Carryl MacLeod
Project Manager, Marketing Business Unit

RECEIVED
By Alameda County Environmental Health 9:21 am, Oct 27, 2017

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

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

I accept the Second Semi-Annual 2017 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 Second Semi-Annual 2017 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: Second Semi-Annual 2017 Groundwater Monitoring and Sampling Report

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

October 26, 2017 Reference No. 312264

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

Re: Second Semi-Annual 2017
Groundwater Monitoring and Sampling Report
Former Standard Oil Station (Chevron 307233)
2259 First Street
Livermore, California
ACEHS Case RO0002908

Dear Ms. Roe:

GHD is submitting this *Second Semi-Annual 2017 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (CEMC). Groundwater monitoring and sampling was performed by 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.

1. Results of Second Semi-Annual 2017 Event

On September 14, 2017, G-R gauged and sampled the site wells per the established schedule. In addition to the regularly scheduled monitoring event, G-R gauged site wells on August 4, 2017 as requested by ACEH to verify that groundwater had returned to normal seasonal levels after the previous historical high winter rainfall. Groundwater elevations in the majority of wells decreased on the order of 7 to 12 feet between first quarter 2017 and third quarter 2017.

Results of the current monitoring event indicate the following:

- Shallow Groundwater Flow Direction — Southwest
- Shallow Hydraulic Gradient — 0.1

- Deep Groundwater Flow Direction — West
- Deep Hydraulic Gradient — 0.01

- Depth to Water - Shallow — 23.27 to 25.14 feet below grade
- Depth to Water - Deep — 25.32 to 26.64 feet below grade

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

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

Table A: Groundwater Analytical Data – September 14, 2017

Well ID	TPHd*	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
ESLs	100	100	1	40	13	20
Deep Zone						
MW-1	<100 / <100*	<100	<1	<1	<1	<1
MW-2	<110 / <110*	<100	<1	<1	<1	<1
MW-3	<100 / <100*	<100	<1	<1	<1	<1
MW-4	**880** / **460***	**3,000**	**5**	2	7	5
MW-5	<110 / <110*	<100	<1	<1	<1	<1
MW-6	**340** / 91 J*	**660**	0.9 J	<1	<1	<1
Shallow Zone						
MW-7	**18,000+ /34,000+ /12,000**	**12,000**	**1,100**	19	**360**	**210**
MW-8	**3,800** / **2,200**	**3,900**	**24**	2	0.8 J	0.9 J
MW-9	<100 / <100	<100	<1	<1	<1	<1
MW-10	**2,200** / **1,200**	**5,000**	1	1	2	3
MW-11	**140** / <100	<100	<1	<1	<1	<1
MW-12	**770** / **180**	**2,300**	**7**	0.7 J	0.8 J	1

µg/L Units in micrograms per liter
ESL Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Tier 1, February 2016
NA Not Analyzed
J Estimated Value
BOLD Concentrations exceed ESLs
* Analyzed with silica gel cleanup / Analyzed with 10-gram column silica gel cleanup with capric acid reverse surrogate
+ The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

2. 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.

3. Anticipated Future Activities

G-R will conduct semi-annual monitoring and sampling of site wells during the first half of 2018. GHD will submit a groundwater monitoring and sampling report.

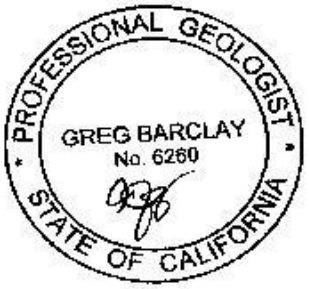
Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

GHD

Brian Silva

Greg Barclay, PG 6260

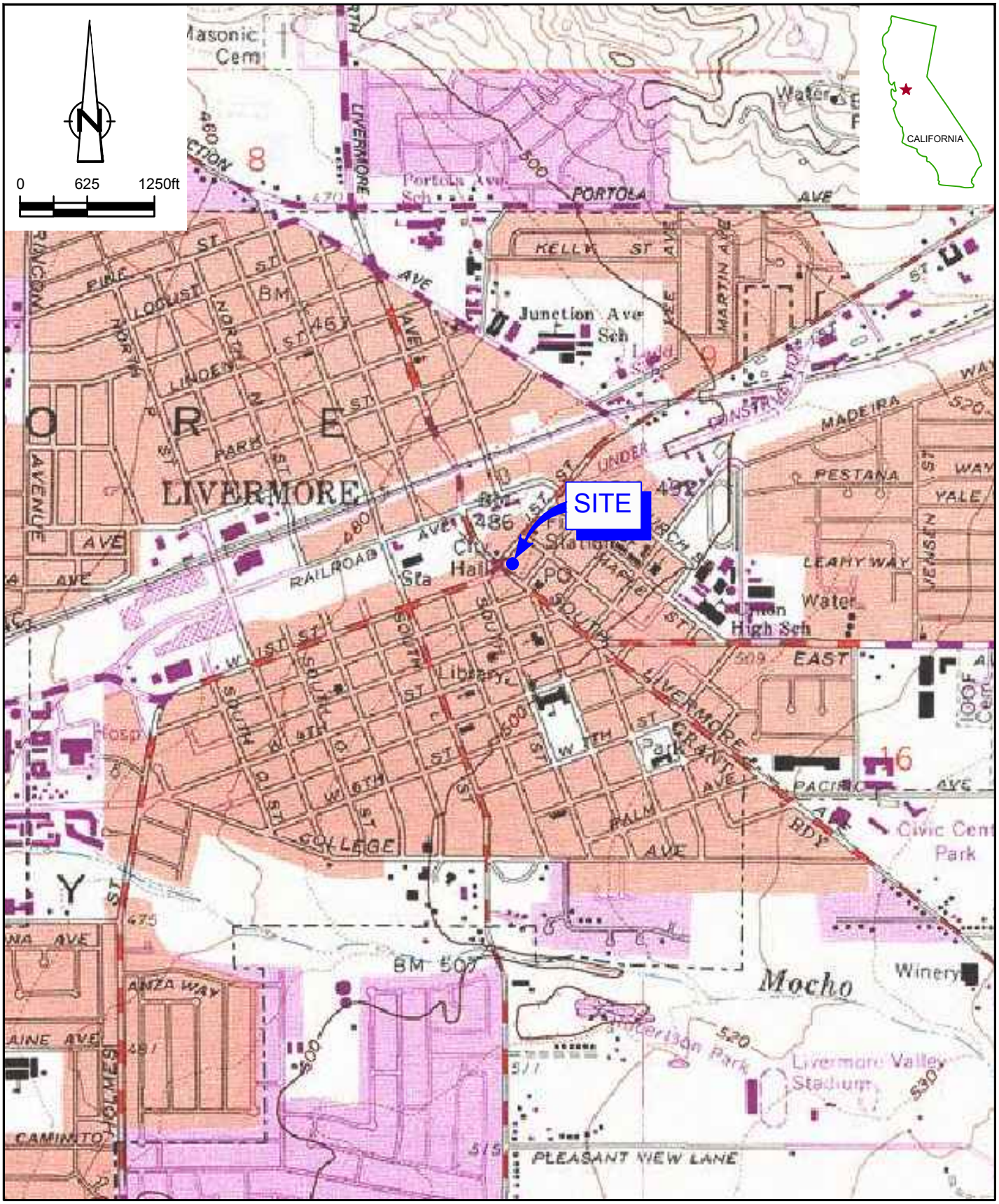


BS/cw/45
Encl.

