

RECEIVED

By Alameda County Environmental Health 8:58 am, Mar 31, 2017

**Fourth Quarter 2016
Groundwater
Monitoring Report**

**Chevron Facility No. 376584
RO0000379
670 98th Avenue,
Oakland, California 94603**



Submitted to:
Ms. Karel Detterman
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94602

Prepared for:
Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, California 94583

Prepared by:
Stantec Consulting Services Inc.
15575 Los Gatos Blvd., Building C
Los Gatos, California 95032

March 30, 2017



Carryl MacLeod
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-3201
cmacleod@chevron.com

March 30, 2017

Ms. Karel Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502 Dear Mr. Awwad:

Attached for your review is the *Fourth Quarter 2016 Groundwater Monitoring Report* for 670 98th Avenue, Oakland, California 94603 (RO0000379). This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I have read and acknowledge the content, recommendations, and/or conclusions contained in the attached report submitted on my behalf to Alameda County Environmental Health's FTP server and the State Water Resources Control Board's GeoTracker™ Website.

If you should have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 827-3876 or travis.flora@stantec.com.

Sincerely,

A handwritten signature in cursive script that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager



March 30, 2017

Attention: **Ms. Karel Detterman**
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94602

Reference: **Fourth Quarter 2017 Groundwater Monitoring Report**
670 98th Avenue
Oakland, California 94603

Dear Ms. Detterman:

On behalf of Chevron Environmental Management Company (CEMC), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *Fourth Quarter 2016 Groundwater Monitoring Report* for 670 98th Avenue, Oakland, California (Site shown on **Figure 1**). This report is presented in three sections: Site Background, Fourth Quarter 2016 Groundwater Monitoring and Sampling Program, and Conclusions.

SITE BACKGROUND

The Site is located on the northeast corner at the intersection of 98th Avenue and Edes Avenue (**Figure 1**). The site was occupied by Union 76 service station from approximately 1947 through 1983. An old station building and an underground tank that occupied the site were removed in 1966. During that same year, a new station building, two 10,000-gallon underground gasoline tanks, and one 230-gallon waste oil tank were installed at the site. The station building was demolished and the underground storage tanks were removed in 1983.

In addition to the on-site source, an additional potential source of contamination at the site was identified at 692 98th Avenue, located northeast of the site. This property was occupied by a Richfield service station from approximately 1949 to 1963. In 1970, four 1,000-gallon underground fuel storage tanks were removed; the contents and former tank locations are not known.

FOURTH QUARTER 2016 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Gettler-Ryan, Inc. (G-R) performed the Fourth Quarter 2016 groundwater monitoring and sampling event on December 21, 2016. G-R's standard operating procedures (SOPs) and field data sheets are included in **Attachment A**. G-R gauged depth-to-groundwater (DTW) in 6 Site wells (MW-1 through MW-5 and Well-18) prior to collecting groundwater samples for laboratory analysis. Groundwater monitoring wells MW-1 through MW-5 and Well-18 were purged and sampled.

Investigation-derived waste (IDW) generated during the Fourth quarter 2016 groundwater monitoring and sampling event was transported by Clean Harbors Environmental Services to Seaport Environmental in Redwood City, California.

Groundwater Elevation and Gradient

A groundwater elevation contour map (based on Fourth Quarter 2016 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was west-northwest at an average hydraulic gradient of approximately 0.002 feet per foot (ft/ft).

FOURTH QUARTER 2016 GROUNDWATER MONITORING REPORT

Chevron Facility No. 376584

March 30, 2017

Page 2 of 4

Schedule of Laboratory Analysis

Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline range organics (TPH-GRO), TPH as diesel range organics (TPH-DRO), and TPH-DRO with silica gel cleanup using United States Environmental Protection Agency (US EPA) Method 8015B. Additionally, samples were analyzed for volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) and methyl *tertiary*-butyl ether (MtBE) by US EPA Method 8260B.

Groundwater Analytical Results

During fourth quarter 2016, groundwater samples were collected from six Site wells (MW-1 through MW-5 and Well-18). Current groundwater analytical results are included in **Table 1**. Historical groundwater analytical results are included in **Table 2**. A figure showing the latest groundwater analytical data plotted on a Site map is included as **Figure 3**. A TPH-GRO isoconcentration map is shown on **Figure 4**, and a TPH-DRO isoconcentration map is shown on **Figure 5**. Isoconcentration maps for BTEX compounds and MtBE were not created, because there were no detections above laboratory method detection limits (MDL) or environmental screening levels. Certified laboratory analysis reports and chain-of-custody documents are presented as **Attachment B**.

Additional VOCs, including n-butylbenzene, sec-butylbenzene, cis-1,2-dichloroethene, isopropylbenzene, naphthalene, n-propylbenzene, tetrachloroethene, and trichloroethene were detected in Site wells as noted in **Table 1**. Laboratory notes indicate the reverse surrogate, capric acid, for the analysis for TPH-DRO with silica gel cleanup is present at <1%.

CONCLUSIONS AND RECOMMENDATIONS

Maximum concentrations were observed in well MW-1. TPH-GRO and TPH-DRO were both reported above their respective ESLs in well MW-1, and TPH-GRO was reported above its ESL in Well-18. BTEX compounds and MtBE were not detected above laboratory MDLs or ESLs.

Stantec reviewed a historical as-built drawing, a historical maintenance log, and historical correspondence and found that diesel was not dispensed at this Site. Two gasoline underground storage tanks (USTs) and one waste oil UST were noted. The TPH-DRO detected may be associated with weathered gasoline or from a separate, nearby diesel source. A historical ARCO station was located adjacent to this Site. Chevron has requested historical files from ARCO to evaluate if their station dispensed diesel.

Alameda County Environmental Health Department requested that a Site Conceptual Model (SCM) and Data Gap Work Plan be submitted in October 2016; however, the data set was insufficient, so a SCM was not prepared at that time. The current data set is limited to only two round of groundwater sampling. Stantec recommends additional groundwater sampling prior to preparation of the SCM. This will also allow additional time to evaluate the TPH-DRO detections using available historical files and laboratory chromatograms. In addition, Stantec recommends using a low-flow sampling procedure at wells MW-1, MW-3, and MW-18 due to the silt observed in samples collected using a standard sampling procedure with a bailer. Groundwater monitoring and sampling events are planned for Second and Fourth Quarters 2017.

FOURTH QUARTER 2016 GROUNDWATER MONITORING REPORT

Chevron Facility No. 376584

March 30, 2017

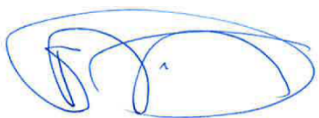
Page 3 of 4

LIMITATIONS


This document entitled *Fourth Quarter 2016 Groundwater Monitoring Report* was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Chevron Environmental Management Company (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by  _____
(signature)

Ruthie Chhoeun
Project Scientist

Reviewed by  _____
(signature)

Travis L. Flora
Senior Project Manager

Licensed Approver  _____
(signature)



Jaff Auchterlonie, P.G.
Managing Principal Geologist

cc:

Ms. Carryl MacLeod, EMC (*via electronic copy*)
Ms. Linda Hothem, Linda Hothem Trust, 104 Caledonia Street, #C, Sausalito, CA 94965-1952
Ms. Roslyn Danforth, c/o Rocklin Industries, 11120 Queensland St., #H51, Los Angeles, CA 90034
City of Oakland Dept. of Public Works, c/o Mr. Mark Johannes Arniola, 250 Frank H. Ogawa Plaza, Suite 5301, Oakland, CA 94612 (*via email*)

FOURTH QUARTER 2016 GROUNDWATER MONITORING REPORT

Chevron Facility No. 376584

March 30, 2017

Page 4 of 4

Attachments:

Table 1 – Current Groundwater Monitoring Data & Analytical Data

Table 2 – Historical Groundwater Monitoring Data & Analytical Data

Figure 1 – Site Location

Figure 2 – Site Plan and Groundwater Elevation Contour Map – December 21, 2016

Figure 3 – Groundwater Concentration Map – December 21, 2016

Figure 4 – GRO Groundwater Isoconcentration Map - December 21, 2016

Figure 5 – DRO Groundwater with Silica Gel Cleanup Isoconcentration Map - December 21, 2016

Attachment A – Gettler-Ryan Inc.'s *Groundwater Monitoring and Sampling Data Package
Second Semi-Annual Event of December 21, 2016.*

Attachment B – Certified Laboratory Analysis Reports and Chain-of-Custody Documents

TABLE

TABLE 1
Current Groundwater Monitoring & Analytical Data
Chevron Facility No. 376584 (Former Union Oil Service Station)
670 98th Avenue, Oakland, California

Well No.	Date	Notes	TOC (ft-MSL)	DTW (ft)	SPH (ft)	GWE (ft-MSL)	TPH- GRO (µg/L)	TPH-DRO (µg/L)	TPH-DRO w/ SG (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	BTBZN (µg/L)	BTBZS (µg/L)	Chloroform (µg/L)	DCE12C (µg/L)	IPBZ (µg/L)	NAPH (µg/L)	PBZN (µg/L)	PCE (µg/L)	TCE (µg/L)	Comments
MW-1	12/21/16		16.18	7.32	0.00	8.86	2,100	1,100	770	<0.5	<0.5	<0.5	<0.5	<0.5	<5	18	13	<0.5	<0.5	10	5	34	<0.5	<0.5	
MW-2	12/21/16		16.50	7.25	0.00	9.25	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	0.6	<1	<1	<1	3	2	
MW-3	12/21/16		16.54	7.60	0.00	8.94	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	0.5	<0.5	<1	<1	<1	1	0.8	
MW-4	12/21/16		18.40	9.20	0.00	9.20	51	<50	180	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	140	1	
MW-5	12/21/16		17.35	8.05	0.00	9.30	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	
Well-18	12/21/16		15.97	6.98	0.00	8.99	180	66	93	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	2	<1	1	1	
QA	12/21/16		--	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	

