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Carryl MacLeod
Project Manager
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**Chevron Environmental
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July 16, 2013

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

Re: Former Texaco Service Station 307233
2259 First Street
Livermore, California
ACEHS Case RO0002908

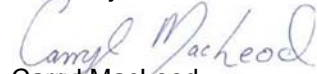
I accept the Second Quarter 2013 Groundwater Monitoring and Sampling Report.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This First Quarter 2013 Groundwater Monitoring and Sampling Report was prepared by Conestoga Rovers & Associates, 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 Quarter 2013 Groundwater Monitoring and Sampling Report



**CONESTOGA-ROVERS
& ASSOCIATES**

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
<http://www.craworld.com>

July 16, 2013

Reference No. 312264

Mr. Jerry Wickham
Alameda County Environmental Health Services (ACEHS)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Second Quarter 2013
Groundwater Monitoring and Sampling Report
Former Texaco Service Station 307233
2259 First Street
Livermore, California
ACEHS Case RO0002908

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Quarter 2013 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc. (G-R) of Dublin, California and their *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current and historical groundwater monitoring and sampling data are presented in Table 1 and current data are shown on Figure 2. Eurofins Lancaster Laboratories Environmental, LLC *Analytical Results* report is included as Attachment B.

RESULTS OF SECOND QUARTER 2013 EVENT

On June 3, 2013, G-R monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- | | |
|--------------------------------------|---------------------------|
| • Shallow Groundwater Flow Direction | Southwest |
| • Shallow Hydraulic Gradient | 0.1 |
| • Deep Groundwater Flow Direction | Monitored Semi-annually |
| • Deep Hydraulic Gradient | Monitored Semi-annually |
| • Approximate Depth to Water | 29 to 34 feet below grade |

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July 16, 2013

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

TABLE A: GROUNDWATER ANALYTICAL DATA						
Well ID	TPHd* (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
ESLs	100	100	1	40	30	20
MW-1	Sampled Semi-Annually					
MW-2						
MW-3						
MW-4						
MW-5						
MW-6						
MW-7	NA	21,000	1,900	23	310	250
MW-8	1,700/1,600	5,000	17	0.9	<0.5	1
MW-9	<50/<50	<50	<0.5	<0.5	<0.5	<0.5
MW-10	4,700/5,300	4,200	0.9	1	32	15
MW-11	690/200	<50	<0.5	<0.5	<0.5	<0.5
MW-12	450/260	3,000	12	0.8	9	6
ESL	San Francisco Bay Region-Regional Water Quality Control Board, (RWQCB), 2008, <i>Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater</i> , Interim final, May 2013, Table F-1a.					
NA	Not Analyzed					
*	Analyzed without and with 10 gram silica gel cleanup					
Concentrations in BOLD exceed ESLs						

CONCLUSIONS AND RECOMMENDATIONS

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

- No LNAPL has been detected in well MW-7 for the past seven quarterly events.
- TPHd, TPHg, and to a lesser extent, benzene are the main constituents of concern at the site.
- The highest dissolved concentrations were detected in shallow zone wells MW-7, MW-8, and MW-10 in the vicinity of the former USTs in the southeast corner of the site.
- Post-land application sulfate levels in shallow zone wells ranged from <1,500 µg/L (MW-10) to 159,000 µg/L (MW-7).

CRA recommends continuing monitoring and sampling to evaluate concentration trends over time and to provide post-land application sulfate data.



**CONESTOGA-ROVERS
& ASSOCIATES**

July 16, 2013

Reference No. 312264

- 3 -

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

G-R will monitor and sample site wells per the established schedule. CRA will submit a groundwater monitoring and sampling report.

Additional Activity

CRA will continue to evaluate the effectiveness of the sulfate land application through fourth quarter 2013. At the conclusion of four quarters of post-application monitoring, a summary report will be prepared.

In anticipation of City park renovation activities at the site, CRA submitted a Soil Management Plan as well as a soil excavation Work Plan to address shallow lead impacts. Both documents are currently awaiting comment/approval by ACEH.

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260



BS/aa/27

Encl.