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 STANDARD OIL STATION (CHEVRON 307233)
2259 FIRST STREET
LIVERMORE, CALIFORNIA

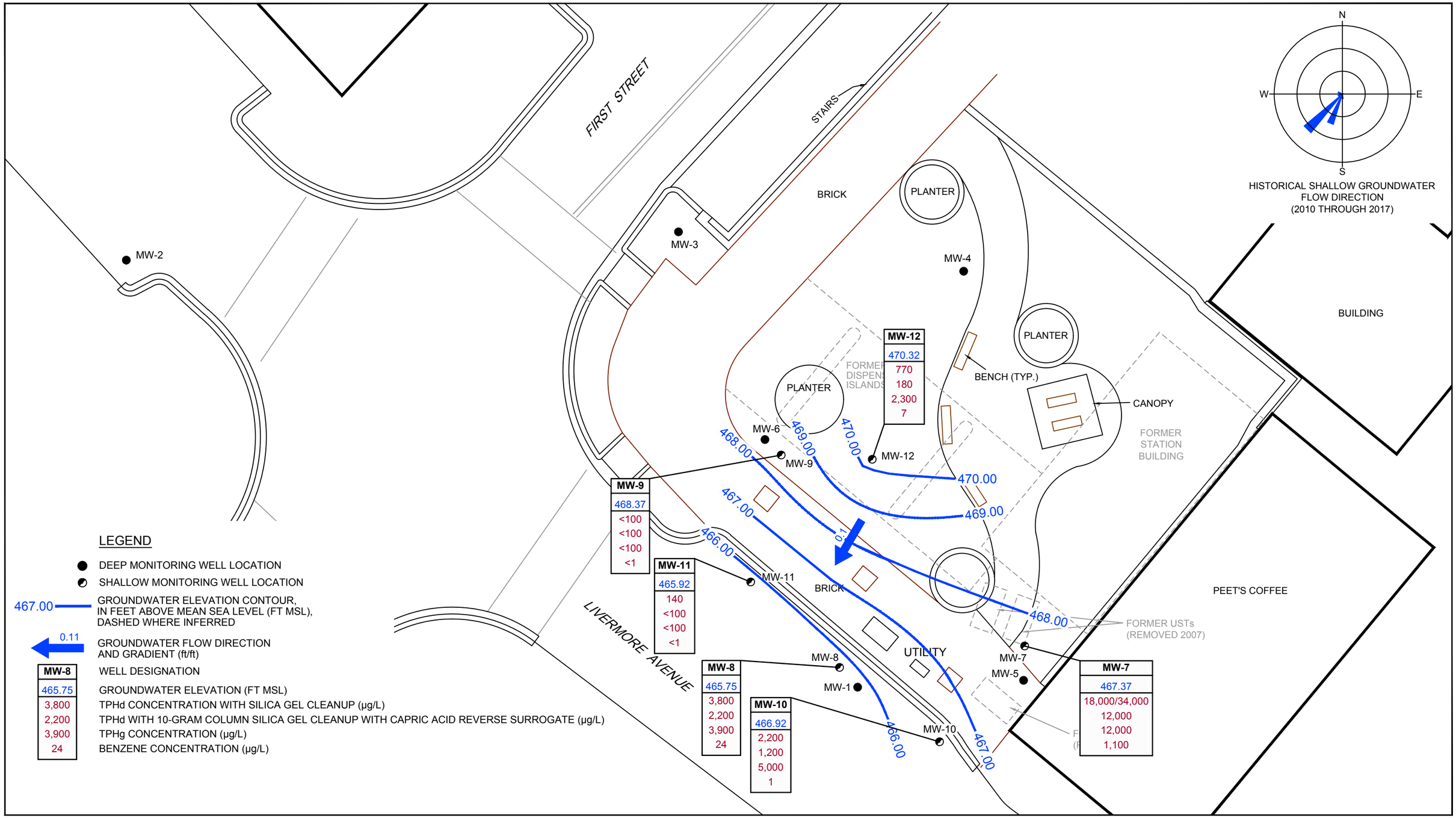
312264-95

Oct 19, 2017

VICINITY MAP

FIGURE 1

CAD File: P:\drawings\312000s\312264\312264-REPORTS\312264-95(045)\312264-95(045)GN\312264-95(045)GN-WA001.DWG



BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.

0 10 20ft

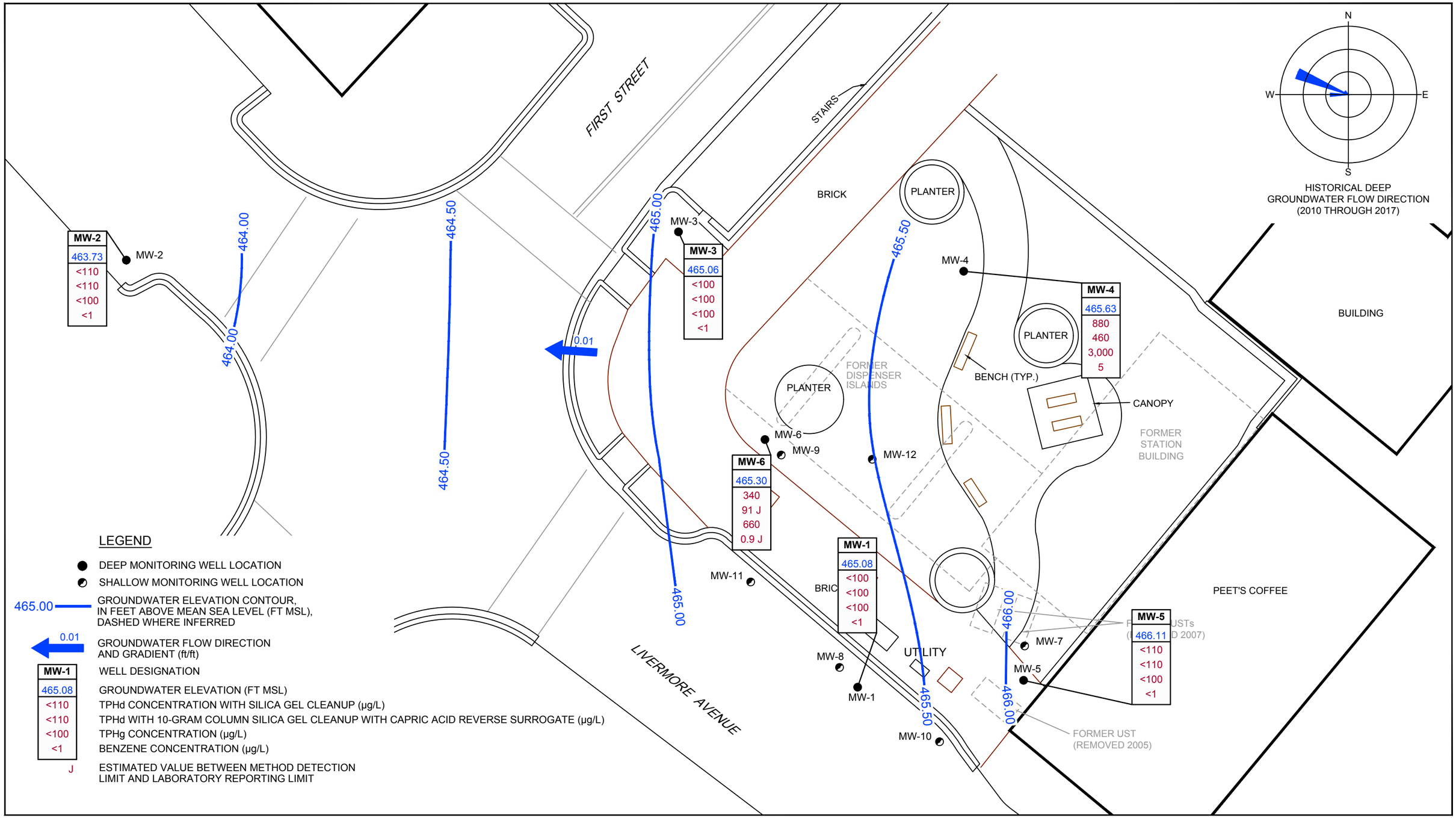
GHD

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

312264-95
Oct 19, 2017

SHALLOW-ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - SEPTEMBER 14, 2017 FIGURE 2

CAD File: P:\drawings\312000s\312264\312264-REPORTS\312264-95(045)\312264-95(045)GN\312264-95(045)GN-WA002.DWG



BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.

