Carryl MacLeod
Project Manager, Marketing Business Unit

Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Texaco Service Station No. 359766
2700 23rd Avenue
Oakland, California
ACEH Case RO0003098

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached *Second Quarter 2017 Groundwater Monitoring and Sampling Report* submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(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,

Carryl MacLeod
Project Manager

Attachment: *Second Quarter 2017 Groundwater Monitoring and Sampling Report*

Chevron Environmental Management Company
6001 Bollinger Canyon Road, San Ramon, CA 94583
Tel 925 842 3201
CarrylMacLeod@chevron.com

August 10, 2017 Reference No. 062086

Ms. Karel Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Second Quarter 2017 Groundwater Monitoring and Sampling Report
Former Texaco Service Station 359766
2700 23rd Avenue
Oakland, California
ACEH Case RO0003098

Dear Ms. Detterman:

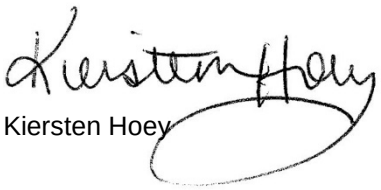
GHD is submitting this *Second Quarter 2017 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (CEMC). Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California and their *Second Quarter 2017 Monitoring Report* is included as Attachment A. Current and historical groundwater monitoring and sampling data are summarized in Table 1 and presented on Figure 2. Eurofins Lancaster Laboratory Environmental, LLCs' of Lancaster, Pennsylvania, *Analytical Results* report is included as Attachment B.

GHD
5900 Hollis Street Suite A Emeryville California 94608 USA
T 510 420 0700 **F** 510 420 9170 **W** www.ghd.com

Please contact Kiersten Hoey (510) 420 3347 if you have any questions or require additional information.

Cordially,

GHD



Kiersten Hoey

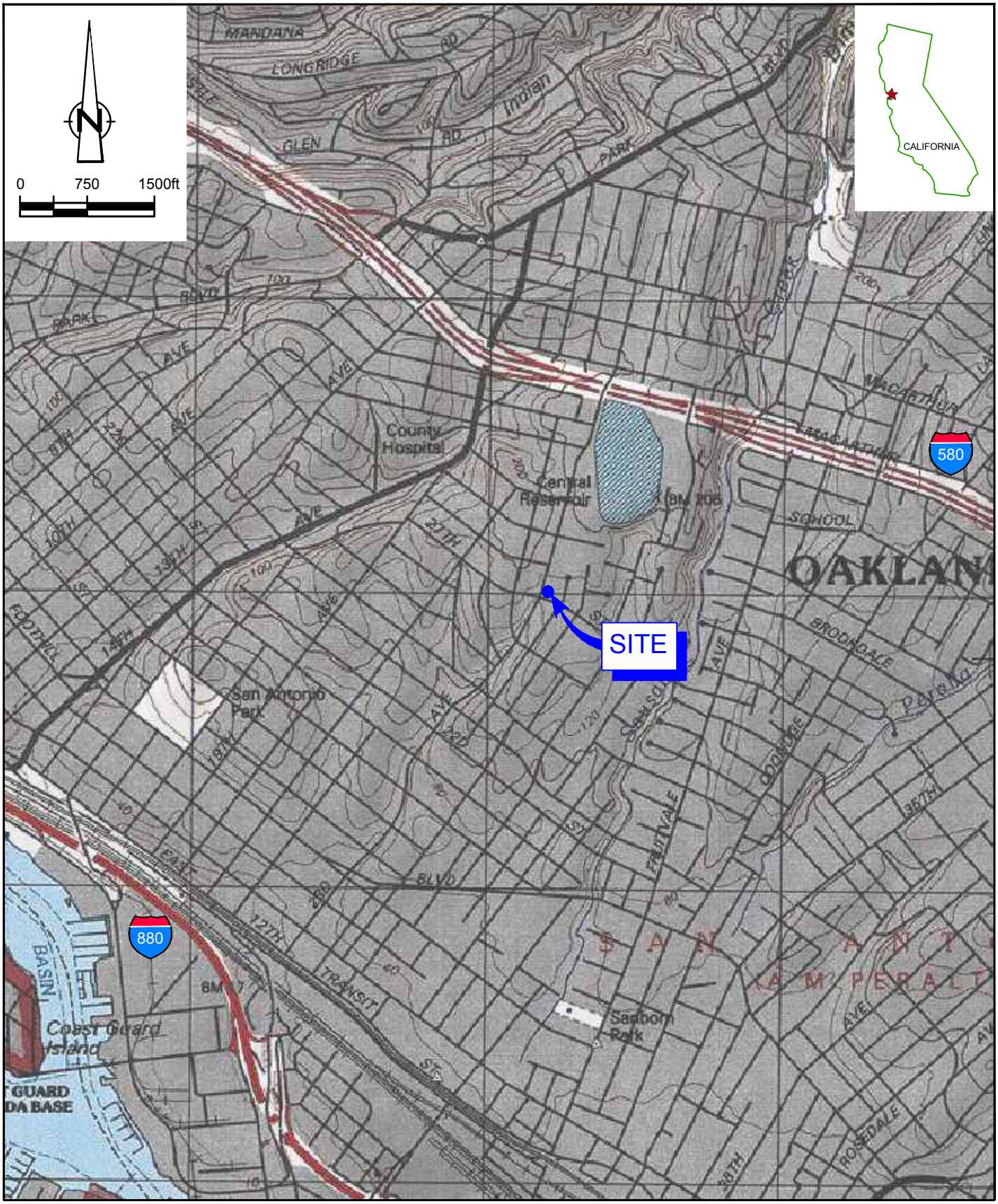
Ana Friel, PG 6452

KH/cw/15
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report

cc: Ms. Carryl MacLeod, Chevron EMC *(electronic copy)*
Pedro and Maria Pulildo, Property Owner