**CONESTOGA-ROVERS
& ASSOCIATES**

July 16, 2013

Reference No. 312264

- 4 -

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

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

FIGURES

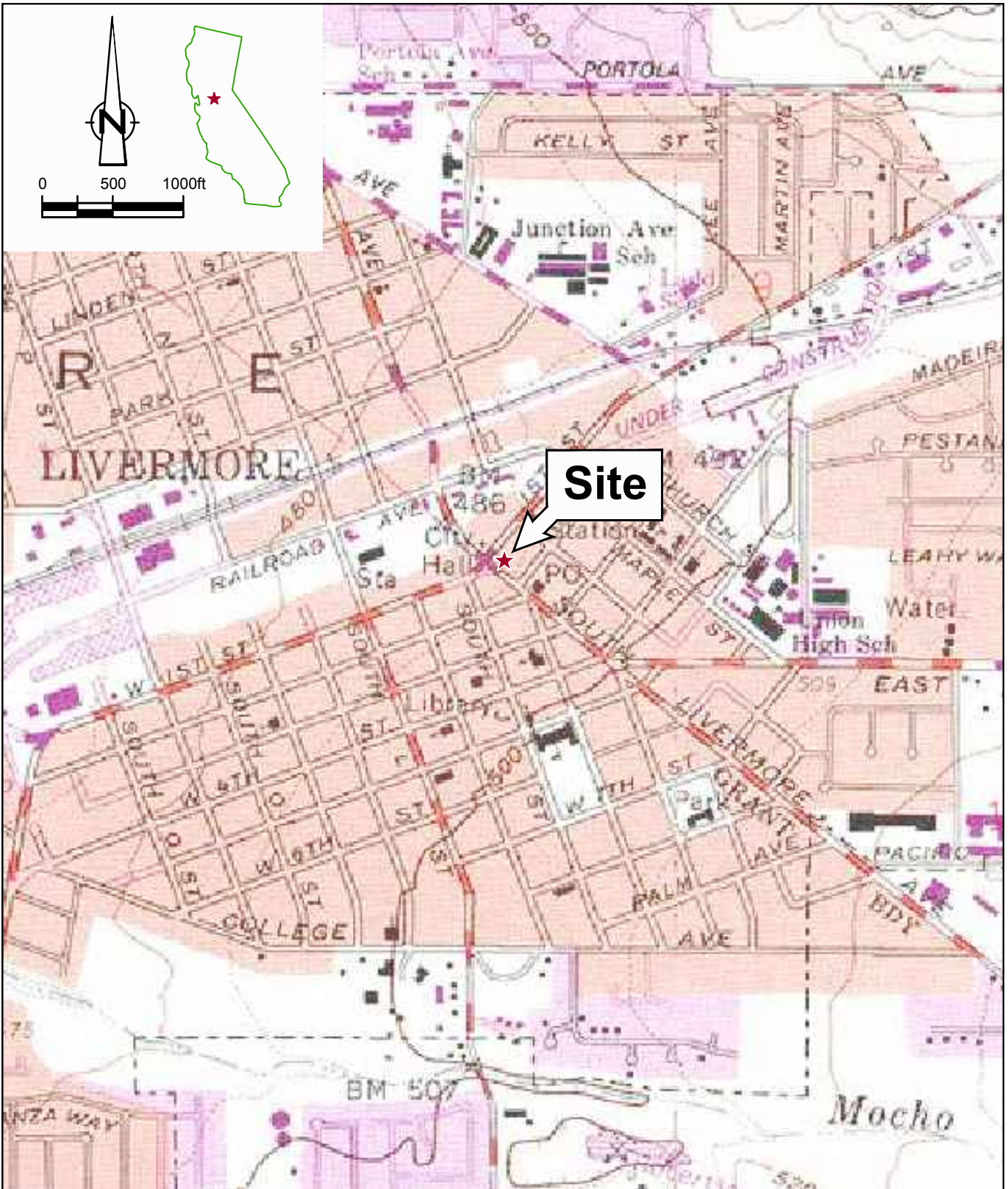


Figure 1
 VICINITY MAP
 FORMER TEXACO STATION (CHEVRON SITE 307233)
 2259 FIRST STREET
 Livermore, California



