT FIELD ACTIVITIES

Groundwater monitoring frequency:	Semiannual
Activity date:	1/20/2016
Purging method:	Disposable bailer/stack pump
Purging subcontractor:	Gettler-Ryan Inc. (G-R)
Transporter/disposal facility:	G-R/Clean Harbors Environmental Services
Number of groundwater wells total:	14
Number of groundwater wells off-site:	2
Number of wells sampled this period:	14
Number of wells with LNAPL:	None
Cumulative LNAPL recovered to date (gallons):	None
LNAPL recovered this period (gallons):	None

SITE HYDROLOGY

Groundwater elevation range (of wells gauged) (this period):	164.54 to 173.93 feet above mean sea level
Approximate groundwater flow direction (this period):	West-southwest
Approximate hydraulic gradient (this period):	0.08 feet per foot

GROUNDWATER CONDITIONS

Maximum detected TPH-GRO concentration (this period):	68,000 µg/L (MW-11A)
Historical maximum detected TPH-GRO concentration:	120,000 µg/L (MW-1) on 7/20/1999
Maximum detected benzene concentration (this period):	10,000 µg/L (MW-11A)
Historical maximum detected benzene concentration:	11,000 µg/L (MW-1) on 7/20/1999 and (MW-11A) on 7/21/2015
Maximum detected MTBE concentration (this period):	2,400 µg/L (MW-11A)
Historical maximum detected MTBE concentration:	56,000 µg/L (MW-2) on 7/17/2001 via EPA Method 8260B
Maximum detected TBA concentration (this period):	1,300 µg/L (MW-9A)
Historical maximum detected TBA concentration:	33,000 µg/L (MW-7) on 7/18/2002

GROUNDWATER TRENDS AND OBSERVATIONS

- Groundwater flow direction remains west-southwest.
- TPH-GRO concentrations were detected in groundwater samples collected from nine wells sampled during this period. The highest concentration was 68,000 µg/L (well MW-11A).
- Benzene concentrations were detected in groundwater samples collected from eight wells sampled during this period. The highest concentration was 10,000 µg/L (well MW-11A).
- MTBE concentrations were detected in groundwater samples collected from 14 wells sampled during this period. The highest concentration was 2,400 µg/L (well MW-11A).

- A TBA concentration was detected in the groundwater sample collected from one well sampled during this period with a concentration of 1,300 µg/L (well MW-9A).

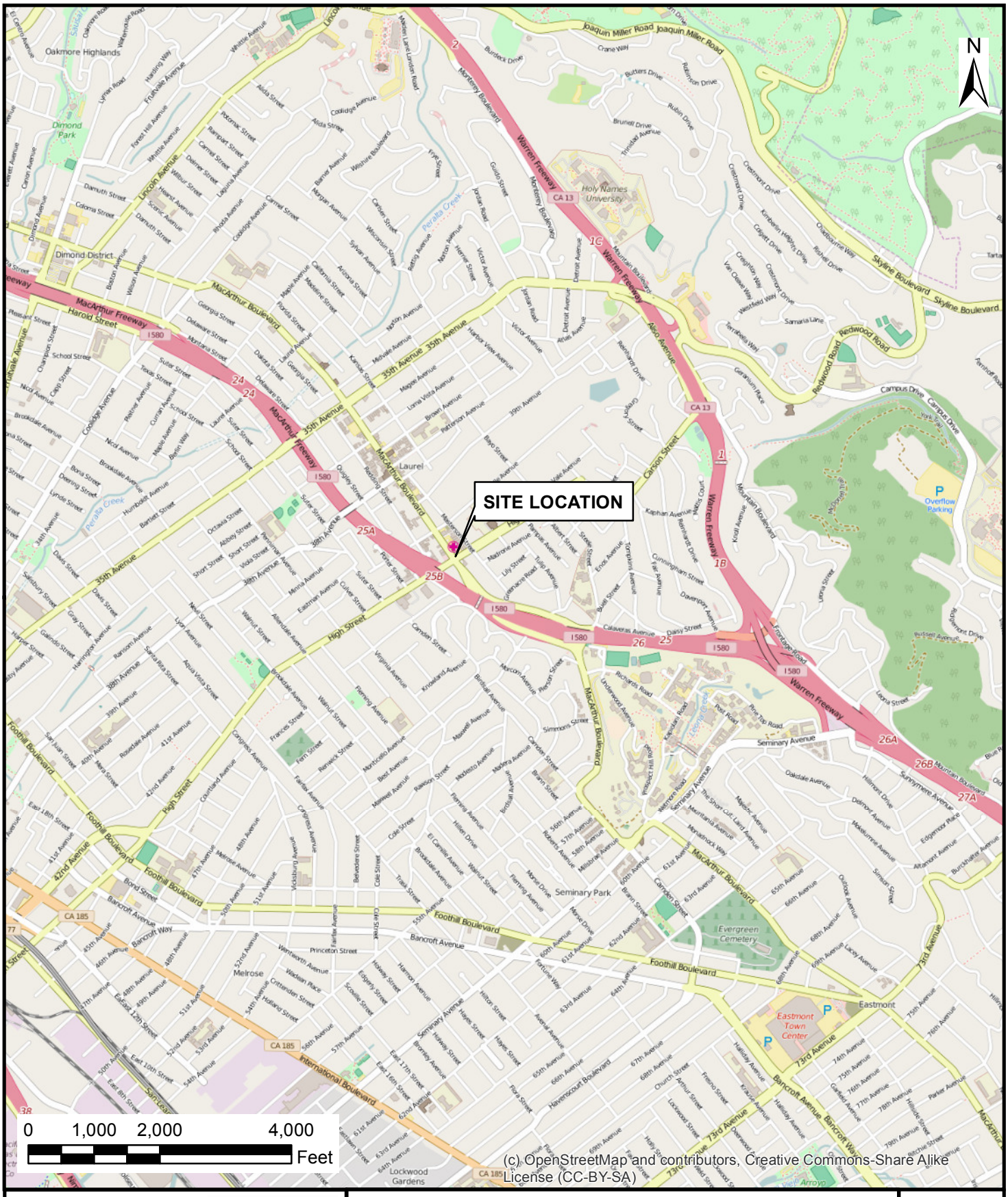
RECOMMENDATIONS AND PROPOSED FUTURE WORK

- G-R will continue semiannual groundwater monitoring.

- AECOM will continue semiannual groundwater reporting.

ATTACHMENT B

FIGURES



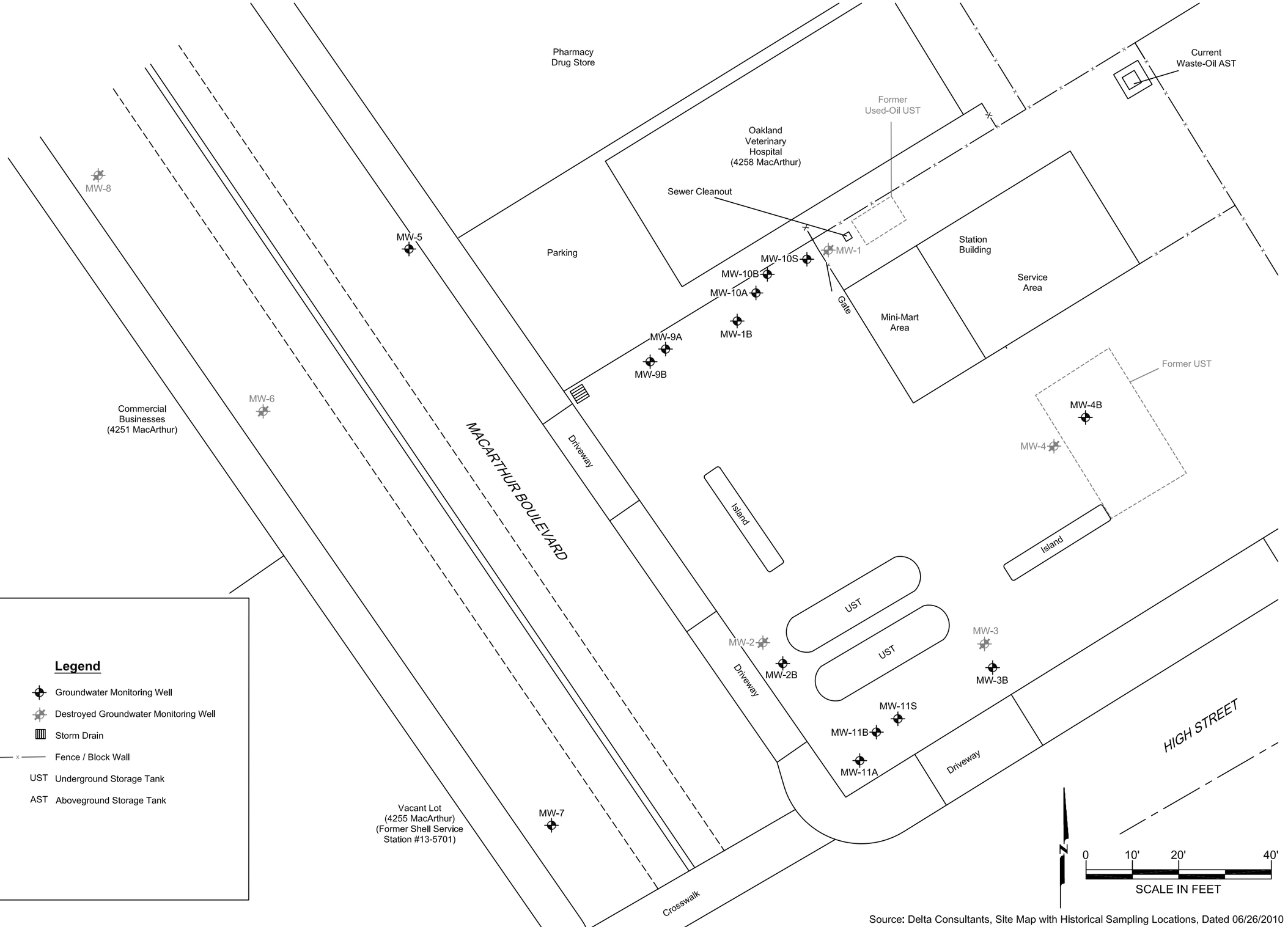
AECOM
1220 AVENIDA ACASO
CAMARILLO, CALIFORNIA 93012
PHONE: 805.388.3775
FAX: 805.388.3577
WEB: HTTP://WWW.AECOM.COM

SITE LOCATION MAP

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

FIGURE NUMBER:
1

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
M. Scop	03/10/2016	60490608	1 of 1



Legend

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

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

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

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

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

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

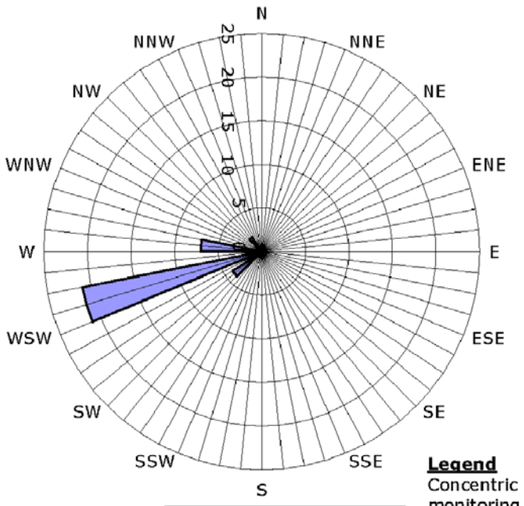
PROJECT NUMBER:	60490608
DATE:	03/10/2016
SCALE:	1" = 20'

FIGURE NUMBER:
2

SHEET NUMBER:
1 of 1

FILENAME: J:\Client--Projects\76_Products\351645--Oakland_4276_MacArthur_Blvd\7.0_Deliverables\7.2_CADD--Graphics_Groundwater Monitoring\2016 1351645 1Q16.dwg

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



Legend
Concentric circles represent monitoring events 2004 through 2016.
34 data points shown.