Figures



SOURCE: TOPO! MAPS

FORMER TEXACO STATION 359766
2700 23rd AVENUE
OAKLAND, CALIFORNIA

62086-95

Aug 4, 2017

VICINITY MAP

FIGURE 1

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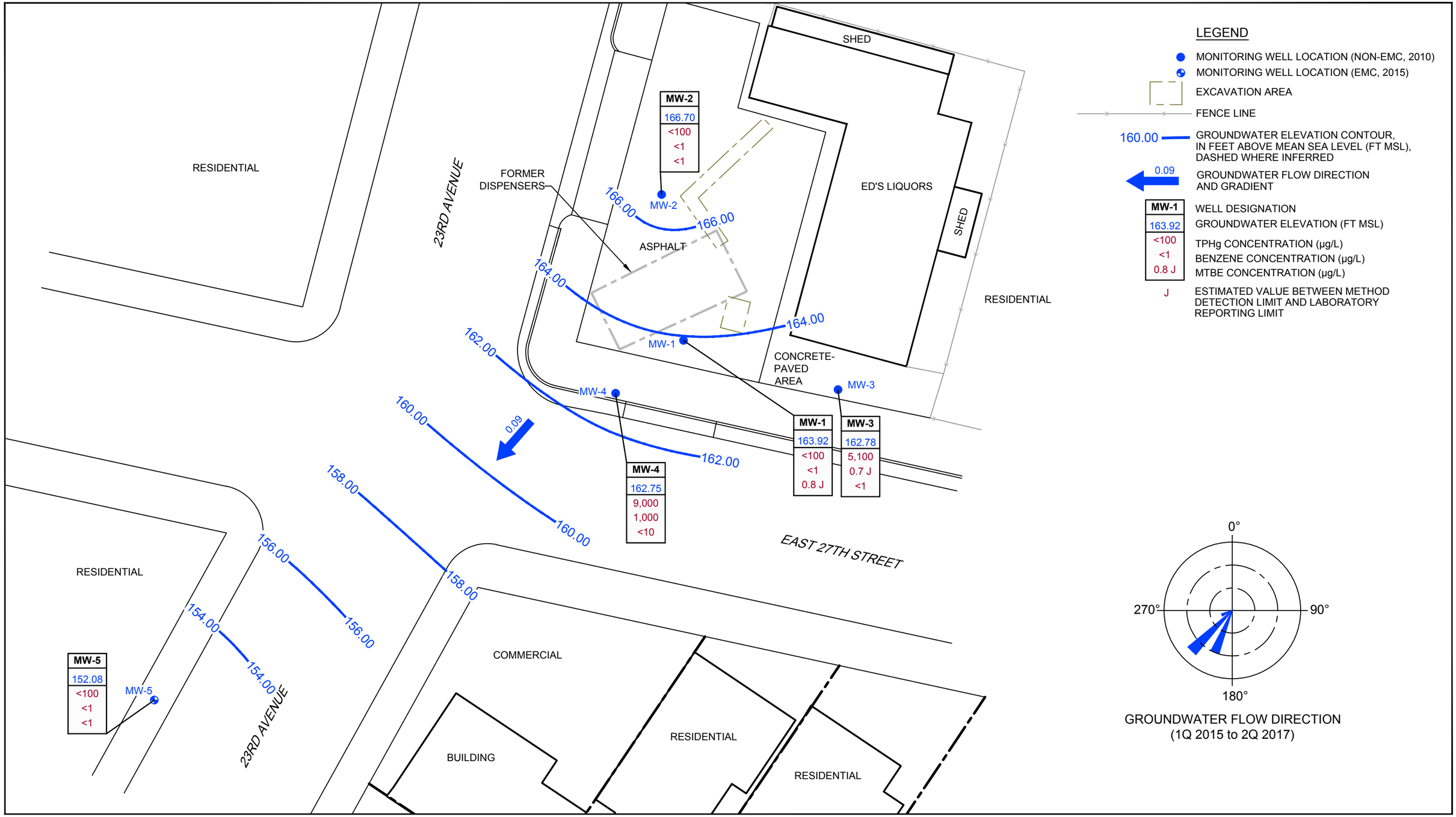

SOURCE: WELL LOCATIONS BASED ON GEO COORDINATES CONVERTED TO US SURVEY FEET STATE PLAN CA ZONE 3, BY MORROW SURVEYING IN FEB 24, 2015

FORMER TEXACO STATION 359766
2700 23rd AVENUE
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - JUNE 20, 2017

62086-95

Aug 9, 2017

FIGURE 2

CAD File: P:\drawings\62000s\62086\62086-REPORTS\62086-95(015)\62086-95(015)GN\62086-95(015)GN-WA002.DWG

Table

Table 1

Groundwater Monitoring and Sampling Data
Former Texaco Service Station 359766 (Ed's Liquors)
2700 23rd Avenue
Oakland, California

