Carryl MacLeod
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6506
cmacleod@chevron.com

April 25, 2016

RECEIVED
By Alameda County Environmental Health 3:00 pm, Apr 27, 2016

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Texaco Station (Chevron 307233)
2259 First Street
Livermore, California
ACEHS Case RO0002908

I accept the First Semi-Annual 2016 Groundwater Monitoring and Sampling Report.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This First Semi-Annual 2016 Groundwater Monitoring and Sampling Report was prepared by GHD Services, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

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

Sincerely,

Carryl MacLeod
Project Manager

Attachment: First Semi-Annual 2016 Groundwater Monitoring and Sampling Report

April 25, 2016 Reference No. 312264

Ms. Dilan Roe
Alameda County Environmental Health Services (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577s

Re: First Semi-Annual 2016 - Groundwater Monitoring and Sampling Report
Former Texaco Station (Chevron 307233)
2259 First Street
Livermore, California
ACEHS Case RO0002908

Dear Ms. Roe:

1. Introduction

GHD Services Inc. (GHD) is submitting this *First Semi-Annual 2016 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan Inc. (G-R) of Dublin, California and their *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current and historical groundwater monitoring and sampling data are presented in Table 1 and current data are shown on Figures 2 and 3. Eurofins Lancaster Laboratories Environmental, LLCs' *Analytical Results* report is included as Attachment B.

2. Results of First Semi-Annual 2016 Event

On March 10, 2016, G-R gauged and sampled the site wells per the established schedule, with the exception of wells MW-7 through MW-11, due to either insufficient water or no water in the well.

Results of the current monitoring event indicate the following:

- Shallow Groundwater Flow Direction — Southwest
- Shallow Hydraulic Gradient — 0.3
- Deep Groundwater Flow Direction — Northwest
- Deep Hydraulic Gradient — 0.01
- Approximate Depth to Water - Shallow — 26 to 38 feet below grade
- Approximate Depth to Water - Deep — 41 to 43 feet below grade

Results of the current sampling event are presented below in Table A.

GHD Services Inc.
10969 Trade Center Drive Suite 107 Rancho Cordova California 95670 USA
T 916 889 8900 **F** 916 889 8999 **W** www.ghd.com

Table A: Groundwater Analytical Data – March 10, 2016

Well ID	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
ESLs	*100*	*100*	*1*	*40*	*30*	*20*
MW-1	<50/<50*/<50**	<50	<0.5	<0.5	<0.5	<0.5
MW-2	**170**/100*/96 J**	<50	<0.5	<0.5	<0.5	<0.5
MW-3	**700/170*/260****	**770**	<0.5	<0.5	<0.5	<0.5
MW-4	**860/330*/550****	**3,900**	**5**	1	5	4
MW-5	<50/<50*/<50**	58 J	<0.5	<0.5	<0.5	<0.5
MW-6	**330/300*/480****	**1,300**	**3**	<0.5	<0.5	<0.5
MW-7	**7,600/8,300*/11,000****	**14,000**	**1,500**	26	**190**	**53**
MW-8	Insufficient Water					
MW-9	<50/<50*/<50**	<50	<0.5	<0.5	<0.5	<0.5
MW-10	**240**/53 J*/**110****	**1,200**	<0.5	<0.5	<0.5	<0.5
MW-11	Insufficient Water					
MW-12	**670/160*/490****	**2,400**	**5**	0.6 J	0.9 J	0.9 J

Units in micrograms per liter (µg/L)

Shallow-zone monitoring wells are MW-7 through MW-12; deep-zone monitoring wells are MW-1 through MW-6

ESL San Francisco Bay Region-Regional Water Quality Control Board, (RWQCB), *User's Guide: Derivation and Application of Environmental Screening Levels*, Interim Final, December 2013, Table F-1a.

NA Not Analyzed

* Analyzed with 10-gram silica gel cleanup

** Analyzed with extended column silica gel cleanup

J Estimated Value

BOLD Concentrations exceed ESLs

3. Conclusions and Recommendations

The results of ongoing groundwater monitoring and sampling at the site indicate the following:

- Dissolved TPHd, TPHg, and to a lesser extent benzene, are the primary constituents of concern at the site.
- Analytical results in the shallow zone are consistent with historical results which indicate a declining or stable trend.
- No measurable LNAPL was reported in any of the wells sampled during the current event.
- Hydrocarbon concentrations in deep zone wells are consistent with historical results and continue to decline or are stable. Dissolved hydrocarbons in the deep zone are defined downgradient by well MW-2.

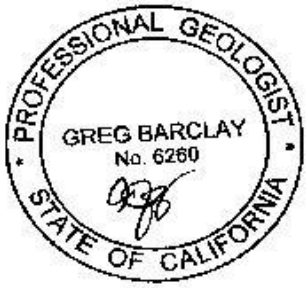
4. Anticipated Future Activities

G-R will conduct semi-annual monitoring and sampling of site wells during the third quarter 2016. GHD will submit a groundwater monitoring and sampling report.

Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

GHD



Brian Silva

Greg Barclay, PG 6260

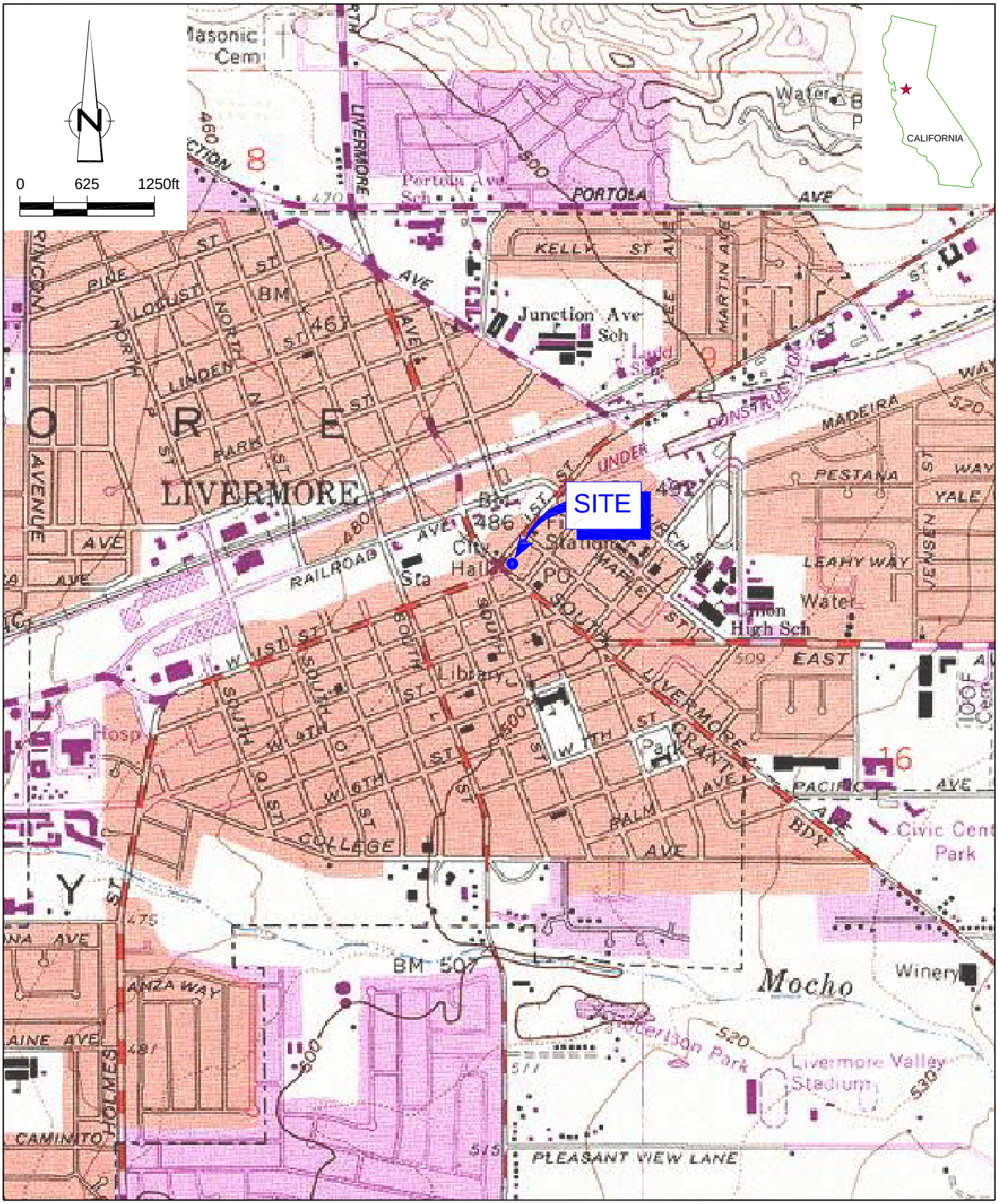
BS/cw/41

Encl.