Notes:

- TPH-GRO = Total petroleum hydrocarbons as gasoline
- TPH-DRO = Total petroleum hydrocarbons as diesel
- TPH-DRO w/ SG = Total petroleum hydrocarbons as diesel with Silica Gel
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Total xylenes
- MTBE = Methyl tert-butyl ether
- TBA = Tert-butyl alcohol
- BTBZN = n-Butylbenzene
- BTBZS = sec-Butylbenzene
- DCE12C = cis-1,2-Dichloroethene
- IPBZ = Isopropylbenzene

TABLE 2
Historical Groundwater Monitoring & Analytical Data
Chevron Facility No. 376584 (Former Union Oil Service Station)
670 98th Avenue, Oakland, California

Well No.	Date	Notes	TOC (ft-MSL)	DTW (ft)	SPH (ft)	GWE (ft-MSL)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-DRO w/ SG (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	BTBZN (µg/L)	BTBZS (µg/L)	Chlorof orm (µg/L)	DCE12C (µg/L)	IPBZ (µg/L)	NAPH (µg/L)	PBZN (µg/L)	PCE (µg/L)	TCE (µg/L)	Comments	
MW-1	06/17/16	NSP	16.18	8.43	0.00	7.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
	06/24/16		8.48	Sheen	7.70	3400	480	920	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<5	27	18	<0.5	<0.5	15	7	55	<0.5	<0.5		
	12/21/16		7.32	0.00	8.86	2,100	1,100	770	<0.5	<0.5	<0.5	<0.5	<0.5	<5	18	13	<0.5	<0.5	10	5	34	<0.5	<0.5			
MW-2	06/17/16	NSP	16.50	8.28	0.00	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
	06/24/16		8.32	0.00	8.18	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	2	2			
	12/21/16		7.25	0.00	9.25	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	0.6	<1	<1	<1	3	2			
MW-3	06/17/16	NSP	16.54	8.62	0.00	7.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
	06/24/16		8.68	0.00	7.86	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	0.5	<0.5	<1	<1	<1	1	1			
	12/21/16		7.60	0.00	8.94	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	0.5	<0.5	<1	<1	<1	1	0.8			
MW-4	06/17/16	NSP	18.40	10.18	0.00	8.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
	06/24/16		10.25	0.00	8.15	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	140	1			
	12/21/16		9.20	0.00	9.20	51	<50	180	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	140	1			
MW-5	06/17/16	NSP	17.35	9.08	0.00	8.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
	06/24/16		9.12	0.00	8.23	<50	<50	95	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	<0.5	<0.5			
	12/21/16		8.05	0.00	9.30	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	<1	<1	<0.5	<0.5			
Well-18	06/17/16	NSP	15.97	8.03	0.00	7.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Well re-developed
	06/24/16		8.05	0.00	7.92	890	120	96	<0.5	<0.5	1	<0.5	<0.5	<5	1	<1	<1	<0.5	0.6	4	5	5	2	2		
	12/21/16		6.98	0.00	8.99	180	66	93	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<0.5	<1	2	<1	1	1			
QA	06/24/16		--	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--		
	12/21/16		--	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--		

TABLE 2
Historical Groundwater Monitoring & Analytical Data
Chevron Facility No. 376584 (Former Union Oil Service Station)
670 98th Avenue, Oakland, California

Notes:

TPH-GRO = Total petroleum hydrocarbons as gasoline

TPH-DRO = Total petroleum hydrocarbons as diesel

TPH-DRO w/ SG = Total petroleum hydrocarbons as diesel with Silica Gel

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total xylenes

MTBE = Methyl tert-butyl ether

TBA = Tert-butyl alcohol

BTBZN = n-Butylbenzene

BTBZS = sec-Butylbenzene

DCE12C = cis-1,2-Dichloroethene

IPBZ = Isopropylbenzene

NAPH = Naphthalene

PBZN = n-Propylbenzene

PCE = Tetrachloroethene

TCE = Trichloroethene

SPH = Separate-phase hydrocarbons

TOC = Top of casing (surveyed)

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

ft-MSL = feet above mean sea level

ft = feet

µg/L = Micrograms per liter

< = Analyte was not detected above the specified method reporting limit

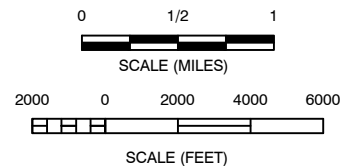
-- = Not measured or analyzed

NSP = Well not sampled this event, in accordance with groundwater sampling schedule.

FIGURES




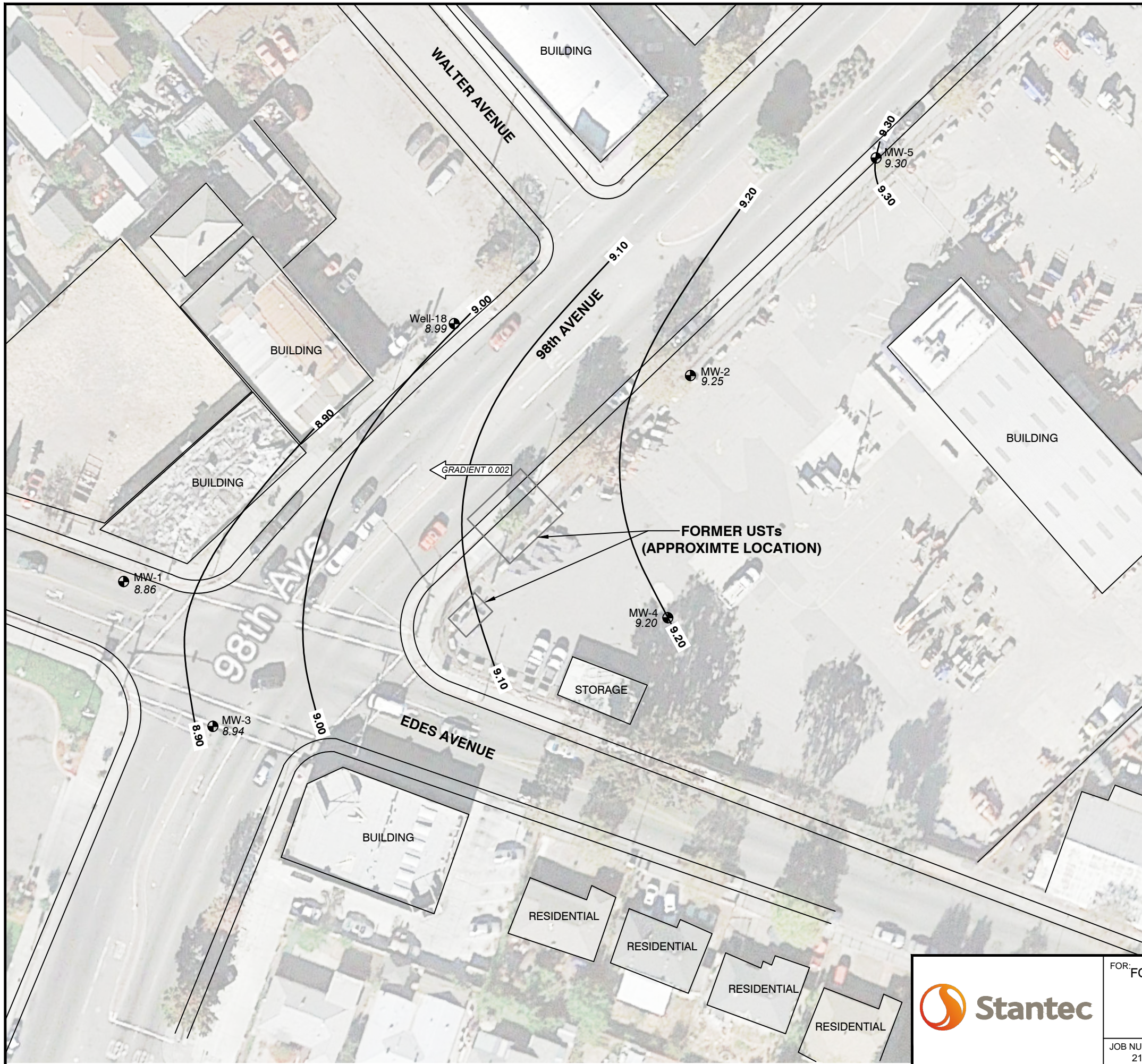
CALIFORNIA



No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

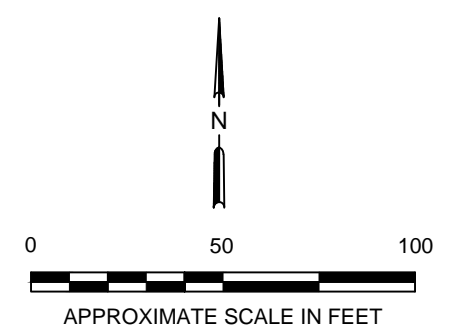
REFERENCE: DELORME TOPO MAP, SAN LEANDRO, CALIFORNIA

	FOR: FORMER CHEVRON SERVICE STATION NO. 376584 670 98th AVENUE OAKLAND, CALIFORNIA		SITE LOCATION MAP		FIGURE: <h1 style="text-align: center;">1</h1>
	JOB NUMBER: 211611069	DRAWN BY: STA	CHECKED BY: RC	APPROVED BY: TF	DATE: 03/21/17