0 10 20ft

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

DEEP-ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - SEPTEMBER 14, 2017 FIGURE 3

312264-95
Oct 19, 2017

CAD File: P:\drawings\312000s\312264\312264-REPORTS\312264-95(045)\312264-95(045)GN\312264-95(045)GN-WA003.DWG

Table

Table 1

Groundwater Monitoring and Sampling Data
Former Standard Oil 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-1	11/10/2016[4]	490.86	35.83	455.03	0.00	0.00	-	<110 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-1	03/09/2017[4]	490.86	12.73	478.13	0.00	0.00	-	<110 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-1	08/04/2017[10]	490.86	22.19	468.67	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	**9/14/2017[4]**	**490.86**	**25.78**	**465.08**	**0.00**	**0.00**	**-**	**<100 / <100**	**<100**	**<1**	**<1**	**<1**	**<1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-2	05/25/2010[1]	489.43	31.18	458.25	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Groundwater Monitoring and Sampling Data
Former Standard Oil 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	96 J / 100	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-2	11/10/2016[4]	489.43	36.33	453.10	0.00	0.00	-	86 J / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-2	03/09/2017[4]	489.43	13.56	475.87	0.00	0.00	-	<110 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-2	08/04/2017[10]	489.43	22.79	466.64	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	**9/14/2017[4]**	**489.43**	**25.70**	**463.73**	**0.00**	**0.00**	**-**	**<110 / <110**	**<100**	**<1**	**<1**	**<1**	**<1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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 Standard Oil 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	260 / 170	770	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	11/10/2016[4]	490.38	36.11	454.27	0.00	0.00	-	160 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-3	03/09/2017[4]	490.38	12.93	477.45	0.00	0.00	-	<110 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-3	08/04/2017[10]	490.38	22.28	468.10	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	**9/14/2017[4]**	**490.38**	**25.32**	**465.06**	**0.00**	**0.00**	**-**	**<100 / <100**	**<100**	**<1**	**<1**	**<1**	**<1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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 Standard Oil 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	550 / 330	3,900	5	1	5	4	-	-	-	-	-	-	-	-
MW-4	11/10/2016	492.27	37.43	454.84	0.00	0.00	-	330	2,400	3	0.7 J	0.9 J	2	-	-	-	-	-	-	-	-
MW-4	03/09/2017[4]	492.27	14.18	478.09	0.00	0.00	-	820 / 230	3,000	6	<5	8	5	-	-	-	-	-	-	-	-
MW-4	08/04/2017[10]	492.27	23.60	468.67	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	**9/14/2017[4]**	**492.27**	**26.64**	**465.63**	**0.00**	**0.00**	**-**	**880 / 460**	**3,000**	**5**	**2**	**7**	**5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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 Standard Oil 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-5	11/10/2016[4]	491.99	36.58	455.41	0.00	0.00	-	<100 / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-5	03/09/2017[4]	491.99	13.42	478.57	0.00	0.00	-	1,200 / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-5	08/04/2017[10]	491.99	22.38	469.61	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	**9/14/2017[4]**	**491.99**	**25.88**	**466.11**	**0.00**	**0.00**	**-**	**<110 / <110**	**<100**	**<1**	**<1**	**<1**	**<1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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	-	-	-	-	-	-	-	-

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Groundwater Monitoring and Sampling Data
Former Standard Oil 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	480 / 300	1,300	3	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-6	11/10/2016[4]	491.52	36.95	454.57	0.00	0.00	-	240 / <100	1,200	3	<1	<1	<1	-	-	-	-	-	-	-	-
MW-6	03/09/2017[4]	491.52	13.83	477.69	0.00	0.00	-	140 / <110	740	41	<1	<1	<1	-	-	-	-	-	-	-	-
MW-6	08/04/2017[10]	491.52	23.22	468.30	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	**9/14/2017[4]**	**491.52**	**26.22**	**465.30**	**0.00**	**0.00**	**-**	**340 / 91 J**	**660**	**0.9 J**	**<1**	**<1**	**<1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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	-	-	-	-

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Groundwater Monitoring and Sampling Data
Former Standard Oil 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[9,4]	492.29	30.28	462.01	0.00	0.00	7,600	11,000 / 8,300	14,000	1,500	26	190	53	-	-	-	-	-	-	-	-
MW-7	11/10/2016[5,9]	492.29	32.09	460.20	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/09/2017[4]	492.29	13.85	478.44	0.00	0.00	-	11,000 / 6,600	8,500	610	11	190	120	-	-	-	-	-	-	-	-
MW-7	08/04/2017[10]	492.29	22.72	469.57	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	**9/14/2017[4]**	**492.29**	**24.92**	**467.37**	**0.00**	**0.00**	**-**	**18,000[12]/34,000[12]/12,000**	**12,000**	**1,100**	**19**	**360**	**210**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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 Standard Oil 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-8	11/10/2016[4]	490.89	36.18	454.71	0.00	0.00	-	35,000 / 22,000	11,000	0.6 J	0.6 J	0.6 J	0.8 J	-	-	-	-	-	-	-	-
MW-8	03/09/2017[4]	490.89	13.65	477.24	0.00	0.00	-	1,900 / 1,000	3,900	18	2	0.5 J	0.7 J	-	-	-	-	-	-	-	-
MW-8	08/04/2017[10]	490.89	23.06	467.83	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	**9/14/2017[4]**	**490.89**	**25.14**	**465.75**	**0.00**	**0.00**	**-**	**3,800 / 2,200**	**3,900**	**24**	**2**	**0.8 J**	**0.9 J**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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 Standard Oil 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	3/10/2016[4]	491.64	37.49	454.15	0.00	0.00	<50	<50 / <50	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-9	11/10/2016[4]	491.64	35.43	456.21	0.00	0.00	-	<100 / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-9	03/09/2017[4]	491.64	22.10	469.54	0.00	0.00	-	<100 / <100	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-9	08/04/2017[10]	491.64	20.36	471.28	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	**9/14/2017[4]**	**491.64**	**23.27**	**468.37**	**0.00**	**0.00**	**-**	**<100 / <100**	**<100**	**<1**	**<1**	**<1**	**<1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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 Standard Oil 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	3/10/2016[4]	491.15	26.47	464.68	0.00	0.00	240	110 / 53 J	1,200	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-10	11/10/2016[4]	491.15	28.93	462.22	0.00	0.00	-	28,000 / 21,000	3,900	1	1	3	5	-	-	-	-	-	-	-	-
MW-10	03/09/2017[4]	491.15	12.98	478.17	0.00	0.00	-	330 / 110 J	2,700	<5	<5	<5	<5	-	-	-	-	-	-	-	-
MW-10	08/04/2017[10]	491.15	22.58	468.57	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	**9/14/2017[4]**	**491.15**	**24.23**	**466.92**	**0.00**	**0.00**	**-**	**2,200 / 1,200**	**5,000**	**1**	**1**	**2**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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 Standard Oil 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-11	11/10/2016[5]	490.59	34.18	456.41	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	03/09/2017[5]	490.59	14.79	475.80	0.00	0.00	-	<110 / <110	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
MW-11	08/04/2017[10]	490.59	20.20	470.39	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	**9/14/2017[4]**	**490.59**	**24.67**	**465.92**	**0.00**	**0.00**	**-**	**140 / <100**	**<100**	**<1**	**<1**	**<1**	**<1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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	490 / 160	2,400	5	0.6 J	0.9 J	0.9 J	-	-	-	-	-	-	-	-
MW-12	11/10/2016[4]	493.72	27.03	466.69	0.00	0.00	-	480 / 210	2,400	0.7 J	<1	0.7 J	<1	-	-	-	-	-	-	-	-
MW-12	03/09/2017[4]	493.72	16.21	477.51	0.00	0.00	-	430 / 78 J	2,100	1	<1	0.6 J	<1	-	-	-	-	-	-	-	-
MW-12	08/04/2017[10]	493.72	21.80	471.92	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	**9/14/2017[4]**	**493.72**	**23.40**	**470.32**	**0.00**	**0.00**	**-**	**770 / 180**	**2,300**	**7**	**0.7 J**	**0.8 J**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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	-	-	-	-	-	-	-	-