Figure 1	Vicinity Map
Figure 2	Shallow-Zone Groundwater Elevation Contour and Hydrocarbon Concentration Map
Figure 3	Deep-Zone Groundwater Elevation Contour and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Groundwater Monitoring and Sampling Data Package
Attachment B	Laboratory Analytical Report

cc: Ms. Carryl MacLeod, Chevron *(electronic copy)*
Mr. Eric Uranaga, City of Livermore Community Development

Figures



SOURCE: TOPO! MAPS

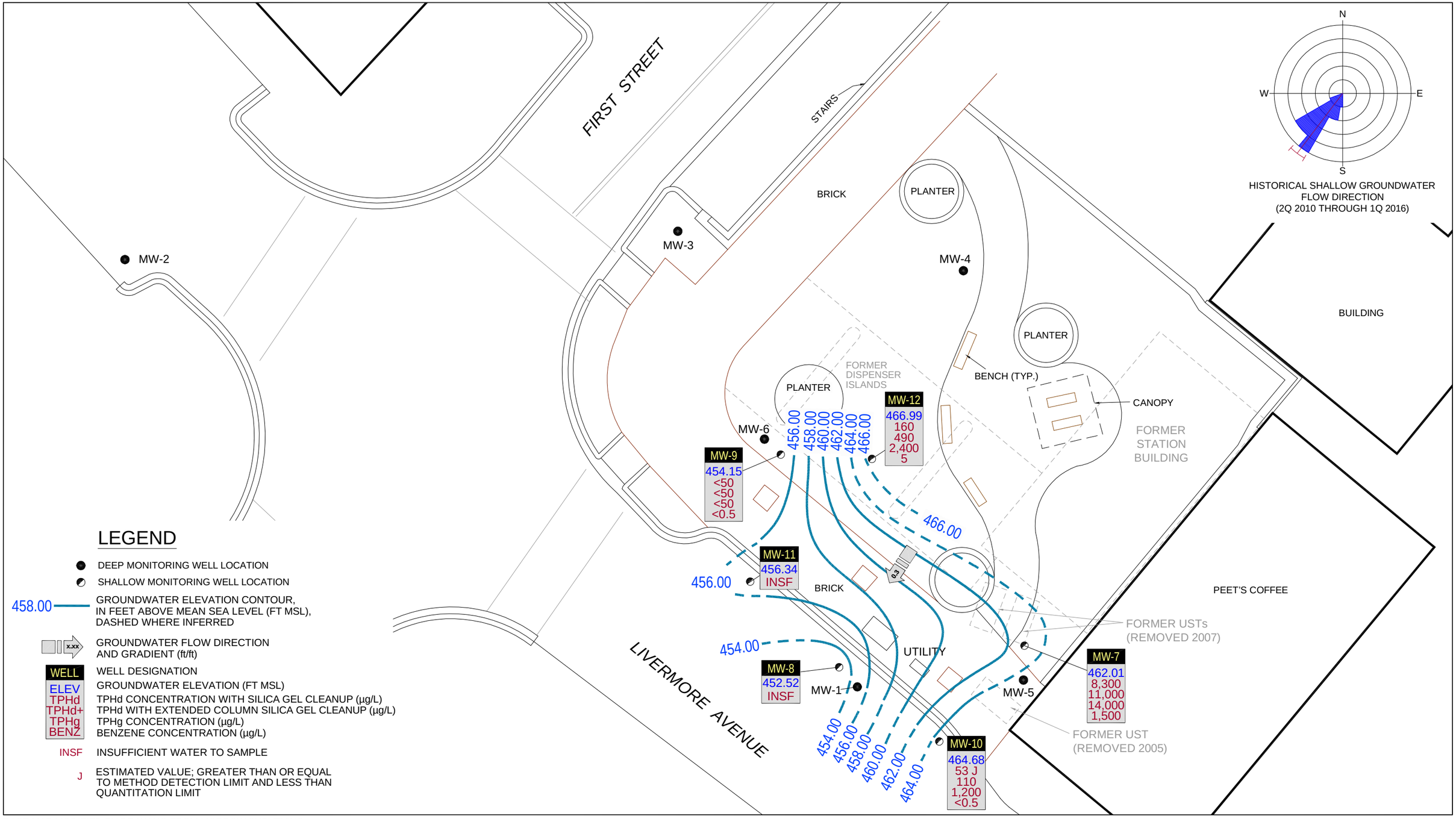
FORMER TEXACO STATION (CHEVRON STATION 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

312264-95
Apr 4, 2016

VICINITY MAP

FIGURE 1

CAD File: I:\Chevron\3122-\312264 30-7233 Livermore\312264 FIGURES\312264 RPTS\312264 RPT-041\312264-95(041)GN-EM001.dwg



BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.

0 10 20ft

FORMER TEXACO STATION (CHEVRON STATION 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

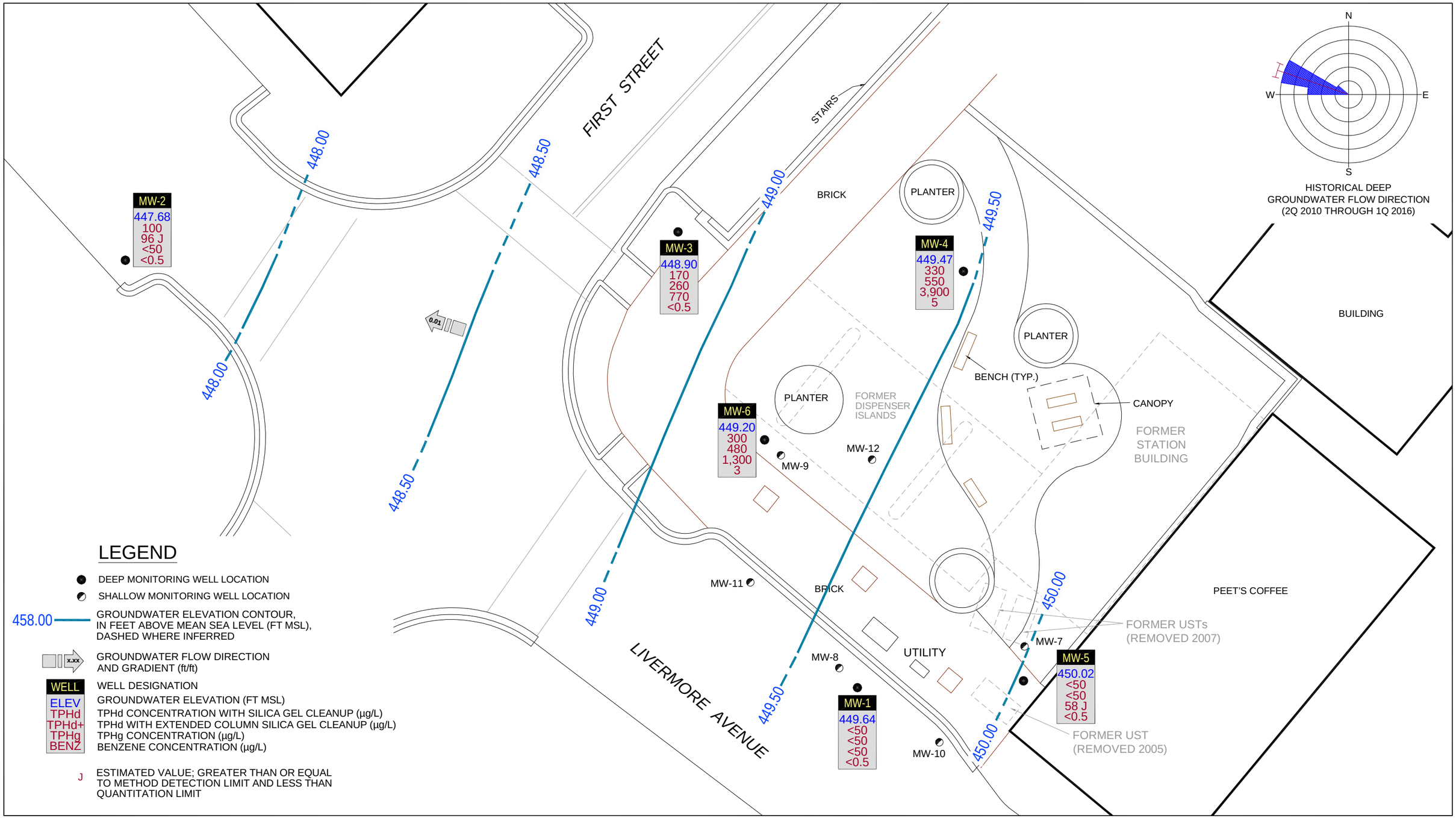
SHALLOW-ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - MARCH 10, 2016

312264-95

Apr 18, 2016

FIGURE 2

CAD File: I:\Chevron\3122-\312264 30-7233 Livermore\312264 FIGURES\312264 RPTS\312264 RPT-041\312264-95(041)GN-EM002.dwg



LEGEND

- DEEP MONITORING WELL LOCATION
- SHALLOW MONITORING WELL LOCATION
- 458.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL), DASHED WHERE INFERRED
- x.xx — GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
- WELL — WELL DESIGNATION
- ELEV — GROUNDWATER ELEVATION (FT MSL)
- TPHd — TPHd CONCENTRATION WITH SILICA GEL CLEANUP (µg/L)
- TPHd+ — TPHd WITH EXTENDED COLUMN SILICA GEL CLEANUP (µg/L)
- TPHg — TPHg CONCENTRATION (µg/L)
- BENZ — BENZENE CONCENTRATION (µg/L)
- J — ESTIMATED VALUE; GREATER THAN OR EQUAL TO METHOD DETECTION LIMIT AND LESS THAN QUANTITATION LIMIT

BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.