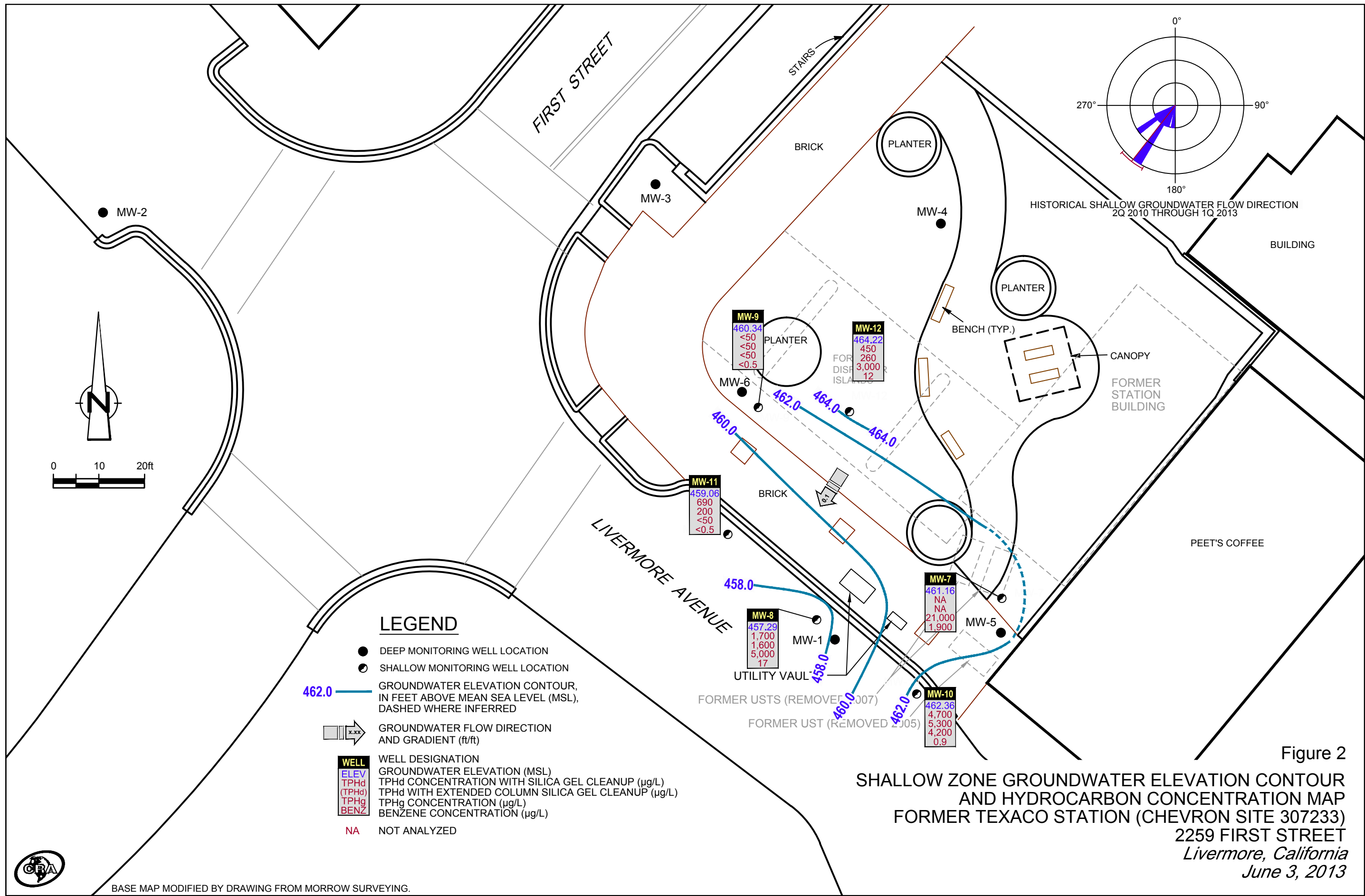


Figure 2
SHALLOW ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP
 FORMER TEXACO STATION (CHEVRON SITE 307233)
 2259 FIRST STREET
 Livermore, California
 June 3, 2013



BASE MAP MODIFIED BY DRAWING FROM MORROW SURVEYING.

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 307233
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCs				GENERAL CHEMISTRY							
							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	06/03/2013⁷	490.86	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/25/2010 ¹	489.43	31.18	458.25	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 307233
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCs				GENERAL CHEMISTRY							
							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	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	06/03/2013⁷	489.43	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
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	06/03/2013⁷	490.38	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-