					HYDROCARBONS			VOCS												
Location	Date	TOC[a]	DTW	GWE	TPH-MO	TPH-DRO	TPH-GRO	B	T	E	X	MTBE by SW8260	Naphthalene	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	ADDITIONAL
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	11/18/2010[1]	168.84	7.93	160.91	<250	<50	--	--	--	--	--	1.3	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	02/14/2012[1]	168.84	7.31	161.53	--	<50	<50	<0.50	<0.50	<0.50	<0.50	1.2	--	--	--	--	--	--	--	--
	03/13/2015	168.90	12.11	156.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2015	168.90	11.31	157.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/29/2015	168.90	10.83	158.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/22/2015	168.90	6.44	162.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/28/2016	168.90	6.08	162.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2016	168.90	5.41	163.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2016	168.90	5.79	163.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/2016	168.90	7.72	161.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/07/2017	168.90	5.20	163.70	--	--	<100	4	0.6 J	<1	0.6 J	0.9 J	--	--	--	--	--	--	--	
	06/20/2017	**168.90**	**4.98**	**163.92**	**<120**	**<100**	**<100**	**<1**	**<1**	**<1**	**<1**	**0.8 J**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-2	11/18/2010[1]	170.33	7.52	162.81	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	02/14/2012[1]	170.33	6.37	163.96	--	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--
	03/13/2015	170.41	8.10	162.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2015	170.41	6.92	163.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/29/2015	170.41	7.95	162.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/22/2015	170.41	4.49	165.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/28/2016	170.41	3.83	166.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2016	170.41	3.71	166.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2016	170.41	4.77	165.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/2016	170.41	5.92	164.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/07/2017	170.41	2.94	167.47	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	
	06/20/2017	**170.41**	**3.71**	**166.70**	**<120**	**<100**	**<100**	**<1**	**<1**	**<1**	**<1**	**<1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3	11/18/2010[1]	168.67	5.14	161.15	<250	2,100	3,700	<0.5	<0.5	<0.5	0.84	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	3.0[g] 0.68[d] 2.0[e] 2.2[h] 6.6[f]
	02/14/2012[1]	168.67	4.98	163.69	--	<1,500	3,400	<0.50	<0.50	1.2	<0.50	<0.50	--	--	--	--	--	--	--	--
	03/13/2015	168.71	6.50	162.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2015	168.71	5.93	162.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/29/2015	168.71	6.98	161.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/22/2015	168.71	8.01	160.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/28/2016	168.71	7.04	161.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2016	168.71	7.14	161.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2016	168.71	9.81	158.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/2016	168.71	8.97	159.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/07/2017	168.71	5.13	163.58	--	--	4,400	0.5 J	0.7 J	3	1	<1	--	--	--	--	--	--	--	
	06/20/2017	**168.71**	**5.93**	**162.78**	**<120**	**980**	**5,100**	**0.7 J**	**1 J**	**5**	**3**	**<1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 1

Groundwater Monitoring and Sampling Data
Former Texaco Service Station 359766 (Ed's Liquors)
2700 23rd Avenue
Oakland, California

					HYDROCARBONS			VOCS												
Location	Date	TOC[a]	DTW	GWE	TPH-MO	TPH-DRO	TPH-GRO	B	T	E	X	MTBE by SW8260	Naphthalene	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	ADDITIONAL
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	11/18/2010[1]	168.40	--	--	<250	2,800	26,000	2,800	1,500	550	3,100	<0.5	210	<200	<50	<50	<50	<50	<50	790[i] 210[j]
	02/14/2012[1]	168.40	6.45	161.95	--	<3,000	27,000	1,500	660	520	1,500	<5.0	--	--	--	--	--	--	--	--
	03/13/2015	168.47	10.70	157.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2015	168.47	9.63	158.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/29/2015	168.47	11.04	157.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/22/2015	168.47	10.31	158.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/28/2016	168.47	9.32	159.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2016	168.47	8.38	160.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/08/2016	168.47	8.60	159.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/2016	168.47	10.21	158.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/07/2017	168.47	6.70	161.77	--	--	16,000	1,300	220	380	560	<10	--	--	--	--	--	--	--	
	06/20/2017	**168.47**	**5.72**	**162.75**	**<120**	**670**	**9,000**	**1,000**	**140**	**210**	**250**	**<10**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-5	02/26/2015[2]	162.42	17.81	144.61	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	03/13/2015	162.42	16.48	145.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/19/2015	162.42	10.92	151.50	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	09/29/2015	162.42	12.29	150.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	12/22/2015	162.42	13.46	148.96	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
	03/28/2016	162.42	8.22	154.20	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	06/19/2016	162.42	9.18	153.24	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	09/08/2016	162.42	10.78	151.64	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	12/16/2016	162.42	10.99	151.43	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--
	03/07/2017	162.42	10.85	151.57	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	
	06/20/2017	**162.42**	**10.34**	**152.08**	**<120**	**<110**	**<100**	**<1**	**<1**	**<1**	**<1**	**<1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

Table 1

Groundwater Monitoring and Sampling Data
Former Texaco Service Station 359766 (Ed's Liquors)
2700 23rd Avenue
Oakland, California

					HYDROCARBONS			VOCS												
Location	Date	TOC[a]	DTW	GWE	TPH-MO	TPH-DRO	TPH-GRO	B	T	E	X	MTBE by SW8260	Naphthalene	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	ADDITIONAL
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

Abbreviations and Notes:

-- = Not analyzed

<x and ND = Not detected above the method detection limit x.