0 10 20ft

FORMER TEXACO STATION (CHEVRON STATION 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

DEEP-ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - MARCH 10, 2016

312264-95
Apr 18, 2016

FIGURE 3

CAD File: I:\Chevron\3122-\312264 30-7233 Livermore\312264 FIGURES\312264 RPTS\312264 RPT-041\312264-95(041)GN-EM003.dwg

Table

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	05/25/2010[1]	490.86	30.62	460.24	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/27/2010	490.86	30.65	460.21	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	09/13/2010	490.86	36.49	454.37	0.00	0.00	51	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	12/20/2010	490.86	32.24	458.62	0.00	0.00	-	79	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	03/07/2011	490.86	27.86	463.00	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	6,900	73,600	-	<10	-	-	-	-
MW-1	06/06/2011	490.86	27.10	463.76	0.00	0.00	-	220	<50	<0.5	<0.5	<0.5	<0.5	7,000	71,000	-	<10	-	-	-	-
MW-1	09/19/2011	490.86	31.26	459.60	0.00	0.00	-	450/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	03/09/2012[7]	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/12/2012[4]	490.86	41.35	449.51	0.00	0.00	-	<50/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	06/04/2012[7]	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/10/2012[4]	490.86	40.67	450.19	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	12/10/2012[7]	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/04/2013[4]	490.86	30.35	460.51	0.00	0.00	-	170 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	06/03/2013[7]	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/09/2013[4]	490.86	34.08	456.78	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	12/09/2013[7]	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	03/27/2014[4]	490.86	35.48	455.38	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	06/19/2014[7]	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	09/11/2014	490.86	51.68	439.18	0.00	0.00	-	57 J / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	03/24/2015[4]	490.86	41.07	449.79	0.00	0.00	-	270 / 73 J	370	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	09/24/2015[4]	490.86	52.82	438.04	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	**03/10/2016[4]**	**490.86**	**41.22**	**449.64**	**0.00**	**0.00**	**<50**	**<50 / <50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-2	05/25/2010[1]	489.43	31.18	458.25	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	05/27/2010	489.43	31.11	458.32	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	09/13/2010	489.43	36.96	452.47	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	12/20/2010	489.43	32.62	456.81	0.00	0.00	-	52	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	03/07/2011	489.43	28.26	461.17	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	3,600	45,900	-	20	-	-	-	-
MW-2	06/06/2011	489.43	27.73	461.70	0.00	0.00	-	220	<50	<0.5	<0.5	<0.5	<0.5	2,900	43,600	-	<10	-	-	-	-
MW-2	09/19/2011	489.43	31.92	457.51	0.00	0.00	-	230/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	03/09/2012[7]	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/12/2012[4]	489.43	41.84	447.59	0.00	0.00	-	<50/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	06/04/2012[7]	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/10/2012[4]	489.43	41.32	448.11	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	12/10/2012[7]	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/04/2013[4]	489.43	30.91	458.52	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	06/03/2013[7]	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/09/2013[4]	489.43	34.76	454.67	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	12/09/2013[7]	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/27/2014[4]	489.43	35.84	453.59	0.00	0.00	-	91 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	06/19/2014[7]	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/11/2014	489.43	52.06	437.37	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	03/24/2015[4]	489.43	41.58	447.85	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	09/24/2015[4]	489.43	53.17	436.26	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	**03/10/2016[4]**	**489.43**	**41.75**	**447.68**	**0.00**	**0.00**	**170**	**100 / 96 J**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-3	05/25/2010[1]	490.38	30.17	460.21	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/27/2010	490.38	30.98	459.40	0.00	0.00	610	-	2,100	2	<0.5	<0.5	0.9	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	09/13/2010	490.38	36.77	453.61	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	12/20/2010	490.38	32.41	457.97	0.00	0.00	-	97	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	03/07/2011	490.38	28.06	462.32	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	4,300	70,400	-	53	-	-	-	-
MW-3	06/06/2011	490.38	27.28	463.10	0.00	0.00	-	110	<50	<0.5	<0.5	<0.5	<0.5	3,900	66,400	-	17	-	-	-	-
MW-3	09/19/2011	490.38	31.21	459.17	0.00	0.00	-	170/230	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	03/09/2012[7]	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/12/2012[4]	490.38	41.66	448.72	0.00	0.00	-	<50/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	06/04/2012[7]	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/10/2012[4]	490.38	41.02	449.36	0.00	0.00	-	<50 / <50	<50	<5	<5	<5	<5	-	-	-	-	-	-	-	-
MW-3	12/10/2012[7]	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/04/2013[4]	490.38	30.58	459.80	0.00	0.00	-	360 / 240	1,500	150	3	2	3	-	-	-	-	-	-	-	-
MW-3	06/03/2013[7]	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/09/2013[4]	490.38	34.38	456.00	0.00	0.00	-	250 / 170	910	50	1	0.7	2	-	-	-	-	-	-	-	-
MW-3	12/09/2013[7]	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/27/2014[4]	490.38	35.68	454.70	0.00	0.00	-	660 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	06/19/2014[7]	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	09/11/2014	490.38	51.88	438.50	0.00	0.00	-	250 / 110	1,500	26	1	0.8 J	2	-	-	-	-	-	-	-	-
MW-3	03/24/2015[4]	490.38	41.33	449.05	0.00	0.00	-	2,700 / 1,600	2,100	1	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	09/24/2015[4]	490.38	53.11	437.27	0.00	0.00	-	74 J / <50	77 J	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	**03/10/2016[4]**	**490.38**	**41.48**	**448.90**	**0.00**	**0.00**	**700**	**170 / 260**	**770**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-4	05/25/2010[1]	492.27	32.21	460.06	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/27/2010	492.27	32.26	460.01	0.00	0.00	230	-	1,800	1	<0.5	<0.5	0.7	-	-	-	-	-	-	-	-
MW-4	09/13/2010	492.27	38.14	454.13	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	12/20/2010	492.27	33.80	458.47	0.00	0.00	-	180	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-4	03/07/2011	492.27	29.42	462.85	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	7,900	72,300	-	15	-	-	-	-
MW-4	06/06/2011	492.27	28.52	463.75	0.00	0.00	-	87	<50	<0.5	<0.5	<0.5	<0.5	7,500	67,700	-	<10	-	-	-	-
MW-4	09/19/2011	492.27	32.78	459.49	0.00	0.00	-	330/140	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-4	03/09/2012[7]	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/12/2012[4]	492.27	42.99	449.28	0.00	0.00	-	130/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-4	06/04/2012[7]	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/10/2012[4]	492.27	42.30	449.97	0.00	0.00	-	580 / 310	2,400	2	0.7	2	2	-	-	-	-	-	-	-	-
MW-4	12/10/2012[7]	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/04/2013[4]	492.27	31.89	460.38	0.00	0.00	-	170 / 100	350	<0.5	<0.5	0.6	<0.5	-	-	-	-	-	-	-	-
MW-4	06/03/2013[7]	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/09/2013[4]	492.27	35.67	456.60	0.00	0.00	-	76 / 65	190	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-4	12/09/2013[7]	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	03/27/2014[4]	492.27	37.05	455.22	0.00	0.00	-	750 / 530	3,000	2	0.8	4	3	-	-	-	-	-	-	-	-
MW-4	06/19/2014[7]	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	09/11/2014	492.27	53.21	439.06	0.00	0.00	-	760 / 400	2,700	4	2	5	6	-	-	-	-	-	-	-	-
MW-4	03/24/2015[4]	492.27	42.63	449.64	0.00	0.00	-	950 / 510	3,000	4	2	9	6	-	-	-	-	-	-	-	-
MW-4	09/24/2015[4]	492.27	54.30	437.97	0.00	0.00	-	900 / 490	3,500	9	3	8	8	-	-	-	-	-	-	-	-
MW-4	**03/10/2016[4]**	**492.27**	**42.80**	**449.47**	**0.00**	**0.00**	**860**	**330 / 550**	**3,900**	**5**	**1**	**5**	**4**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-5	05/25/2010[1]	491.99	31.39	460.60	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	05/27/2010	491.99	31.42	460.57	0.00	0.00	120	-	420	2	<0.5	<0.5	1	-	-	-	-	-	-	-	-
MW-5	09/13/2010	491.99	37.25	454.74	0.00	0.00	700	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	12/20/2010	491.99	33.01	458.98	0.00	0.00	-	74	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-5	03/07/2011	491.99	28.60	463.39	0.00	0.00	-	93	<50	<0.5	<0.5	<0.5	<0.5	7,900	70,100	-	23	-	-	-	-
MW-5	06/06/2011	491.99	27.71	464.28	0.00	0.00	-	<50	18,000	1,500	45	450	1,700	<250	2,700	-	11	-	-	-	-
MW-5	06/22/2011[2]	491.99	28.90	463.09	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	09/19/2011	491.99	31.94	460.05	0.00	0.00	-	240/410	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	03/09/2012[7]	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/12/2012[4]	491.99	42.15	449.84	0.00	0.00	-	95/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	06/4/2012[7]	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/10/2012[4]	491.99	41.39	450.60	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	12/10/2012[7]	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/04/2013[4]	491.99	31.07	460.92	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	06/03/2013[7]	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/09/2013[4]	491.99	34.79	457.20	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	12/09/2013[7]	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/27/2014[4]	491.99	36.18	455.81	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	06/19/2014[7]	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/11/2014	491.99	52.40	439.59	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	03/24/2015[4]	491.99	41.77	450.22	0.00	0.00	-	72 J / <50	170	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	09/24/2015[4]	491.99	53.48	438.51	0.00	0.00	-	<50 / <50	72 J	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-5	**03/10/2016[4]**	**491.99**	**41.97**	**450.02**	**0.00**	**0.00**	**<50**	**<50 / <50**	**58 J**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-6	05/25/2010[1]	491.52	31.63	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	05/27/2010	491.52	31.79	459.73	0.00	0.00	1,000	-	3,700	4	<0.5	<0.5	1	-	-	-	-	-	-	-	-