Table 1

Groundwater Monitoring and Sampling Data
Former Standard Oil 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	03/07/2011	-	-	-			-	-	<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	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
QA	11/10/2016	-	-	-	-	-	-	-	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
QA	03/09/2017	-	-	-	-	-	-	-	<100	<1	<1	<1	<1	-	-	-	-	-	-	-	-
QA	**09/14/2017**	-	-	-	-	-	-	-	**<100**	**<1**	**<1**	**<1**	**<1**	-	-	-	-	-	-	-	-

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

Table 1

Groundwater Monitoring and Sampling Data
Former Standard Oil 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

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

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

12 The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Attachment A
Groundwater Monitoring and Sampling Data Package

GETTLER-RYAN INC.

TRANSMITTAL

August 10, 2017
G-R #17155876

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

FROM: Deanna L. Harding
Project Manager
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 **Special Event of August 4, 2017**

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.

6805 Sierra Court, Suite G • Dublin, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
1050 Riverside Parkway, Suite 115, West Sacramento, CA 95605 • (916) 851-1830 • Fax (916) 851-1536

WELL CONDITION STATUS SHEET

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

Job #: 17155876
Event Date: 8/4/17
Sampler: G. MEDINA

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW. 1	OK							NO	NO	EMCO/12/2	
MW. 2	OK									↓ ↓	
MW-3	OK									MORRISON/8	
MW. 4	OK			B(2)	OK					↓ 7	
MW. 5	OK									EMCO /12	
MW. 6	OK			B(2)	OK					MORRISON / 7	
MW-7	OK			B(2)	OK					EMCO / 8	
MW. 8	OK									↓ 12	
MW-9	OK			B(2)	OK					MORRISON/ 6	
MW. 10	OK									GENERIC / 8	
MW. 11	OK			B(2)	OK					~~GENERIC~~	
MW. 12	OK			B(1)	OK					UNIVERSAL	

DRUMS PRESENT ONSITE? Y / (N) #: 0

ARE DRUMS PROPERLY LABELED? N/A

LOCATION OF DRUMS: NA

Comments

STANDARD OPERATING PROCEDURE
GROUNDWATER SAMPLING

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

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

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

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

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW- 1** Date Monitored: 8/4/17

Well Diameter 2 in.

Total Depth 58.81 ft.

Depth to Water 22.19 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.

36.62 xVF 6 = — 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: 0 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): _____ Weather Conditions: _____

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

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

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M/O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW- 2** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth 58.61 ft.

Depth to Water 22.79 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.

35.82 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: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:

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

Approx. Flow Rate: gpm. Sediment Description:

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M/O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW-3** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth 59.35 ft.

Depth to Water 22.28 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.

37.07 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: 0 ft
Visual Confirmation/Description: ____

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ ltr
Amt Removed from Well: ____ ltr
Water Removed: ____ ltr

Start Time (purge): ____ Weather Conditions: ____

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

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

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M/O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW-4** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth 58.88 ft.

Depth to Water 23.60 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.

35.28 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: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:

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

Approx. Flow Rate: gpm. Sediment Description:

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: MW

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: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW-5** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth 58.82 ft.

Depth to Water 22.38 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.

36.44 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: 0 ft
Visual Confirmation/Description: ___

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___

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

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

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M/O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 17155876
Site Address: 2259 First Street Event Date: 8/4/17 (inclusive)
City: Livermore, CA Sampler: GM

Well ID MW-6 Date Monitored: 8/4/17
Well Diameter 2 in.
Total Depth 58.81 ft.
Depth to Water 23.22 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.

35.59 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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M10

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: 17155876
Site Address: 2259 First Street Event Date: 8/4/17 (inclusive)
City: Livermore, CA Sampler: GM

Well ID MW-7 Date Monitored: 8/4/17
Well Diameter 2 in.
Total Depth 32.73 ft.
Depth to Water 22.72 ft.

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

☐ Check if water column is less then 0.50 ft.

10.01 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: 0 ft
Visual Confirmation/Description: ____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ ltr
Amt Removed from Well: ____ ltr
Water Removed: ____ ltr

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M10 STINGER 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: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW-8** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth 38.84 ft.

Depth to Water 23.06 ft.

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

☐ Check if water column is less then 0.50 ft.

15.78 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: 0 ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___

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

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

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M/O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW-9** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth 39.83 ft.

Depth to Water 20.36 ft.

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

☐ Check if water column is less then 0.50 ft.

19.47 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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M/O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW-10** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth 32.30 ft.

Depth to Water 22.58 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.

9.72 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: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:

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

Approx. Flow Rate: gpm. Sediment Description:

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M10

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: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW-11** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth **34.70** ft.

Depth to Water **20.20** ft.

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

☐ Check if water column is less then 0.50 ft.

14.50 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: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:

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

Approx. Flow Rate: gpm. Sediment Description:

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M/O

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **17155876**

Site Address: **2259 First Street** Event Date: 8/4/17 (inclusive)

City: **Livermore, CA** Sampler: GM

Well ID **MW-12** Date Monitored: 8/4/17

Well Diameter **2** in.

Total Depth 34.43 ft.

Depth to Water 21.80 ft.

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

☐ Check if water column is less then 0.50 ft.

12.63 xVF ~ = ~ x3 case volume = Estimated Purge Volume: ~ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:

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

Approx. Flow Rate: gpm. Sediment Description:

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/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	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)

COMMENTS: M10

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

GETTLER-RYAN INC.

TRANSMITTAL

September 21, 2017
G-R #17155876

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

FROM: Deanna L. Harding
Project Manager
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 **Second Semi Annual Event of September 14, 2017**

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.

6805 Sierra Court, Suite G • Dublin, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
1050 Riverside Parkway, Suite 115, West Sacramento, CA 95605 • (916) 851-1830 • Fax (916) 851-1536

WELL CONDITION STATUS SHEET

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

Job #: 17155876
Event Date: 9-14-17
Sampler: ML

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y (N)
MW-3	OK	→				→	→	N	N	Morrison/6"/2	
MW-4	OK	→	→	2-B	OK	→	→	↓	↓	"	
MW-5	OK	→				→	→			EMCO/12"/2	
MW-7	OK	→	→	1-B	OK	→	→			Morrison/6"/2	
MW-9	OK	→	→	2-B	OK	→	→			"	
MW-12	OK	→	→	1-B	OK	→	→	↓	↓	Universal/8"/2	

DRUMS PRESENT ONSITE? Y (N) #: 6 | ARE DRUMS PROPERLY LABELED? Y / N | LOCATION OF DRUMS:

Comments

WELL CONDITION STATUS SHEET

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

Job #: 17155876
Event Date: 9.14.17
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=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y (N)	REPLACE CAP Y / (N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y (N)
MW-1	OK	→	→	→	→	→	→	↓	↓	Emco/12"/2	
MW-2	OK	→	→	→	→	→	→			" " "	
MW-6	OK	→	→	→	→	→	→			Mansion/6"/4	
MW-8	OK	→	→	→	→	→	→			Emco/12"/2	
MW-10	OK	→	→	→	→	→	→			8" Box/2	
MW-11	OK	→	→	B=2	OK	→	→	X	X	8" Box/2	

DRUMS PRESENT ONSITE? Y / (N) #:

ARE DRUMS PROPERLY LABELED? NA Y / N

LOCATION OF DRUMS: NA

Comments: MW-6 NEEDS A NEW COVER. THE BOLT HOLES ARE BROKEN.