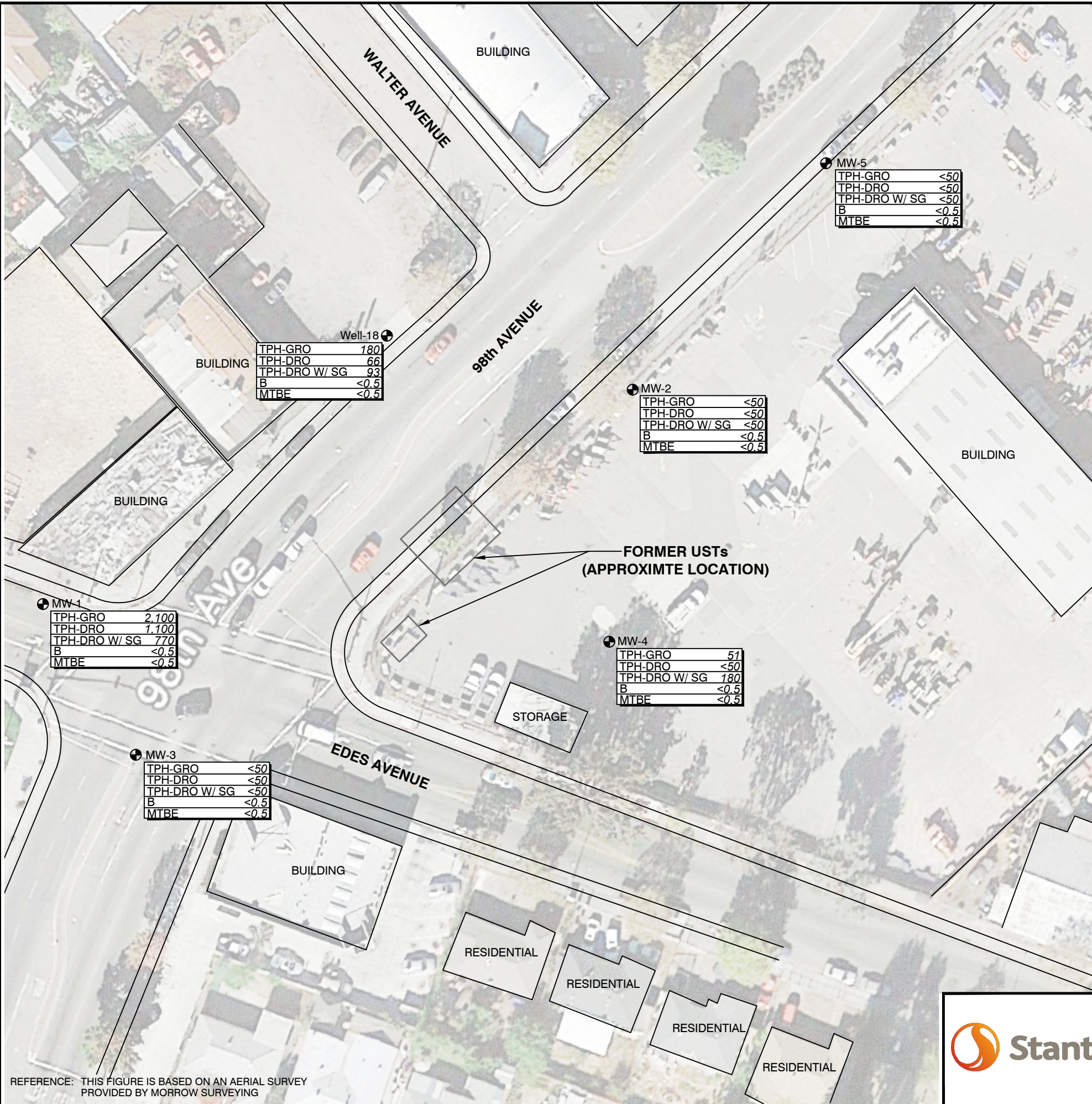
LEGEND:

- MW-1 GROUNDWATER MONITORING WELL LOCATION
- APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
- 9.00 GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- 8.86 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)



No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

	FOR: FORMER CHEVRON SERVICE STATION NO. 376854 670 98th AVENUE OAKLAND, CALIFORNIA		SITE PLAN AND GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 21, 2016		FIGURE: 2
	JOB NUMBER: 211611069	DRAWN BY: STA	CHECKED BY: RC	APPROVED BY: TF	DATE: 03/21/17



LEGEND:

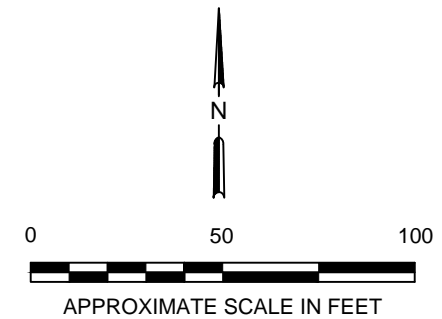
MW-1 GROUNDWATER MONITORING WELL LOCATION

CHEMICAL ANALYTICAL RESULTS:

		ANALYTE
TPH-GRO	2,100	CONCENTRATION (µg/L)
TPH-DRO	1,100	
TPH-DRO W/ SG	770	
B	<0.5	
MTBE	<0.5	
	µg/L	MICROGRAMS PER LITER

ANALYTES:

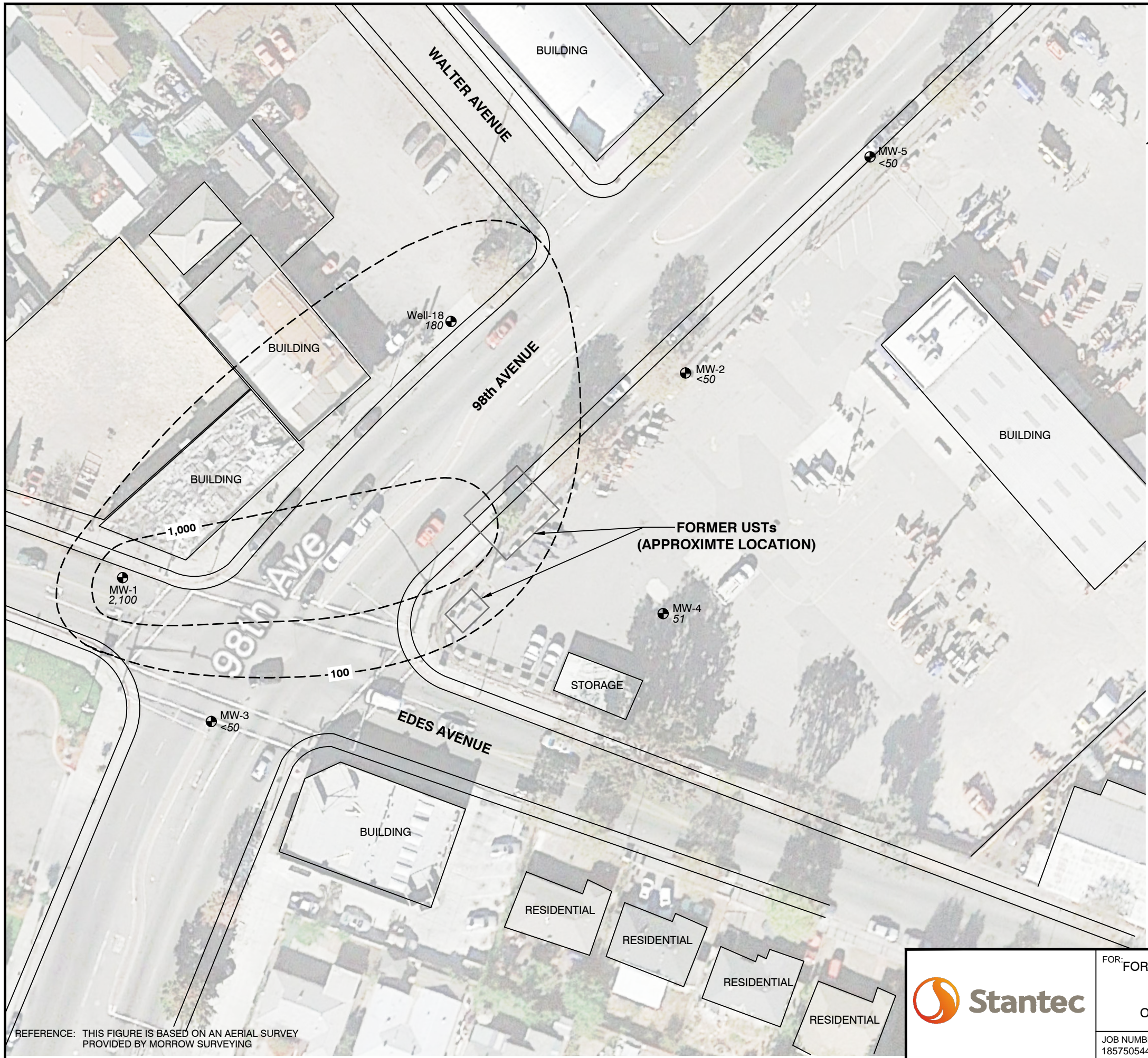
- TPH-GRO — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
- TPH-DRO — TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
- TPH-DRO W/ SG — TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS WITH SILICA GEL
- B — BENZENE
- MTBE — METHYL TERTIARY-BUTYL ETHER