MW-6	09/13/2010	491.52	37.64	453.88	0.00	0.00	68	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-6	12/20/2010	491.52	33.32	458.20	0.00	0.00	-	140	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-6	03/07/2011	491.52	28.96	462.56	0.00	0.00	-	63	<50	<0.5	<0.5	<0.5	<0.5	360	55,400	-	33	-	-	-	-
MW-6	06/06/2011	491.52	28.08	463.44	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	5,300	54,000	-	<10	-	-	-	-
MW-6	09/19/2011	491.52	32.38	459.14	0.00	0.00	-	<50/380	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-6	03/09/2012[7]	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/12/2012[4]	491.52	42.50	449.02	0.00	0.00	-	54/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-6	06/4/2012[7]	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/10/2012[4]	491.52	41.82	449.70	0.00	0.00	-	86/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-6	12/10/2012[7]	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/04/2013[4]	491.52	31.45	460.07	0.00	0.00	-	210 / 160	210	0.6	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-6	06/03/2013[7]	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/09/2013[4]	491.52	35.22	456.30	0.00	0.00	-	120 / 66	110	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-6	12/09/2013[7]	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/27/2014[4]	491.52	36.58	454.94	0.00	0.00	-	160 / 160	870	<0.5	<0.5	0.6	<0.5	-	-	-	-	-	-	-	-
MW-6	06/19/2014[7]	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	09/11/2014	491.52	52.72	438.80	0.00	0.00	-	1600 / 990	1,700	17	0.9 J	0.9 J	0.9 J	-	-	-	-	-	-	-	-
MW-6	03/24/2015[4]	491.52	42.17	449.35	0.00	0.00	-	380 / 230	1,600	4	<0.5	1	0.7 J	-	-	-	-	-	-	-	-
MW-6	09/24/2015[4]	491.52	53.84	437.68	0.00	0.00	-	440 / 240	1,800	18	2	2	6	-	-	-	-	-	-	-	-
MW-6	**03/10/2016[4]**	**491.52**	**42.32**	**449.20**	**0.00**	**0.00**	**330**	**300 / 480**	**1,300**	**3**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-7	05/25/2010[1]	492.29	28.69	463.60	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	05/27/2010	492.29	28.61	463.68	0.00	0.00	2,800	-	14,000	1,800	35	320	660	-	-	-	-	-	-	-	-
MW-7	09/13/2010	492.29	31.75	460.54	0.00	0.00	40,000	-	16,000	1,700	33	460	600	-	-	-	-	-	-	-	-
MW-7	12/20/2010	492.29	27.96	464.33	0.00	0.00	-	6,200	15,000	2,800	59	450	530	-	-	-	-	-	-	-	-
MW-7	03/07/2011	492.29	24.98	467.31	0.00	0.00	-	55,000	16,000	1,500	50	470	2,100	<250	2,600	-	2,800	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-7	06/06/2011	492.29	24.12	468.17	0.00	0.00	-	24,000	<50	<0.5	<0.5	<0.5	<0.5	8,000	70,300	-	4,300	-	-	-	-
MW-7	06/22/2011[2]	492.29	26.71	465.58	0.00	0.00	-	-	19,000	1,800	47	490	2,200	-	-	-	-	-	-	-	-
MW-7	09/19/2011[3]	492.29	28.85	463.44	0.12	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/09/2012	492.29	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/12/2012[5]	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	06/04/2012[5,6]	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/10/2012[5,9]	492.29	32.62	459.67	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/10/2012[4,9]	492.29	28.77	463.52	0.00	0.00	-	180,000 / 150,000	21,000	2,300	47	400	550	-	250,000	<54	6,000	573,000	-	12,000	179,000
MW-7	03/04/2013[4,9]	492.29	29.63	462.66	0.00	0.00	-	46,000 / 34,000	18,000	1,900	26	370	390	-	221,000	880	6,300	679,000	-	16,000	127,000
MW-7	06/03/2013[9]	492.29	31.13	461.16	0.00	0.00	-	-	21,000	1,900	23	310	250	-	159,000	-	-	-	-	9,500	-
MW-7	09/09/2013[5,9]	492.29	32.38	459.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	12/09/2013[4,8,9]	492.29	31.78	460.51	0.00	0.00	-	94,000 / 82,000	17,000	2,600	22	400	220	-	-	-	-	-	-	-	-
MW-7	03/27/2014[4,8,9]	492.29	30.05	462.24	0.00	0.00	-	43,000 / 42,000	18,000	2,900	56	440	250	-	72,000	300	9,500	540,000	-	11,000	100,000
MW-7	06/19/2014[5, 9]	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/11/2014[5, 9]	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/24/2015[3,9]	492.29	31.92	460.37	0.02	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	09/24/2015[5,9]	492.29	32.40	459.89	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	**03/10/2016[5,9]**	**492.29**	**30.28**	**462.01**	**0.00**	**0.00**	**7,600**	**8,300 / 11,000**	**14,000**	**1,500**	**26**	**190**	**53**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-8	05/25/2010[1]	490.89	30.62	460.27	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	05/27/2010	490.89	30.78	460.11	0.00	0.00	750	-	3,100	36	3	<0.5	2	-	-	-	-	-	-	-	-
MW-8	09/13/2010	490.89	36.55	454.34	0.00	0.00	590	-	3,400	5	2	<0.5	1	-	-	-	-	-	-	-	-
MW-8	12/20/2010	490.89	31.60	459.29	0.00	0.00	-	750	4,000	0.8	0.7	19	3	-	-	-	-	-	-	-	-
MW-8	03/07/2011	490.89	28.20	462.69	0.00	0.00	-	1,300	2,800	0.9	0.7	12	2	<250	7,000	-	820	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-8	06/06/2011	490.89	27.38	463.51	0.00	0.00	-	4,300	3,100	0.9	0.7	5	1	<250	2,400	-	2,000	-	-	-	-
MW-8	09/19/2011	490.89	31.81	459.08	0.00	0.00	-	6,800/720	4,600	1	0.8	0.5	0.8	-	-	-	-	-	-	-	-
MW-8	03/09/2012	490.89	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	03/12/2012[5]	490.89	38.48	452.41	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	06/04/2012[4,8]	490.89	37.66	453.23	0.00	0.00	-	73,000/68,000	5,700	1	0.8	2	3	-	<1,500	<54	27,100	259,000	<700	2,000	31,200
MW-8	9/10/2012[5]	490.89	38.73	452.16	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	12/10/2012[4]	490.89	31.64	459.25	0.00	0.00	-	4,200 / 3,400	5,600	<3	<3	11	<3	-	<1,500	130	1,600	220,000	-	2,600	18,900
MW-8	03/04/2013[4]	490.89	30.85	460.04	0.00	0.00	-	9,400 / 6,300	4,700	<3	<3	<3	<3	-	<1,500	150	2,500	223,000	-	2,700	22,100
MW-8	06/03/2013[4]	490.89	33.60	457.29	0.00	0.00	-	1,700 / 1,600	5,000	17	0.9	<0.5	1	-	3,000	<54	5,100	301,000	-	2,500	36,400
MW-8	09/09/2013[4]	490.89	34.73	456.16	0.00	0.00	-	21,000 / 15,000	3,900	3	0.6	<0.5	0.6	-	<1,500	<54	7,100	305,000	-	1,000	34,700
MW-8	12/09/2013[4]	490.89	33.82	457.07	0.00	0.00	-	19,000 / 13,000	6,800	1	0.7	3	0.9	-	<1,500	220	3,200	219,000	-	2,400	22,000
MW-8	03/27/2014[4]	490.89	35.58	455.31	0.00	0.00	-	34,000 / 38,000	6,500	1	1	15	2	-	<1,500	240	9,600	185,000	-	3,400	31,900
MW-8	06/19/2014[5]	490.89	38.52	452.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	09/11/2014[5]	490.89	38.51	452.38	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	03/24/2015[5]	490.89	38.35	452.54	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	09/24/2015[5]	490.89	38.55	452.34	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	**03/10/2016[5]**	**490.89**	**38.37**	**452.52**	**0.00**	**0.00**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-9	05/25/2010[1]	491.64	29.23	462.41	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	05/27/2010	491.64	28.96	462.68	0.00	0.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	09/13/2010	491.64	31.85	459.79	0.00	0.00	30,000	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	12/20/2010	491.64	28.95	462.69	0.00	0.00	-	56	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	03/07/2011	491.64	25.67	465.97	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<250	172,000	-	48	-	-	-	-
MW-9	06/06/2011	491.64	24.67	466.97	0.00	0.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<250	228,000	-	<10	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9	09/19/2011	491.64	29.46	462.18	0.00	0.00	-	250/<50*	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	03/09/2012[7]	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/12/2012[4]	491.64	34.27	457.37	0.00	0.00	-	<50/<50*	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	06/04/2012[7]	491.64	35.80	455.84	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	9/10/2012[4]	491.64	36.53	455.11	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	12/10/2012[10]	491.64	32.80	458.84	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/04/2013[4]	491.64	29.67	461.97	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	135,000	<54	520	342,000	-	15	176,000
MW-9	06/03/2013[4]	491.64	31.30	460.34	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	127,000	<54	100	306,000	-	7.9	128,000
MW-9	09/09/2013[4]	491.64	35.55	456.09	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	133,000	<54	84	321,000	-	<3.0	74,300
MW-9	12/09/2013[4]	491.64	34.81	456.83	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	118,000	<54	<10	299,000	-	<3.0	61,800
MW-9	03/27/2014[4]	491.64	32.99	458.65	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	110,000	<54	82	303,000	-	9.2	132,000
MW-9	06/19/2014[5]	491.64	38.81	452.83	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	09/11/2014[11]	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	03/24/2015[4]	491.64	37.14	454.50	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	09/24/2015[11]	491.64	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	**03/10/2016**	**491.64**	**37.49**	**454.15**	**0.00**	**0.00**	**<50**	**<50 / <50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-10	03/09/2012[1]	491.15	28.00	463.15	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	03/12/2012[4]	491.15	28.11	463.04	0.00	0.00	-	440/260	3,100	<1	<1	36	16	-	-	-	-	-	-	-	-
MW-10	06/04/2012[4]	491.15	29.49	461.66	0.00	0.00	-	750/640	3,300	0.7	1	36	12	-	-	-	-	-	-	-	-
MW-10	09/10/2012[5]	491.15	32.10	459.05	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	12/10/2012[4]	491.15	26.03	465.12	0.00	0.00	-	240 / 200	950	<0.5	<0.5	2	2	-	-	-	-	-	-	-	-
MW-10	03/04/2013[4]	491.15	27.55	463.60	0.00	0.00	-	8,300 / 6,100	1,900	<0.5	<0.5	9	4	-	5,800	110	3,600	273,000	-	2,100	27,400
MW-10	06/03/2013[4]	491.15	28.79	462.36	0.00	0.00	-	4,700 / 5,300	4,200	0.9	1	32	15	-	<1,500	<54	9,400	252,000	-	5,200	36,700