STANDARD OPERATING PROCEDURE
GROUNDWATER SAMPLING

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

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

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

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

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **17155876**

Site Address: **2259 First Street** Event Date: 9.14.17 (inclusive)

City: **Livermore, CA** Sampler: FT

Well ID **MW-1** Date Monitored: 9.14.17

Well Diameter 2 in.

Total Depth 58.81 ft.

Depth to Water 25.78 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.

33.03 xVF .17 = 5.61 x3 case volume = Estimated Purge Volume: 17.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.38

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): 1145 Weather Conditions: Sunny

Sample Time/Date: 1210 / 9.14.17 Water Color: CLEAR Odor: Y / (N)

Approx. Flow Rate: ~2.0 gpm. Sediment Description: NONE

Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 26.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) / F)	D.O. (mg/L)	ORP (mV)
1148	5.5	7.35	664	20.0		
1151	11.0	7.38	671	20.5		
1154	17.0	7.40	678	20.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	3 x voa vial	YES	HCL	EUROFINS	NAPHTHALENE(8260)

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: 17155876
Site Address: 2259 First Street Event Date: 9.14.17 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-2 Date Monitored: 9.14.17
Well Diameter 2 in.
Total Depth 58.61 ft.
Depth to Water 25.70 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.

32.91 xVF .17 = 5.59 x3 case volume = Estimated Purge Volume: 17.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.28

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): 0915 Weather Conditions: Sunny
Sample Time/Date: 0935 / 9.14.17 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 2.0 gpm. Sediment Description: NONE
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 26.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0918	5.5	7.39	698	20.3		
0921	11.0	7.42	706	20.7		
0924	17.0	7.45	714	21.1		

LABORATORY INFORMATION

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

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: 17155876
Site Address: 2259 First Street | Event Date: 9.14.17 (inclusive)
City: Livermore, CA | Sampler: ML

Well ID: MW-3 | Date Monitored: 9.14.17
Well Diameter: 2 in.
Total Depth: 59.35 ft.
Depth to Water: 25.32 ft.

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

☐ Check if water column is less then 0.50 ft.

34.03 xVF .17 = 5.7 x3 case volume = Estimated Purge Volume: 17.1 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.12

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1040 | Weather Conditions: Sunny
Sample Time/Date: 1115 / 9.14.17 | 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: 27.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1046	6	6.81	556	23.0		
1052	12	6.90	567	22.5		
1058	18	6.94	564	22.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	3 x voa vial	YES	HCL	EUROFINS	NAPHTHALENE(8260)

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: 17155876
Site Address: 2259 First Street | Event Date: 9.14.17 (inclusive)
City: Livermore, CA | Sampler: ML

Well ID: MW- 4 | Date Monitored: 9-14-17
Well Diameter: 2 in.
Total Depth: 58.88 ft.
Depth to Water: 26.64 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.

32.24 xVF .17 = 5.4 x3 case volume = Estimated Purge Volume: 16.2 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.08

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1225 | Weather Conditions: Sunny
Sample Time/Date: 1255 19-14-17 | Water Color: Cloudy | Odor: Y / N | light
Approx. Flow Rate: 1 gpm. | Sediment Description: light
Did well de-water? NO | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 28.77

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1231	6	7.29	773	22.4		
1237	12	7.37	786	21.9		
1242	17	7.39	788	21.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 4	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	3 x voa vial	YES	HCL	EUROFINS	NAPHTHALENE(8260)

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: 17155876
Site Address: 2259 First Street Event Date: 9-14-17 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-5 Date Monitored: 9-14-17
Well Diameter 2 in.
Total Depth 58.82 ft.
Depth to Water 25.88 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.

32.94 xVF .17 = 5.5 x3 case volume = Estimated Purge Volume: 16.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.46

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0900 Weather Conditions: PARTLY CLOUDY
Sample Time/Date: 0935 / 9-14-17 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: 27.18

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/ mS µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
0906	6	7.22	647	20.7		
0912	12	7.30	707	20.4		
0917	17	7.31	711	20.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	3 x voa vial	YES	HCL	EUROFINS	NAPHTHALENE(8260)

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: 17155876
Site Address: 2259 First Street Event Date: 9.14.17 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-6 Date Monitored: 9.14.17
Well Diameter 2 in.
Total Depth 58.81 ft.
Depth to Water 26.22 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.

32.59 xVF .17 = 5.54 x3 case volume = Estimated Purge Volume: 17.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.73

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): 1225 Weather Conditions: Sunny
Sample Time/Date: 1245 / 9.14.17 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: ~2.0 gpm. Sediment Description: S. Silty
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 27.09

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1229	5.5	7.90	690	19.7		
1231	11.0	7.43	699	20.1		
1234	17.0	7.46	709	20.6		

LABORATORY INFORMATION

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

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: 17155876
Site Address: 2259 First Street Event Date: 9-14-17 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-7 Date Monitored: 9-14-17
Well Diameter 2 in.
Total Depth 32.73 ft.
Depth to Water 24.92 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.

7.81 xVF .17 = 1.3 x3 case volume = Estimated Purge Volume: 3.9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 26.48

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): 0950 Weather Conditions: Sunny
Sample Time/Date: 1020 / 9-14-17 Water Color: Brown Odor: (Y) / N STRONG
Approx. Flow Rate: — gpm. Sediment Description: light
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 25.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0955	1.5	7.31	843	21.6		
1000	3	7.36	852	20.7		
1005	4	7.39	856	20.5		

LABORATORY INFORMATION

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

COMMENTS: SHEEN VISIBLE DURING PURGING / SAMPLING. STINGER 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: 17155876
Site Address: 2259 First Street | Event Date: 9.14.17 (inclusive)
City: Livermore, CA | Sampler: FT

Well ID: MW-8 | Date Monitored: 9.14.17
Well Diameter: 2 in.
Total Depth: 38.84 ft.
Depth to Water: 25.14 ft.

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

☐ Check if water column is less then 0.50 ft.

13.70 xVF .17 = 2.32 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.88

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): 1110 | Weather Conditions: SUNNY
Sample Time/Date: 1136 / 9.14.17 | Water Color: CLOUDY | Odor: Y / N STRONG
Approx. Flow Rate: ✓ gpm. | Sediment Description: S. SILTY
Did well de-water? NO | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 25.85

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1115	2.5	7.17	593	19.8		
1120	5.0	7.20	602	20.0		
1126	7.0	7.23	611	20.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	3 x voa vial	YES	HCL	EUROFINS	NAPHTHALENE(8260)

COMMENTS: SHEEN PRESENT IN 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: **17155876**

Site Address: **2259 First Street** Event Date: 9-14-17 (inclusive)

City: **Livermore, CA** Sampler: ML

Well ID **MW-9** Date Monitored: 9-14-17

Well Diameter 2 in.

Total Depth 39.83 ft.

Depth to Water 23.27 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.