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Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCs				GENERAL CHEMISTRY							
							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	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	06/03/2013⁷	492.27	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
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	06/03/2013⁷	491.99	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 307233
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCs				GENERAL CHEMISTRY								
							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	µg/L
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	-	-	-	-	-	-	-	-	-
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	06/03/2013⁷	491.52	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-
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	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 307233
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCs				GENERAL CHEMISTRY							
							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	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	06/03/2013⁹	492.29	31.13	461.16	0.00	0.00	-	-	21,000	1,900	23	310	250	-	159,000	-	-	-	-	9,500	-
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	-	-	-	-
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	06/03/2013⁴	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-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	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 307233
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCs				GENERAL CHEMISTRY								
							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	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	06/03/2013⁴	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-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	06/03/2013⁴	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	
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	06/03/2013⁴	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-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	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 307233
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS				GENERAL CHEMISTRY							
							TPH-DRO	TPH-DRO w/ SI Gel	TPH-GRO	B	T	E	X	Nitrate Nitrogen	Sulfate	Total sulfide (dissolved)	Ferrous Iron	Alkalinity, total (as CaCO ₃)	Alkalinity, phenolphthalein	Methane	Calcium
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-12	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	06/03/2013⁴	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
QA	05/27/2010	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	09/13/2010	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	12/20/2010	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	03/07/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	06/06/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	06/22/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
QA	09/19/2011	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

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

ft = Feet

µg/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 307233
 2259 FIRST STREET
 LIVERMORE, CALIFORNIA

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCs				GENERAL CHEMISTRY								
							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	µg/L

B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes (Total)
 -- = Not available / not applicable
 <x = Not detected at or above laboratory method detection limit

- 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 samples was collected
- 9 Skimmer in well
- 10 Monitored only

ATTACHMENT A

MONITORING DATA PACKAGE



GETTLER-RYAN INC.



TRANSMITTAL

June 12, 2013
G-R #385876

TO: Mr. Brian Silva
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
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 Quarter Event of June 3, 2013

COMMENTS:

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

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

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

trans/9-0271

WELL CONDITION STATUS SHEET

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

Job #: 385876
 Event Date: 6/3/13
 Sampler: JOE

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	BOLTS (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-9	OK	→				→		N	N	Morrison 6" 2	↓
MW-11	OK	→				→		Y	Y	china 8" 2	
MW-10	OK	→				→		N	N	china 8" 2	
MW-8	OK	→				→				Emco 12" 2	
MW-12	OK	→	→	B=1	OK	→				china 8" 2	
MW-7	OK	→				→				Morrison 6" 2	

Comments _____

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 6/3/13 (inclusive)
 City: Livermore, CA Sampler: Joe

Well ID: MW-7 Date Monitored: 6/3/13
 Well Diameter: 2
 Total Depth: 32.73 ft.
 Depth to Water: 31.13 ft. Check if water column is less than 0.50 ft.
1.60 xVF 0.17 = 0.27 x3 case volume = Estimated Purge Volume: 0.81 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.45

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

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1110 Weather Conditions: Clear
 Sample Time/Date: 1314 / 6/3/13 Water Color: gray Odor: 01N Moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 32.68

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (umhos/cm - uS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1111</u>	<u>.27</u>	<u>7.00</u>	<u>1.54</u>	<u>22.9</u>	_____	_____
<u>1112</u>	<u>.54</u>	<u>6.98</u>	<u>1.52</u>	<u>22.5</u>	_____	_____
<u>1113</u>	<u>.81</u>	<u>6.97</u>	<u>1.52</u>	<u>22.1</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/ TPH-DRO w/sgc(8015)
2	x voa vial	YES	NP	LANCASTER	SULFATE (EPA 300.0)
	x 500ml clear glass	YES	NaOH	LANCASTER	DISSOLVED SULFIDE (SM20 4500 S2D)
	x 250ml poly	YES	NP	LANCASTER	TOTAL ALKALINITY (SM20 2320 B)
	x 250ml poly	YES	HNO3	LANCASTER	CALCIUM (6010)
3	x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	x voa vial	YES	HCL	LANCASTER	DISSOLVED METHANE (RSK-175)

COMMENTS: Skimmer in well, well sampled for chevron studies,
slow recovery, insufficient water at sampling

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385876
 Event Date: 6/3/13 (inclusive)
 Sampler: JOE

Well ID: MW-8
 Well Diameter: 2
 Total Depth: 38.90 ft.
 Depth to Water: 33.60 ft.
5.30 xVF 0.17 = 0.91