Total purgeable petroleum hydrocarbons (TPPH) by EPA Method 8260B

Total petroleum hydrocarbons as motor oil (TPHmo) and TPH as diesel (TPHd) by modified EPA Method 8015B with silica gel cleanup

Total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015B

Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8260B

Methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), 1,2 dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), tertiary butyl alcohol (TBA), naphthalene by EPA Method 8260B

Volatile organic copmounds (VOCs) by EPA Method 8260B

a = Top of casing elevation was surveyed by Morrow Surveying on February 24, 2015; coordinates are California State Plan Zone 3, from GPS observation using CSDS virtual survey network, coordinate datum is NAD 83, reference geoid is GEOID03, and vertical datus is NAVD 88 from GPS observations. Prior to 2015, a survey was completed by licensed surveyor Ty Hawkins on December 20, 2010; based on California Coordinate System NAD 83, Zone III (2002.00), and elevations based on NAVD 88.

b = n-butyl benzene

c = 4-isopropyl toluene

d = Sec-butyl benzene

e = Isopropylbenzene

f = n-propyl benzene

g = 2-butanone

h = 4-methyl-2-pentanone

i = 1,2,4-trimethylbenzene

j = 1,3,5-trimethylbenzene

1 = Sampled by previous consultant

2 = Well development

Attachment A
Monitoring Data Package

WELL GAUGING DATA

Project # 170620-WM1 Date 6-20-17 Client CHEVRON

Site 2700 23RD AVE, OAKLAND, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or ~~TOC~~	Notes
MW-1	1146	2					4.98	19.68		
MW-2	1134	2					3.71	19.55		
MW-3	1142	2					5.93	19.74		
MW-4	1139	2	ODR				5.72	19.60		
MW-5	1153	2					10.34	19.73		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170620-mw1	Client: CHEVRON
Sampler: WW	Start Date: 6-20-17
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.68	Depth to Water Pre: 4.98 Post: 5.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other ____

Sampling Method: (Dedicated Tubing) | Disp Bailer | New Tubing | Other ____

Flow Rate: 100 mL/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1415	24.8	7.71	1140	35	0.52	-22.7	300	4.99
1418	26.8	7.67	1128	28	0.42	-24.3	600	4.99
1421	27.1	7.66	1156	26	0.46	-25.7	900	5.31
~~1424~~ 1424 (MW)	26.6	7.64	1099	16	0.39	-24.7	1200	5.30
1427	25.8	7.57	1072	15	0.36	-24.7	1500	5.30
1430	26.6	7.50	1032	16	0.28	-24.2	1800	5.30
1433	27.4	7.45	1032	15	0.28	-24.2	2100	5.30
1436	26.9	7.40	1017	16	0.26	-23.7	2400	5.30

Did well dewater? Yes (No) Amount actually evacuated: 2400 gals. or (ml)

Sampling Time: 1440 Sampling Date: 6-20-17

Sample I.D.: MW-1-W-17 20016 Laboratory: LANCASTER

Analyzed for: ~~TPH-G~~ ~~BTEX~~ MTBE ~~TPH-D~~ (TPH-MO) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170620-WW1	Client: CHEVRON
Sampler: WW	Start Date: 6-20-17
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.55	Depth to Water Pre: 3.71 Post: 4.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other____

Sampling Method: Dedicated Tubing | Disp Bailer | (New Tubing) | Other____

Flow Rate: 100 mL/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1338	25.5	7.51	1187	37	0.82	-15.2	300	3.86
1341	26.3	7.59	1189	37	0.49	-17.3	600	4.03
1344	25.5	7.64	1182	35	0.48	-20.5	900	4.03
1347	25.0	7.69	1186	37	0.45	-23.7	1200	4.03

Did well dewater? Yes (No) Amount actually evacuated: 1200 gals. or (ml)

Sampling Time: 1350 Sampling Date: 6-20-17

Sample I.D.: MW-2-W-172006 Laboratory: LANCASTER

Analyzed for: ~~TPH-G~~ BTEX MTBE ~~TPH-D~~ (TPH-mo) Other: See SOW

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170620-WW1	Client: CHEVRON
Sampler: MW	Start Date: 6-20-17
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.74	Depth to Water Pre: 5.93 Post: 6.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other ____

Sampling Method: (Dedicated Tubing) | Disp Bailer | New Tubing | Other ____

Flow Rate: 100 mL/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1255	23.4	7.34	776	86	0.24	-52.0	300	6.01
1258	23.9	7.32	777	86	0.32	-53.7	600	6.09
1301	24.8	7.22	792	34	0.49	-61.7	900	6.17
1304	24.2	7.16	784	34	0.47	-66.2	1200	6.25
1307	24.5	7.11	786	31	0.45	-70.2	1500	6.25

Did well dewater? Yes (No) Amount actually evacuated: 1500 (gals. or ml)

Sampling Time: 1310 Sampling Date: 6-20-17

Sample I.D.: MW-3-W-172006 Laboratory: LANCASTER

Analyzed for: (TPH-G BTEX MTBE TPH-D) (Other: TPH-MO)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170620-MW1	Client: CHEVRON
Sampler: MW	Start Date: 6-20-17
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: ~~19.60~~ (MW) 19.60	Depth to Water Pre: 5.72 Post: 6.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PDS

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other ____

Sampling Method: Dedicated Tubing | Disp Bailer | (New Tubing) | Other ____

Flow Rate: 100 ml/min Pump Depth: 18'

Time	Temp. (°C or °F)	pH	Cond. (mS or ~~uS~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1457	24.4	7.33	1674	13	0.57	-2.5	300	5.87 /odor
1500	26.4	7.28	1704	9	0.82	-9.8	600	6.04 /odor
1503	28.9	7.24	1847	7	0.72	-24.7	900	6.04 /odor
1506	29.5	7.21	1910	9	0.57	-33.7	1200	6.04 /odor
1509	29.1	7.20	1903	9	0.54	-38.0	1500	6.04 /odor
1512	29.0	7.19	1890	10	0.52	-42.0	1800	6.04 /odor

Did well dewater? Yes (No) Amount actually evacuated: 1800 gals. or (ml)