16.54 xVF .17 = 2.8 x3 case volume = Estimated Purge Volume: 8.4 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 26.58

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1135 Weather Conditions: Sunny

Sample Time/Date: 1205 / 9-14-17 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: 24.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1138	3	7.21	854	23.9		
1141	6	7.30	863	23.5		
1144	9	7.33	867	23.2		

LABORATORY INFORMATION

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

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: 17155876
Site Address: 2259 First Street Event Date: 9.14.17 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-10 Date Monitored: 9.14.17
Well Diameter 2 in.
Total Depth 32.30 ft.
Depth to Water 24.23 ft.

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

☐ Check if water column is less then 0.50 ft.

8.07 xVF .17 = 1.37 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 25.84

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): 1000 Weather Conditions: SUNNY
Sample Time/Date: 1020 / 9.14.17 Water Color: CLOUDY Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 24.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1003	1.5	7.21	604	19.9		
1006	3.0	7.23	611	20.1		
1009	4.0	7.25	618	20.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	3 x voa vial	YES	HCL	EUROFINS	NAPHTHALENE(8260)

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: 17155876
Site Address: 2259 First Street | Event Date: 9.14.17 (inclusive)
City: Livermore, CA | Sampler: FT

Well ID: MW-11 | Date Monitored: 9.14.17
Well Diameter: 2 in.
Total Depth: 34.70 ft.
Depth to Water: 24.67 ft.

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

☐ Check if water column is less then 0.50 ft.

10.03 xVF .17 = 1.70 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 26.67

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): 1035 | Weather Conditions: Sunny
Sample Time/Date: 1055 /9.14.17 | 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: 25.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1038	1.5	7.27	583	20.2		
1041	3.0	7.30	590	20.5		
1045	5.0	7.33	598	20.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO w/sgc COLUMN/TPH-DRO w/sgc(8015)
	3 x voa vial	YES	HCL	EUROFINS	NAPHTHALENE(8260)

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: 17155876
Site Address: 2259 First Street | Event Date: 9-14-17 (inclusive)
City: Livermore, CA | Sampler: ML

Well ID: MW-12 | Date Monitored: 9-14-17
Well Diameter: 2 in.
Total Depth: 34.43 ft.
Depth to Water: 23.40 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.

11.03 xVF .17 = 1.8 x3 case volume = Estimated Purge Volume: 5.4 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 25.60

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): 1310 | Weather Conditions: Sunny
Sample Time/Date: 1340 / 9-14-17 | Water Color: Brown | Odor: Y / (N)
Approx. Flow Rate: - gpm. | Sediment Description: light
Did well de-water? No | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 24.06

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/ mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
1316	2	7.11	1220	21.6		
1322	4	7.10	1236	21.2		
1327	5.5	7.23	1231	21.0		

LABORATORY INFORMATION

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

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

5866

Ø91417-Ø1

For Eurofins Lancaster Laboratories Environmental use only

Acct. # _____ Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

P. 1 of 2

Client Information

Facility # SS#307233-OML G-R#17155876 Global ID#T0600196622 WBS

Site Address 2259 FIRST STREET, LIVERMORE, CA

Chevron PM CW GHDSB 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 MIKE L. FRANK T

SCR #: _____

Matrix

Soil ☐ Sediment ☐ Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Air ☐ Oil ☐ Water

Analyses Requested

Total Number of Containers

BTEX + ~~MTBE~~ 8260 ☒ 8021 ☐

TPH-GRO 8260 ☐ 8015 ☒

TPH-DRO 8015 with ~~Acid~~ Silica Gel Cleanup ☒

TPH-DRO 8015 with Silica Gel Cleanup ☒ (Column)

8260 Full Scan

Oxygenates _____

Total Lead Method _____

Dissolved Lead Method _____

NAPHTHALENE (8260)

- ☐ 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

Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Soil	Ground Water	Potable Water	Surface Water	Oil	Total Containers	BTEX + ~~MTBE~~ 8260	TPH-GRO 8260	TPH-DRO 8015 with ~~Acid~~ Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	NAPHTHALENE (8260)
QA		170914		X			X				2	X	X							
MW-1			1210								11	X	X	X	X					X
MW-2			0935																	
MW-3			1115																	
MW-4			1255																	
MW-5			0935																	
MW-6			1245																	
MW-7			1020																	
MW-8			1136																	
MW-9			1205																	

Remarks

Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results. Lab to provide chromatograms for all samples

Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

Data Package (circle if required) **EDF/EDD**

Type I - Full | Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) | Other: _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	17.9.14		[signature] 14	SEP 17	1605
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by	Date	Time

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Ø91417-Ø1

For Eurofins Lancaster Laboratories Environmental use only

Acct. # _____ Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

P1 2 of 2

Client Information

Facility # SS#307233-OML G-R#17155876 Global ID#T0600196622 WBS

Site Address 2259 FIRST STREET, LIVERMORE, CA

Chevron PM CM GHDSB 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 MIKE L. Frank T.

SCR #: _____

Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Matrix: Soil	Sediment	Potable Water	Ground Water	NPDES	Surface Water	Air	Oil	Total Number of Containers	BTEX + MTBE 8260	8021	TPH-GRO 8260	8015	TPH-DRO 8015 with Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup (column)	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	NAPHTHALENE (8260)
MW-10		170914	1020	X					X					11	X		X		X	X					X
MW-11		↓	1055	↓					↓					↓	↓		↓		↓	↓					↓
MW-12		↓	1340	↓					↓					↓	↓		↓		↓	↓					↓

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

Remarks

Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results. Lab to provide chromatograms for all samples

Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

Data Package (circle if required) EDF/EDD

Type I - Full | Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) | Other: _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	17/9/14		A. Taylor 14	SEP17	1605
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by	Date	Time

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Attachment B
Laboratory Analytical Report

ANALYSIS REPORT

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: September 29, 2017

Project: 307233

Account #: 10904
Group Number: 1851328
SDG: CVG34
PO Number: 0015235605
Release Number: CMACLEOD

State of Sample Origin: CA

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

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

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

SAMPLE INFORMATION

Client Sample Description	Collection Information	ELLE#
QA-T-170914 NA Water	09/14/2017	9213104
MW-1-W-170914 Grab Groundwater	09/14/2017 12:10	9213105
MW-1-W-170914 Grab Groundwater	09/14/2017 12:10	9213106
MW-2-W-170914 Grab Groundwater	09/14/2017 09:35	9213107
MW-2-W-170914 Grab Groundwater	09/14/2017 09:35	9213108
MW-3-W-170914 Grab Groundwater	09/14/2017 11:15	9213109
MW-3-W-170914 Grab Groundwater	09/14/2017 11:15	9213110
MW-4-W-170914 Grab Groundwater	09/14/2017 12:55	9213111
MW-4-W-170914 Grab Groundwater	09/14/2017 12:55	9213112
MW-5-W-170914 Grab Groundwater	09/14/2017 09:35	9213113
MW-5-W-170914 Grab Groundwater	09/14/2017 09:35	9213114
MW-6-W-170914 Grab Groundwater	09/14/2017 12:45	9213115
MW-6-W-170914 Grab Groundwater	09/14/2017 12:45	9213116
MW-7-W-170914 Grab Groundwater	09/14/2017 10:20	9213117
MW-7-W-170914 Grab Groundwater	09/14/2017 10:20	9213118
MW-8-W-170914 Grab Groundwater	09/14/2017 11:36	9213119
MW-8-W-170914 Grab Groundwater	09/14/2017 11:36	9213120
MW-9-W-170914 Grab Groundwater	09/14/2017 12:05	9213121
MW-9-W-170914 Grab Groundwater	09/14/2017 12:05	9213122
MW-10-W-170914 Grab Groundwater	09/14/2017 10:20	9213123
MW-10-W-170914 Grab Groundwater	09/14/2017 10:20	9213124
MW-11-W-170914 Grab Groundwater	09/14/2017 10:55	9213125
MW-11-W-170914 Grab Groundwater	09/14/2017 10:55	9213126
MW-12-W-170914 Grab Groundwater	09/14/2017 13:40	9213127
MW-12-W-170914 Grab Groundwater	09/14/2017 13:40	9213128