Pharmacy Drug Store
Oakland Veterinary Hospital (4258 MacArthur)
Parking
Commercial Businesses (4251 MacArthur)
Vacant Lot (4255 MacArthur) (Former Shell Service Station #13-5701)
Current Waste-Oil AST
Former Used-Oil UST
Sewer Cleanout
Station Building
Service Area
Mini-Mart Area
Gate
Former UST
Island
Driveway
Crosswalk
UST
MACARTHUR BOULEVARD
HIGH STREET

169.00
171.00
173.00
167.00

MW-1
MW-2
MW-2B (168.64)
MW-3
MW-3B (172.59)
MW-4
MW-4B (173.93)
MW-5 (167.76)
MW-6
MW-7 (165.63)
MW-9A (164.54*)
MW-9B (168.06)
MW-10A (165.85*)
MW-10B (168.19)
MW-10S (169.44)
MW-11A (171.09)
MW-11B (166.94*)
MW-11S (172.86)
MW-1B (168.20)

0 10' 20' 40'
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

Legend

- Groundwater Monitoring Well
- Destroyed Groundwater Monitoring Well
- Storm Drain
- Fence / Block Wall
- UST Underground Storage Tank
- AST Aboveground Storage Tank
- (#) Groundwater Elevation in Feet Above Mean Sea Level
- 167.00 Contour of Groundwater Elevation in Feet Above Mean Sea Level (Dashed Where Inferred)
- Groundwater Flow Direction
- Hydraulic Gradient = 0.08 Feet per Foot
- * Not Used For Contouring

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

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

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

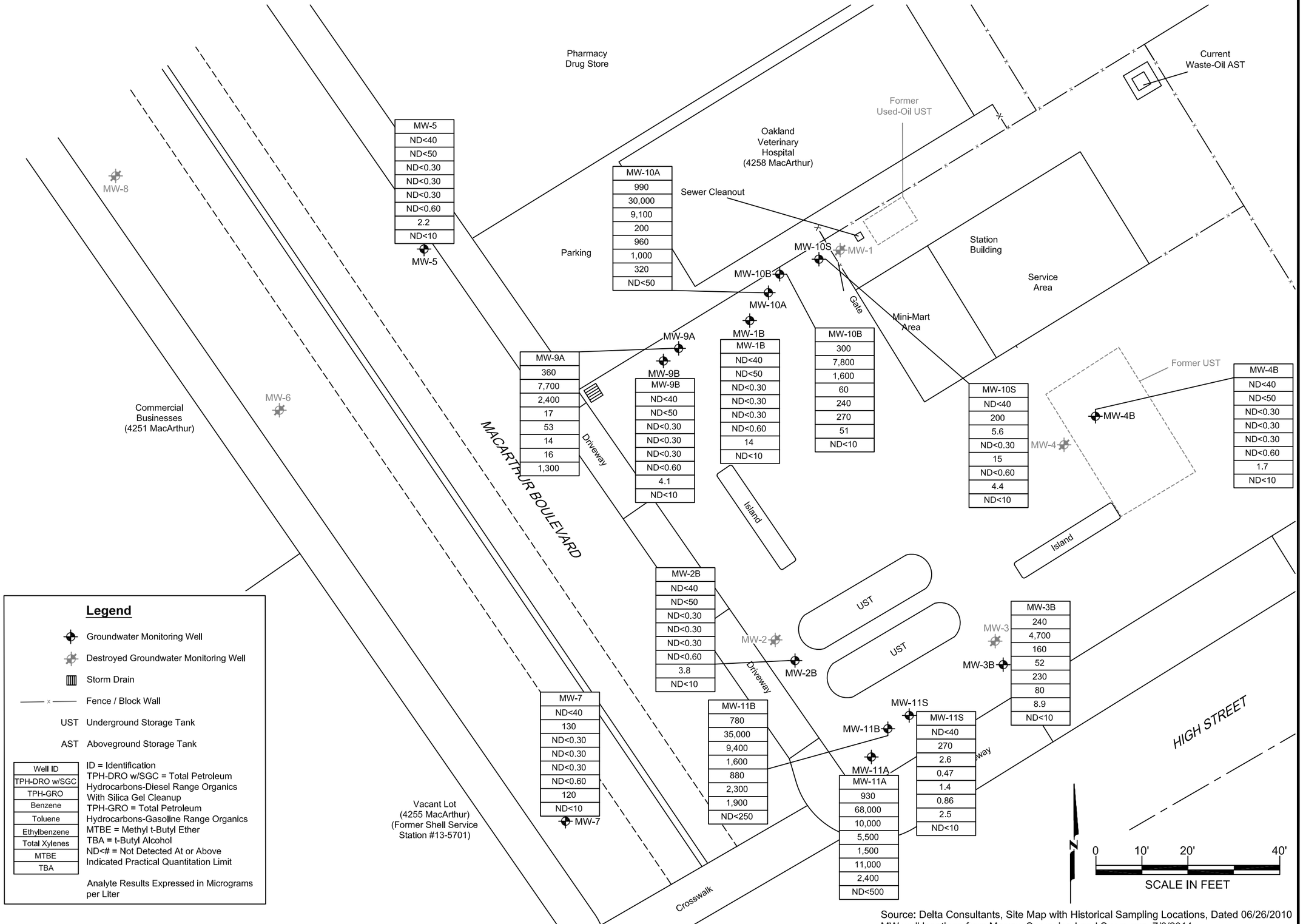
First Quarter 2016 Semiannual Groundwater Elevation Map
76 Service Station No. 1156 (351645)
4276 MacArthur Boulevard
Oakland, California

SCALE: 1" = 20'
DATE: 03/10/2016
PROJECT NUMBER: 60490608

FIGURE NUMBER: 3

SHEET NUMBER: 1 of 1

FILENAME: J:\Client-Projects\76_Products\351645-Oakland_4276_MacArthur_Blvd\7.0_Deliverables\7.2_CADD-Graphics_Groundwater Monitoring\2016 1351645 1Q16.dwg



Legend

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

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

ID = Identification
TPH-DRO w/SGC = Total Petroleum Hydrocarbons-Diesel Range Organics With Silica Gel Cleanup
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
MTBE = Methyl t-Butyl Ether
TBA = t-Butyl Alcohol
ND<# = Not Detected At or Above Indicated Practical Quantitation Limit

Analyte Results Expressed in Micrograms per Liter

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

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

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

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

First Quarter 2016 Semiannual Groundwater Analytical Data Map

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

PROJECT NUMBER:	DATE:	SCALE:
60490608	03/10/2016	1" = 20'

FIGURE NUMBER:
4

SHEET NUMBER:
1 of 1

FILENAME: J:\Client--Projects\76_Products\351645--Oakland_4276_MacArthur_Blvd\7.0_Deliverables\7.2_CADD--Graphics_Groundwater Monitoring\2016 1351645 1Q16.dwg

ATTACHMENT C

TABLES

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

WELL ID	WELL INSTALLATION DATE	CASING DIAMETER (in.)	BORING DEPTH (ft. bgs)	SCREEN INTERVAL (ft. bgs)	SCREEN SIZE (in.)	FILTER PACK (ft. bgs)	BENTONITE SEAL (ft. bgs)	GROUT INTERVAL (ft. bgs)
MW-1*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-1B	8/17/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-2*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-2B	8/16/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-3*	7/16/1999	2	31.5	5-25	0.01	4-27	3-4; 27-31.5	0-3
MW-3B	8/16/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-4*	7/16/1999	2	26.5	5-25	0.01	4-26.5	3-4	0-3
MW-4B	8/13/2010	2	25	20-25	0.02	19-25	18-19	0.5-18
MW-5	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-6	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-7	8/29/2001	2	25	5-25	0.02	4-25	3-4	0.5-3
MW-8	10/30/2007	2	25	15-25	0.01	13-25	11-13	1-11
MW-9A	3/18/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-9B	3/18/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-10A	3/18/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-10B	3/18/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-10S	6/12/2014	4	10	6.5-10	0.02	3.5-10	1-3.5	n/a
MW-11A	3/19/2013	2	15	10-15	0.02	8-15	1.5-8	1-1.5
MW-11B	3/19/2013	2	20	15-20	0.02	13-20	1.5-13	1-1.5
MW-11S	6/11/2014	4	10	6.5-10	0.02	3.5-10	1-3.5	n/a

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

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

WELL ID	DATE SAMPLED	TOC* (ft)	DTW (ft)	LNAPL 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	

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	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
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
	10/7/2005	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	

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
	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	

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
	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

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)
	1/7/2000	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

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	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	--	--	--	--	--	--	--	--	--	--

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)
	10/3/2000	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

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)
	7/12/2004	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

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)
	7/10/2013	--	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
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)

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

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

WELL ID	DATE	PRE-PURGE DO (mg/L)	POST-PURGE DO (mg/L)	PRE-PURGE ORP (mV)	POST-PURGE ORP (mV)
	1/16/2014	1.5	1.2	-25	-42
	7/22/2014	1.6	1.2	-68	-43
	1/27/2015	1.5	1.3	-42	-58
	7/21/2015	1.6	1.3	-32	-53
	1/20/2016	**1.7**	**1.4**	**-50**	**-69**
MW-4	4/13/2009	0.51	1.35	-67	-46
	7/23/2009	2.10	7.23	-28	-48
	2/1/2010	1.67	0.90	-76	-70
	8/2/2010	0.74	0.57	-94	-64
MW-4B	11/1/2010	1.31	0.63	77	83
	1/31/2011	3.13	1.72	151	145
	4/26/2011	4.19	1.97	234	221
	1/23/2012	2.18	3.96	161	124
	7/24/2012	1.37	0.91	2	8
	2/8/2013	2.2	2.1	86	95
	7/10/2013	2.4	2.2	24	27
	1/16/2014	2.0	1.5	65	49
	1/27/2015	2.6	2.3	122	110
	1/20/2016	**2.1**	**1.8**	**75**	**90**
MW-5	4/13/2009	1.80	0.95	-21	-12
	7/23/2009	1.54	2.08	136	144
	2/1/2010	1.82	1.84	21	23
	8/2/2010	1.78	1.36	171	44
	1/31/2011	1.17	1.00	154	155
	1/23/2012	1.15	0.56	98	84
	7/24/2012	2.74	0.79	40	42
	2/8/2013	2.3	2.1	62	71
	7/10/2013	2.4	2.2	34	37
	1/16/2014	2.6	2.1	125	107
	1/27/2015	2.2	2.0	135	114
	1/20/2016	**1.9**	**1.5**	**102**	**86**
MW-6	4/13/2009	0.80	0.54	-40	-32
MW-7	4/13/2009	0.80	1.27	-21	-13
	7/23/2009	1.35	0.76	165	165
	2/1/2010	1.86	0.97	-33	-12
	8/2/2010	1.24	0.74	133	41
	1/31/2011	1.22	0.92	156	163
	1/23/2012	3.15	0.55	113	106
	7/24/2012	3.14	1.57	-108	-76