Sampling Time: 1515 Sampling Date: 6-20-17

Sample I.D.: MW-4-W-170006 Laboratory: LANCASTER

Analyzed for: (~~TPH-MO~~ TPH-G BTEX MTBE TPH-D) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 170620-WW1	Client: CHEVRON
Sampler: WW	Start Date: 6-20-17
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.73	Depth to Water Pre: ~~10.34~~ 10.34 Post: 10.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" Grundfos Pump | Watterra | (Peristaltic Pump) | Bladder Pump | Other ____

Sampling Method: (Dedicated Tubing) | Disp Bailer | New Tubing | Other ____

Flow Rate: 100 mL/min | Pump Depth: 18

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1202	22.5	8.13	1316	54	0.82	-19.7	300	10.45
1205	23.0	8.10	1319	27	0.74	-22.1	600	10.56
1208	22.5	8.04	1347	26	0.74	-32.0	900	10.67
1211	22.7	7.94	1324	24	0.78	-39.8	1200	10.66
1214	22.4	7.91	1320	23	0.68	-43.0	1500	10.66
1217	22.1	7.88	1310	22	0.65	-45.2	1800	10.66
1220	22.6	7.83	1302	22	0.62	-48.9	2100	10.66

Did well dewater? Yes (No) Amount actually evacuated: 2100 gals. or ml

Sampling Time: 1225 Sampling Date: 6-20-17

Sample I.D.: MW-5-W-172006 Laboratory: LANCASTER

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) (TPH-mo) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

~~QA-C-1115~~

QA-T-172006 C 1115

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd.■ San Ramon, CA 94583 COC 1 of 1

Chevron Site Number: 359766
Chevron Site Global ID: T060000004218
Chevron Site Address: 2700 23rd Ave., Oakland, CA
Chevron PM: Carryl MacLeod
Chevron PM Phone No.: (925) 790-3964
☒ Retail and Terminal Business Unit (RTBU) Job
☒ Construction/Retail Job

Chevron Consultant: GHD
Address: 5900 Hollis St., Suite A, Emeryville, CA
Consultant Contact: Kiersten Hoey
Consultant Phone No. 510-420-3347
Consultant Project No. 170620-WW1
Sampling Company: Blaine Tech Services
Sampled By (Print): William Wong
Sampler Signature: WW

Charge Code: NWRTB-0098247-0-OML
NWRTB 00SITE NUMBER-0- WBS
(WBS ELEMENTS:
SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L

THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Calscience
☒ Garden Grove, CA
Lab Contact: Vikas Patel
7440 Lincoln Way, Garden Grove, CA 92841
Phone No: (717)895-5494

Other Lab

Temp. Blank Check
Time / Temp.
1115 / 3°C
1315 / 3°C
1515 / 3°C

ANALYSES REQUIRED

SAMPLE ID							EPA 8260B/GC/MS BTEX ☒ MTBE ☒ OXYGENATES☐ HVOC☐	EPA 8015 TPH-G ☒	EPA 8015 TPH-D ☒	EPA 8015 TPH-MO ☒								Preservation Codes
Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	H	H										H =HCL T= Thiosulfate N =HNO_3 B = NaOH S = H_2SO_4 O = Other
MW-1-W-172006	W		170620	1440	10	various	X	X	X	X								Special Instructions Must meet lowest detection limits possible for 8260 compounds. Run TPH-D and TPH-MO with silica gel cleanup
MW-2-W-172006				1350	10		X	X	X	X								
MW-3-W-172006				1310	10		X	X	X	X								
MW-4-W-172006				1515	10		X	X	X	X								
MW-5-W-172006	↓			1225	10	↓	X	X	X	X								
QA-T-172006	T		↓	1115	~~2~~	HCl vials	X	X										Notes/Comments

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
WW	Blaine Tech Services	6-20-17 1645	WW	Blaine Tech Services	6-20-17 1645
WW	Blaine Tech Services	1800			

Turnaround Time:
Standard☒ 24 Hours☐ 48 hours☐ 72 Hours☐ Other☐

Sample Integrity: (Check by lab on arrival)
Intact: ____ On Ice: ____ Temp: ____

COC #

SHIPPED VIA FEDEX

WELLHEAD INSPECTION CHECKLIST

Date 6-20-17 Client CHEVRON

Site Address 2700 23RD AVE, OAKLAND, CA

Job Number 170620-WW1 Technician WW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1							X	
MW-2							X	
MW-3	X							
MW-4	X							
MW-5	X							

NOTES: MW-2: APRON CRACKED. MW-1: APRON CRACKED.

CHEVRON-NORTHERN CALIFORNIA TYPE **A** BILL OF LADING BILL OF LADING No._____

SOURCE RECORD **BILL OF LADING**

FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN SAN JOSE, CALIFORNIA FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 1680 Rogers Ave. San Jose CA (408) 573-0555). BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

35-9766 KIERSTEN HOEY
CHEVRON # Chevron Engineer

2700 23RD AVE OAKLAND CA
street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	10.7		
MW-2	10.3		
MW-3	10.4		
MW-4	10.5		
MW-5	10.6		

added equip. rinse water 10.5

any other adjustments /

TOTAL GALS. RECOVERED 3

loaded onto BTS vehicle # 100

BTS event # 170620-WW1 time 1535 date 6/20/17

Transporter signature

****

REC'D AT BTS-SJ time 1630 date 6/20/17

Unloaded/received by signature

Blaine Tech Services, Inc.