No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

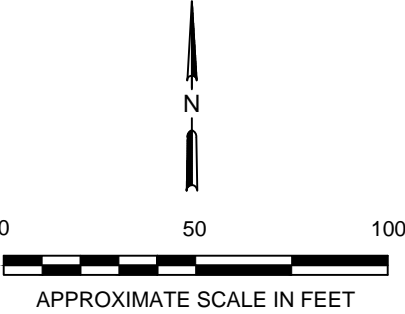
REFERENCE: THIS FIGURE IS BASED ON AN AERIAL SURVEY PROVIDED BY MORROW SURVEYING

	FOR: FORMER CHEVRON SERVICE STATION NO. 376584 670 98th AVENUE OAKLAND, CALIFORNIA		GROUNDWATER CONCENTRATION MAP DECEMBER 21, 2016		FIGURE: 3
	JOB NUMBER: 211611069	DRAWN BY: STA	CHECKED BY: RC	APPROVED BY: TF	DATE: 03/21/17



LEGEND:

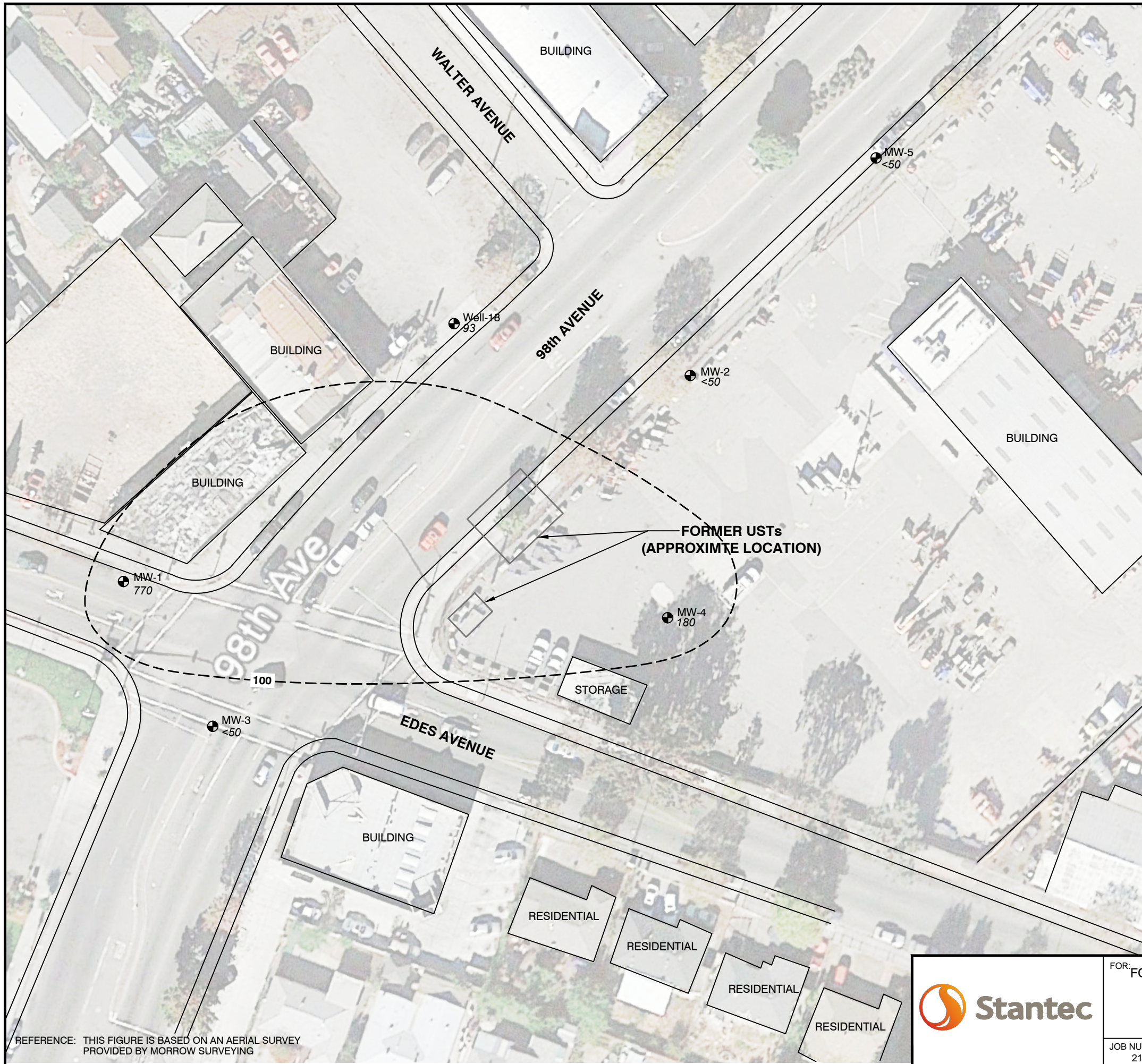
- MW-1 GROUNDWATER MONITORING WELL LOCATION
- GRO GASOLINE RANGE ORGANICS
- 100 GRO ISOCONCENTRATION CONTOUR
- 180 GRO CONCENTRATION (µg/L)
- µg/L MICROGRAMS PER LITER





No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

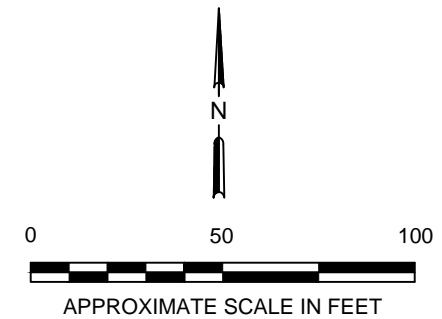
REFERENCE: THIS FIGURE IS BASED ON AN AERIAL SURVEY PROVIDED BY MORROW SURVEYING

	FOR: FORMER CHEVRON SERVICE STATION NO. 376584 670 98th AVENUE OAKLAND, CALIFORNIA		GRO GROUNDWATER ISOCONCENTRATION CONTOUR MAP DECEMBER 21, 2016		FIGURE: 4
	JOB NUMBER: 185750544.711.94044	DRAWN BY: STA	CHECKED BY: RC	APPROVED BY: BW	DATE: 03/21/17



LEGEND:

- MW-1  GROUNDWATER MONITORING WELL LOCATION
- DRO DIESEL RANGE ORGANICS
-  100 DRO ISOCONCENTRATION CONTOUR
- 770 DRO CONCENTRATION WITH SILICA GEL (µg/L)
- µg/L MICROGRAMS PER LITER



No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

REFERENCE: THIS FIGURE IS BASED ON AN AERIAL SURVEY PROVIDED BY MORROW SURVEYING



FOR: FORMER CHEVRON SERVICE
STATION NO. 376584
670 98th AVENUE
OAKLAND, CALIFORNIA

**DRO WITH SILICA GEL
ISOCONCENTRATION
CONTOUR MAP
DECEMBER 21, 2016**

FIGURE:
5

JOB NUMBER:
211611069

DRAWN BY:
STA

CHECKED BY:
RC

APPROVED BY:
TF

DATE:
03/21/17

ATTACHMENT

**Gettler-Ryan Inc.'s Groundwater Monitoring and
Sampling Data Package**

Second Semi-Annual Event of December 21, 2016



GETTLER-RYAN INC.



TRANSMITTAL

December 30, 2016
G-R #385903

TO: Mr. Travis Flora
Stantec
15575 Los Gatos Blvd, Bldg C
Los Gatos, California 95032

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

RE: **Chevron Facility #376584**
Former Union Oil Service Station
670 98th Avenue
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Second Semi-Annual Event of December 21, 2016

COMMENTS:

Pursuant to your request, we are providing you with a copy 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/376584

WELL CONDITION STATUS SHEET

Client/
 Facility #: **Chevron #376584**
 Site Address: **670 98Th Avenue**
 City: **Oakland, CA**

Job #: **385903**
 Event Date: **12-21-16**
 Sampler: **AW / GM**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	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-2	OK	N/A	—————→		OK	—————→		N	N	Christy	N
MW-5	OK	—————→				—————→		↓	↓	Emco/12 1/2	↓
MW-4	Broke	M	M	B	C	OK	OK	↓	↓	↓	↓

Comments _____

WELL CONDITION STATUS SHEET

Client/
 Facility #: Chevron #376584
 Site Address: 670 98Th Avenue
 City: Oakland, CA

Job #: 385903
 Event Date: 12/21/16
 Sampler: GILBERT MEDINA

WELL ID	Vault Frame Condition	Gasket/O-Ring <small>(M) Missing (R) Replaced</small>	Bolts <small>(M) Missing (R) Replaced</small>	Bolt Flanges <small>B=Broken S=Stripped R=Retaped</small>	Apron Condition <small>C=Cracked B=Broken G=Gone</small>	Grout Seal <small>(Deficient) Inches from TOC</small>	Casing <small>(Condition prevents tight cap seal)</small>	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT <small>Manufacture/Size/ # of Bolts</small>	Pictures Taken Y/N
MW-1	OK	NA	→	→	OK	→	→	NO	NO	CHRISTY/12/Ø	
MW-3	↓	NA	→	→	OK	→	→	↓	↓	↓	
WELL-18	↓	NA	→	→	OK	→	→	↓	↓	↓	

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. Total well depths are measured annually.