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)
	2/8/2013	2.4	2.3	56	67
	7/10/2013	2.1	1.9	52	56
	1/16/2014	2.3	2.1	138	125
	1/27/2015	2.4	2.2	138	127
	1/20/2016	**1.8**	**1.3**	**177**	**161**
MW-8	4/13/2009	2.56	1.11	-70	-48
	7/23/2009	4.57	8.40	196	185
	2/1/2010	3.17	2.94	-17	-16
MW-9A	7/10/2013	1.4	1.1	59	58
	1/16/2014	2.2	1.8	28	10
	7/22/2014	1.3	1.0	37	26
	1/27/2015	2.3	2.1	60	42
	7/21/2015	2.1	1.7	128	105
	1/20/2016	**1.8**	**1.5**	**165**	**147**
MW-9B	7/10/2013	1.3	1.1	71	74
	1/16/2014	0.6	0.7	99	87
	1/27/2015	2.8	2.4	137	126
	1/20/2016	**1.7**	**1.9**	**109**	**155**
MW-10A	7/10/2013	1.9	1.5	81	84
	1/16/2014	1.0	0.7	34	22
	7/22/2014	1.1	.09	43	33
	1/27/2015	1.3	1.0	39	30
	7/21/2015	1.5	1.1	68	56
	1/20/2016	**1.7**	**1.2**	**58**	**40**
MW-10B	7/10/2013	1.9	1.7	76	79
	1/16/2014	0.8	0.8	66	57
	7/22/2014	1.1	.08	84	70
	1/27/2015	1.1	0.8	83	72
	7/21/2015	1.3	1.0	106	84
	1/20/2016	**1.9**	**1.3**	**89**	**71**
MW-10S	7/21/2015	1.8	1.6	80	74
	1/20/2016	**1.9**	**1.5**	**88**	**74**
MW-11A	7/10/2013	1.6	1.4	43	49
	1/16/2014	1.8	1.7	60	46
	7/22/2014	1.7	1.5	69	54
	1/27/2015	1.6	1.2	35	34
	7/21/2015	1.3	1.1	12	4

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

WELL ID	DATE	PRE-PURGE DO (mg/L)	POST-PURGE DO (mg/L)	PRE-PURGE ORP (mV)	POST-PURGE ORP (mV)
	1/20/2016	**1.5**	**1.4**	**-65**	**-80**
MW-11B	7/10/2013	1.3	1.1	73	74
	1/16/2014	1.5	1.1	25	-83
	7/22/2014	1.6	1.2	-37	-26
	1/27/2015	1.4	1.2	18	7
	7/21/2015	1.9	1.6	89	66
	1/20/2016	**1.8**	**1.6**	**-90**	**-79**
MW-11S	7/22/2014	1.8	1.4	16	6
	1/27/2015	1.9	1.4	-19	-32
	7/21/2015	1.7	1.4	19	9
	1/20/2016	**1.6**	**1.5**	**-85**	**-91**

NOTES:

-- = Not monitored

DO = Dissolved oxygen

ID = Identification

mg/L = Milligrams per liter

mV = Millivolts

ORP = Oxidation-reduction potential

ATTACHMENT D

GROUNDWATER SAMPLING/PURGE LOGS

GETTLER-RYAN INC.

TRANSMITTAL

January 29, 2016
G-R #385646

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

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **First Semi-Annual Event of January 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

1-2

Client/
Facility #: Chevron #351645 / 1156

Site Address: 4276 Macarthur Blvd.

City: Oakland, CA

Job #: 385646

Event Date: 1/20/16

Sampler: JW

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

Comments

2-2

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #351645 / 1156

Site Address: 4276 Macarthur Blvd.

City: Oakland, CA

Job #: 385646

Event Date: 1.20.16

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-11A	OK									Emco | 8" | 2	
MW-11B	OK									" " "	
MW-11S	OK							↓	↓	Emco | 12" | 2	

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 1/20/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-1B Date Monitored: 1/20/16
Well Diameter 2 in.
Total Depth 24.52 ft.
Depth to Water 5.86 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.

19.06 xVF .17 = 3.24 x3 case volume = Estimated Purge Volume: 9.72 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.67

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0930 Weather Conditions: Cloudy
Sample Time/Date: 1010 / 1/20/16 Water Color: clear Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: none
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0930	----------	PRE: 7.25	PRE: 15.8	PRE: 1.6	PRE: 2.2	PRE: 125
0933	3	7.22	15.6	1.5	2.1	131
0936	6	7.16	16.5	1.4	2.0	136
0940	10	7.11	15.4	1.3	1.8	140

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1B	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)
	~~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: _____

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

Well ID MW-2B Date Monitored: 1.20.16
Well Diameter 2 in.
Total Depth 24.89 ft.
Depth to Water 4.91 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

19.98 xVF .17 = 3.39 x3 case volume = Estimated Purge Volume: 10.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.90

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): 0950 Weather Conditions: Cloudy / Sunny
Sample Time/Date: 1250 / 1.20.16 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: ≈1.5 gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 6.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0950	----------	PRE: 6.75	PRE: 4	PRE: 18.9	PRE: 1.9	PRE: 70
0952	3.5	6.69	438	19.2	1.9	75
0954	7.0	6.67	433	19.6	1.8	81
0957	10.0	6.65	428	20.0	1.6	84

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2B	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)
	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: Emco 4" ok

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 1. 20.16 (inclusive)
City: Oakland, CA Sampler: FR

Well ID MW- 3B Date Monitored: 1- 20.16
Well Diameter 2 in.
Total Depth 24.92 ft.
Depth to Water 5.18 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.

19.74 xVF .17 = 3.35 x3 case volume = Estimated Purge Volume: 10.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.12

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): 1015 Weather Conditions: CLOUDY / SUNNY
Sample Time/Date: 1310 / 1.20.16 Water Color: CLEAR Odor: Y / N MODERATE
Approx. Flow Rate: ≈ 1.5 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 7.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 1015	----------	PRE: 6.60	PRE: 564	PRE: 20.2	PRE: 1.7	PRE: -50
1017	3.5	6.57	557	20.5	1.6	-57
1019	7.0	6.55	552	20.9	1.6	-62
1022	10.0	6.53	546	21.1	1.4	-69

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: EMLP 12" OIL

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

Well ID MW-4B Date Monitored: 1.20.16
Well Diameter 2 in.
Total Depth 24.81 ft.
Depth to Water 5.14 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.

19.67 xVF .17 = 3.34 x3 case volume = Estimated Purge Volume: 10.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: [redacted] 9.07

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

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

Start Time (purge): 0930 Weather Conditions: Cloudy / Sunny
Sample Time/Date: 1230 / 1.20.16 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 1.5 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 7.14

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0930	----------	PRE: 7.15	PRE: 475	PRE: 19.1	PRE: 2.1	PRE: 75
0932	3.5	7.11	469	19.5	2.0	80
0934	7.0	7.09	463	19.8	1.9	86
0937	10.0	7.06	458	20.1	1.8	90

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4B	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)
	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: EMLE 12" OIL

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: 1/20/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-5 Date Monitored: 1/20/16
Well Diameter 2 in.
Total Depth 25.30 ft.
Depth to Water 1.42 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.

23.88 xVF .17 = 4.05 x3 case volume = Estimated Purge Volume: 12.17 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.19

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

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

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

Start Time (purge): 0615 Weather Conditions: Dark / cloudy
Sample Time/Date: 0700 / 1/20/16 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: Slight
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 4.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0615	----------	PRE: 7.35	PRE: 677	PRE: 15.7	PRE: 1.9	PRE: 102
0619	4	7.31	684	15.6	1.7	98
0623	8	7.30	689	15.4	1.6	93
0627	12	7.28	701	15.2	1.5	86

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 5	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)
	~~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:

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: 1/20/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-7 Date Monitored: 1/20/16
Well Diameter 2 in.
Total Depth 23.95 ft.
Depth to Water 6.48 ft.

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

☐ Check if water column is less then 0.50 ft.

17.47 xVF .17 = 2.96 x3 case volume = Estimated Purge Volume: 8.90 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.97

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump	X	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): 0515 Weather Conditions: DARK / cloudy
Sample Time/Date: 0555 / 1/20/16 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: 1.3 HY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 8.84

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS) (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0515	----------	PRE: 7.84	PRE: 705	PRE: 15.6	PRE: 1.8	PRE: 177
0518	3	7.81	701	15.5	1.5	172
0521	6	7.76	695	15.4	1.4	165
0524	9	7.69	692	15.3	1.3	161

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	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)
	~~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:

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: 1/20/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW- 9A Date Monitored: 1/20/16
Well Diameter 2 in.
Total Depth 15.10 ft.
Depth to Water 8.47 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.

6.63 xVF .17 = 1.12 x3 case volume = Estimated Purge Volume: 3.38 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.79

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: 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): 0825 Weather Conditions: Cloudy
Sample Time/Date: 0910 / 1/20/16 Water Color: Cloudy Odor: Y / N / Low
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.54

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0825	----------	PRE: 6.80	PRE: 1181	PRE: 15.9	PRE: 1.8	PRE: 165
0829	1	6.74	1170	15.8	1.7	159
0834	2	6.62	1164	15.7	1.6	153
0840	3.5	6.59	1163	15.6	1.5	147

LABORATORY INFORMATION

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

COMMENTS:

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: 1/20/16 (inclusive)
City: Oakland, CA Sampler: SH

Well ID MW-9B Date Monitored: 1/20/16
Well Diameter 2 in.
Total Depth 20.16 ft.
Depth to Water 4.72 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.

15.44 xVF .17 = 2.62 x3 case volume = Estimated Purge Volume: 7.87 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.80

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: _____ 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): 0720 Weather Conditions: Cloudy
Sample Time/Date: 0800 / 1/20/16 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.55

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 0720	----------	PRE: 7.65	PRE: 915	PRE: 15.6	PRE: 1.7	PRE: 109
0726	2.5	7.61	905	15.7	1.8	122
0733	5.0	7.58	901	15.6	1.9	136
0740	8.0	7.53	895	15.6	1.9	155

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9B	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)
	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: _____

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: 1/20/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-10A Date Monitored: 1/20/16
Well Diameter 2 in.
Total Depth 14.47 ft.
Depth to Water 8.63 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.

5.84 xVF .17 = .99 x3 case volume = Estimated Purge Volume: 2.97 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.79

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: _____ 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: Cloudy
Sample Time/Date: 1115 / 1/20/16 Water Color: Cloudy Odor: Y / N / Strong
Approx. Flow Rate: — gpm. Sediment Description: Lights
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 1030	----------	PRE: 7.28	PRE: 1586	PRE: 15.8	PRE: 1.7	PRE: 58
1034	1	7.21	1571	15.7	1.5	51
1038	2	7.16	1562	15.5	1.4	43
1043	3	7.12	1559	15.4	1.2	40

LABORATORY INFORMATION

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

COMMENTS: _____

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 1/20/16 (inclusive)
City: Oakland, CA Sampler: SH

Well ID MW-10B Date Monitored: 1/20/16
Well Diameter 2 in.
Total Depth 19.24 ft.
Depth to Water 6.43 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

12.81 xVF .17 = 2.17 x3 case volume = Estimated Purge Volume: 6.53 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.99

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: 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): 1135 Weather Conditions: Cloudy
Sample Time/Date: 1225 / 1/20/16 Water Color: Cloudy Odor: Ⓨ / N Light
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.65

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
PRE: 1135	----------	PRE: 7.33	PRE: 1516	PRE: 15.7	PRE: 1.9	PRE: 89
1140	2	7.29	1503	15.6	1.7	82
1145	4	7.20	1487	15.4	1.6	75
1152	6.5	7.12	1471	15.1	1.3	71

LABORATORY INFORMATION

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

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 1/20/16 (inclusive)
City: Oakland, CA Sampler: JH

Well ID MW-10S Date Monitored: 1/20/16
Well Diameter 4 in.
Total Depth 10.31 ft.
Depth to Water 6.13 ft.