Permit To Work

for Chevron EMC Sites

Client: CHEVRON Date 6-20-17

Site Address: 2700 23RD AVE, OAKLAND, CA

Job Number: 170620-WW1 Technician(s): ww

Pre-Job Safety Review

1. JMP reviewed, site restrictions and parking/access issues addressed. Reviewed: ☒

2. Special Permit Required Task Review

Are there any conditions or tasks that would require:	Yes	No
Confined space entry	☐	☒
Working at height	☐	☒
Lock-out/Tag-out	☐	☒
Excavations greater than 4 feet deep	☐	☒
Excavations within 3 feet of a buried active electrical line or product piping or within 10 feet of a high pressure gas line.	☐	☒
Use of overhead equipment within 15 feet of an overhead electrical power line or pole supporting one	☐	☒
Hot work	☐	☒

If "Yes" was the answer to any of the Special Permit Required Tasks above, the Project Manager will contact the client and arrange to modify the Scope of Work so that the Special Permit Required Tasks are not required to be performed by Blaine Tech Services employees.

	Yes	No
3. Is a Traffic Control Permit required for today's work?	☐	☒
If so is it in the folder?	☐	☐
Is it current?	☐	☐
Do you understand the Traffic Control Plan and what equipment you will need?	☒	☐

On site Pre-Job Safety Review

1. Reviewed and signed the site specific HASP.	☒
2. Route to hospital understood.	☒
3. Reviewed "Groundwater Monitoring Well Sampling General Job Safety Analysis included in the HASP.	☒
4. Exceptional circumstances today that are not covered by the HASP, JSA or JMP have been addressed and mitigated.	☒
5. Understands procedure to follow, if site circumstances change, to address new site hazards.	☒
6. There are no unexpected conditions which would make your task a Special Permit Required Task. If there is, contact your Project Manager.	☒
7. All site hazards have been communicated to all necessary onsite personnel during tailgate safety meeting.	☒
8. After lunch tailgate safety meeting refresher conducted.	☒

If Checklist Task cannot be completed, explain:

Permit To Work Authority: ROSS MIKOLICH (Name) PROJECT MGR. (Title) 6-20-17 (Date) 1115 (Time)

Attachment B
Laboratory Analytical Report

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Report Date: July 27, 2017

Project: 359766

Submittal Date: 06/21/2017
Group Number: 1816175
PO Number: 0015235605
Release Number: CMACLEOD

State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
MW-1-W-170620 NA Water	9061204
MW-2-W-170620 NA Water	9061205
MW-3-W-170620 NA Water	9061206
MW-4-W-170620 NA Water	9061207
MW-5-W-170620 NA Water	9061208
QA-T-170620 NA Water	9061209

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	Blaine Tech Services, Inc.	Attn: Ross Mikovich
Electronic Copy To	GHD	Attn: Kiersten Hoey
Electronic Copy To	Chevron	Attn: Anna Avina
Electronic Copy To	Chevron	Attn: Report Contact

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: MW-1-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061204
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 14:40 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O01

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.8	J	0.5	1	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.		50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
12917	DRO C10-C28 w/ SiGel	n.a.	N.D.		45	100	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the sample surrogate(s) is compliant. The recovery for a target analyte(s) in the LCSD is outside the QC acceptance limits as noted on the QC Summary. All results are reported from the second trial per client request.

GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**ug/l**		**ug/l**	**ug/l**	
10006	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.		39	120	1
10006	Total TPH w/Si Gel	n.a.	N.D.		39	120	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.
The reverse surrogate, capric acid, is present at <1%.

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F171771AA	06/26/2017 17:17	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F171771AA	06/26/2017 17:17	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17178B20A	06/27/2017 14:25	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061204
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 14:40 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	17178B20A	06/27/2017 14:25	Brett W Kenyon	1
12917	DRO 250mL w/ 10g SiGel	SW-846 8015B	1	171870004A	07/12/2017 20:26	Amy Lehr	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	171780007A	06/30/2017 16:53	Timothy M Emrick	1
12923	Mini-Ext. DRO, Column SiGel	SW-846 3510C	2	171870004A	07/06/2017 16:29	Christine E Gleim	1
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	171780007A	06/27/2017 17:30	Ryan J Dowdy	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061205
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 13:50 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12917	DRO C10-C28 w/ SiGel	n.a.	N.D.	45	100	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the sample surrogate(s) is compliant. The recovery for a target analyte(s) in the LCSD is outside the QC acceptance limits as noted on the QC Summary. All results are reported from the second trial per client request.

GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
10006	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	39	120	1
10006	Total TPH w/Si Gel	n.a.	N.D.	39	120	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.
The reverse surrogate, capric acid, is present at <1%.

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F171771AA	06/26/2017 17:39	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F171771AA	06/26/2017 17:39	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17178B20A	06/27/2017 14:53	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061205
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 13:50 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	17178B20A	06/27/2017 14:53	Brett W Kenyon	1
12917	DRO 250mL w/ 10g SiGel	SW-846 8015B	1	171870004A	07/12/2017 20:49	Amy Lehr	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	171780007A	06/30/2017 17:14	Timothy M Emrick	1
12923	Mini-Ext. DRO, Column SiGel	SW-846 3510C	2	171870004A	07/06/2017 16:29	Christine E Gleim	1
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	171780007A	06/27/2017 17:30	Ryan J Dowdy	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061206
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 13:10 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	0.7	J	0.5	1	1
10945	Ethylbenzene	100-41-4	5		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Toluene	108-88-3	1	J	0.5	1	1
10945	Xylene (Total)	1330-20-7	3		0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,100		250	500	5
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
12917	DRO C10-C28 w/ SiGel	n.a.	980		45	100	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the sample surrogate(s) is compliant. The recovery for a target analyte(s) in the LCSD is outside the QC acceptance limits as noted on the QC Summary. All results are reported from the second trial per client request.

GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**ug/l**		**ug/l**	**ug/l**	
10006	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.		40	120	1
10006	Total TPH w/Si Gel	n.a.	N.D.		40	120	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.
The reverse surrogate, capric acid, is present at <1%.