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-10	09/09/2013[5]	491.15	31.88	459.27	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	12/09/2013[4]	491.15	28.18	462.97	0.00	0.00	-	5,100 / 3,400	6,500	0.8	2	49	17	-	6,000	180	2,900	255,000	-	2,500	24,800
MW-10	03/27/2014[4]	491.15	26.85	464.30	0.00	0.00	-	2,500 / 2,400	3,200	<0.5	<0.5	12	3	-	8,300	120	2,200	216,000	-	3,000	23,600
MW-10	06/19/2014[5]	491.15	31.89	459.26	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/11/2014[5]	491.15	32.04	459.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	03/24/2015[5]	491.15	31.46	459.69	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	09/24/2015[11]	491.15	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	**03/10/2016**	**491.15**	**26.47**	**464.68**	**0.00**	**0.00**	**240**	**53 J / 110**	**1,200**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-11	03/09/2012[1]	490.59	31.48	459.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/12/2012[4]	490.59	33.35	457.24	0.00	0.00	-	160/<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-11	06/04/2012[5]	490.59	34.22	456.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/10/2012[5]	490.59	34.48	456.11	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	12/10/2012[4]	490.59	32.50	458.09	0.00	0.00	-	55 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-11	03/04/2013[4]	490.59	28.11	462.48	0.00	0.00	-	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	59,600	<54	800	259,000	-	6.9	38,500
MW-11	06/03/2013[4]	490.59	31.53	459.06	0.00	0.00	-	690 / 200	<50	<0.5	<0.5	<0.5	<0.5	-	54,400	<54	670	-	-	490	-
MW-11	09/09/2013[5]	490.59	34.13	456.46	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	12/09/2013[4]	490.59	31.38	459.21	0.00	0.00	-	220 / <50	100	<0.5	<0.5	<0.5	<0.5	-	72,100	<54	230	284,000	-	210	43,900
MW-11	03/27/2014[4]	490.59	31.05	459.54	0.00	0.00	-	230 / 77	<50	<0.5	<0.5	<0.5	<0.5	-	47,600	<54	280	262,000	-	34	36,200
MW-11	06/19/2014[5]	490.59	34.23	456.36	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/11/2014[5]	490.59	34.22	456.37	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/24/2015[5]	490.59	34.05	456.54	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	09/24/2015[5]	490.59	34.35	456.24	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	**03/10/2016[5]**	**490.59**	**34.25**	**456.34**	**0.00**	**0.00**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-12	03/09/2012[1]	493.72	25.43	468.29	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	03/12/2012[4]	493.72	26.97	466.75	0.00	0.00	-	1,100/310	3,000	10	1	19	38	-	-	-	-	-	-	-	-
MW-12	06/04/2012[4]	493.72	26.54	467.18	0.00	0.00	-	990/510	4,200	15	2	12	23	-	-	-	-	-	-	-	-
MW-12	09/10/2012[4]	493.72	28.80	464.92	0.00	0.00	-	1,000 / 290	2,500	30	2	2	2	-	-	-	-	-	-	-	-
MW-12	12/10/2012[4]	493.72	25.36	468.36	0.00	0.00	-	840 / 330	2,500	10	<3	<3	<3	-	-	-	-	-	-	-	-
MW-12	03/04/2013[4]	493.72	25.61	468.11	0.00	0.00	-	1,800 / 590	3,200	26	2	20	16	-	19,400	<54	4,700	559,000	-	1,100	80,300
MW-12	06/03/2013[4]	493.72	29.50	464.22	0.00	0.00	-	450 / 260	3,000	12	0.8	9	6	-	14,700	<54	3,300	534,000	-	460	73,800
MW-12	09/09/2013[4]	493.72	27.32	466.40	0.00	0.00	-	720 / 280	3,300	33	2	19	14	-	9,500	<54	4,500	559,000	-	960	69,200
MW-12	12/09/2013[4]	493.72	24.68	469.04	0.00	0.00	-	670 / 260	2,500	19	3	2	1	-	14,900	<54	880	577,000	-	890	70,800
MW-12	03/27/2014[4]	493.72	24.82	468.90	0.00	0.00	-	1,000 / 230	2,100	5	2	1	2	-	3,100	<54	4,300	580,000	-	780	71,800
MW-12	06/19/2014[4]	493.72	28.09	465.63	0.00	0.00	-	1,000 / 260	3,000	23	2	18	13	-	-	-	-	-	-	-	-
MW-12	09/11/2014[4]	493.72	31.53	462.19	0.00	0.00	-	640 / 240	2,400	14	1	6	4	-	-	-	-	-	-	-	-
MW-12	03/24/2015[4]	493.72	29.88	463.84	0.00	0.00	-	720 / 240	1,300	9	0.8 J	1	2	-	-	-	-	-	-	-	-
MW-12	09/24/2015[4]	493.72	29.92	463.80	0.00	0.00	-	640 / 190	2,800	10	1	1	2	-	-	-	-	-	-	-	-
MW-12	**03/10/2016[4]**	**493.72**	**26.73**	**466.99**	**0.00**	**0.00**	**670**	**160 / 490**	**2,400**	**5**	**0.6 J**	**0.9 J**	**0.9 J**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
QA	05/27/2010	-	-	-			-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	09/13/2010	-	-	-			-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	12/20/2010	-	-	-			-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	03/07/2011	-	-	-			-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	06/06/2011	-	-	-			-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	06/22/2011	-	-	-			-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	09/19/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	03/12/2012	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	06/03/2013	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	09/09/2013	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	12/09/2013	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	03/27/2014	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	06/19/2014	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	09/11/2014	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	03/24/2015	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	09/24/2015	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	**03/10/2016**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

TOC elevations were surveyed on April 19, 2010 by Morrow Surveying. Vertical datum is NAVD 88 from GPS observations

ft = Feet

µg/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

							HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO3)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

E = Ethylbenzene

X = Xylenes (Total)

-- = Not available / not applicable

<x = Not detected at or above laboratory method detection limit

J = Estimated value; the result is ≥ the method detection limit (MDL) and < limit of quantitation (LOQ)

1 Well development performed.

2 Second quarter 2011 resampling event because MW-5 and MW-7 bottles for TPHg and BTEX analysis were switched during the original 6/6/2011 sampling event.

3 Monitored only due to the presence of NAPL.

4 Silica Gel Cleanup / 10 gram Column Silica Gel Cleanup with Capric Acid Reverse Surrogate.

5 Insufficient water to sample.

6 Sulfate canister in well

7 Monitoring and sampled during the first and third quarters only

8 Insufficient water for purging, so a grab-groundwater sample was collected

9 Skimmer in well

10 Monitored only

11 Dry Well

Attachment A
Groundwater Monitoring and Sampling Data Package

GETTLER-RYAN INC.