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 #376584 Job Number: 385903
 Site Address: 670 98th Avenue Event Date: 12/21/16 (inclusive)
 City: Oakland, CA Sampler: GM

Well ID: MW-1 Date Monitored: 12/21/16
 Well Diameter: 2 in.
 Total Depth: 19.69 ft.
 Depth to Water: 7.32 ft. Check if water column is less than 0.50 ft.
12.37 xVF 0.17 = 2.10 x3 case volume = Estimated Purge Volume: 6.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.79

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

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:	<u>0</u> 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): 0840 Weather Conditions: SUNNY
 Sample Time/Date: 0925/12/21/16 Water Color: BROWN Odor: DN SLIGHT
 Approx. Flow Rate: - gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 7.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0845</u>	<u>2.25</u>	<u>7.25</u>	<u>477</u>	<u>18.2</u>	_____	_____
<u>0850</u>	<u>4.5</u>	<u>7.22</u>	<u>473</u>	<u>18.1</u>	_____	_____
<u>0855</u>	<u>6.5</u>	<u>7.19</u>	<u>469</u>	<u>18.0</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6 x vov vial</u>	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	<u>2 x 500ml ambers</u>	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

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 #376584 Job Number: 385903
 Site Address: 670 98Th Avenue Event Date: 12-21-16 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MMW-2 Date Monitored: 12-21-16
 Well Diameter: 2 in.
 Total Depth: 28.25 ft.
 Depth to Water: 7.25 ft. Check if water column is less than 0.50 ft.
21.00 xVF .17 = 3.57 x3 case volume = Estimated Purge Volume: 11.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.45

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

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): 0600 Weather Conditions: Dawn
 Sample Time/Date: 0630 / 12-21-16 Water Color: Cloudy Odor: Y / 10
 Approx. Flow Rate: 1.0 gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0604</u>	<u>4.0</u>	<u>7.96</u>	<u>163</u>	<u>18.6</u>		
<u>0608</u>	<u>8.0</u>	<u>7.93</u>	<u>189</u>	<u>18.8</u>		
<u>0611</u>	<u>11.0</u>	<u>7.90</u>	<u>206</u>	<u>19.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MMW-2</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/FULL SCAN(8260)/NAPHTHALENE(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

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 #376584
 Site Address: 670 98th Avenue
 City: Oakland, CA

Job Number: 385903
 Event Date: 12/21/10 (inclusive)
 Sampler: GM

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 22.80 ft.
 Depth to Water: 7.60 ft.

Date Monitored: 12/21/10

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

Check if water column is less than 0.50 ft.
15.20 xVF 0.17 = 2.58 x3 case volume = Estimated Purge Volume: 8 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.64

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:	<u>Ø</u> 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): 0735 Weather Conditions: CLOUDY
 Sample Time/Date: 0815/12/21/10 Water Color: BROWN Odor: Y (N)
 Approx. Flow Rate: - gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>0740</u>	<u>3</u>	<u>7.30</u>	<u>624</u>	<u>17.9</u>	_____	_____
<u>0746</u>	<u>5.5</u>	<u>7.26</u>	<u>612</u>	<u>17.9</u>	_____	_____
<u>0755</u>	<u>8</u>	<u>7.22</u>	<u>610</u>	<u>18.1</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

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 #376584 Job Number: 385903
 Site Address: 670 98Th Avenue Event Date: 12-21-16 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MW-4 Date Monitored: 12-21-16
 Well Diameter: 2 in.
 Total Depth: 22.75 ft.
 Depth to Water: 9.20 ft. Check if water column is less than 0.50 ft.
13.55 xVF .17 = 2.30 x3 case volume = Estimated Purge Volume: 7.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.91

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

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): 0740 Weather Conditions: Sunny
 Sample Time/Date: 0815 / 12-21-16 Water Color: Cloudy Odor: Y /
 Approx. Flow Rate: - gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.98

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS / μmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0747</u>	<u>2.5</u>	<u>7.52</u>	<u>303</u>	<u>16.3</u>		
<u>0754</u>	<u>5.0</u>	<u>7.48</u>	<u>340</u>	<u>16.5</u>		
<u>0801</u>	<u>7.0</u>	<u>7.45</u>	<u>366</u>	<u>16.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/FULL SCAN(8260)/NAPHTHALENE(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

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 #376584 Job Number: 385903
 Site Address: 670 98th Avenue Event Date: 12-21-16 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MW-5 Date Monitored: 12-21-16
 Well Diameter: 2 in.
 Total Depth: 22.58 ft.
 Depth to Water: 8.05 ft. Check if water column is less than 0.50 ft.
14.53 xVF .17 = 2.47 x3 case volume = Estimated Purge Volume: 7.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.95

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

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): 0645 Weather Conditions: Clear
 Sample Time/Date: 0720 / 12-21-16 Water Color: Cloudy Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.44

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS / μmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0651</u>	<u>2.5</u>	<u>7.46</u>	<u>308</u>	<u>16.5</u>	_____	_____
<u>0657</u>	<u>5.0</u>	<u>7.42</u>	<u>339</u>	<u>16.6</u>	_____	_____
<u>0705</u>	<u>7.5</u>	<u>7.36</u>	<u>380</u>	<u>16.8</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

COMMENTS: SMCO 1/27/2

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #376584
 Site Address: 670 98Th Avenue
 City: Oakland, CA

Job Number: 385903
 Event Date: 12/21/16 (inclusive)
 Sampler: GM

Well ID: WELL -18
 Well Diameter: 2 in.
 Total Depth: 16.69 ft.
 Depth to Water: 6.98 ft.
9.71 xVF 0.17 = 1.65

Date Monitored: 12/21/16

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.92
 x3 case volume = Estimated Purge Volume: 5 gal.

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:	<u>0</u> 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): 0610 Weather Conditions: COLD
 Sample Time/Date: 0650/12/21/16 Water Color: BROWN Odor: Y
 Approx. Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.19

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0613</u>	<u>1.5</u>	<u>7.29</u>	<u>720</u>	<u>17.9</u>	_____	_____
<u>0617</u>	<u>3</u>	<u>7.22</u>	<u>716</u>	<u>17.8</u>	_____	_____
<u>0622</u>	<u>5</u>	<u>7.17</u>	<u>714</u>	<u>17.1</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>WELL -18</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)/ FULL SCAN(8260)/NAPHTHALENE(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc/TPH-DRO(8015)

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody



**Lancaster Laboratories
Environmental**

For Eurofins Lancaster Laboratories Environmental use only

Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

Client Information				Matrix			Analyses Requested										SCR #: _____							
Facility # SS#376584-OML G-R#385903 Global ID#T0600101442				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air			Total Number of Containers	<input checked="" type="checkbox"/> 8260	<input type="checkbox"/> 8021	<input type="checkbox"/> 8015	<input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup	<input checked="" type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup	<input type="checkbox"/> 8260	<input type="checkbox"/> 8021	<input type="checkbox"/> 8015	<input type="checkbox"/> 8260	<input type="checkbox"/> 8021	<input type="checkbox"/> 8015	<input type="checkbox"/> 8260	<input type="checkbox"/> 8021	<input type="checkbox"/> 8015	<input type="checkbox"/> 8260	NAPHTHALENE (8260)	<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits
Site Address 670 96th AVENUE, OAKLAND, CA																								
Chevron PM CM		Lead Consultant STANTECTF						Flora																
Consultant/Office Grinc-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																								
Consultant Project Mgr. Deanna L. Harding, deanna@grinc.com																								
Consultant Phone # (925) 551-7444 x180																								
Sampler Alex W. Gilbert M.																								
Sample Identification	Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	Remarks						
		Date	Time																					
QA		161221		X		X			2	X	X													
MW-1			0825						8	X	X	X	X	X						X				
MW-2			0630																					
MW-3			0815																					
MW-4			0815																					
MW-5			0720																					
Well 18			0650																					
Turnaround Time Requested (TAT) (please circle)				Relinquished by			Date	Time	Received by		Date	Time												
Standard 5 day 4 day							161221				12/21/16	1120												
72 hour 48 hour 24 hour				Relinquished by			Date	Time	Received by		Date	Time												
Data Package (circle if required) EDF/EDD				Relinquished by			Date	Time	Received by		Date	Time												
Type I - Full Type VI (Raw Data)				Relinquished by Commercial Carrier:			Received by		Date	Time														
EDD (circle if required)				UPS _____ FedEx _____ Other _____			Temperature Upon Receipt _____ °C		Custody Seals Intact?		Yes	No												
EDFFLAT (default) Other: _____																								

ATTACHMENT B
Certified Laboratory Analysis Reports and
Chain-of-Custody Documents

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: March 13, 2017

Project: 376584

Submittal Date: 12/22/2016
Group Number: 1747732
PO Number: 0015235605
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description

	Lancaster Labs (LL) #
QA-T-161221 NA Water	8759448
MW-1-W-161221 Grab Groundwater	8759449
MW-2-W-161221 Grab Groundwater	8759450
MW-3-W-161221 Grab Groundwater	8759451
MW-4-W-161221 Grab Groundwater	8759452
MW-5-W-161221 Grab Groundwater	8759453
Well_18-W-161221 Grab Groundwater	8759454

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	Stantec	Attn: Erin O'Malley
Electronic Copy To	Stantec	Attn: Marisa Kaffenberger
Electronic Copy To	Stantec International	Attn: Travis Flora
Electronic Copy To	Stantec	Attn: Laura Viesselman
Electronic Copy To	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-161221 NA Water
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759448
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980QA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	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	D170031AA	01/03/2017 11:38	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D170031AA	01/03/2017 11:38	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 12:06	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 12:06	Brett W Kenyon	1

Sample Description: MW-1-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759449
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 09:25 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	18	1	1
10335	sec-Butylbenzene	135-98-8	13	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1

Sample Description: MW-1-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759449
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 09:25 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10335	Isopropylbenzene	98-82-8	10	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	5	1	1
10335	n-Propylbenzene	103-65-1	34	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,100	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	1,100	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	770	50	1
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.