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F171771AA	06/26/2017 18:01	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F171771AA	06/26/2017 18:01	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17178B20A	06/27/2017 17:38	Brett W Kenyon	5

*=This limit was used in the evaluation of the final result

Sample Description: MW-3-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061206
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 13:10 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	17178B20A	06/27/2017 17:38	Brett W Kenyon	5
12917	DRO 250mL w/ 10g SiGel	SW-846 8015B	1	171870004A	07/12/2017 21:12	Amy Lehr	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	171780007A	06/30/2017 17:36	Timothy M Emrick	1
12923	Mini-Ext. DRO, Column SiGel	SW-846 3510C	2	171870004A	07/06/2017 16:29	Christine E Gleim	1
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	171780007A	06/27/2017 17:30	Ryan J Dowdy	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061207
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 15:15 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	1,000	5	10	10
10945	Ethylbenzene	100-41-4	210	5	10	10
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5	10	10
10945	Toluene	108-88-3	140	5	10	10
10945	Xylene (Total)	1330-20-7	250	5	10	10
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	9,000	500	1,000	10
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		ug/l	ug/l	ug/l	
12917	DRO C10-C28 w/ SiGel	n.a.	670	45	100	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the sample surrogate(s) is compliant. The recovery for a target analyte(s) in the LCSD is outside the QC acceptance limits as noted on the QC Summary. All results are reported from the second trial per client request.

GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		ug/l	ug/l	ug/l	
10006	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	39	120	1
10006	Total TPH w/Si Gel	n.a.	N.D.	39	120	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.
The reverse surrogate, capric acid, is present at <1%.

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F171771AA	06/26/2017 18:23	Anthony H Downey	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F171771AA	06/26/2017 18:23	Anthony H Downey	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17178B20A	06/27/2017 18:06	Brett W Kenyon	10

*=This limit was used in the evaluation of the final result

Sample Description: MW-4-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061207
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 15:15 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	17178B20A	06/27/2017 18:06	Brett W Kenyon	10
12917	DRO 250mL w/ 10g SiGel	SW-846 8015B	1	171870004A	07/12/2017 21:36	Amy Lehr	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	171780007A	06/30/2017 17:58	Timothy M Emrick	1
12923	Mini-Ext. DRO, Column SiGel	SW-846 3510C	2	171870004A	07/06/2017 16:29	Christine E Gleim	1
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	171780007A	06/27/2017 17:30	Ryan J Dowdy	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061208
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 12:25 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12917	DRO C10-C28 w/ SiGel	n.a.	N.D.	48	110	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the sample surrogate(s) is compliant. The recovery for a target analyte(s) in the LCSD is outside the QC acceptance limits as noted on the QC Summary. All results are reported from the second trial per client request.

GC Petroleum Hydrocarbons w/Si	**SW-846 8015B modified**		**ug/l**	**ug/l**	**ug/l**	
10006	Motor Oil C16-C36 w/Si Gel	n.a.	N.D.	39	120	1
10006	Total TPH w/Si Gel	n.a.	N.D.	39	120	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.
The reverse surrogate, capric acid, is present at <1%.

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F171771AA	06/26/2017 18:45	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F171771AA	06/26/2017 18:45	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17178B20A	06/27/2017 15:20	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5-W-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061208
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 12:25 by WW

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23O05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	17178B20A	06/27/2017 15:20	Brett W Kenyon	1
12917	DRO 250mL w/ 10g SiGel	SW-846 8015B	1	171870004A	07/12/2017 21:59	Amy Lehr	1
10006	TPH Fuels water w/Si Gel	SW-846 8015B modified	1	171780007A	06/30/2017 18:19	Timothy M Emrick	1
12923	Mini-Ext. DRO, Column SiGel	SW-846 3510C	2	171870004A	07/06/2017 16:29	Christine E Gleim	1
11195	TPH w/ Silica Gel Waters Ext.	SW-846 3510C	1	171780007A	06/27/2017 17:30	Ryan J Dowdy	1

*=This limit was used in the evaluation of the final result

Sample Description: QA-T-170620 NA Water
Facility# 359766 BTST
2700 23rd Ave-Oakland T10000004218

LL Sample # WW 9061209
LL Group # 1816175
Account # 10991

Project Name: 359766

Collected: 06/20/2017 11:15

Submitted: 06/21/2017 09:35
Reported: 07/27/2017 17:07

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

23OQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F171771AA	06/26/2017 19:07	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F171771AA	06/26/2017 19:07	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17178B20A	06/27/2017 11:40	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	17178B20A	06/27/2017 11:40	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Chevron
Reported: 07/27/2017 17:07

Group Number: 1816175

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: F171771AA	Sample number(s): 9061204-9061209		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Methyl Tertiary Butyl Ether	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 17178B20A	Sample number(s): 9061204-9061209		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 171780007A	Sample number(s): 9061204-9061208		
Motor Oil C16-C36 w/Si Gel	N.D.	40	120
Total TPH w/Si Gel	N.D.	40	120
Batch number: 171870004A	Sample number(s): 9061204-9061208		
DRO C10-C28 w/ SiGel	N.D.	45	100