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

☐ Check if water column is less then 0.50 ft.

4.18 xVF .66 = 2.75 x3 case volume = Estimated Purge Volume: 8.27 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.96

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

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

Start Time (purge): 1245 Weather Conditions: Cloudy
Sample Time/Date: 1400 / 1/20/16 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.90

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) F)	D.O. (mg/L)	ORP (mV)
PRE: 1245	----------	PRE: 7.39	PRE: 1589	PRE: 15.9	PRE: 1.9	PRE: 88
1255	2.5	7.38	1581	15.8	1.8	86
1315	5.0	7.35	1576	15.8	1.5	81
	8.5	7.32	1570	15.7	1.5	74

LABORATORY INFORMATION

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

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351645 / 1156 Job Number: 385646
Site Address: 4276 Macarthur Blvd. Event Date: 1-20-16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-11A Date Monitored: 1-20-16
Well Diameter 2 in.
Total Depth 15.00 ft.
Depth to Water 4.28 ft.

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

☐ Check if water column is less then 0.50 ft.

10.72 xVF .17 = 1.82 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.42

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): 1105 Weather Conditions: CLOUDY | SUNNY
Sample Time/Date: 1130 / 1-20-16 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: 6.39

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 1105	----------	PRE 6.56	PRE: 670	PRE: 19.5	PRE: 1.5	PRE: -65
1108	1.5	6.52	675	19.8	1.5	-71
1111	3.0	6.50	680	20.1	1.4	-76
1115	5.0	6.47	686	20.3	1.4	-80

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: EMAIL SH GL

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

Well ID MW-11B Date Monitored: 1.20.16
Well Diameter 2 in.
Total Depth 20.19 ft.
Depth to Water 7.71 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.

12.48 xVF .17 = 2.12 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.20

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): 1145 Weather Conditions: CLOUDY / SUNNY
Sample Time/Date: 1215 / 1.20.16 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: 10.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
PRE: 1145	----------	PRE: 6.61	PRE: 764	PRE: 20.5	PRE: 1.8	PRE: -90
1149	2.0	6.58	767	20.7	1.8	-86
1153	4.0	6.56	770	20.9	1.7	-83
1157	6.0	6.53	775	21.1	1.6	-79

LABORATORY INFORMATION

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

COMMENTS: Empty 8" oil

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

Well ID MW-11S Date Monitored: 1.20.16
Well Diameter 2 in.
Total Depth 10.16 ft.
Depth to Water 3.23 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.

6.93 xVF .66 = 4.57 x3 case volume = Estimated Purge Volume: 14.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.61

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): 1040 Weather Conditions: CLOUDY / SUNNY
Sample Time/Date: 1330 / 1.20.16 Water Color: CLEAR Odor: (Y) / N SLIGHT
Approx. Flow Rate: ≈1.5 gpm. Sediment Description: NONE
Did well de-water? Yes If yes, Time: 1045 Volume: 6.0 gal. DTW @ Sampling: 4.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
PRE: 1040	----------	PRE: 6.89	PRE: 409	PRE: 18.4	PRE: 1.6	PRE: -85
1043	4.5	6.86	414	18.7	1.5	-91

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 1 liter ambers	YES	HCL	BC LABS	OIL & GREASE(1664)
	1 x 250ml poly	YES	HCL	BC LABS	FERROUS IRON(SM20 3500 Fe B)
	2 x voa vial	YES	NP	BC LABS	METHANE(RSK-175)
	1 x 500ml poly	YES	NP	BC LABS	NITRATE/SULFATE(EPA 300.0)/ DISSOLVED MANGANESE(200.7)

COMMENTS: EMCO / 12" / OX

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 2

Union Oil Site ID: 1156	Union Oil Consultant: AECOM
Site Global ID: T0600102279	Consultant Contact: Chad Roper
Site Address: 9276 MacArthur Blvd Oakland CA	Consultant Phone No.: 805-764-7029
	Sampling Company: G-K inc
Union Oil PM: N. Arceneaux	Sampled By (PRINT): Sim Herr
Union Oil PM Phone No.: 925-150-6912	Sampler Signature:
Charge Code: NWRTB-0251645-0-LAB	BC Laboratories, Inc.
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

SAMPLE ID						ANALYSES REQUIRED												
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015 M	TPH - G by GC/MS (8015m)	BTEX/MTBE/OXYS by EPA 8260B (8021)	Ethanol by EPA 8260B (8260)	EPA 8260B Full List with OXYS	MTBE (8260B)	Oxys (8260)	Ferrous Iron (SM 3500 Fe B)	Methane (RSK-175)	Nitrate / Sulfate (300.0)	Dissolved Manganese (200.7)	Turnaround Time (TAT): Standard ☒ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐
QA	W-S-A		160120	—	2		X	X			X						Special Instructions: Lab to filter dissolved manganese samples JHH 1/26/16
MW-11B	W-S-A			1010	8	X	X	X				X					Notes / Comments: 1/26-DW: amended COC. MW3B WAS
MW-2B	W-S-A			1250	8												missing Ferrous Iron,
MW-3B	W-S-A			1310	12								X	X	X	X	Methane, Nitrate/Sulfate,
MW-5	W-S-A			0700	8												and dissolved manganese
MW-7	W-S-A			0555	8												
MW-9A	W-S-A			0910	12								X	X	X	X	MW-11A
MW-9B	W-S-A			0840	8												include
MW-10A	W-S-A			1115	12								X	X	X	X	missing
MW-10B	W-S-A			1225	12								X	X	X	X	analysis
MW-10S	W-S-A			1400	13				X				X	X	X	X	JHH
MW-11A	W-S-A			1130	12								X	X	X	X	1/26/16

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
	G-K inc	01/20/16 1540						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
Mary Bryan	BC Lab	1-20-16 1540						

CHAIN OF CUSTODY FORM

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

COC 2 of 2

Union Oil Site ID: 1156
Site Global ID: T0600102279
Site Address: 4276 MacArthur Blvd Oakland CA
Union Oil PM: N Afreneaux
Union Oil PM Phone No.: 925-790-6912

Charge Code: NWRTB- 0 351645 -0- LAB

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

Union Oil Consultant: AECOM
Consultant Contact: Chad Kopen
Consultant Phone No.: 805-764-4027
Sampling Company: G-R inc
Sampled By (PRINT): Sam Herrera
Sampler Signature: [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 magenese samples

Notes / Comments: JM 1/20/16

ANALYSES REQUIRED

Analyses columns:
1. TPH - Diesel by EPA 8015 w/ sgc m
2. TPH - G by ~~GC/MS~~ (8015m)
3. ~~BTEX/MTBE/OXYS by EPA 8260B~~, 8021
4. ~~Ethanol by EPA 8260B~~, oil & grease 1664
5. EPA 8260B Full List with OXYS
6. MTBE (8260B)
7. & oxy's (8260)
8. Ferrous Iron (SM20 3500 Fe D)
9. Methane (RSK-175)
10. Nitrate/Sulfate (300.0)
11. Dissolved Manganese (200.7)

SAMPLE ID

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	1	2	3	4	5	6	7	8	9	10	11
MW-11B	(W)-S-A		160120	1215	12	X	X	X			X	X	X	X	X	X
MW-11S	W-S-A		160120	[redacted] 1330	13	X	X	X	X		X	X	X	X	X	X
MW-4B	W-S-A		160120	1230	8	X	X	X			X	X				
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	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]	G-R inc	01/20/16 1540						

Received By	Company	Date / Time:	Received By	Company	Date / Time :	Received By	Company	Date / Time:
[signature]	BC Lab	1-20-16 1540						

ATTACHMENT E

LABORATORY ANALYITICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Date of Report: 02/04/2016

Chad Roper

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Client Project:	351645
BCL Project:	1156
BCL Work Order:	1602101
Invoice ID:	B225835

Enclosed are the results of analyses for samples received by the laboratory on 1/20/2016. 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

Table of Contents

Chain of Custody and Cooler Receipt Form for 1602101 Page 1 of 6

16-02101

CHAIN OF CUSTODY FORM

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

COC 1 of 2

Union Oil Site ID: 1156	Union Oil Consultant: AECOM
Site Global ID: T0600102279	Consultant Contact: Chad Roper
Site Address: 4276 MacArthur Blvd Oakland CA	Consultant Phone No.: 805-764-4027
	Sampling Company: GR inc
Union Oil PM: N. Arceneaux	Sampled By (PRINT): Jim Herrera
Union Oil PM Phone No.: 925-790-6912	Sampler Signature:
Charge Code: NWRTB-0351645-0- 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.

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

Special Instructions

ANALYSES REQUIRED

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015 M w/ SGC	TPH - G by GC/MS (8015M)	BTEX/~~MTBE/OXYS by EPA 8260B~~ (8021)	~~Ethanol by EPA 8260B~~ 0.1 L Hexane (1664)	EPA 8260B Full List with OXYS	MTBE (8260B)	8 oxy's (8260)	Ferrous Iron (SM20 3500 Fe B)	Methane (RSK-175)	Nitrate/Sulfate (300.0)	Dissolved Manganese (200.7)	Notes / Comments
QA	W-S-A	-1	160120	—	2		X	X			X						
MW-1B	W-S-A	-2	↓	1010	8	X	X	X			↓	X					
MW-2B	W-S-A	-3	↓	1250	8	↓	↓	↓			↓	↓					
MW-3B	W-S-A	-4	↓	1310	12	↓	↓	↓			↓	↓					
MW-5	W-S-A	-5	↓	0700	8	↓	↓	↓			↓	↓					
MW-7	W-S-A	-6	↓	0555	8	↓	↓	↓			↓	↓					
MW-9A	W-S-A	-7	↓	0910	12	↓	↓	↓			↓	↓	X	X	X	X	
MW-9B	W-S-A	-8	↓	0800	8	↓	↓	↓			↓	↓					
MW-10A	W-S-A	-9	↓	1115	12	↓	↓	↓			↓	↓	X	X	X	X	
MW-10B	W-S-A	-10	↓	1225	12	↓	↓	↓			↓	↓	X	X	X	X	
MW-10S	W-S-A	-11	↓	1400	13	↓	↓	↓	X		↓	↓	X	X	X	X	
MW-11A	W-S-A	-12	↓	1130	12	↓	↓	↓			↓	↓					

Relinquished By	Company	Date / Time	Relinquished By	Company	Date / Time	Relinquished By	Company	Date / Time
[signature]	GR inc	01/20/16 1540	Gary Bogan	BC LAB	1-20-16 1830	[signature]	BCLAB	1/20/16 2230
Received By	**Company**	**Date / Time**	**Received By**	**Company**	**Date / Time**	**Received By**	**Company**	**Date / Time**
Gary Bogan	BCLab	1-20-16 1540	[signature]	BCLAB	1/20/16 18:30	[signature]	BCLAB	1-20-16 2230

16-02101

CHAIN OF CUSTODY FORM

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

COC 2 of 2

Union Oil Site ID: 1156	Union Oil Consultant: AECOM
Site Global ID: T0600102279	Consultant Contact: Chad Roper
Site Address: 4276 MacArthur Blvd Oakland CA	Consultant Phone No.: 805-764-4027
	Sampling Company: GR inc
Union Oil PM: N. Arceneaux	Sampled By (PRINT): Sim Herr
Union Oil PM Phone No.: 925-790-6812	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.