Date Monitored: 6/3/13

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 than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 34.66 gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0850
 Sample Time/Date: 0852-0917 6/3/13
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: Clear
 Water Color: gray Odor: Y/N Moderate
 Sediment Description: Light
 Volume: _____ gal. DTW @ Sampling: 34.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MC} (µmhos/cm µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0855</u>	<u>1</u>	<u>7.50</u>	<u>0.48</u>	<u>18.5</u>		
<u>0858</u>	<u>2</u>	<u>7.33</u>	<u>0.49</u>	<u>18.4</u>		
<u>0856-0901</u>	<u>3</u>	<u>7.32</u>	<u>0.49</u>	<u>18.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/ TPH-DRO w/sgc(8015)
	2 x voa vial	YES	NP	LANCASTER	SULFATE (EPA 300.0)
	1 x 500ml clear glass	YES	NaOH	LANCASTER	DISSOLVED SULFIDE (SM20 4500 S2D)
	1 x 250ml poly	YES	NP	LANCASTER	TOTAL ALKALINITY (SM20 2320 B)
	1 x 250ml poly	YES	HNO3	LANCASTER	CALCIUM (6010)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	3 x voa vial	YES	HCL	LANCASTER	DISSOLVED METHANE (RSK-175)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 6/3/13 (inclusive)
 City: Livermore, CA Sampler: JOE

Well ID: MW-9 Date Monitored: 6/3/13
 Well Diameter: 2
 Total Depth: 39.83 ft.
 Depth to Water: 31.30 ft. Check if water column is less than 0.50 ft.
8.53 xVF 0.17 = 1.45 x3 case volume = Estimated Purge Volume: 4.35 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.00

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

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0955 Weather Conditions: Clear
 Sample Time/Date: 1215/6/3/13 Water Color: Brown Odor: Y/N
 Approx. Flow Rate: _____ gpm. Sediment Description: Heavy
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 36.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{ms} (umhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0958</u>	<u>1</u>	<u>7.27</u>	<u>1.07</u>	<u>20.4</u>		
<u>1000</u>	<u>2</u>	<u>7.19</u>	<u>1.04</u>	<u>20.1</u>		
<u>1005</u>	<u>4</u>	<u>7.22</u>	<u>1.03</u>	<u>19.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/ TPH-DRO w/sgc(8015)
	2 x voa vial	YES	NP	LANCASTER	SULFATE (EPA 300.0)
	1 x 500ml clear glass	YES	NaOH	LANCASTER	DISSOLVED SULFIDE (SM20 4500 S2D)
	1 x 250ml poly	YES	NP	LANCASTER	TOTAL ALKALINITY (SM20 2320 B)
	1 x 250ml poly	YES	HNO3	LANCASTER	CALCIUM (6010)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	3 x voa vial	YES	HCL	LANCASTER	DISSOLVED METHANE (RSK-175)

COMMENTS: Slow recovery

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 6/3/13 (inclusive)
 City: Livermore, CA Sampler: JOE

Well ID: MW-10 Date Monitored: 6/3/13

Well Diameter: 2

Total Depth: 32.06 ft.

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

Depth to Water: 28.79 ft. Check if water column is less than 0.50 ft.

3.27 xVF 0.17 = 0.55 x3 case volume = Estimated Purge Volume: 1.66 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 29.44

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1035 Weather Conditions: Clear
 Sample Time/Date: 1056 / 6/3/13 Water Color: gray Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 29.42

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (umhos/cm μS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1037</u>	<u>0.55</u>	<u>7.51</u>	<u>0.49</u>	<u>21.6</u>		
<u>1039</u>	<u>1.1</u>	<u>7.43</u>	<u>0.49</u>	<u>21.5</u>		
<u>1041</u>	<u>1.6</u>	<u>7.42</u>	<u>0.50</u>	<u>21.2</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/ TPH-DRO w/sgc(8015)
	2 x voa vial	YES	NP	LANCASTER	SULFATE (EPA 300.0)
	1 x 500ml clear glass	YES	NaOH	LANCASTER	DISSOLVED SULFIDE (SM20 4500 S2D)
	1 x 250ml poly	YES	NP	LANCASTER	TOTAL ALKALINITY (SM20 2320 B)
	1 x 250ml poly	YES	HNO3	LANCASTER	CALCIUM (6010)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	3 x voa vial	YES	HCL	LANCASTER	DISSOLVED METHANE (RSK-175)

COMMENTS:

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 6/3/13 (inclusive)
 City: Livermore, CA Sampler: JOE

Well ID: MW- 11 Date Monitored: 6/3/13
 Well Diameter: 2
 Total Depth: 34.71 ft.
 Depth to Water: 31.53 ft. Check if water column is less then 0.50 ft.
3.18 xVF 0.17 = 0.54 x3 case volume = Estimated Purge Volume: 1.62 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.16