Sample Description: MW-1-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759449
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 09:25 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N170041AA	01/04/2017 13:01	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N170041AA	01/04/2017 13:01	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 13:02	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 13:02	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163590018A	12/28/2016 21:05	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163590019A	12/30/2016 13:34	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163590018A	12/28/2016 09:30	David S Schrum	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163590019A	12/28/2016 09:30	David S Schrum	1

Sample Description: MW-2-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759450
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 06:30 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	0.6	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1

Sample Description: MW-2-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759450
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 06:30 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	3	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	2	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
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.

Sample Description: MW-2-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759450
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 06:30 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M2

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N170041AA	01/04/2017 13:24	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N170041AA	01/04/2017 13:24	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 13:30	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 13:30	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163590018A	12/28/2016 21:26	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163590019A	12/29/2016 19:24	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163590018A	12/28/2016 09:30	David S Schrum	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163590019A	12/28/2016 09:30	David S Schrum	1

Sample Description: MW-3-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759451
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 08:15 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	0.5	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1

Sample Description: MW-3-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759451
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 08:15 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	1	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	0.8	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
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.

Sample Description: MW-3-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759451
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 08:15 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M3

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N170041AA	01/04/2017 13:48	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N170041AA	01/04/2017 13:48	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 13:57	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 13:57	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163590018A	12/28/2016 21:48	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163590019A	12/29/2016 19:46	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163590018A	12/28/2016 09:30	David S Schrum	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163590019A	12/28/2016 09:30	David S Schrum	1

Sample Description: MW-4-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759452
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 08:15 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1

Sample Description: MW-4-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759452
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 08:15 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	140	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	1	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	51	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	180	50	1
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.

Sample Description: MW-4-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759452
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 08:15 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M4

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N170041AA	01/04/2017 14:12	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N170041AA	01/04/2017 14:12	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 14:25	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 14:25	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163590018A	12/28/2016 22:09	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163590019A	12/29/2016 20:07	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163590018A	12/28/2016 09:30	David S Schrum	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163590019A	12/28/2016 09:30	David S Schrum	1

Sample Description: MW-5-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759453
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 07:20 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M5

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1

Sample Description: MW-5-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759453
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 07:20 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M5

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
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.

Sample Description: MW-5-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759453
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 07:20 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

980M5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N170041AA	01/04/2017 14:36	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N170041AA	01/04/2017 14:36	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 14:53	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 14:53	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163630025A	12/30/2016 12:16	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163630026A	01/09/2017 19:56	Amy Lehr	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163630025A	12/28/2016 23:45	Sherry L Morrow	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163630026A	12/28/2016 23:45	Sherry L Morrow	1

Sample Description: Well_18-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759454
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 06:50 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

98018

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1

Sample Description: Well_18-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759454
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 06:50 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

98018

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	2	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	1	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	1	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	180	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	66	50	1

GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	93	50	1
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.

Sample Description: Well_18-W-161221 Grab Groundwater
Facility# 376584 Job# 385903 GRD
670 98th Ave-Oakland T0600101442

LL Sample # WW 8759454
LL Group # 1747732
Account # 10906

Project Name: 376584

Collected: 12/21/2016 06:50 by AW

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 03/13/2017 14:40

98018

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N170041AA	01/04/2017 14:59	Nicole S Lamoreaux	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N170041AA	01/04/2017 14:59	Nicole S Lamoreaux	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16364B20A	12/29/2016 15:10	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16364B20A	12/29/2016 15:10	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163590018A	12/28/2016 22:31	Thomas C Wildermuth	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	163590019A	12/29/2016 20:29	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163590018A	12/28/2016 09:30	David S Schrum	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	163590019A	12/28/2016 09:30	David S Schrum	1

Quality Control Summary

Client Name: Chevron
Reported: 03/13/2017 14:40

Group Number: 1747732

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
	ug/l	ug/l
Batch number: D170031AA	Sample number(s): 8759448	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: N170041AA	Sample number(s): 8759449-8759454	
Acetone	N.D.	6
t-Amyl methyl ether	N.D.	0.5
Benzene	N.D.	0.5
Bromobenzene	N.D.	1
Bromochloromethane	N.D.	1
Bromodichloromethane	N.D.	0.5
Bromoform	N.D.	0.5
Bromomethane	N.D.	0.5
2-Butanone	N.D.	3
t-Butyl alcohol	N.D.	5
n-Butylbenzene	N.D.	1
sec-Butylbenzene	N.D.	1
tert-Butylbenzene	N.D.	1
Carbon Disulfide	N.D.	1
Carbon Tetrachloride	N.D.	0.5
Chlorobenzene	N.D.	0.5
Chloroethane	N.D.	0.5
2-Chloroethyl Vinyl Ether	N.D.	2
Chloroform	N.D.	0.5
Chloromethane	N.D.	0.5
2-Chlorotoluene	N.D.	1
4-Chlorotoluene	N.D.	1
1,2-Dibromo-3-chloropropane	N.D.	2
Dibromochloromethane	N.D.	0.5
1,2-Dibromoethane	N.D.	0.5
Dibromomethane	N.D.	0.5
1,2-Dichlorobenzene	N.D.	1
1,3-Dichlorobenzene	N.D.	1
1,4-Dichlorobenzene	N.D.	1
Dichlorodifluoromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
cis-1,2-Dichloroethene	N.D.	0.5

*- Outside of specification

- (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: 03/13/2017 14:40

Group Number: 1747732

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
1,3-Dichloropropane	N.D.	0.5
2,2-Dichloropropane	N.D.	0.5
1,1-Dichloropropene	N.D.	1
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethanol	N.D.	50
Ethyl t-butyl ether	N.D.	0.5
Ethylbenzene	N.D.	0.5
Freon 113	N.D.	2
Hexachlorobutadiene	N.D.	2
2-Hexanone	N.D.	3
di-Isopropyl ether	N.D.	0.5
Isopropylbenzene	N.D.	1
p-Isopropyltoluene	N.D.	1
Methyl Tertiary Butyl Ether	N.D.	0.5
4-Methyl-2-pentanone	N.D.	3
Methylene Chloride	N.D.	2
Naphthalene	N.D.	1
n-Propylbenzene	N.D.	1
Styrene	N.D.	1
1,1,1,2-Tetrachloroethane	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Toluene	N.D.	0.5
1,2,3-Trichlorobenzene	N.D.	1
1,2,4-Trichlorobenzene	N.D.	1
1,1,1-Trichloroethane	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Trichloroethene	N.D.	0.5
Trichlorofluoromethane	N.D.	0.5
1,2,3-Trichloropropane	N.D.	1
1,2,4-Trimethylbenzene	N.D.	1
1,3,5-Trimethylbenzene	N.D.	1
Vinyl Chloride	N.D.	0.5
m+p-Xylene	N.D.	0.5
o-Xylene	N.D.	0.5
Batch number: 16363A53A	Sample number(s): 8759448-8759453	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 16364B20A	Sample number(s): 8759454	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 163590018A	Sample number(s): 8759449-8759452,8759454	
TPH-DRO CA C10-C28	N.D.	32
Batch number: 163630025A	Sample number(s): 8759453	
TPH-DRO CA C10-C28	N.D.	32

*- Outside of specification

- (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: 03/13/2017 14:40

Group Number: 1747732

Method Blank (continued)

Analysis Name	Result ug/l	MDL ug/l
Batch number: 163590019A	Sample number(s): 8759449-8759452,8759454	
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32
Batch number: 163630026A	Sample number(s): 8759453	
TPH-DRO CA C10-C28 w/ Si Gel	41	32

LCS/LCSD

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
Batch number: D170031AA	Sample number(s): 8759448								
Benzene	20	20.88			104		78-120		
Ethylbenzene	20	20.25			101		78-120		
Methyl Tertiary Butyl Ether	20	21.11			106		75-120		
Toluene	20	20.93			105		80-120		
Xylene (Total)	60	61.43			102		80-120		
Batch number: N170041AA	Sample number(s): 8759449-8759454								
Acetone	150	129.61	150	128.41	86	86	50-168	1	30
t-Amyl methyl ether	20	18.11	20	18.23	91	91	67-120	1	30
Benzene	20	19.76	20	19.63	99	98	78-120	1	30
Bromobenzene	20	19.53	20	19.35	98	97	80-120	1	30
Bromochloromethane	20	20.55	20	20.6	103	103	80-125	0	30
Bromodichloromethane	20	17.45	20	17.29	87	86	80-120	1	30
Bromoform	20	15.08	20	15.1	75	75	59-120	0	30
Bromomethane	20	16.01	20	15.39	80	77	55-123	4	30
2-Butanone	150	123.07	150	122.03	82	81	57-145	1	30
t-Butyl alcohol	200	183.43	200	182.71	92	91	70-128	0	30
n-Butylbenzene	20	19.39	20	18.98	97	95	68-120	2	30
sec-Butylbenzene	20	20.77	20	20.56	104	103	77-120	1	30
tert-Butylbenzene	20	19.96	20	19.63	100	98	74-121	2	30
Carbon Disulfide	20	18.05	20	18	90	90	58-120	0	30
Carbon Tetrachloride	20	18.46	20	18.22	92	91	74-130	1	30
Chlorobenzene	20	20.22	20	20.11	101	101	80-120	1	30
Chloroethane	20	14.77	20	14.97	74	75	56-120	1	30
2-Chloroethyl Vinyl Ether	20	16.57	20	16.35	83	82	65-120	1	30
Chloroform	20	18.37	20	18.11	92	91	80-120	1	30
Chloromethane	20	15.28	20	15.16	76	76	59-127	1	30
2-Chlorotoluene	20	20.27	20	20	101	100	80-120	1	30
4-Chlorotoluene	20	20	20	19.6	100	98	80-120	2	30
1,2-Dibromo-3-chloropropane	20	15.1	20	14.8	75	74	59-120	2	30
Dibromochloromethane	20	16.56	20	16.54	83	83	78-120	0	30
1,2-Dibromoethane	20	19.34	20	19.56	97	98	80-120	1	30
Dibromomethane	20	18.85	20	18.94	94	95	80-120	0	30
1,2-Dichlorobenzene	20	19.79	20	19.5	99	98	80-120	1	30