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

Special Instructions

ANALYSES REQUIRED

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015m w/sgc	TPH - G by 8015m	BTEX/MTBE/OXYS by EPA 8021	Oil & Grease 1664	EPA 8260B Full List with OXYS	MTBE (8260B)	8 oxy's (8260)	Ferrous Iron (SM20 3500 Fe B)	Methane (RSK-175)	Nitrate/Sulfate (300.0)	Dissolved Manganese (200.7)	Notes / Comments
MW-11B	W	-13	160120	1215	12	X	X	X			X	X	X	X	X	X	
MW-11S	W-S-A	-14	160120	[redacted] 1330	13	X	X	X	X		X	X	X	X	X	X	
MW-4B	W	-15	160120	1230	8	X	X	X			X	X					
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

SHORT HOLDING TIME: Cr6 NO2 NO3 OP SS DO Cl2 BOD MBAS COT

CHK BY / DISTRIBUTION / SUB-OUT ☐

Relinquished By	Company	Date / Time	Relinquished By	Company	Date / Time	Relinquished By	Company	Date / Time
[signature]	GR inc	01/20/16 1540	Gary Bogan	BcLab	1-20-16 1830	[signature]	BCLAB	1/20/16 2230

Received By	Company	Date / Time	Received By	Company	Date / Time	Received By	Company	Date / Time
Gary Bogan	BcLab	1-20-16 1540	[signature]	BCLAB	1/20/16 18:30	[signature]	BCLAB	1-20-16 2230

Chain of Custody and Cooler Receipt Form for 1602101 Page 3 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 4

Submission #: 16-02101

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)_____	

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: 1/20/16 2225

Temperature: (A) 0.3 °C / (C) 0.3 °C Analyst Init: TT

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES				J			J		J	J
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
oz. NITRATE / NITRITE										
T TOTAL ORGANIC CARBON										
T CHEMICAL OXYGEN DEMAND										
TA PHENOLICS										
0ml VOA VIAL TRAVEL BLANK	A, B									
0ml VOA VIAL		A>F	A>F	A>F	A>F	A>F	A>F	A>F	A>F	A>F
T EPA 1664										
T ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
ml VOA VIAL ~~504~~ Unpr.				G, H			G, H		G, H	G, H
T EPA 508/608/8080										
T EPA 515.1/8150										
T EPA 525										
T EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
EPA 548										
EPA 549										
EPA 8015M										
EPA 8270										
/ 16oz / 32oz AMBER			G							
/ 16oz / 32oz JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
DLAR BAG										
RROUS IRON				I			I		I	I
CORE										
ART KIT										
IMA CANISTER										

ments:

ple Numbering Completed By: _____ Date/Time: 1/21/16 1215

Actual / C = Corrected

Rev 20 07/24/2015

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

Chain of Custody and Cooler Receipt Form for 1602101 Page 4 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 4

Submission #: 16-02101

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

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

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

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

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Amber Thermometer ID: 208 Date/Time: 2016 2225

Temperature: (A) 0.3 °C / (C) 0.3 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	J	J	J	J						
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										
1A PHENOLICS										
0ml VOA VIAL TRAVEL BLANK										
0ml VOA VIAL	A>F	A>F	A>F	A>F	A>F					
T EPA 1664										
T ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
ml VOA VIAL ~~504~~ Unp	G,H	G,H	G,H	G,H						
T EPA 508/608/8080										
T EPA 515.1/8150										
T EPA 525										
T EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
z EPA 548										
T EPA 549										
T EPA 8015M										
T EPA 8270										
z / 16oz / 32oz AMBER				K,L,M,N	G,H					
z / 16oz / 32oz JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
DLAR BAG										
RROUS IRON	I	I	I	I						
CORE										
ART KIT										
MMA CANISTER										

Comments:

Sample Numbering Completed By: _____ Date/Time: 1/21/16 1215

Actual / C = Corrected

Rev 20 07/24/2015

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

Chain of Custody and Cooler Receipt Form for 1602101 Page 5 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 4

Submission #: 16-02101

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)_____	

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: 1·20·16 2223

Temperature: (A) 1.0 °C / (C) 0.5 °C Analyst Init TT

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
NORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
T CYANIDE										
T NITROGEN FORMS										
T TOTAL SULFIDE										
oz. NITRATE / NITRITE										
T TOTAL ORGANIC CARBON										
T CHEMICAL OXYGEN DEMAND										
A PHENOLICS										
0ml VOA VIAL TRAVEL BLANK										
0ml VOA VIAL										
T EPA 1664										
ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
l EPA 547										
l EPA 531.1										
EPA 548										
EPA 549										
EPA 8015M										
EPA 8270										
/16oz /32oz AMBER		G,H			G,H	G,H	K,L	G,H	L	L
/16oz /32oz JAR										
L SLEEVE										
VIAL										
STIC BAG										
LAR BAG										
ROUS IRON										
ORE										
RT KIT										
MA CANISTER										

ments:_____

le Numbering Completed By:_____ Date/Time: 1/21/16 1215

Actual / C = Corrected

Rev 20 07/24/2015

[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

Chain of Custody and Cooler Receipt Form for 1602101 Page 6 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 9

Submission #: 16-02101

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)_____	

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: 1/20/16 2223

Temperature: (A) 0.4 °C / (C) 0.4 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
oz. NITRATE / NITRITE										
T TOTAL ORGANIC CARBON										
T CHEMICAL OXYGEN DEMAND										
tA PHENOLICS										
ml VOA VIAL TRAVEL BLANK										
ml VOA VIAL										
T EPA 1664										
ODOR										
ADIOLOGICAL										
CTERIOLOGICAL										
ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
l EPA 547										
l EPA 531.1										
EPA 548										
EPA 549										
EPA 8015M										
EPA 8270										
16oz/32oz AMBER	L, M, K, L	H	K, L	K, L				K	V	
16oz/32oz JAR										
SLEEVE										
VIAL										
STIC BAG										
LAR BAG										
ROUS IRON										
ORE										
RT KIT										
MA CANISTER										

ments:

e Numbering Completed By: _____ Date/Time: 1/21/16 1215

Actual / C = Corrected

Rev 20 07/24/2015

[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 20]

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1602101-01	**COC Number:**	---	**Receive Date:**	01/20/2016 22:30
	Project Number:	1156	**Sampling Date:**	01/20/2016 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QA-W-160120	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Trip Blank
	Delivery Work Order:			
	Global ID: T0600102279			
	Location ID (FieldPoint): QA			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1602101-02	**COC Number:**	---	**Receive Date:**	01/20/2016 22:30
	Project Number:	1156	**Sampling Date:**	01/20/2016 10:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1B-W-160120	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600102279			
	Location ID (FieldPoint): MW-1B			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1602101-03	**COC Number:**	---	**Receive Date:**	01/20/2016 22:30
	Project Number:	1156	**Sampling Date:**	01/20/2016 12:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2B-W-160120	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600102279			
	Location ID (FieldPoint): MW-2B			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1602101-04	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 13:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3B-W-160120	**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:
1602101-05	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 07:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-5-W-160120	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600102279
			Location ID (FieldPoint): MW-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1602101-06	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 05:55
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7-W-160120	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600102279
			Location ID (FieldPoint): MW-7
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1602101-07	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 09:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9A-W-160120	**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:
1602101-08	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 08:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9B-W-160120	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600102279
			Location ID (FieldPoint): MW-9B
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1602101-09	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 11:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10A-W-160120	**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:

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1602101-10	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 12:25
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10B-W-160120	**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:		
1602101-11	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 14:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10S-W-160120	**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:		
1602101-12	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 11:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11A-W-160120	**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:		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1602101-13	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 12:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11B-W-160120	**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:		
1602101-14	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 13:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11S-W-160120	**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:		
1602101-15	**COC Number:**	---	**Receive Date:** 01/20/2016 22:30
	Project Number:	1156	**Sampling Date:** 01/20/2016 12:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-4B-W-160120	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
	Delivery Work Order: Global ID: T0600102279 Location ID (FieldPoint): MW-4B Matrix: W Sample QC Type (SACode): CS Cooler ID:		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-01 | **Client Sample Name:** 1156, QA-W-160120, 1/20/2016 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)	89.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 14:32	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-01 | **Client Sample Name:** 1156, QA-W-160120, 1/20/2016 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)	88.6	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	90.4	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 11:41	AKM	GC-V9	1	BZA1889
2	EPA-8015B	01/22/16	01/22/16 11:41	AKM	GC-V9	1	BZA1889

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-02 | **Client Sample Name:** 1156, MW-1B-W-160120, 1/20/2016 10:10:00AM

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	**14**	**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)	95.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	108	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 16:08	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-02 | **Client Sample Name:** 1156, MW-1B-W-160120, 1/20/2016 10:10:00AM

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)	88.0	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	98.5	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 12:01	AKM	GC-V9	1	BZA1889
2	EPA-8015B	01/22/16	01/22/16 12:01	AKM	GC-V9	1	BZA1889

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-02 | **Client Sample Name:** 1156, MW-1B-W-160120, 1/20/2016 10:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	62.5	%	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	01/27/16	02/03/16 22:54	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-03 | **Client Sample Name:** 1156, MW-2B-W-160120, 1/20/2016 12:50:00PM

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	**3.8**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 16:27	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-03 | **Client Sample Name:** 1156, MW-2B-W-160120, 1/20/2016 12:50:00PM

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)	87.2	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	98.1	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 12:22	AKM	GC-V9	1	BZA1647
2	EPA-8015B	01/22/16	01/22/16 12:22	AKM	GC-V9	1	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-03 | **Client Sample Name:** 1156, MW-2B-W-160120, 1/20/2016 12:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	48.3	%	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	01/27/16	02/03/16 23:17	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-04 | **Client Sample Name:** 1156, MW-3B-W-160120, 1/20/2016 1:10:00PM

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	**8.9**	**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)	92.5	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 19:37	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-04 | **Client Sample Name:** 1156, MW-3B-W-160120, 1/20/2016 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**160**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Toluene	**52**	**ug/L**	**0.30**		**EPA-8020**	ND		2
Ethylbenzene	**230**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	1
Total Xylenes	**80**	**ug/L**	**0.60**		**EPA-8020**	ND		2
Gasoline Range Organics (C4 - C12)	**4700**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	86.4	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	99.4	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 22:04	AKM	GC-V9	10	BZA1647
2	EPA-8020	01/25/16	01/25/16 10:13	AKM	GC-V9	1	BZA1647
3	EPA-8015B	01/22/16	01/22/16 22:04	AKM	GC-V9	10	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-04 | **Client Sample Name:** 1156, MW-3B-W-160120, 1/20/2016 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**240**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	58.5	%	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	01/27/16	02/03/16 23:39	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1602101-04 | **Client Sample Name:** 1156, MW-3B-W-160120, 1/20/2016 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**3.0**	**mg/L**	**0.010**		**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	02/02/16	02/02/16 14:44	JH2	GC-V1	10	BZB0133

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1602101-04 | **Client Sample Name:** 1156, MW-3B-W-160120, 1/20/2016 1:10:00PM

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	**4.9**	**mg/L**	**1.0**		**EPA-300.0**	ND		1
Iron (II) Species	**1400**	**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	01/21/16	01/21/16 17:57	JSW	IC2	1	BZA1820
2	SM-3500-FeD	01/21/16	01/21/16 14:43	TDC	KONE-1	1	BZA1792

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1602101-04 | **Client Sample Name:** 1156, MW-3B-W-160120, 1/20/2016 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**3200**	**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	01/28/16	01/29/16 19:16	GPD	PE-EL2	2	BZA2508

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-05 | **Client Sample Name:** 1156, MW-5-W-160120, 1/20/2016 7:00:00AM