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

Sample Description: QA-T-170914 NA Water
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213104
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

65288 SDG#: CVG34-01TB

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	F172642AA	09/21/2017 11:28	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 11:28	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 11:57	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 11:57	Marie D Beamenderfer	1

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

Sample Description: MW-1-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213105
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 12:10 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

32165 SDG#: CVG34-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 12:11	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 12:11	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 12:52	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 12:52	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 18:17	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-1-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213106
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 12:10 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

54548 SDG#: CVG34-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 05:58	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-2-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213107
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 09:35 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

21340 SDG#: CVG34-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 19:23	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 19:23	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 13:20	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 13:20	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 18:39	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-2-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213108
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 09:35 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

32134 SDG#: CVG34-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 01:14	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-3-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213109
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 11:15 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

31355 SDG#: CVG34-06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 13:38	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 13:38	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 13:47	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 13:47	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 19:01	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-3-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213110
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 11:15 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

21350 SDG#: CVG34-07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 01:36	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-4-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213111
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 12:55 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

41410 SDG#: CVG34-08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	5	0.5	1	1
10945	Ethylbenzene	100-41-4	7	0.5	1	1
10945	Naphthalene	91-20-3	4	1	4	1
10945	Toluene	108-88-3	2	0.5	1	1
10945	Xylene (Total)	1330-20-7	5	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,000	250	500	5
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	460	50	100	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 14:00	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 14:00	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 19:19	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 19:19	Marie D Beamenderfer	5
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 19:23	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-4-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213112
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 12:55 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

35315 SDG#: CVG34-09

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	880	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 01:57	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-5-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213113
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 09:35 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

35153 SDG#: CVG34-10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1
	The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 14:22	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 14:22	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 14:15	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 14:15	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 19:45	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-5-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213114
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 09:35 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

65888 SDG#: CVG34-11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 02:19	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-6-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213115
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 12:45 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

99821 SDG#: CVG34-12

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	0.9	J	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Naphthalene	91-20-3	N.D.		1	4	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	660		50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	91	J	50	100	1
	The reverse surrogate, capric acid, is present at <1%.						

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 14:44	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 14:44	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 14:43	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 14:43	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 20:07	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-6-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213116
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 12:45 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

23150 SDG#: CVG34-13

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	340	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 02:41	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-7-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213117
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 10:20 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

05444 SDG#: CVG34-14

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	1,100	5	10	10
10945	Ethylbenzene	100-41-4	360	5	10	10
10945	Naphthalene	91-20-3	84	10	40	10
10945	Toluene	108-88-3	19	5	10	10
10945	Xylene (Total)	1330-20-7	210	5	10	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	12,000	500	1,000	10
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	12,000	50	110	1
	The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 19:02	Anthony H Downey	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 19:02	Anthony H Downey	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 19:47	Marie D Beamenderfer	10
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 19:47	Marie D Beamenderfer	10
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 20:29	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-7-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213118
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 10:20 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

15555 SDG#: CVG34-15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	18,000	67	210	2
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	34,000	67	210	2
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	2	172620009A	09/25/2017 14:00	Thomas C Wildermuth	2
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	3	172620009A	09/28/2017 15:12	Thomas C Wildermuth	2
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-8-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213119
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 11:36 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

25558 SDG#: CVG34-16

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	24		0.5	1	1
10945	Ethylbenzene	100-41-4	0.8	J	0.5	1	1
10945	Naphthalene	91-20-3	N.D.		1	4	1
10945	Toluene	108-88-3	2		0.5	1	1
10945	Xylene (Total)	1330-20-7	0.9	J	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,900		50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	2,200		50	110	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 15:05	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 15:05	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 15:10	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 15:10	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 20:51	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-8-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213120
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 11:36 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

95622 SDG#: CVG34-17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	3,800	50	110	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 03:25	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-9-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213121
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 12:05 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

22111 SDG#: CVG34-18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 15:27	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 15:27	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 15:38	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 15:38	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 21:56	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-9-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213122
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 12:05 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

21215 SDG#: CVG34-19

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 04:31	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-10-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213123
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 10:20 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

02012 SDG#: CVG34-20

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	1		0.5	1	1
10945	Ethylbenzene	100-41-4	2		0.5	1	1
10945	Naphthalene	91-20-3	2	J	1	4	1
10945	Toluene	108-88-3	1		0.5	1	1
10945	Xylene (Total)	1330-20-7	3		0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,000		50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,200		50	110	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 15:48	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 15:48	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 16:06	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 16:06	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 22:18	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-10-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213124
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 10:20 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

56561 SDG#: CVG34-21

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	2,200	50	110	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 04:53	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-11-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213125
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 10:55 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

31235 SDG#: CVG34-22

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Naphthalene	91-20-3	N.D.	1	4	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 16:10	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 16:10	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17265A20A	09/22/2017 17:01	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17265A20A	09/22/2017 17:01	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 22:40	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-11-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213126
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 10:55 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

00065 SDG#: CVG34-23

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	140	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	2	172620009A	09/28/2017 14:50	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-12-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213127
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 13:40 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

21200 SDG#: CVG34-24

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	7		0.5	1	1
10945	Ethylbenzene	100-41-4	0.8	J	0.5	1	1
10945	Naphthalene	91-20-3	2	J	1	4	1
10945	Toluene	108-88-3	0.7	J	0.5	1	1
10945	Xylene (Total)	1330-20-7	1		0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,300		50	100	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	180		50	100	1

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

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX & Naphthalene 8260B	SW-846 8260B	1	F172642AA	09/21/2017 16:32	Anthony H Downey	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F172642AA	09/21/2017 16:32	Anthony H Downey	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17268B94A	09/25/2017 15:33	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	17268B94A	09/25/2017 15:33	Marie D Beamenderfer	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620008A	09/21/2017 23:02	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620008A	09/19/2017 17:15	Ryan J Dowdy	1

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

Sample Description: MW-12-W-170914 Grab Groundwater
Facility# 307233 Job# 17155876 GRD
2259 First St- Livermore T0600196622

ELLE Sample # WW 9213128
ELLE Group # 1851328
Account # 10904

Project Name: 307233

Collected: 09/14/2017 13:40 by ML

Submitted: 09/16/2017 09:45
Reported: 09/29/2017 12:37

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

55455 SDG#: CVG34-25

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	770	50	100	1

Sample Comments

CA ELAP Lab Certification No. 2792

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	172620009A	09/22/2017 05:36	Thomas C Wildermuth	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	172620009A	09/19/2017 17:15	Ryan J Dowdy	1

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

Quality Control Summary

Client Name: Chevron
Reported: 09/29/2017 12:37

Group Number: 1851328

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

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

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: F172642AA	Sample number(s): 9213104-9213105,9213107,9213109,9213111,9213113,9213115,9213117,9213119,9213121,9213123,9213125,9213127		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Naphthalene	N.D.	1	4
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 17265A20A	Sample number(s): 9213104-9213105,9213107,9213109,9213111,9213113,9213115,9213117,9213119,9213121,9213123,9213125		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 17268B94A	Sample number(s): 9213127		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 172620008A	Sample number(s): 9213105,9213107,9213109,9213111,9213113,9213115,9213117,9213119,9213121,9213123,9213125,9213127		
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32	100
Batch number: 172620009A	Sample number(s): 9213106,9213108,9213110,9213112,9213114,9213116,9213118,9213120,9213122,9213124,9213126,9213128		
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32	100