TRANSMITTAL

March 17, 2016
G-R #385876

TO: Mr. Brian Silva
GHD
10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670

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

RE: Former Chevron Service Station
#307233
2259 First Street
Livermore, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **First Semi-Annual Event of March 10, 2016**

COMMENTS:

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

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

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

trans/307233

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #307233

Site Address: 2259 First Street

City: Livermore, CA

Job #: 385876

Event Date: 3/10/16

Sampler: JD

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-1	OK							N	N	12" emco	N
MW-2	OK							↓	↓	↓	↓
MW-5	OK										
MW-7	OK									8" emco	
MW-8	OK									12" EMCO	
MW-10	OK									8" MORRISON	
MW-11	OK							↓	↓	12" emco	↓

Comments

WELL CONDITION STATUS SHEET

Client/ Facility #: Chevron #307233
Site Address: 2259 First Street
City: Livermore, CA

Job #: 385876
Event Date: 3.10.16
Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/(N)	REPLACE CAP Y/(N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/(N)
MW-3	OK	→	→	→	→	→	→	↓	↓	Mornison/ 6"/2	
MW-4	OK	→	→	S=2	OK	→	→			" " "	
MW-6	OK	OK	M=2	OK	OK	OK	OK			Mornison/ 6"/2	
MW-9	OK	→	→	→	→	→	→			" " "	
MW-12	OK	→	→	B=1	OK	→	→				

Comments: MW-6 & MW-9 NEEDS NEW COVERS (BROKEN BOLT HOLES).

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 3/10/16 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-1 Date Monitored: 3/10/16
Well Diameter 2 in.
Total Depth 58.84 ft.
Depth to Water 41.22 ft.

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

☐ Check if water column is less then 0.50 ft.

17.62 xVF .17 = 2.99 x3 case volume = Estimated Purge Volume: 8.58 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 44.74

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

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

Start Time (purge): 1000 Weather Conditions: Cloudy
Sample Time/Date: 1045 / 3/10/16 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Lt. Silt
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 44.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1010	3	7.77	735	20.5		
1020	6	7.62	719	20.4		
1030	9	7.48	705	20.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(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 #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 3/10/16 (inclusive)
City: Livermore, CA Sampler: JH

Well ID MW-2 Date Monitored: 3/10/16
Well Diameter 2 in.
Total Depth 58.60 ft.
Depth to Water 41.75 ft.

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

☐ Check if water column is less then 0.50 ft.

16.85 xVF .17 = 2.86 x3 case volume = Estimated Purge Volume: 8.59 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 45.12

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

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

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

Start Time (purge): 0630 Weather Conditions: Cloudy
Sample Time/Date: 0700 / 3/10/16 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 43.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0633	3	7.75	819	20.4		
0636	6	7.69	805	20.2		
0639	9	7.52	792	20.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(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 #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 3.10.16 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-3 Date Monitored: 3.10.16
Well Diameter 2 in.
Total Depth 59.94 ft.
Depth to Water 41.48 ft. ☐ Check if water column is less then 0.50 ft.

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

18.46 xVF .17 = 3.13 x3 case volume = Estimated Purge Volume: 9.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 45.17

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

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

Start Time (purge): 0855 Weather Conditions: CLOUDY
Sample Time/Date: 0927 / 3.10.16 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: / gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 42.01

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0902	3.0	7.22	603	18.9		
0909	6.0	7.19	610	19.1		
0916	9.0	7.16	618	19.3	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(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 #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 3.10.16 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-4 Date Monitored: 3.10.16
Well Diameter 2 in.
Total Depth 58.95 ft.
Depth to Water 42.80 ft. ☐ Check if water column is less then 0.50 ft.

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

16.15 xVF .17 = 2.74 x3 case volume = Estimated Purge Volume: 8.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 46.03

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

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

Start Time (purge): 0945 Weather Conditions: CLOUDY
Sample Time/Date: 1015 / 3.10.16 Water Color: CLEAR Odor: Ⓨ / N MODERATE
Approx. Flow Rate: / gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 43.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0951	2.5	6.96	748	18.9		
0957	5.0	6.94	755	19.1	/	/
1004	8.0	6.91	761	19.2	/	/
					/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(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 #307233 | Job Number: 385876
Site Address: 2259 First Street | Event Date: 3/10/16 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-5 | Date Monitored: 3/10/16
Well Diameter: 2 in.
Total Depth: 55.91 ft.
Depth to Water: 41.97 ft.

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

☐ Check if water column is less then 0.50 ft.

17.94 xVF .17 = 3.04 x3 case volume = Estimated Purge Volume: 9.14 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 45.55

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0815 | Weather Conditions: Cloudy
Sample Time/Date: 0900 / 3/10/16 | Water Color: Cloudy | Odor: (Y) N Low
Approx. Flow Rate: — gpm. | Sediment Description: Low
Did well de-water? NO | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 43.77

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0825	3	7.46	760	20.5		
0835	6	7.41	743	20.3		
0845	9	7.33	729	20.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(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 #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 3.10.16 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-6 Date Monitored: 3.10.16
Well Diameter 2 in.
Total Depth 59.04 ft.
Depth to Water 42.32 ft. ☐ Check if water column is less then 0.50 ft.

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

16.72 xVF .17 = 2.84 x3 case volume = Estimated Purge Volume: 9.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 45.66

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

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

Start Time (purge): 0807 Weather Conditions: CLOUDY
Sample Time/Date: 0840 / 3.10.16 Water Color: LT. BRN. Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 43.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/cm mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0814	3.0	7.10	754	18.4		
0821	6.0	7.07	760	18.7		
0828	9.0	7.05	767	18.9	✓	✓

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: NEEDS NEW WELL COVER (2 BROKEN BOLT HOLES).

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #307233 | Job Number: 385876
Site Address: 2259 First Street | Event Date: 3/10/16 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-7 | Date Monitored: 3/10/16
Well Diameter: 2 in.
Total Depth: 32.70 ft.
Depth to Water: 30.28 ft.

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

☐ Check if water column is less then 0.50 ft.

2.42 xVF .17 = .41 x3 case volume = Estimated Purge Volume: 1.23 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 30.76

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

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 0800 | Weather Conditions: Cloudy
Sample Time/Date: 1130 / 3/10/16 | Water Color: Cloudy | Odor: (Y) N Strong
Approx. Flow Rate: — gpm. | Sediment Description: Lt. Brn
Did well de-water? Yes | If yes, Time: 0804 | Volume: .5 gal. | DTW @ Sampling: 30.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0804	.5	7.34	845	19.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: Skimmer in Well

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 | Job Number: 385876
Site Address: 2259 First Street | Event Date: 3/10/16 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-8 | Date Monitored: 3/10/16
Well Diameter: 2 in.
Total Depth: 38.62 ft.
Depth to Water: 38.37 ft.

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

☐ Check if water column is less then 0.50 ft.

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

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: Insufficient H2O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 3.10.16 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-9 Date Monitored: 3.10.16
Well Diameter 2 in.
Total Depth 39.82 ft.
Depth to Water 37.49 ft.

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

☐ Check if water column is less then 0.50 ft.

2.33 xVF .17 = .39 x3 case volume = Estimated Purge Volume: 1.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 37.95

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

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

Start Time (purge): 0745 Weather Conditions: Cloudy
Sample Time/Date: 1110 / 3.10.16 Water Color: BRN. Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. Sediment Description: Silty
Did well de-water? Yes If yes, Time: 0751 Volume: .50 gal. DTW @ Sampling: 37.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/ mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0748	.25	7.08	865	18.1		
0751	.50	7.07	868	18.2	✓	✓

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: NEEDS NEW WELL COVER (2 BROKEN BOLT HOLES).

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 | Job Number: 385876
Site Address: 2259 First Street | Event Date: 3/10/16 (inclusive)
City: Livermore, CA | Sampler: JH

Well ID: MW-10 | Date Monitored: 3/10/16
Well Diameter: 2 in.
Total Depth: 32.06 ft.
Depth to Water: 26.47 ft.

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

☐ Check if water column is less then 0.50 ft.

5.59 xVF .17 = .95 x3 case volume = Estimated Purge Volume: 2.85 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.58

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

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

Start Time (purge): 0920 | Weather Conditions: cloudy
Sample Time/Date: 1200 / 3/10/16 | Water Color: cloudy | Odor: (Y) N | Lt HC
Approx. Flow Rate: — gpm. | Sediment Description: Lt SHC
Did well de-water? yes | If yes, Time: 0930 | Volume: 2 gal. | DTW @ Sampling: 27.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0925	1	7.49	865	20.7		
0930	2	7.31	895	20.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(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 #307233** Job Number: **385876**

Site Address: **2259 First Street** Event Date: 3/10/16 (inclusive)

City: **Livermore, CA** Sampler: JH

Well ID **MW-11** Date Monitored: 3/10/16

Well Diameter **2** in.

Total Depth **34.64** ft.

Depth to Water **34.25** ft.

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

☑ Check if water column is less then 0.50 ft.

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

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): ___ Weather Conditions: ___

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: Insufficient H2O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 3.10.16 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-12 Date Monitored: 3.10.16
Well Diameter 2 in.
Total Depth 34.53 ft.
Depth to Water 26.73 ft.

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

☐ Check if water column is less then 0.50 ft.