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

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0939 Weather Conditions: Clear
 Sample Time/Date: 1135 / 6/3/13 Water Color: gray Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 32.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (µmhos/cm-PS)	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)
<u>0941</u>	<u>.5</u>	<u>7.58</u>	<u>0.65</u>	<u>19.2</u>		
<u>0943</u>	<u>1</u>	<u>7.56</u>	<u>0.65</u>	<u>18.9</u>		
<u>0946</u>	<u>2</u>	<u>7.55</u>	<u>0.65</u>	<u>18.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 11	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>1</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/ TPH-DRO w/sgc(8015)
	<u>2</u> x voa vial	YES	NP	LANCASTER	SULFATE (EPA 300.0)
	<u>1</u> x 500ml clear glass	YES	NaOH	LANCASTER	DISSOLVED SULFIDE (SM20 4500 S2D)
	x 250ml poly	YES	NP	LANCASTER	TOTAL ALKALINITY (SM20 2320 B)
	x 250ml poly	YES	HNO3	LANCASTER	CALCIUM (6010)
	<u>1</u> x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	DISSOLVED METHANE (RSK-175)

COMMENTS: Slow recovery, insufficient water at sampling

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
 Site Address: 2259 First Street Event Date: 6/3/13 (inclusive)
 City: Livermore, CA Sampler: JOE

Well ID: MW-12 Date Monitored: 6/3/13
 Well Diameter: 2
 Total Depth: 34.48 ft.
 Depth to Water: 29.50 ft. Check if water column is less than 0.50 ft.
4.98 x VF 0.17 = 0.84 x3 case volume = Estimated Purge Volume: 2.53 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 30.49

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

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 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: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1012 Weather Conditions: Clear
 Sample Time/Date: 1240 / 6/3/13 Water Color: gray Odor: Ø / N slight
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 31.35

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{µmhos/cm} (µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1014</u>	<u>.53</u>	<u>7.00</u>	<u>1.36</u>	<u>19.0</u>		
<u>1016</u>	<u>1</u>	<u>6.94</u>	<u>1.33</u>	<u>18.9</u>		
<u>1018</u>	<u>2</u>	<u>6.88</u>	<u>1.31</u>	<u>18.9</u>		

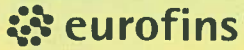
LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/ TPH-DRO w/sgc(8015)
	2 x voa vial	YES	NP	LANCASTER	SULFATE (EPA 300.0)
	1 x 500ml clear glass	YES	NaOH	LANCASTER	DISSOLVED SULFIDE (SM20 4500 S2D)
	1 x 250ml poly	YES	NP	LANCASTER	TOTAL ALKALINITY (SM20 2320 B)
	1 x 250ml poly	YES	HNO3	LANCASTER	CALCIUM (6010)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	3 x voa vial	YES	HCL	LANCASTER	DISSOLVED METHANE (RSK-175)

COMMENTS: well sampled for chevron studies, slow recovery

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

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

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

1 Client Information

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

Site Address 2239 FIRST STREET, LIVERMORE, CA

Chevron PM CRASB Lead Consultant SIMS

Consultant/Office Getter-Ryan, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com), (925) 551-7444 x180

Consultant Phone # (916) 889-8908 x

Sampler JOE LEWIS

2 Sample Identification	Soil Depth	3 Collected		Grab	Composite	4 Matrix			Total Number of Containers	5 Analyses Requested										6 Remarks				
		Date	Time			Soil	Water	Oil		BTEX	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8015 Full Scan	TOTAL ALKALINITY (as calcium carbonate)	Total Lead	Dissolved Methane	Dissolved Sulfide	calcium (6010)		Ferrous Iron (SM20 3500 FeB)	TPH-DRO w/sgc column	TPH-DRO w/sgc (8015)	
MW-7		6/3/13	1314						11	<input checked="" type="checkbox"/>														Please report DRO w/sgc using 10 grams of silica and also report i gram snake results amended w/sgc removed MTBE
MW-8			0917						17	<input checked="" type="checkbox"/>														
MW-9			1215						17	<input checked="" type="checkbox"/>														
MW-10			1056						17	<input checked="" type="checkbox"/>														
MW-11			1135						14	<input checked="" type="checkbox"/>														
MW-12		↓	1240						19	<input checked="" type="checkbox"/>														
QA		NA	NA						2	<input checked="" type="checkbox"/>														

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day
 72 hour 48 hour 24 hour