*- Outside of specification

(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: 03/13/2017 14:40

Group Number: 1747732

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
1,3-Dichlorobenzene	20	19.4	20	19.29	97	96	80-120	1	30
1,4-Dichlorobenzene	20	19.65	20	19.47	98	97	80-120	1	30
Dichlorodifluoromethane	20	15.47	20	15.54	77	78	49-134	0	30
1,1-Dichloroethane	20	17.71	20	17.62	89	88	80-120	0	30
1,2-Dichloroethane	20	15.57	20	15.71	78	79	66-128	1	30
1,1-Dichloroethene	20	20.62	20	20.27	103	101	76-124	2	30
cis-1,2-Dichloroethene	20	20.47	20	20.46	102	102	80-120	0	30
trans-1,2-Dichloroethene	20	20.72	20	20.85	104	104	80-120	1	30
1,2-Dichloropropane	20	18.39	20	18.26	92	91	80-120	1	30
1,3-Dichloropropane	20	17.81	20	18.06	89	90	80-120	1	30
2,2-Dichloropropane	20	17.5	20	17.42	87	87	66-128	0	30
1,1-Dichloropropene	20	17.66	20	17.58	88	88	78-120	0	30
cis-1,3-Dichloropropene	20	18.59	20	18.57	93	93	80-120	0	30
trans-1,3-Dichloropropene	20	17.49	20	17.64	87	88	76-120	1	30
Ethanol	500	430.08	500	448.98	86	90	47-155	4	30
Ethyl t-butyl ether	20	17.02	20	16.91	85	85	69-120	1	30
Ethylbenzene	20	19.56	20	19.71	98	99	78-120	1	30
Freon 113	20	20.34	20	20.05	102	100	64-136	1	30
Hexachlorobutadiene	20	17.43	20	15.94	87	80	61-127	9	30
2-Hexanone	100	77.2	100	77.28	77	77	49-146	0	30
di-Isopropyl ether	20	15.55	20	15.5	78	78	70-124	0	30
Isopropylbenzene	20	20.61	20	20.51	103	103	80-120	0	30
p-Isopropyltoluene	20	20.21	20	19.94	101	100	76-120	1	30
Methyl Tertiary Butyl Ether	20	18.01	20	18.14	90	91	75-120	1	30
4-Methyl-2-pentanone	100	79.24	100	79.6	79	80	55-141	0	30
Methylene Chloride	20	19.55	20	19.38	98	97	80-120	1	30
Naphthalene	20	17.05	20	16.51	85	83	59-120	3	30
n-Propylbenzene	20	20.1	20	19.88	100	99	79-121	1	30
Styrene	20	19.67	20	19.78	98	99	80-120	1	30
1,1,1,2-Tetrachloroethane	20	17.68	20	17.81	88	89	80-120	1	30
1,1,2,2-Tetrachloroethane	20	18.87	20	18.45	94	92	72-120	2	30
Tetrachloroethene	20	20.09	20	19.53	100	98	80-129	3	30
Toluene	20	20.06	20	20.09	100	100	80-120	0	30
1,2,3-Trichlorobenzene	20	17.02	20	16.32	85	82	69-120	4	30
1,2,4-Trichlorobenzene	20	18.06	20	17.58	90	88	72-120	3	30
1,1,1-Trichloroethane	20	18.54	20	18.4	93	92	66-126	1	30
1,1,2-Trichloroethane	20	19.22	20	19.23	96	96	80-120	0	30
Trichloroethene	20	20.21	20	19.73	101	99	80-120	2	30
Trichlorofluoromethane	20	15.68	20	15.58	78	78	67-129	1	30
1,2,3-Trichloropropane	20	19.01	20	19.09	95	95	80-120	0	30
1,2,4-Trimethylbenzene	20	19.9	20	19.73	99	99	75-120	1	30
1,3,5-Trimethylbenzene	20	19.99	20	19.89	100	99	75-120	0	30
Vinyl Chloride	20	17.36	20	17.54	87	88	63-121	1	30
m+p-Xylene	40	40.48	40	40.66	101	102	80-120	0	30
o-Xylene	20	19.96	20	19.86	100	99	80-120	0	30

Batch number: 16363A53A

Sample number(s): 8759448-8759453

*- Outside of specification

(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: 03/13/2017 14:40

Group Number: 1747732

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
TPH-GRO N. CA water C6-C12	1100	1044.61	1100	1076.22	95	98	77-120	3	30
Batch number: 16364B20A	Sample number(s): 8759454								
TPH-GRO N. CA water C6-C12	1100	1067.91	1100	1050.06	97	95	77-120	2	30
Batch number: 163590018A	Sample number(s): 8759449-8759452,8759454								
TPH-DRO CA C10-C28	1600	1411.92	1600	1401.99	88	88	53-115	1	20
Batch number: 163630025A	Sample number(s): 8759453								
TPH-DRO CA C10-C28	1600	1239.83	1600	1251.47	77	78	53-115	1	20
Batch number: 163590019A	Sample number(s): 8759449-8759452,8759454								
TPH-DRO CA C10-C28 w/ Si Gel	1600	1278.61	1600	1112.76	80	70	40-105	14	20
Batch number: 163630026A	Sample number(s): 8759453								
TPH-DRO CA C10-C28 w/ Si Gel	1600	1093.01	1600	1122.18	68	70	40-105	3	20

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: D170031AA	Sample number(s): 8759448 UNSPK: P759444									
Benzene	1.12	20	20.78	20	21.88	98	104	78-120	5	30
Ethylbenzene	2.22	20	21.91	20	23.7	98	107	78-120	8	30
Methyl Tertiary Butyl Ether	N.D.	20	17.5	20	19.14	87	96	75-120	9	30
Toluene	1.18	20	20.56	20	21.88	97	104	80-120	6	30
Xylene (Total)	0.755	60	59.97	60	64.01	99	105	80-120	7	30
Batch number: N170041AA	Sample number(s): 8759449-8759454 UNSPK: P767564									
Acetone	N.D.	150	118.25	150	112.45	79	75	50-168	5	30
t-Amyl methyl ether	N.D.	20	18.6	20	18.36	93	92	67-120	1	30
Benzene	N.D.	20	21.04	20	20.92	105	105	78-120	1	30
Bromobenzene	N.D.	20	20.49	20	20.27	102	101	80-120	1	30
Bromochloromethane	N.D.	20	21.52	20	21.32	108	107	80-125	1	30
Bromodichloromethane	N.D.	20	18.36	20	17.99	92	90	80-120	2	30
Bromoform	N.D.	20	15.53	20	15.18	78	76	59-120	2	30
Bromomethane	N.D.	20	15.38	20	12.75	77	64	55-123	19	30
2-Butanone	N.D.	150	122.36	150	120.64	82	80	57-145	1	30
t-Butyl alcohol	N.D.	200	186.68	200	184.82	93	92	70-128	1	30
n-Butylbenzene	N.D.	20	20.91	20	20.38	105	102	68-120	3	30

*- Outside of specification

- (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: 03/13/2017 14:40

Group Number: 1747732

MS/MSD (continued)