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	**2.2**	**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)	92.8	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 16:46	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-05 | **Client Sample Name:** 1156, MW-5-W-160120, 1/20/2016 7:00:00AM

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)	87.3	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	95.3	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 12:42	AKM	GC-V9	1	BZA1647
2	EPA-8015B	01/22/16	01/22/16 12:42	AKM	GC-V9	1	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-05 | **Client Sample Name:** 1156, MW-5-W-160120, 1/20/2016 7:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	82.7	%	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	01/27/16	02/04/16 00:02	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-06 | **Client Sample Name:** 1156, MW-7-W-160120, 1/20/2016 5:55:00AM

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	**120**	**ug/L**	**2.5**		**EPA-8260B**	ND	**A01**	2
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)	92.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	87.8	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 18:40	IO1	MS-V10	1	BZA1506
2	EPA-8260B	01/22/16	01/22/16 21:35	IO1	MS-V10	5	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-06 | **Client Sample Name:** 1156, MW-7-W-160120, 1/20/2016 5:55:00AM

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)	**130**	**ug/L**	**50**		**EPA-8015B**	ND		2
a,a,a-Trifluorotoluene (PID Surrogate)	87.6	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	96.7	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 21:04	AKM	GC-V9	1	BZA1647
2	EPA-8015B	01/22/16	01/22/16 21:04	AKM	GC-V9	1	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-06 | **Client Sample Name:** 1156, MW-7-W-160120, 1/20/2016 5:55:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	60.1	%	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	01/27/16	02/04/16 00:24	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-07 | **Client Sample Name:** 1156, MW-9A-W-160120, 1/20/2016 9:10:00AM

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	**16**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	**1300**	**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)	33.1	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 17:43	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-07 | **Client Sample Name:** 1156, MW-9A-W-160120, 1/20/2016 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**2400**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	1
Toluene	**17**	**ug/L**	**0.30**		**EPA-8020**	ND		2
Ethylbenzene	**53**	**ug/L**	**0.30**		**EPA-8020**	ND		2
Total Xylenes	**14**	**ug/L**	**0.60**		**EPA-8020**	ND		2
Gasoline Range Organics (C4 - C12)	**7700**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	88.0	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	121	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/23/16 02:07	AKM	GC-V9	50	BZA1647
2	EPA-8020	01/22/16	01/23/16 03:48	AKM	GC-V9	1	BZA1647
3	EPA-8015B	01/22/16	01/22/16 22:45	AKM	GC-V9	10	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-07 | **Client Sample Name:** 1156, MW-9A-W-160120, 1/20/2016 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**360**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	61.1	%	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	01/27/16	02/04/16 00:47	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1602101-07 | **Client Sample Name:** 1156, MW-9A-W-160120, 1/20/2016 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**1.3**	**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	02/02/16	02/02/16 14:50	JH2	GC-V1	10	BZB0133

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1602101-07 | **Client Sample Name:** 1156, MW-9A-W-160120, 1/20/2016 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	ND		1
Sulfate	ND	mg/L	1.0		EPA-300.0	ND		1
Iron (II) Species	**21000**	**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	01/21/16	01/21/16 22:29	JSW	IC2	1	BZA1820
2	SM-3500-FeD	01/21/16	01/21/16 14:38	TDC	KONE-1	10	BZA1792

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1602101-07 | **Client Sample Name:** 1156, MW-9A-W-160120, 1/20/2016 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1000**	**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	01/25/16	01/26/16 03:18	ARD	PE-EL2	1	BZA2092

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-08 | **Client Sample Name:** 1156, MW-9B-W-160120, 1/20/2016 8:00:00AM

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	**1.1**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
Methyl t-butyl ether	**4.1**	**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)	92.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 17:05	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-08 | **Client Sample Name:** 1156, MW-9B-W-160120, 1/20/2016 8:00:00AM

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)	87.8	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	94.6	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 13:22	AKM	GC-V9	1	BZA1647
2	EPA-8015B	01/22/16	01/22/16 13:22	AKM	GC-V9	1	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-08 | **Client Sample Name:** 1156, MW-9B-W-160120, 1/20/2016 8:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	43.2	%	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	01/27/16	02/04/16 01:54	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-09 | **Client Sample Name:** 1156, MW-10A-W-160120, 1/20/2016 11:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	2.5		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	2.5		EPA-8260B	ND	A01	1
Methyl t-butyl ether	**320**	**ug/L**	**2.5**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	2.5		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	50		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	2.5		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	1200		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	2.5		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	68.4	%	75 - 125 (LCL - UCL)		EPA-8260B		S09	1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 20:19	IO1	MS-V10	5	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-09 | **Client Sample Name:** 1156, MW-10A-W-160120, 1/20/2016 11:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**9100**	**ug/L**	**30**		**EPA-8020**	ND	**A01**	1
Toluene	**200**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	2
Ethylbenzene	**960**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**1000**	**ug/L**	**12**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**30000**	**ug/L**	**1000**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	87.6	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	92.0	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/23/16 02:47	AKM	GC-V9	100	BZA1647
2	EPA-8020	01/22/16	01/23/16 01:47	AKM	GC-V9	20	BZA1647
3	EPA-8015B	01/22/16	01/23/16 01:47	AKM	GC-V9	20	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-09 | **Client Sample Name:** 1156, MW-10A-W-160120, 1/20/2016 11:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**990**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	55.1	%	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	01/27/16	02/04/16 02:16	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1602101-09 | **Client Sample Name:** 1156, MW-10A-W-160120, 1/20/2016 11:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**1.2**	**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	02/02/16	02/02/16 14:54	JH2	GC-V1	10	BZB0133

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1602101-09 | **Client Sample Name:** 1156, MW-10A-W-160120, 1/20/2016 11:15:00AM

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	**5100**	**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	01/21/16	01/21/16 23:23	OLH	IC2	1	BZA1820
2	SM-3500-FeD	01/21/16	01/21/16 15:16	TDC	KONE-1	10	BZA1792

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1602101-09 | **Client Sample Name:** 1156, MW-10A-W-160120, 1/20/2016 11:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**1000**	**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	01/25/16	01/26/16 03:21	ARD	PE-EL2	1	BZA2092

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-10 | **Client Sample Name:** 1156, MW-10B-W-160120, 1/20/2016 12:25:00PM

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	**36**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
Methyl t-butyl ether	**51**	**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)	71.9	%	75 - 125 (LCL - UCL)		EPA-8260B		S09	1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 20:38	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-10 | **Client Sample Name:** 1156, MW-10B-W-160120, 1/20/2016 12:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**1600**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	1
Toluene	**60**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	2
Ethylbenzene	**240**	**ug/L**	**3.0**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**270**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**7800**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	78.9	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	87.6	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/25/16	01/25/16 10:54	AKM	GC-V9	20	BZA1647
2	EPA-8020	01/22/16	01/22/16 22:24	AKM	GC-V9	10	BZA1647
3	EPA-8015B	01/22/16	01/22/16 22:24	AKM	GC-V9	10	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-10 | **Client Sample Name:** 1156, MW-10B-W-160120, 1/20/2016 12:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**300**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	57.0	%	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	01/27/16	02/04/16 02:39	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1602101-10 | **Client Sample Name:** 1156, MW-10B-W-160120, 1/20/2016 12:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.86**	**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	02/02/16	02/03/16 09:07	JH2	GC-V1	10	BZB0133

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1602101-10 | **Client Sample Name:** 1156, MW-10B-W-160120, 1/20/2016 12:25:00PM

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	**7800**	**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	01/21/16	01/21/16 23:41	OLH	IC2	1	BZA1820
2	SM-3500-FeD	01/21/16	01/21/16 15:20	TDC	KONE-1	10	BZA1792

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1602101-10 | **Client Sample Name:** 1156, MW-10B-W-160120, 1/20/2016 12:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**5100**	**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	01/25/16	01/26/16 09:12	ARD	PE-EL2	5	BZA2092

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-11 | **Client Sample Name:** 1156, MW-10S-W-160120, 1/20/2016 2:00:00PM

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	**4.4**	**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)	93.6	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 17:24	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-11 | **Client Sample Name:** 1156, MW-10S-W-160120, 1/20/2016 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**5.6**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Toluene	ND	ug/L	0.30		EPA-8020	ND		1
Ethylbenzene	**15**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Total Xylenes	ND	ug/L	0.60		EPA-8020	ND		1
Gasoline Range Organics (C4 - C12)	**200**	**ug/L**	**50**		**EPA-8015B**	ND		2
a,a,a-Trifluorotoluene (PID Surrogate)	89.8	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	98.4	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 13:43	AKM	GC-V9	1	BZA1647
2	EPA-8015B	01/22/16	01/22/16 13:43	AKM	GC-V9	1	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-11 | **Client Sample Name:** 1156, MW-10S-W-160120, 1/20/2016 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	58.9	%	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	01/27/16	02/04/16 03:01	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

EPA Method 1664

BCL Sample ID: 1602101-11 | **Client Sample Name:** 1156, MW-10S-W-160120, 1/20/2016 2:00:00PM

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	01/27/16	01/27/16 09:00	MAM	MAN-SV	1	BZA2351

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1602101-11 | **Client Sample Name:** 1156, MW-10S-W-160120, 1/20/2016 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0018**	**mg/L**	**0.0010**		**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	02/02/16	02/03/16 14:38	JH2	GC-V1	1	BZB0133

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1602101-11 | **Client Sample Name:** 1156, MW-10S-W-160120, 1/20/2016 2:00:00PM

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	**33**	**mg/L**	**1.0**		**EPA-300.0**	ND		1
Iron (II) Species	**200**	**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	01/21/16	01/21/16 23:59	OLH	IC2	1	BZA1820
2	SM-3500-FeD	01/21/16	01/21/16 14:47	TDC	KONE-1	1	BZA1792

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1602101-11 | **Client Sample Name:** 1156, MW-10S-W-160120, 1/20/2016 2:00:00PM

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	01/25/16	01/26/16 03:28	ARD	PE-EL2	1	BZA2092

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-12 | **Client Sample Name:** 1156, MW-11A-W-160120, 1/20/2016 11:30:00AM

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	**2400**	**ug/L**	**25**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	500		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	12000		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	25		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	86.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 20:00	IO1	MS-V10	50	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-12 | **Client Sample Name:** 1156, MW-11A-W-160120, 1/20/2016 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**10000**	**ug/L**	**30**		**EPA-8020**	ND	**A01**	1
Toluene	**5500**	**ug/L**	**30**		**EPA-8020**	ND	**A01**	1
Ethylbenzene	**1500**	**ug/L**	**15**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**11000**	**ug/L**	**60**		**EPA-8020**	ND	**A01**	1
Gasoline Range Organics (C4 - C12)	**68000**	**ug/L**	**2500**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	89.0	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	89.2	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/23/16 03:07	AKM	GC-V9	100	BZA1647
2	EPA-8020	01/22/16	01/23/16 02:27	AKM	GC-V9	50	BZA1647
3	EPA-8015B	01/22/16	01/23/16 02:27	AKM	GC-V9	50	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-12 | **Client Sample Name:** 1156, MW-11A-W-160120, 1/20/2016 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**930**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	57.5	%	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	01/27/16	02/04/16 03:24	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1602101-12 | **Client Sample Name:** 1156, MW-11A-W-160120, 1/20/2016 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**5.2**	**mg/L**	**0.020**		**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	02/02/16	02/03/16 14:43	JH2	GC-V1	20	BZB0133

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1602101-12 | **Client Sample Name:** 1156, MW-11A-W-160120, 1/20/2016 11:30:00AM