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: F171771AA	Sample number(s): 9061204-9061209								
Benzene	20	19.16			96		78-120		
Ethylbenzene	20	19.22			96		78-120		
Methyl Tertiary Butyl Ether	20	19.78			99		75-120		
Toluene	20	19.38			97		80-120		
Xylene (Total)	60	57.16			95		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 17178B20A	Sample number(s): 9061204-9061209								
TPH-GRO N. CA water C6-C12	1100	1008.35	1100	1033.93	92	94	80-120	3	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 171780007A	Sample number(s): 9061204-9061208								
Total TPH w/Si Gel	800	399.95	800	292.19	50	37	35-120	31*	20
Batch number: 171870004A	Sample number(s): 9061204-9061208								
DRO C10-C28 w/ SiGel	600	231.46	600	157.51	39	26*	30-115	38*	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 07/27/2017 17:07

Group Number: 1816175

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: F171771AA	Sample number(s): 9061204-9061209 UNSPK: P064451									
Benzene	120.88	20	138.39	20	145.43	88 (2)	123 (2)	78-120	5	30
Ethylbenzene	12.33	20	34.42	20	34.78	110	112	78-120	1	30
Methyl Tertiary Butyl Ether	N.D.	20	20.81	20	20.47	104	102	75-120	2	30
Toluene	4.85	20	26.83	20	26.67	110	109	80-120	1	30
Xylene (Total)	7.66	60	73.24	60	72.74	109	108	80-120	1	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/MTBE
Batch number: F171771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9061204	99	100	100	97
9061205	98	97	100	97
9061206	96	98	101	109
9061207	97	100	101	99
9061208	98	102	101	98
9061209	99	101	101	99
Blank	100	101	102	97
LCS	98	103	101	100
MS	98	102	102	102
MSD	97	101	101	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17178B20A

	Trifluorotoluene-F
9061204	92
9061205	92
9061206	99

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 07/27/2017 17:07

Group Number: 1816175

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17178B20A

	Trifluorotoluene-F
9061207	97
9061208	89
9061209	92
Blank	92
LCS	99
LCSD	93
Limits:	63-135

Analysis Name: TPH Fuels water w/Si Gel
Batch number: 171780007A

	Chlorobenzene	Orthoterphenyl
9061204	56	69
9061205	61	69
9061206	68	81
9061207	76	65
9061208	62	73
Blank	53	64
LCS	49	65
LCSD	42	61
Limits:	29-115	33-117

Analysis Name: DRO 250mL w/ 10g SiGel
Batch number: 171870004A

	Orthoterphenyl	Capric Acid
9061204	75	0
9061205	58	0
9061206	58	0
9061207	75	0
9061208	55	0
Blank	51	
LCS	55	
LCSD	42*	
Limits:	50-150	0-1

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

10991 / 1816175 / 9061204-09

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd.■ San Ramon, CA 94583 COC 1 of 1

Chevron Site Number: 359766

Chevron Site Global ID: T060000004218

Chevron Site Address: 2700 23rd Ave., Oakland, CA

Chevron PM: Carryl MacLeod

Chevron PM Phone No.: (925) 790-3964

☒ Retail and Terminal Business Unit (RTBU) Job
☒ Construction/Retail Job

Chevron Consultant: GHD

Address: 5900 Hollis St., Suite A, Emeryville, CA

Consultant Contact: Kiersten Hoey

Consultant Phone No. 510-420-3347

Consultant Project No. 170620-WW1

Sampling Company: Blaine Tech Services

Sampled By (Print): William Wong

Sampler Signature: WW

Charge Code: **NWRTB-0098247-0-OML**
NWRTB 00SITE NUMBER-0- WBS
(WBS ELEMENTS:
SITE ASSESSMENT: **A1L** REMEDIATION IMPLEMENTATION: **R5L**
SITE MONITORING: **OML** OPERATION MAINTENANCE & MONITORING: **M1L**

THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Calscience

☒ Garden Grove, CA
Lab Contact: Vikas Patel

7440 Lincoln Way,
Garden Grove, CA
92841
Phone No:
(717)895-5494

Other Lab

Temp. Blank Check

Time	Temp.
1115	3°C
1315	3°C
1515	3°C

ANALYSES REQUIRED

SAMPLE ID: Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA 8260B/GC/MS BTEX ☒ MTBE ☒ OXYGENATES ☐ HVOC ☐	EPA 8015 TPH-G ☒	EPA 8015 TPH-D ☒	EPA 8015 TPH-MO ☒	H	H	Preservation Codes
MW-1-W-172006	W		170620	1440	10	Various	X	X	X	X			H =HCL T= Thiosulfate
MW-2-W-172006				1350	10		X	X	X	X			N =HNO_3 B = NaOH
MW-3-W-172006				1310	10		X	X	X	X			S = H_2SO_4 O = Other
MW-4-W-172006				1515	10		X	X	X	X			
MW-5-W-172006				1225	10		X	X	X	X			
QA-T-172006	T			1115	2	HCL Vials	X	X					

Special Instructions

Must meet lowest detection limits possible for 8260 compounds.

Run TPH-D and TPH-MO with silica gel cleanup

Notes/Comments

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
WW	Blaine Tech Services	6-20-17 1645	WW	Blaine Tech Services	6-20-17 1645
WW	Blaine Tech Services	1800			
			Esdat	GLC	6-21-17 935

Turnaround Time:
Standard☑ 24 Hours☐ 48 hours☐ 72 Hours☐ Other☐

Sample Integrity: (Check by lab on arrival)
Intact: ✓ On Ice: ✓ Temp: 0.9-3.2

COC #

SHIPPED VIA FEDEX

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 186911

Group Number(s): 1816175

Client: GHD

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	06/21/2017 9:35
Number of Packages:	3	Number of Projects:	2
State/Province of Origin:	CA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 15:59 on 06/21/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	3.2	DT	Wet	Y	Loose/Bag	N
2	DT131	0.9	DT	Wet	Y	Loose/Bag	N
3	DT131	1.2	DT	Wet	Y	Loose/Bag	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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