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: F172642AA	Sample number(s): 9213104-9213105,9213107,9213109,9213111,9213113,9213115,9213117,9213119,9213121,9213123,9213125,9213127								
Benzene	20	20.16			101		78-120		
Ethylbenzene	20	19.74			99		78-120		
Naphthalene	20	18.94			95		59-120		
Toluene	20	20.24			101		80-120		

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

Quality Control Summary

Client Name: Chevron
Reported: 09/29/2017 12:37

Group Number: 1851328

LCS/LCSD (continued)

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					
Xylene (Total)	60	58.48			97		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 17265A20A	Sample number(s): 9213104-9213105,9213107,9213109,9213111,9213113,9213115,9213117,9213119,9213121,9213123,9213125								
TPH-GRO N. CA water C6-C12	1100	1004.36	1100	1016.59	91	92	80-120	1	30
Batch number: 17268B94A	Sample number(s): 9213127								
TPH-GRO N. CA water C6-C12	1100	1036.5	1100	1031.19	94	94	80-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 172620008A	Sample number(s): 9213105,9213107,9213109,9213111,9213113,9213115,9213117,9213119,9213121,9213123,9213125,9213127								
TPH-DRO CA C10-C28 w/ Si Gel	1600	1122.4	1600	1238	70	77	40-105	10	20
Batch number: 172620009A	Sample number(s): 9213106,9213108,9213110,9213112,9213114,9213116,9213118,9213120,9213122,9213124,9213126,9213128								
TPH-DRO CA C10-C28 w/ Si Gel	1600	1375.63	1600	1511.94	86	94	40-105	9	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: F172642AA	Sample number(s): 9213104-9213105,9213107,9213109,9213111,9213113,9213115,9213117,9213119,9213121,9213123,9213125,9213127 UNSPK: 9213105									
Benzene	N.D.	20	22.57	20	22.04	113	110	78-120	2	30
Ethylbenzene	N.D.	20	22.16	20	22.02	111	110	78-120	1	30
Naphthalene	N.D.	20	18.06	20	18.12	90	91	59-120	0	30
Toluene	N.D.	20	22.51	20	22.6	113	113	80-120	0	30
Xylene (Total)	N.D.	60	64.09	60	64.02	107	107	80-120	0	30

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

Quality Control Summary

Client Name: Chevron
Reported: 09/29/2017 12:37

Group Number: 1851328

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. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: BTEX & Naphthalene 8260B
Batch number: F172642AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9213104	100	103	103	98
9213105	99	100	102	96
9213107	98	99	104	96
9213109	99	101	103	96
9213111	98	101	104	109
9213113	100	101	102	96
9213115	98	99	103	102
9213117	99	100	104	100
9213119	97	99	103	118
9213121	100	98	103	97
9213123	98	97	106	117
9213125	99	100	103	97
9213127	100	99	105	113
Blank	98	103	103	95
LCS	99	101	103	99
MS	101	101	104	100
MSD	98	104	105	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17265A20A

	Trifluorotoluene-F
9213104	87
9213105	86
9213107	85
9213109	88
9213111	100
9213113	88
9213115	107
9213117	100
9213119	110
9213121	88
9213123	131
9213125	88
Blank	88
LCS	95
LCSD	96
Limits:	63-135

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

Quality Control Summary

Client Name: Chevron
Reported: 09/29/2017 12:37

Group Number: 1851328

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17268B94A

	Trifluorotoluene-F
9213127	121
Blank	78
LCS	90
LCSD	90
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 172620008A

	Orthoterphenyl
9213105	80
9213107	81
9213109	76
9213111	81
9213113	88
9213115	73
9213117	99
9213119	76
9213121	72
9213123	70
9213125	73
9213127	76
Blank	71
LCS	81
LCSD	89
Limits:	42-126

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 172620009A

	Orthoterphenyl
9213106	99
9213108	95
9213110	94
9213112	105
9213114	93
9213116	101
9213118	119
9213120	94
9213122	96
9213124	90
9213126	89

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

Quality Control Summary

Client Name: Chevron
Group Number: 1851328
Reported: 09/29/2017 12:37

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 172620009A

	Orthoterphenyl
9213128	96
Blank	88
LCS	97
LCSD	106
Limits:	42-126

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

Chevron California Region Analysis Request/Chain of Custody

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5866

Acct. # 10904

For Eurofins Lancaster Laboratories Environmental use only
Group # 1851328 Sample # 921304-128
Instructions on reverse side correspond with circled numbers.

Page 1 of 2

Client Information

Facility # SS#307233-OML G-R#17155076 WBS Global ID#T0600196622

Site Address 2259 FIRST STREET, LIVERMORE, CA

Chevron PM CM GHDSB 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 x160

Sampler MIKE L. FRANK T

Matrix

Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Oil ☐ Air ☐

Analyses Requested

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

Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Total Number of Containers	BTEX + 8260 ☒ / 8021 ☐	TPH-GRO 8260 ☐ / 8015 ☒	TPH-DRO 8015 with Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup Column	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	NAPHTHALENE (8260)
QA		170914		X		2	X	X							
MW-1			1210			11	X	X	X	X					X
MW-2			0935												
MW-3			1115												
MW-4			1255												
MW-5			0935												
MW-6			1245												
MW-7			1020												
MW-8			1136												
MW-9			1205												

Remarks

Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results. Lab to provide chromatograms for all samples

Turnaround Time Requested (TAT) (please circle)

Standard (circled) | 5 day | 4 day | 72 hour | 48 hour | 24 hour

Data Package (circle if required) EDF/EDD

Type I - Full | Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) | Other: _____

	Relinquished by	Date	Time	Received by	Date	Time
1	[signature]	17.9.14		[signature] 14	SEP17	1605
2						
3						

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Received by [signature] Date 9-16-17 Time 945

Temperature Upon Receipt 0.9/1 °C

Custody Seals Intact? (Yes) No

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 10904 | For Eurofins Lancaster Laboratories Environmental use only | Group # 185328 | Sample # 921304-28

Instructions on reverse side correspond with circled numbers.

Page 2 of 2

Client Information

Facility # SS#307233-OML G-R#17155876 Global ID#T0600196622 WBS

Site Address: 2259 FIRST STREET, LIVERMORE, CA

Chevron PM: CM | GHDSB | 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: Mike L. Frank T.

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

Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Matrix: Soil	Sediment	Potable	Ground Water	NPDES	Surface	Oil	Air	Total Number of Containers	Analyses Requested: BTEX + 8021	TPH-GRO 8015	TPH-DRO 8015 with Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	NAPHTHALENE (8260)
MW-10		170914	1020	X					X					11	X	X	X	X					X
MW-11		↓	1055	↓					↓					↓	↓	↓	↓	↓					↓
MW-12		↓	1340	↓					↓					↓	↓	↓	↓	↓					↓

Remarks

Please report DRO w/sgc using 10 grams of silica and also report 1 gram shake results. Lab to provide chromatograms for all samples

Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day

72 hour 48 hour 24 hour

Data Package (circle if required) EDF/EDD

Type I - Full Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) Other: _____

Relinquished by	Date	Time	Received by	Date	Time
	9/9/14		A. Taylor 14	SEP 17	1605

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Received by: E London | Date: 9-16-17 | Time: 945

Temperature Upon Receipt 0.9 / 1.1 °C

Custody Seals Intact? (Yes) No

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Sample Administration Receipt Documentation Log

Doc Log ID: 194677

Group Number(s): 854328

Client: California Office

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	09/16/2017 9:45
Number of Packages:	3	Number of Projects:	5
State/Province of Origin:	CA		

Arrival Condition Summary

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

Unpacked by Melvin Sanchez (8943) at 13:07 on 09/16/2017

Samples Chilled Details

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

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	1.0	DT	Wet	Y	Bagged	N
2	DT131	1.1	DT	Wet	Y	Bagged	N
3	DT131	0.9	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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

Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

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.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.