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	**5500**	**ug/L**	**1000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	01/21/16	01/22/16 00:18	OLH	IC2	1	BZA1820
2	SM-3500-FeD	01/21/16	01/21/16 15:20	TDC	KONE-1	10	BZA1792

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1602101-12 | **Client Sample Name:** 1156, MW-11A-W-160120, 1/20/2016 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**3400**	**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	01/28/16	01/29/16 19:20	GPD	PE-EL2	2	BZA2508

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-13 | **Client Sample Name:** 1156, MW-11B-W-160120, 1/20/2016 12:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dibromoethane	ND	ug/L	12		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	12		EPA-8260B	ND	A01	1
Methyl t-butyl ether	**1900**	**ug/L**	**12**		**EPA-8260B**	ND	**A01**	1
t-Amyl Methyl ether	ND	ug/L	12		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	250		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	12		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	6200		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	12		EPA-8260B	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	79.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 19:18	IO1	MS-V10	25	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-13 | **Client Sample Name:** 1156, MW-11B-W-160120, 1/20/2016 12:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**9400**	**ug/L**	**30**		**EPA-8020**	ND	**A01**	1
Toluene	**1600**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	2
Ethylbenzene	**880**	**ug/L**	**6.0**		**EPA-8020**	ND	**A01**	2
Total Xylenes	**2300**	**ug/L**	**12**		**EPA-8020**	ND	**A01**	2
Gasoline Range Organics (C4 - C12)	**35000**	**ug/L**	**1000**		**EPA-8015B**	ND	**A01**	3
a,a,a-Trifluorotoluene (PID Surrogate)	88.8	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (PID Surrogate)	90.8	%	70 - 130 (LCL - UCL)		EPA-8020			2
a,a,a-Trifluorotoluene (FID Surrogate)	98.4	%	70 - 130 (LCL - UCL)		EPA-8015B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/23/16 00:06	AKM	GC-V9	100	BZA1647
2	EPA-8020	01/22/16	01/22/16 23:45	AKM	GC-V9	20	BZA1647
3	EPA-8015B	01/22/16	01/22/16 23:45	AKM	GC-V9	20	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-13 | **Client Sample Name:** 1156, MW-11B-W-160120, 1/20/2016 12:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**780**	**ug/L**	**40**		**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	59.6	%	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	01/27/16	02/04/16 03:46	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1602101-13 | **Client Sample Name:** 1156, MW-11B-W-160120, 1/20/2016 12:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**1.5**	**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	02/02/16	02/03/16 09:46	JH2	GC-V1	10	BZB0133

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1602101-13 | **Client Sample Name:** 1156, MW-11B-W-160120, 1/20/2016 12:15:00PM

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	**5500**	**ug/L**	**1000**		**SM-3500-FeD**	ND	**A07**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	01/21/16	01/22/16 00:36	OLH	IC2	1	BZA1820
2	SM-3500-FeD	01/21/16	01/21/16 15:20	TDC	KONE-1	10	BZA1792

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1602101-13 | **Client Sample Name:** 1156, MW-11B-W-160120, 1/20/2016 12:15:00PM

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	01/25/16	01/26/16 03:32	ARD	PE-EL2	1	BZA2092

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-14 | **Client Sample Name:** 1156, MW-11S-W-160120, 1/20/2016 1:30:00PM

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	**2.5**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	110	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/26/16 10:03	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-14 | **Client Sample Name:** 1156, MW-11S-W-160120, 1/20/2016 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**2.6**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Toluene	**0.47**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Ethylbenzene	**1.4**	**ug/L**	**0.30**		**EPA-8020**	ND		1
Total Xylenes	**0.86**	**ug/L**	**0.60**		**EPA-8020**	ND		1
Gasoline Range Organics (C4 - C12)	**270**	**ug/L**	**50**		**EPA-8015B**	ND		2
a,a,a-Trifluorotoluene (PID Surrogate)	79.9	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	96.6	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/25/16	01/25/16 09:26	AKM	GC-V9	1	BZA1647
2	EPA-8015B	01/25/16	01/25/16 09:26	AKM	GC-V9	1	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-14 | **Client Sample Name:** 1156, MW-11S-W-160120, 1/20/2016 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	54.6	%	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	01/27/16	02/04/16 04:08	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

BCL Sample ID: 1602101-14 | **Client Sample Name:** 1156, MW-11S-W-160120, 1/20/2016 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0014**	**mg/L**	**0.0010**		**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	02/02/16	02/03/16 12:18	JH2	GC-V1	1	BZB0239

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

BCL Sample ID: 1602101-14 | **Client Sample Name:** 1156, MW-11S-W-160120, 1/20/2016 1:30:00PM

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	**28**	**mg/L**	**1.0**		**EPA-300.0**	ND		1
Iron (II) Species	**440**	**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	01/21/16	01/21/16 20:04	JSW	IC2	1	BZA1820
2	SM-3500-FeD	01/21/16	01/21/16 14:47	TDC	KONE-1	1	BZA1792

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

BCL Sample ID: 1602101-14 | **Client Sample Name:** 1156, MW-11S-W-160120, 1/20/2016 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Manganese	**330**	**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	01/25/16	01/26/16 03:35	ARD	PE-EL2	1	BZA2092

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1602101-15 | **Client Sample Name:** 1156, MW-4B-W-160120, 1/20/2016 12:30:00PM

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	**1.7**	**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)	87.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	01/22/16	01/22/16 15:49	IO1	MS-V10	1	BZA1506

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1602101-15 | **Client Sample Name:** 1156, MW-4B-W-160120, 1/20/2016 12:30:00PM

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)	87.2	%	70 - 130 (LCL - UCL)		EPA-8020			1
a,a,a-Trifluorotoluene (FID Surrogate)	97.9	%	70 - 130 (LCL - UCL)		EPA-8015B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8020	01/22/16	01/22/16 13:02	AKM	GC-V9	1	BZA1647
2	EPA-8015B	01/22/16	01/22/16 13:02	AKM	GC-V9	1	BZA1647

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1602101-15 | **Client Sample Name:** 1156, MW-4B-W-160120, 1/20/2016 12:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40		EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	54.7	%	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	01/27/16	02/04/16 04:31	MWB	GC-13	1	BZB0442

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA1506						
1,2-Dibromoethane	BZA1506-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BZA1506-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZA1506-BLK1	ND	ug/L	0.50		
t-Amyl Methyl ether	BZA1506-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BZA1506-BLK1	ND	ug/L	10		
Diisopropyl ether	BZA1506-BLK1	ND	ug/L	0.50		
Ethanol	BZA1506-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BZA1506-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	**BZA1506-BLK1**	**91.4**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BZA1506-BLK1**	**102**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BZA1506-BLK1**	**103**	%	**80 - 120 (LCL - UCL)**		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA1506										
1,2-Dichloroethane-d4 (Surrogate)	BZA1506-BS1	LCS	8.7000	10.000	ug/L	87.0		75 - 125		
Toluene-d8 (Surrogate)	BZA1506-BS1	LCS	10.210	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BZA1506-BS1	LCS	10.100	10.000	ug/L	101		80 - 120		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA1506	Used client sample: N										
1,2-Dichloroethane-d4 (Surrogate)	MS	1532390-82	ND	8.7100	10.000	ug/L		87.1		75 - 125	
	MSD	1532390-82	ND	8.6200	10.000	ug/L	1.0	86.2		75 - 125	
Toluene-d8 (Surrogate)	MS	1532390-82	ND	10.400	10.000	ug/L		104		80 - 120	
	MSD	1532390-82	ND	10.390	10.000	ug/L	0.1	104		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1532390-82	ND	10.260	10.000	ug/L		103		80 - 120	
	MSD	1532390-82	ND	10.220	10.000	ug/L	0.4	102		80 - 120	

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA1647						
Benzene	BZA1647-BLK1	ND	ug/L	0.30		
Toluene	BZA1647-BLK1	ND	ug/L	0.30		
Ethylbenzene	BZA1647-BLK1	ND	ug/L	0.30		
Total Xylenes	BZA1647-BLK1	ND	ug/L	0.60		
Gasoline Range Organics (C4 - C12)	BZA1647-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (PID Surrogate)	**BZA1647-BLK1**	**87.4**	%	**70 - 130 (LCL - UCL)**		
a,a,a-Trifluorotoluene (FID Surrogate)	**BZA1647-BLK1**	**98.6**	%	**70 - 130 (LCL - UCL)**		
QC Batch ID: BZA1889						
Benzene	BZA1889-BLK1	ND	ug/L	0.30		
Toluene	BZA1889-BLK1	ND	ug/L	0.30		
Ethylbenzene	BZA1889-BLK1	ND	ug/L	0.30		
Total Xylenes	BZA1889-BLK1	ND	ug/L	0.60		
Gasoline Range Organics (C4 - C12)	BZA1889-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (PID Surrogate)	**BZA1889-BLK1**	**86.0**	%	**70 - 130 (LCL - UCL)**		
a,a,a-Trifluorotoluene (FID Surrogate)	**BZA1889-BLK1**	**94.2**	%	**70 - 130 (LCL - UCL)**		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BZA1647										
Benzene	BZA1647-BS1	LCS	37.490	40.000	ug/L	93.7		85 - 115		
Toluene	BZA1647-BS1	LCS	34.029	40.000	ug/L	85.1		85 - 115		
Ethylbenzene	BZA1647-BS1	LCS	34.303	40.000	ug/L	85.8		85 - 115		
Total Xylenes	BZA1647-BS1	LCS	102.80	120.00	ug/L	85.7		85 - 115		
Gasoline Range Organics (C4 - C12)	BZA1647-BS1	LCS	995.63	1000.0	ug/L	99.6		85 - 115		
a,a,a-Trifluorotoluene (PID Surrogate)	BZA1647-BS1	LCS	35.835	40.000	ug/L	89.6		70 - 130		
a,a,a-Trifluorotoluene (FID Surrogate)	BZA1647-BS1	LCS	39.302	40.000	ug/L	98.3		70 - 130		
QC Batch ID: BZA1889										
Benzene	BZA1889-BS1	LCS	35.926	40.000	ug/L	89.8		85 - 115		
Toluene	BZA1889-BS1	LCS	34.222	40.000	ug/L	85.6		85 - 115		
Ethylbenzene	BZA1889-BS1	LCS	34.325	40.000	ug/L	85.8		85 - 115		
Total Xylenes	BZA1889-BS1	LCS	103.10	120.00	ug/L	85.9		85 - 115		
Gasoline Range Organics (C4 - C12)	BZA1889-BS1	LCS	945.64	1000.0	ug/L	94.6		85 - 115		
a,a,a-Trifluorotoluene (PID Surrogate)	BZA1889-BS1	LCS	35.297	40.000	ug/L	88.2		70 - 130		
a,a,a-Trifluorotoluene (FID Surrogate)	BZA1889-BS1	LCS	39.580	40.000	ug/L	99.0		70 - 130		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA1647	Used client sample: N										
Benzene	MS	1532390-78	ND	36.874	40.000	ug/L		92.2		70 - 130	
	MSD	1532390-78	ND	36.975	40.000	ug/L	0.3	92.4	20	70 - 130	
Toluene	MS	1532390-78	ND	34.189	40.000	ug/L		85.5		70 - 130	
	MSD	1532390-78	ND	34.270	40.000	ug/L	0.2	85.7	20	70 - 130	
Ethylbenzene	MS	1532390-78	ND	34.124	40.000	ug/L		85.3		70 - 130	
	MSD	1532390-78	ND	34.104	40.000	ug/L	0.1	85.3	20	70 - 130	
Total Xylenes	MS	1532390-78	ND	102.48	120.00	ug/L		85.4		70 - 130	
	MSD	1532390-78	ND	102.67	120.00	ug/L	0.2	85.6	20	70 - 130	
Gasoline Range Organics (C4 - C12)	MS	1532390-78	ND	953.08	1000.0	ug/L		95.3		70 - 130	
	MSD	1532390-78	ND	989.82	1000.0	ug/L	3.8	99.0	20	70 - 130	
a,a,a-Trifluorotoluene (PID Surrogate)	MS	1532390-78	ND	35.858	40.000	ug/L		89.6		70 - 130	
	MSD	1532390-78	ND	35.524	40.000	ug/L	0.9	88.8		70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1532390-78	ND	36.550	40.000	ug/L		91.4		70 - 130	
	MSD	1532390-78	ND	39.342	40.000	ug/L	7.4	98.4		70 - 130	
QC Batch ID: BZA1889	Used client sample: N										
Benzene	MS	1532390-79	ND	37.357	40.000	ug/L		93.4		70 - 130	
	MSD	1532390-79	ND	36.690	40.000	ug/L	1.8	91.7	20	70 - 130	
Toluene	MS	1532390-79	ND	34.431	40.000	ug/L		86.1		70 - 130	
	MSD	1532390-79	ND	34.138	40.000	ug/L	0.9	85.3	20	70 - 130	
Ethylbenzene	MS	1532390-79	ND	34.256	40.000	ug/L		85.6		70 - 130	
	MSD	1532390-79	ND	34.061	40.000	ug/L	0.6	85.2	20	70 - 130	
Total Xylenes	MS	1532390-79	ND	102.46	120.00	ug/L		85.4		70 - 130	
	MSD	1532390-79	ND	102.24	120.00	ug/L	0.2	85.2	20	70 - 130	
Gasoline Range Organics (C4 - C12)	MS	1532390-79	ND	963.50	1000.0	ug/L		96.3		70 - 130	
	MSD	1532390-79	ND	904.49	1000.0	ug/L	6.3	90.4	20	70 - 130	
a,a,a-Trifluorotoluene (PID Surrogate)	MS	1532390-79	ND	34.851	40.000	ug/L		87.1		70 - 130	
	MSD	1532390-79	ND	35.150	40.000	ug/L	0.9	87.9		70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1532390-79	ND	38.219	40.000	ug/L		95.5		70 - 130	
	MSD	1532390-79	ND	39.513	40.000	ug/L	3.3	98.8		70 - 130	