7.80 xVF .17 = 1.32 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 28.29

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

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

Start Time (purge): 1030 Weather Conditions: CLOUDY
Sample Time/Date: 1050 / 3.10.16 Water Color: CLEAR Odor: Y / N SLIGHT
Approx. Flow Rate: ✓ gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 27.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1033	1.5	6.75	1115	18.6		
1036	3.0	6.73	1121	18.9		
1039	4.0	6.74	1127	19.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories 5ØØ

Ø31616-01

For Eurofins Lancaster Laboratories use only
Acct. # ______ Group # ______ Sample # ______
Instructions on reverse side correspond with circled numbers.

SCR #: ______

① Client Information

Facility # SS#307233-OML G-R#385876 Global ID#T0600196622 WBS

Site Address 2259 FIRST STREET, LIVERMORE, CA

Chevron PM CM GHDSB Lead Consultant Silva

Consultant/Office Gettler-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 Jim Herzon

④ Matrix

- ☐ Sediment ☒ Ground ☐ Surface (Water)
- ☐ Potable ☐ NPDES ☐ Air
- ☐ Soil ☐ Oil

⑤ Analyses Requested

BTEX + MTBE 8260 ☒ 8021 ☐; TPH-GRO 8260 ☐ 8015 ☒; TPH-DRO 8015 without Silica Gel Cleanup ☒; TPH-DRO 8015 with Silica Gel Cleanup ☒; 8260 Full Scan; Oxygenates; Total Lead Method; Dissolved Lead Method

② Sample Identification	Soil Depth	Date	Time	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	Dissolved Lead				
QA		3/10/16	—	X			X		2	X	X										
MW-1		↓	1045	↓			↓		8	↓	↓	X	X								
MW-2			0700																		
MW-3			0927																		
MW-4			1015																		
MW-5			0900																		
MW-6			0840																		
MW-7			1130																		
MW-9			1110																		
MW-10			1200																		
MW-12		↓	1050	↓			↓		↓	↓	↓	↓	↓								

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ______ oxy's on highest hit
- ☐ Run ______ oxy's on all hits

⑥ Remarks

Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results

Amended COC: added times. DW

⑦ Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day
72 hour 48 hour 24 hour EDF/EDD

⑧ Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)
EDFFLAT (default)
Other: ______

Relinquished by	Date	Time	Received by	Date	Time
[signature]	3/10/16	12:00	[signature]	3.10.16	12:00
[signature]	3.10.16	14:10	A. Salazar	10 MAR 16	1410
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			Received by	Date	Time

⑨

Temperature Upon Receipt ______ °C

Custody Seals Intact? Yes No

Attachment B
Laboratory Analytical Report

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

Report Date: March 29, 2016

Project: 307233

Submittal Date: 03/14/2016
Group Number: 1640572
PO Number: 0015188594
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-160310 NA Water	8285656
MW-1-W-160310 Grab Groundwater	8285657
MW-1-W-160310 Grab Groundwater	8285658
MW-2-W-160310 Grab Groundwater	8285659
MW-2-W-160310 Grab Groundwater	8285660
MW-3-W-160310 Grab Groundwater	8285661
MW-3-W-160310 Grab Groundwater	8285662
MW-4-W-160310 Grab Groundwater	8285663
MW-4-W-160310 Grab Groundwater	8285664
MW-5-W-160310 Grab Groundwater	8285665
MW-5-W-160310 Grab Groundwater	8285666
MW-6-W-160310 Grab Groundwater	8285667
MW-6-W-160310 Grab Groundwater	8285668
MW-7-W-160310 Grab Groundwater	8285669
MW-7-W-160310 Grab Groundwater	8285670
MW-9-W-160310 Grab Groundwater	8285671
MW-9-W-160310 Grab Groundwater	8285672
MW-10-W-160310 Grab Groundwater	8285673
MW-10-W-160310 Grab Groundwater	8285674
MW-12-W-160310 Grab Groundwater	8285675
MW-12-W-160310 Grab Groundwater	8285676

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 scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	GHD	Attn: Brian Silva
Electronic Copy To	Chevron	Attn: Anna Avina
Electronic Copy To	Chevron	Attn: Report Contact
Electronic Copy To	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-160310 NA Water
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285656
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLQA

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	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

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160764AA	03/16/2016 21:54	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160764AA	03/16/2016 21:54	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16077C20A	03/18/2016 19:30	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16077C20A	03/18/2016 19:30	Jeremy C Giffin	1

Sample Description: MW-1-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285657
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 10:45 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLM1

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	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
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160764AA	03/16/2016 23:31	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160764AA	03/16/2016 23:31	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16077C20A	03/19/2016 00:06	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16077C20A	03/19/2016 00:06	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 11:53	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 16:28	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

eurofins | Lancaster Laboratories Environmental

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

Analysis Report

Sample Description: MW-1-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285658
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 10:45 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FLM1Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 17:16	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-2-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285659
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 07:00 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLM2

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	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
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	170	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	100	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160764AA	03/16/2016 23:55	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160764AA	03/16/2016 23:55	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16077C20A	03/19/2016 00:33	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16077C20A	03/19/2016 00:33	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 12:15	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 16:49	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-2-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285660
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 07:00 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FLM2Q

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	96	J	50	1
	The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 17:38	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-3-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285661
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 09:27 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLM3

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	4	0.5	1
10945	Ethylbenzene	100-41-4	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.	770	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	700	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	170	50	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160764AA	03/17/2016 00:19	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160764AA	03/17/2016 00:19	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16077C20A	03/19/2016 01:01	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16077C20A	03/19/2016 01:01	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 12:36	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 17:11	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-3-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285662
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 09:27 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FLM3Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	260	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 17:59	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-4-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285663
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 10:15 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLM4

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	5	0.5	1
10945	Ethylbenzene	100-41-4	5	0.5	1
10945	Toluene	108-88-3	1	0.5	1
10945	Xylene (Total)	1330-20-7	4	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,900	250	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	860	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	330	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160764AA	03/17/2016 00:43	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160764AA	03/17/2016 00:43	Hu Yang	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16077C20A	03/19/2016 04:14	Jeremy C Giffin	5
01146	GC VOA Water Prep	SW-846 5030B	1	16077C20A	03/19/2016 04:14	Jeremy C Giffin	5
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 12:58	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 17:32	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-4-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285664
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 10:15 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FLM4Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	550	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 18:21	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-5-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285665
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 09:00 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLM5

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	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.	58	J	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.		50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.		50	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160772AA	03/17/2016 11:22	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160772AA	03/17/2016 11:22	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16077C20A	03/19/2016 01:28	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16077C20A	03/19/2016 01:28	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 15:07	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 17:54	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-5-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285666
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 09:00 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FLM5Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 20:30	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-6-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285667
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 08:40 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLM6

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	3	0.5	1
10945	Ethylbenzene	100-41-4	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.	1,300	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	330	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	300	50	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160772AA	03/17/2016 11:46	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160772AA	03/17/2016 11:46	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16077C20A	03/19/2016 02:23	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16077C20A	03/19/2016 02:23	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 13:19	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 18:16	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-6-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285668
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 08:40 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FLM6Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	480	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 18:43	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-7-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285669
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 11:30 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLM7

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	1,500	10	20
10945	Ethylbenzene	100-41-4	190	10	20
10945	Toluene	108-88-3	26	10	20
10945	Xylene (Total)	1330-20-7	53	10	20
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	14,000	1,000	20
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	7,600	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	8,300	50	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160772AA	03/17/2016 12:58	Daniel H Heller	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160772AA	03/17/2016 12:58	Daniel H Heller	20
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16077C20A	03/19/2016 04:42	Jeremy C Giffin	20
01146	GC VOA Water Prep	SW-846 5030B	1	16077C20A	03/19/2016 04:42	Jeremy C Giffin	20
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 14:45	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 18:38	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-7-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285670
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 11:30 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FLM7Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	11,000	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 20:09	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-9-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285671
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 11:10 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSLM9

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	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
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160772AA	03/17/2016 13:22	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160772AA	03/17/2016 13:22	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16078B94A	03/22/2016 12:29	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16078B94A	03/22/2016 12:29	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 13:41	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 18:59	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-9-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285672
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 11:10 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FLM9Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 19:04	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-10-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285673
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 12:00 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSL10

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	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.	1,200		50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	240		50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	53	J	50	1
	The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160772AA	03/17/2016 13:46	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160772AA	03/17/2016 13:46	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16078B94A	03/22/2016 12:55	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16078B94A	03/22/2016 12:55	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 14:02	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 19:21	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-10-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285674
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 12:00 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FL10Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	110	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 19:26	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Sample Description: MW-12-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285675
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 10:50 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FSL12

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	5		0.5	1
10945	Ethylbenzene	100-41-4	0.9	J	0.5	1
10945	Toluene	108-88-3	0.6	J	0.5	1
10945	Xylene (Total)	1330-20-7	0.9	J	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,400		50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
06609	TPH-DRO CA C10-C28	n.a.	670		50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	160		50	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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 8260B Water	SW-846 8260B	1	Z160772AA	03/17/2016 14:10	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z160772AA	03/17/2016 14:10	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16078B94A	03/22/2016 13:20	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	16078B94A	03/22/2016 13:20	Marie D Beamenderfer	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	160760013A	03/17/2016 14:24	Christine E Dolman	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760017A	03/21/2016 19:43	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	160760013A	03/17/2016 01:30	Sherry L Morrow	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760017A	03/17/2016 01:30	Sherry L Morrow	1

eurofins | Lancaster Laboratories Environmental

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

Analysis Report

Sample Description: MW-12-W-160310 Grab Groundwater
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622

LL Sample # WW 8285676
LL Group # 1640572
Account # 10904

Project Name: 307233

Collected: 03/10/2016 10:50 by JH

Submitted: 03/14/2016 09:00
Reported: 03/29/2016 11:18

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

FL12Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	490	50	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792
The temperature of the temperature blank bottle(s) upon receipt at the lab was 9.5 & 11.3 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 9.0-13.5 C.