Relinquished by Joe P. Seiver Date 6/3/13 Time 1600

Relinquished by _____ Date _____ Time _____

Received by _____ Date _____ Time _____

Received by _____ Date _____ Time _____

8 Data Package (circle if required)

Type I - Full **EDD (circle if required)** EDF/EDD
 Type VI (Raw Data) EDFFLAT (default)

Other: _____

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Received by _____ Date _____ Time _____

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

- 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

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

June 20, 2013

Project: 307233

Submittal Date: 06/04/2013
Group Number: 1394312
PO Number: 0015118372
Release Number: MACLEOD
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
MW-7-W-130603 Grab Water	7079549
MW-8-W-130603 Grab Water	7079550
MW-8-W-130603 Grab Water	7079551
MW-9-W-130603 Grab Water	7079552
MW-9-W-130603 Grab Water	7079553
MW-10-W-130603 Grab Water	7079554
MW-10-W-130603 Grab Water	7079555
MW-11-W-130603 Grab Water	7079556
MW-11-W-130603 Grab Water	7079557
MW-12-W-130603 Grab Water	7079558
MW-12-W-130603 Grab Water	7079559
QA-T-130603 NA Water	7079560

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

ELECTRONIC COPY TO	CRA c/o Gettler-Ryan	Attn: Rachele Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	CRA	Attn: Brian Silva

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: MW-7-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079549
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 13:14 by JL Chevron
 Submitted: 06/04/2013 09:30 L4310
 Reported: 06/20/2013 14:08 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

72337

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/l	
10943	Benzene	71-43-2	1,900	10	20
10943	Ethylbenzene	100-41-4	310	10	20
10943	Toluene	108-88-3	23	10	20
10943	Xylene (Total)	1330-20-7	250	10	20
GC Volatiles			SW-846 8015B	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	21,000	500	10
GC Miscellaneous			SW-846 8015B modified	ug/l	
07105	Methane	74-82-8	9,500	150	50
Wet Chemistry			EPA 300.0	ug/l	
00228	Sulfate	14808-79-8	159,000	7,500	25

General Sample Comments

State of California Lab Certification No. 2501

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
10943	BTEX 8260B Water	SW-846 8260B	1	F131571AA	06/06/2013 11:21	Anita M Dale	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131571AA	06/06/2013 11:21	Anita M Dale	20
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13162B07A	06/12/2013 18:58	Catherine J Schwarz	10
01146	GC VOA Water Prep	SW-846 5030B	1	13162B07A	06/12/2013 18:58	Catherine J Schwarz	10
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131610030A	06/11/2013 07:12	Elizabeth J Marin	50
00228	Sulfate	EPA 300.0	1	13156987132B	06/07/2013 10:52	Clinton M Wilson	25

Sample Description: MW-8-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079550
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 09:17 by JL Chevron
 L4310
 Submitted: 06/04/2013 09:30 6001 Bollinger Canyon Rd.
 Reported: 06/20/2013 14:08 San Ramon CA 94583

23381

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	17	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	0.9	0.5	1
10943	Xylene (Total)	1330-20-7	1	0.5	1
GC Volatiles					
	SW-846 8015B		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,000	250	5
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	2,500	30	10
GC Petroleum Hydrocarbons w/Si					
	SW-846 8015B		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,600	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals					
	SW-846 6010B		ug/l	ug/l	
01750	Calcium	7440-70-2	36,400	64.0	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00228	Sulfate	14808-79-8	3,000	1,500	5
	SM 2320 B-1997		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	301,000	700	1
	SM 3500-Fe B modified-1997		ug/l	ug/l	
08344	Ferrous Iron	n.a.	5,100	200	20
	SM 4500-S2 D-2000		ug/l	ug/l	
10499	Dissolved Sulfide	n.a.	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	BTEX 8260B Water	SW-846 8260B	1	F131631AA	06/12/2013 09:32	Anita M Dale	1

Sample Description: MW-8-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079550
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 09:17 by JL

Chevron

L4310

Submitted: 06/04/2013 09:30

6001 Bollinger Canyon Rd.

Reported: 06/20/2013 14:08

San Ramon CA 94583

23381

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131631AA	06/12/2013 09:32	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13162B07A	06/12/2013 19:24	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13162B07A	06/12/2013 19:24	Catherine J Schwarz	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131610030A	06/11/2013 07:30	Elizabeth J Marin	10
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	131570012A	06/15/2013 20:00	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	131570012A	06/06/2013 22:00	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010B	1	131601848005	06/12/2013 06:13	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131601848005	06/11/2013 09:04	James L Mertz	1
00228	Sulfate	EPA 300.0	1	13156987132B	06/08/2013 17:30	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13155003103A	06/05/2013 06:32	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13156834402A	06/05/2013 21:50	Daniel S Smith	20
10499	Dissolved Sulfide	SM 4500-S2 D-2000	1	13158023001A	06/07/2013 07:55	Susan E Hibner	1