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZB0442						
Diesel Range Organics (C12 - C24)	BZB0442-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	**BZB0442-BLK1**	**51.1**	%	**40 - 140 (LCL - UCL)**		
Capric acid (Reverse Surrogate)	BZB0442-BLK1	0	%	0 - 1 (LCL - UCL)		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZB0442										
Diesel Range Organics (C12 - C24)	BZB0442-BS1	LCS	209.33	500.00	ug/L	41.9		20 - 110		Q03
Tetracosane (Surrogate)	BZB0442-BS1	LCS	9.6480	20.000	ug/L	48.2		40 - 140		
Capric acid (Reverse Surrogate)	BZB0442-BS1	LCS	ND	20.000	ug/L	0		0 - 1		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZB0442	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1532390-99	ND	255.18	500.00	ug/L		51.0		20 - 110	Q03
	MSD	1532390-99	ND	279.44	500.00	ug/L	9.1	55.9	30	20 - 110	Q03
Tetracosane (Surrogate)	MS	1532390-99	ND	11.979	20.000	ug/L		59.9		40 - 140	
	MSD	1532390-99	ND	13.063	20.000	ug/L	8.7	65.3		40 - 140	
Capric acid (Reverse Surrogate)	MS	1532390-99	ND	ND	20.000	ug/L		0		0 - 1	
	MSD	1532390-99	ND	ND	20.000	ug/L		0		0 - 1	

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA2351						
Oil and Grease	BZA2351-BLK1	ND	mg/L	5.0		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA2351										
Oil and Grease	BZA2351-BS1	LCS	39.150	42.900	mg/L	91.3		78 - 114		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA2351	Used client sample: N										
Oil and Grease	DUP	1532390-50	ND	ND		mg/L			18		
	MS	1532390-50	ND	36.700	42.900	mg/L		85.5		78 - 114	
	MSD	1532390-50	ND	38.550	42.900	mg/L	4.9	89.9	18	78 - 114	

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Gas Testing in Water

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZB0133						
Methane	BZB0133-BLK1	ND	mg/L	0.0010		
QC Batch ID: BZB0239						
Methane	BZB0239-BLK1	ND	mg/L	0.0010		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZB0133										
Methane	BZB0133-BS1	LCS	0.0099171	0.010843	mg/L	91.5		80 - 120		
	BZB0133-BSD1	LCSD	0.0096153	0.010843	mg/L	88.7	3.1	80 - 120	20	
QC Batch ID: BZB0239										
Methane	BZB0239-BS1	LCS	0.010636	0.010843	mg/L	98.1		80 - 120		
	BZB0239-BSD1	LCSD	0.0099105	0.010843	mg/L	91.4	7.1	80 - 120	20	

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA1792						
Iron (II) Species	BZA1792-BLK1	ND	ug/L	100		
QC Batch ID: BZA1820						
Nitrate as NO3	BZA1820-BLK1	ND	mg/L	0.44		
Sulfate	BZA1820-BLK1	ND	mg/L	1.0		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA1792										
Iron (II) Species	BZA1792-BS1	LCS	2567.2	2500.0	ug/L	103		90 - 110		
QC Batch ID: BZA1820										
Nitrate as NO3	BZA1820-BS1	LCS	22.010	22.134	mg/L	99.4		90 - 110		
Sulfate	BZA1820-BS1	LCS	99.770	100.00	mg/L	99.8		90 - 110		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BZA1792	Used client sample: Y - Description: MW-3B-W-160120, 01/20/2016 13:10										
Iron (II) Species	DUP	1602101-04	1414.6	1421.2		ug/L	0.5		10		
QC Batch ID: BZA1820	Used client sample: Y - Description: MW-11S-W-160120, 01/20/2016 13:30										
Nitrate as NO3	DUP	1602101-14	ND	ND		mg/L			10		
	MS	1602101-14	ND	21.651	22.358	mg/L		96.8		80 - 120	
	MSD	1602101-14	ND	21.687	22.358	mg/L	0.2	97.0	10	80 - 120	
Sulfate	DUP	1602101-14	27.708	27.750		mg/L	0.2		10		
	MS	1602101-14	27.708	132.61	101.01	mg/L		104		80 - 120	
	MSD	1602101-14	27.708	132.54	101.01	mg/L	0.0	104	10	80 - 120	

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA2092						
Dissolved Manganese	BZA2092-BLK1	ND	ug/L	1.0		
QC Batch ID: BZA2508						
Dissolved Manganese	BZA2508-BLK1	ND	ug/L	1.0		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA2092										
Dissolved Manganese	BZA2092-BS1	LCS	100.19	100.00	ug/L	100		85 - 115		
QC Batch ID: BZA2508										
Dissolved Manganese	BZA2508-BS1	LCS	101.06	100.00	ug/L	101		85 - 115		

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

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: BZA2092	Used client sample: N										
Dissolved Manganese	DUP	1602063-04	0.34600	ND		ug/L			20		
	MS	1602063-04	0.34600	94.324	102.04	ug/L		92.1		70 - 130	
	MSD	1602063-04	0.34600	93.311	102.04	ug/L	1.1	91.1	20	70 - 130	
QC Batch ID: BZA2508	Used client sample: N										
Dissolved Manganese	DUP	1602563-01	385.11	388.31		ug/L	0.8		20		
	MS	1602563-01	385.11	490.63	102.04	ug/L		103		70 - 130	
	MSD	1602563-01	385.11	486.60	102.04	ug/L	0.8	99.5	20	70 - 130	

AECOM
1220 Avenida Acaso
Camarillo, CA 93012

Reported: 02/04/2016 14:06
Project: 1156
Project Number: 351645
Project Manager: Chad Roper

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
A52	Chromatogram not typical of diesel.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

ATTACHMENT F

ADJACENT SITE MONITORING DATA - FORMER SHELL SERVICE STATION NO. 13-5701, 4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

TABLE 1
GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	Ethanol (µg/L)	TOC (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	SPH Thickness (ft)	DO Reading (mg/L)	ORP Reading (mV)
MW-1	01/20/2016	1300 i	6.4	<5.0	<5.0	<10	---	1,400	450	---	---	---	---	---	---	175.76	6.81	168.95	0.00	---	---
MW-2	02/22/2016	SPH in well - no sample taken														170.88	9.72	161.19	0.04	---	---
MW-3	01/20/2016	21,000	2,000	<25	840	690	---	660	770 j	---	---	---	---	---	---	174.59	9.95	164.64	0.00	---	---
MW-4	01/20/2016	5,500	20	6.1	120	360	---	41	<25	---	---	---	---	---	---	164.03	5.70	158.33	0.00	---	---
MW-5	01/20/2016	<50	<0.50	<0.50	<0.50	<1.0	---	1.1	<10	---	---	---	---	---	---	164.14	4.80	159.34	0.00	---	---
MW-6	01/20/2016	1,100	82	1.8	0.89	4.0	---	32	1,500	---	---	---	---	---	---	169.89	6.90	158.82	0.00	---	---
MW-7	02/22/2016	650	90	<5.0	<5.0	18	---	480	1,100	---	---	---	---	---	---	170.87	7.43	163.44	0.00	---	---
MW-8	01/20/2016	120 i	<0.50	<0.50	<0.50	<1.0	---	130	<10	---	---	---	---	---	---	174.13	3.66	170.47	0.00	---	---
MW-9	01/20/2016	130 i	0.61	<0.50	<0.50	<1.0	---	130	18	---	---	---	---	---	---	175.20	5.87	169.33	0.00	---	---

Notes:
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8015 unless otherwise noted.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether analyzed by method as noted
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
Ethanol analyzed by EPA Method 8260B
TOC = Top of casing elevation, in feet relative to mean sea level
SPH = Separate-phase hydrocarbon
GW = Groundwater
DO = Dissolved oxygen
ORP = Oxidation reduction potential
µg/L = Micrograms per liter
ft = Feet
AMSL = Above mean sea level
mg/L = Milligrams per liter
mV = Millivolts
<X.XX = Not detected at reporting limit X.XX
--- = Not analyzed or not available
(D) = Duplicate sample

a = Groundwater surface had a sheen when sampled.
b = MTBE value is estimated by laboratory
c = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
d = Secondary ion abundances were outside method requirements. Identification based on analytical judgment.
e = pH>2
f = Sample analyzed outside the EPA recommended holding time.

TABLE 1
GROUNDWATER DATA
FORMER SHELL SERVICE STATION
4255 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Well ID	*Date*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*EDB (µg/L)*	*1,2-DCA (µg/L)*	*Ethanol (µg/L)*	*TOC (ft AMSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft AMSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*	*ORP Reading (mV)*

g = Analyzed by EPA Method 8015B (M).
h = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
i = TPHg concentration is due to the presence of a discrete peak of MTBE.
j = Analyte identified by RT & presence of single mass ion.

When SPHs are present, groundwater elevation is adjusted using the relation: Corrected groundwater elevation = TOC - Depth to Water + (0.8 x Hydrocarbon Thickness).
Site wells surveyed March 14, 2002 by Virgil Chavez Land Surveying
Wells MW-6, MW-7, MW-8 and MW-9 surveyed July 12, 2006 by Virgil Chavez Land Surveying