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
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	160760014A	03/17/2016 19:47	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	160760014A	03/17/2016 01:30	Sherry L Morrow	1

Quality Control Summary

Client Name: Chevron
Reported: 03/29/2016 11:18

Group Number: 1640572

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: Z160764AA	Sample number(s): 8285656-8285657,8285659,8285661,8285663	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: Z160772AA	Sample number(s): 8285665,8285667,8285669,8285671,8285673,8285675	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 16077C20A	Sample number(s): 8285656-8285657,8285659,8285661,8285663,8285665,8285667,8285669	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 16078B94A	Sample number(s): 8285671,8285673,8285675	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 160760013A	Sample number(s): 8285657,8285659,8285661,8285663,8285665,8285667,8285669,8285671,8285673,8285675	
TPH-DRO CA C10-C28	N.D.	50
Batch number: 160760014A	Sample number(s): 8285658,8285660,8285662,8285664,8285666,8285668,8285670,8285672,8285674,8285676	
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	50
Batch number: 160760017A	Sample number(s): 8285657,8285659,8285661,8285663,8285665,8285667,8285669,8285671,8285673,8285675	
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	50

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: Z160764AA	Sample number(s): 8285656-8285657,8285659,8285661,8285663								
Benzene	20	16.61			83		78-120		
Ethylbenzene	20	17.69			88		78-120		
Toluene	20	17.78			89		80-120		
Xylene (Total)	60	54.29			90		80-120		
Batch number: Z160772AA	Sample number(s): 8285665,8285667,8285669,8285671,8285673,8285675								
Benzene	20	18.85			94		78-120		
Ethylbenzene	20	19.05			95		78-120		

*- 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: 03/29/2016 11:18

Group Number: 1640572

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Toluene	20	19.55			98		80-120		
Xylene (Total)	60	59.37			99		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16077C20A	Sample number(s): 8285656-8285657,8285659,8285661,8285663,8285665,8285667,8285669								
TPH-GRO N. CA water C6-C12	1100	999.73	1100	1013.96	91	92	77-120	1	30
Batch number: 16078B94A	Sample number(s): 8285671,8285673,8285675								
TPH-GRO N. CA water C6-C12	1100	1005.51	1100	985.87	91	90	77-120	2	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 160760013A	Sample number(s): 8285657,8285659,8285661,8285663,8285665,8285667,8285669,8285671,8285673,8285675								
TPH-DRO CA C10-C28	1600	1289.69	1600	1404.8	81	88	53-115	9	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 160760014A	Sample number(s): 8285658,8285660,8285662,8285664,8285666,8285668,8285670,8285672,8285674,8285676								
TPH-DRO CA C10-C28 w/ Si Gel	1600	1415.92	1600	1401.49	88	88	40-105	1	20
Batch number: 160760017A	Sample number(s): 8285657,8285659,8285661,8285663,8285665,8285667,8285669,8285671,8285673,8285675								
TPH-DRO CA C10-C28 w/ Si Gel	1600	1206.33	1600	1108.72	75	69	40-105	8	20

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: Z160764AA	Sample number(s): 8285656-8285657,8285659,8285661,8285663 UNSPK: P283519									
Benzene	N.D.	20	19.95	20	20.83	100	104	78-120	4	30
Ethylbenzene	N.D.	20	20.66	20	21.18	103	106	78-120	2	30
Toluene	N.D.	20	21.24	20	21.74	106	109	80-120	2	30
Xylene (Total)	N.D.	60	63.49	60	65.55	106	109	80-120	3	30
Batch number: Z160772AA	Sample number(s): 8285665,8285667,8285669,8285671,8285673,8285675 UNSPK: 8285667									
Benzene	2.54	20	21.85	20	22.76	97	101	78-120	4	30
Ethylbenzene	N.D.	20	20.17	20	21.16	101	106	78-120	5	30
Toluene	N.D.	20	20.04	20	20.68	100	103	80-120	3	30
Xylene (Total)	N.D.	60	59.41	60	63.41	99	106	80-120	7	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: 03/29/2016 11:18

Group Number: 1640572

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 8260B Water
Batch number: Z160764AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8285656	98	98	99	94
8285657	96	98	99	95
8285659	95	94	98	94
8285661	95	93	98	100
8285663	94	92	98	103
Blank	95	97	99	93
LCS	96	97	98	98
MS	95	95	99	100
MSD	95	95	98	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX 8260B Water
Batch number: Z160772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8285665	96	95	100	96
8285667	95	94	97	100
8285669	94	94	97	96
8285671	95	96	98	95
8285673	94	95	97	100
8285675	94	94	97	100
Blank	95	95	97	94
LCS	95	96	99	97
MS	93	96	98	102
MSD	93	96	97	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16077C20A

	Trifluorotoluene-F
8285656	92
8285657	89
8285659	90
8285661	92
8285663	108
8285665	89
8285667	99
8285669	101
Blank	91
LCS	98
LCSD	86
Limits:	63-135

*- 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: 03/29/2016 11:18

Group Number: 1640572

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16078B94A

	Trifluorotoluene-F
8285671	79
8285673	85
8285675	141*
Blank	97
LCS	92
LCSD	87
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 160760013A

	Orthoterphenyl
8285657	86
8285659	81
8285661	87
8285663	90
8285665	87
8285667	71
8285669	100
8285671	76
8285673	81
8285675	87
Blank	82
LCS	88
LCSD	96
Limits:	50-124

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 160760014A

	Orthoterphenyl
8285658	85
8285660	71
8285662	96
8285664	91
8285666	96
8285668	90
8285670	107
8285672	78
8285674	88
8285676	86
Blank	89
LCS	96
LCSD	98
Limits:	42-126

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 160760017A

*- 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: 03/29/2016 11:18

Group Number: 1640572

	Orthoterphenyl
8285657	74
8285659	72
8285661	81
8285663	72
8285665	73
8285667	86
8285669	108
8285671	61
8285673	71
8285675	67
Blank	72
LCS	83
LCSD	75
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

eurofins | Lancaster Laboratories

505
Ø31616-01

Acct. # 10904 For Eurofins Lancaster Laboratories use only Group # 1640572 Sample # 8285656-76
Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # SS#307233-OML G-R#385876 Global ID#T0600196622 WBS
Site Address 2259 FIRST STREET, LIVERMORE, CA
Chevron PM CM Lead Consultant Silva
Consultant/Office Getter-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 Jim Herzog

2 Sample Identification | **Soil Depth** | Collected Date | Time | **3** Grab | Composite | **4 Matrix**: Soil | Sediment | Water: Ground | Potable | Surface | NPDES | Oil | Air | **Total Number of Containers** | **5 Analyses Requested**: BTEX 8021 | 8260 | TPH-GRO 8260 | 8015 | TPH-DRO 8015 without Silica Gel Cleanup | TPH-DRO 8015 with Silica Gel Cleanup | 8260 Full Scan | Oxygenates | Total Lead Method | Dissolved Lead Method

Sample Identification	Soil Depth	Date	Time	Grab	Composite	Soil	Sediment	Ground	Potable	Surface	NPDES	Oil	Air	Total Number of Containers	BTEX 8021	8260	TPH-GRO 8260	8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA		3/10/16	—	X				X						2	X		X							
MW-1			1045											8					X	X				
MW-2			0700																					
MW-3			0927																					
MW-4			1015																					
MW-5			0900																					
MW-6			0840																					
MW-7			1130																					
MW-9			1110																					
MW-10			1200																					
MW-12			1050																					

SCR #: _____

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

6 Remarks

Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour | EDF/EDD

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)
Other: _____

Relinquished by	Date	Time	Received by	Date	Time
	3/10/16			3.10.16	
	3.10.16		A. Salazar 10MAR16	10MAR16	1410
Relinquished by Commercial Carrier: A. Salazar 10MAR16			Received by	Date	Time
UPS ____ FedEx ____ Other ____ 1638			PX		

Temperature Upon Receipt 9.0-13.5 °C

Custody Seals Intact? (Yes) No

9

0900

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 139341

Group Number(s): 1640572

Client: CA Offlice

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	03/14/2016 9:00
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	CA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	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 Kristin Zeigler (2123) at 09:57 on 03/14/2016

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?	Samples Collected Same Day as Receipt?
1	DT131	9.5	DT	Wet	N	Bagged	Y	N
2	DT131	11.3	DT	Wet	N	Bagged	Y	N

Elevated Temperature Details

All Temperatures in °C

Cooler #	Thermometer ID	Top Left Temp	Top Right Temp	Bottom Left Temp	Bottom Right Temp	Center Temp	Factors Contributing to Elevated Temp	Comments
1	32170023	9.1	9.0	9.2	9.1	9.1		
2	32170023	12.3	13.3	13.5	13.3	13.1		

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.cor

Explanation of Symbols and Abbreviations

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

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

<	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:

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

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.