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
sec-Butylbenzene	N.D.	20	22.46	20	22.04	112	110	77-120	2	30
tert-Butylbenzene	N.D.	20	23.44	20	22.94	117	115	74-121	2	30
Carbon Disulfide	N.D.	20	20	20	19.55	100	98	58-120	2	30
Carbon Tetrachloride	N.D.	20	20.4	20	20.13	102	101	74-130	1	30
Chlorobenzene	N.D.	20	21.4	20	21.13	107	106	80-120	1	30
Chloroethane	N.D.	20	16.55	20	13.85	83	69	56-120	18	30
2-Chloroethyl Vinyl Ether	N.D.	20	N.D.	20	N.D.	0*	0*	65-120	0	30
Chloroform	N.D.	20	19.61	20	19.32	98	97	80-120	1	30
Chloromethane	N.D.	20	16.46	20	16.88	82	84	59-127	3	30
2-Chlorotoluene	N.D.	20	21.41	20	21.26	107	106	80-120	1	30
4-Chlorotoluene	N.D.	20	21.21	20	20.78	106	104	80-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	20	15.15	20	14.64	76	73	59-120	3	30
Dibromochloromethane	N.D.	20	17.09	20	16.94	85	85	78-120	1	30
1,2-Dibromoethane	N.D.	20	19.98	20	19.69	100	98	80-120	1	30
Dibromomethane	N.D.	20	19.35	20	19.34	97	97	80-120	0	30
1,2-Dichlorobenzene	N.D.	20	20.41	20	20.17	102	101	80-120	1	30
1,3-Dichlorobenzene	N.D.	20	20.51	20	20.3	103	101	80-120	1	30
1,4-Dichlorobenzene	N.D.	20	20.55	20	20.11	103	101	80-120	2	30
Dichlorodifluoromethane	N.D.	20	17.83	20	17.53	89	88	49-134	2	30
1,1-Dichloroethane	N.D.	20	19.06	20	18.83	95	94	80-120	1	30
1,2-Dichloroethane	N.D.	20	16.52	20	16.39	83	82	66-128	1	30
1,1-Dichloroethene	N.D.	20	22.91	20	22.02	115	110	76-124	4	30
cis-1,2-Dichloroethene	N.D.	20	21.97	20	21.53	110	108	80-120	2	30
trans-1,2-Dichloroethene	N.D.	20	22.82	20	22.13	114	111	80-120	3	30
1,2-Dichloropropane	N.D.	20	19.11	20	19.04	96	95	80-120	0	30
1,3-Dichloropropane	N.D.	20	18.6	20	18.21	93	91	80-120	2	30
2,2-Dichloropropane	N.D.	20	19.28	20	18.95	96	95	66-128	2	30
1,1-Dichloropropene	N.D.	20	19.57	20	19.41	98	97	78-120	1	30
cis-1,3-Dichloropropene	N.D.	20	19.07	20	19.03	95	95	80-120	0	30
trans-1,3-Dichloropropene	N.D.	20	18.17	20	17.92	91	90	76-120	1	30
Ethanol	N.D.	500	477.27	500	538.48	95	108	47-155	12	30
Ethyl t-butyl ether	N.D.	20	17.65	20	17.29	88	86	69-120	2	30
Ethylbenzene	N.D.	20	21.26	20	20.99	106	105	78-120	1	30
Freon 113	N.D.	20	22.89	20	22.21	114	111	64-136	3	30
Hexachlorobutadiene	N.D.	20	16.76	20	17.06	84	85	61-127	2	30
2-Hexanone	N.D.	100	79.56	100	78.62	80	79	49-146	1	30
di-Isopropyl ether	N.D.	20	16.24	20	16.06	81	80	70-124	1	30
Isopropylbenzene	N.D.	20	22.41	20	21.82	112	109	80-120	3	30
p-Isopropyltoluene	N.D.	20	21.75	20	21.22	109	106	76-120	2	30
Methyl Tertiary Butyl Ether	N.D.	20	18.58	20	18.22	93	91	75-120	2	30
4-Methyl-2-pentanone	N.D.	100	82.05	100	80.74	82	81	55-141	2	30
Methylene Chloride	N.D.	20	20.81	20	20.27	104	101	80-120	3	30
Naphthalene	2.94	20	16.67	20	16.65	69	69	59-120	0	30
n-Propylbenzene	N.D.	20	21.63	20	21.23	108	106	79-121	2	30
Styrene	N.D.	20	21.13	20	20.66	106	103	80-120	2	30
1,1,1,2-Tetrachloroethane	N.D.	20	19.19	20	18.69	96	93	80-120	3	30

*- Outside of specification

(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: 03/13/2017 14:40

Group Number: 1747732

MS/MSD (continued)

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
1,1,2,2-Tetrachloroethane	N.D.	20	19.29	20	18.85	96	94	72-120	2	30
Tetrachloroethene	N.D.	20	21.89	20	21.41	109	107	80-129	2	30
Toluene	N.D.	20	21.7	20	21.38	109	107	80-120	1	30
1,2,3-Trichlorobenzene	1.16	20	16.69	20	16.83	78	78	69-120	1	30
1,2,4-Trichlorobenzene	N.D.	20	17.94	20	18.11	90	91	72-120	1	30
1,1,1-Trichloroethane	N.D.	20	20.7	20	20.35	104	102	66-126	2	30
1,1,2-Trichloroethane	N.D.	20	19.89	20	19.62	99	98	80-120	1	30
Trichloroethene	N.D.	20	21.52	20	21.31	108	107	80-120	1	30
Trichlorofluoromethane	N.D.	20	17.79	20	17.59	89	88	67-129	1	30
1,2,3-Trichloropropane	N.D.	20	19.32	20	19.25	97	96	80-120	0	30
1,2,4-Trimethylbenzene	N.D.	20	21.15	20	20.75	106	104	75-120	2	30
1,3,5-Trimethylbenzene	N.D.	20	21.48	20	21.06	107	105	75-120	2	30
Vinyl Chloride	N.D.	20	19.86	20	19.77	99	99	63-121	0	30
m+p-Xylene	N.D.	40	43.71	40	43.07	109	108	80-120	1	30
o-Xylene	N.D.	20	21.3	20	20.93	107	105	80-120	2	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: D170031AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8759448	102	99	101	96
Blank	105	98	97	96
LCS	104	99	98	96
MS	102	99	99	102
MSD	103	101	98	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Full List w/ Sep. Xylenes
Batch number: N170041AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8759449	96	104	96	95
8759450	96	103	96	94
8759451	96	104	95	93
8759452	97	103	96	94
8759453	95	103	97	95
8759454	96	104	97	95
Blank	96	104	97	94
LCS	96	103	97	94

*- Outside of specification

- (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: 03/13/2017 14:40

Group Number: 1747732

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: 8260 Full List w/ Sep. Xylenes
Batch number: N170041AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCSD	96	102	98	95
MS	96	103	98	94
MSD	95	101	97	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16363A53A

	Trifluorotoluene-F
8759448	125
8759449	94
8759450	98
8759451	99
8759452	99
8759453	98
Blank	117
LCS	104
LCSD	106
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16364B20A

	Trifluorotoluene-F
8759454	91
Blank	90
LCS	101
LCSD	99
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 163590018A

	Orthoterphenyl
8759449	100
8759450	94
8759451	94
8759452	93
8759454	92
Blank	91
LCS	105
LCSD	101
Limits:	50-124

*- Outside of specification

- (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: 03/13/2017 14:40

Group Number: 1747732

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-DRO CA C10-C28 w/ Si Gel
Batch number: 163590019A

	Orthoterphenyl
8759449	91
8759450	75
8759451	83
8759452	74
8759454	77
Blank	91
LCS	94
LCSD	83

Limits: 42-126

Analysis Name: TPH-DRO CA C10-C28
Batch number: 163630025A

	Orthoterphenyl
8759453	91
Blank	82
LCS	93
LCSD	93

Limits: 50-124

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 163630026A

	Orthoterphenyl
8759453	74
Blank	64
LCS	77
LCSD	80

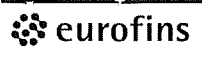
Limits: 42-126

*- Outside of specification

- (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.

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 10906
122116-01 500ml

For Eurofins Lancaster Laboratories Environmental use only
Group # 1747732 Sample # 8259448-54
Instructions on reverse side correspond with circled numbers.

Client Information				Matrix			Analyses Requested										SCR #: _____					
Facility # <u>SS#376584-OML G-R#385903 Global ID#0600101442</u> WBS				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air	Total Number of Containers	<input checked="" type="checkbox"/> 8260	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> 8015	<input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup	<input checked="" type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup	<input type="checkbox"/> Full Scan	<input type="checkbox"/> Oxygenates	<input type="checkbox"/> Total Lead	<input type="checkbox"/> Dissolved Lead	<input type="checkbox"/> Method	<input type="checkbox"/> Method	NAPHTHALENE (8260)	<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits			
Site Address <u>670 98th AVENUE, OAKLAND, CA</u>																						
Chevron PM <u>CM</u> STANTECTF Lead Consultant <u>Flora</u>																						
Consultant/Office <u>Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</u>																						
Consultant Project Mgr. <u>Deanna L. Harding, deanna@grinc.com</u>																						
Consultant Phone # <u>(925) 551-7444 x180</u>																						
Sampler <u>Alex W., Gilbert M.</u>																						
Sample Identification	Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	Full Scan	Oxygenates	Total Lead	Dissolved Lead	Method	Method	NAPHTHALENE (8260)	Remarks	
		Date	Time																			
<u>QA</u>		<u>161221</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<u>MW-1</u>			<u>0925</u>						<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	
<u>MW-2</u>			<u>0630</u>																			
<u>MW-3</u>			<u>0815</u>																			
<u>MW-4</u>			<u>0815</u>																			
<u>MW-5</u>			<u>0720</u>																			
<u>Well 18</u>			<u>0650</u>																			
Turnaround Time Requested (TAT) (please circle)				Relinquished by		Date	Time	Received by		Date	Time											
Standard 5 day 4 day				<u>[Signature]</u>		<u>161221</u>		<u>[Signature]</u>		<u>12/21/16</u>	<u>1130</u>											
72 hour 48 hour 24 hour				Relinquished by		Date	Time	Received by		Date	Time											
				<u>A. Salazar</u>		<u>21 DEC 16</u>	<u>1630</u>	<u>FX</u>														
Data Package (circle if required) EDF/EDD				Relinquished by		Date	Time	Received by		Date	Time											
Type I - Full Type VI (Raw Data)																						
EDD (circle if required)				Relinquished by Commercial Carrier:		Received by		Date	Time													
EDFFLAT (default) Other: _____				UPS _____ FedEx <u>1</u> Other _____		<u>[Signature]</u>		<u>12/22/16</u>	<u>12:00</u>													
				Temperature Upon Receipt <u>0.4</u> °C				Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														

Client: Chevron

Delivery and Receipt Information

Delivery Method:	<u>BASC</u>	Arrival Timestamp:	<u>12/22/2016 12:00</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>CA</u>		

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 \geq 6mm:	No
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 Porsha Hill (12046) at 13:52 on 12/22/2016

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	DT121	0.4	DT	Wet	Y	Bagged	N

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 \geq 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.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.