Sample Description: MW-8-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079551
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 09:17 by JL Chevron
 Submitted: 06/04/2013 09:30 L4310
 Reported: 06/20/2013 14:08 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

23382

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
	GC Petroleum Hydrocarbons w/Si	SW-846 8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,700	50	1

General Sample Comments

State of California Lab Certification No. 2501

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	131570014A	06/18/2013 14:16	Michele D Hamilton	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	131570014A	06/06/2013 22:00	Elaine F Stoltzfus	1

Sample Description: MW-9-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079552
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 12:15 by JL Chevron
 L4310
 Submitted: 06/04/2013 09:30 6001 Bollinger Canyon Rd.
 Reported: 06/20/2013 14:08 San Ramon CA 94583

23391

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	SW-846 8015B		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	7.9	3.0	1
GC Petroleum Hydrocarbons w/Si					
	SW-846 8015B		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals					
	SW-846 6010B		ug/l	ug/l	
01750	Calcium	7440-70-2	128,000	64.0	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00228	Sulfate	14808-79-8	127,000	6,000	20
	SM 2320 B-1997		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	306,000	700	1
	SM 3500-Fe B modified-1997		ug/l	ug/l	
08344	Ferrous Iron	n.a.	100	10	1
	SM 4500-S2 D-2000		ug/l	ug/l	
10499	Dissolved Sulfide	n.a.	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	BTEX 8260B Water	SW-846 8260B	1	F131571AA	06/06/2013 12:27	Anita M Dale	1

Sample Description: MW-9-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079552
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 12:15 by JL

Chevron

L4310

Submitted: 06/04/2013 09:30

6001 Bollinger Canyon Rd.

Reported: 06/20/2013 14:08

San Ramon CA 94583

23391

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131571AA	06/06/2013 12:27	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13162B07A	06/12/2013 12:32	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13162B07A	06/12/2013 12:32	Catherine J Schwarz	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131610030A	06/11/2013 02:37	Elizabeth J Marin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	131570012A	06/15/2013 20:24	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	131570012A	06/06/2013 22:00	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010B	1	131601848005	06/12/2013 06:17	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131601848005	06/11/2013 09:04	James L Mertz	1
00228	Sulfate	EPA 300.0	1	13156987132B	06/07/2013 11:52	Clinton M Wilson	20
12150	Total Alkalinity	SM 2320 B-1997	1	13155003103A	06/05/2013 06:38	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13156834402A	06/05/2013 21:50	Daniel S Smith	1
10499	Dissolved Sulfide	SM 4500-S2 D-2000	1	13158023001A	06/07/2013 07:55	Susan E Hibner	1

Sample Description: MW-9-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079553
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 12:15 by JL Chevron
 Submitted: 06/04/2013 09:30 L4310
 Reported: 06/20/2013 14:08 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

23392

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si					
	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B n.a.	ug/l N.D.	ug/l 50	1
A target analyte(s) in the continuing calibration verification standard is outside the QC acceptance limits. Since the result is high and the target analyte(s) is not detected in the sample, the data is reported.					

General Sample Comments

State of California Lab Certification No. 2501

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	131570014A	06/15/2013 15:54	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	131570014A	06/06/2013 22:00	Elaine F Stoltzfus	1

Sample Description: MW-10-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079554
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 10:56 by JL Chevron
 Submitted: 06/04/2013 09:30 L4310
 Reported: 06/20/2013 14:08 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

33101

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	0.9	0.5	1
10943	Ethylbenzene	100-41-4	32	0.5	1
10943	Toluene	108-88-3	1	0.5	1
10943	Xylene (Total)	1330-20-7	15	0.5	1
GC Volatiles					
	SW-846 8015B		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,200	50	1
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	5,200	60	20
GC Petroleum Hydrocarbons w/Si					
	SW-846 8015B		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	5,300	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals					
	SW-846 6010B		ug/l	ug/l	
01750	Calcium	7440-70-2	36,700	64.0	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00228	Sulfate	14808-79-8	N.D.	1,500	5
	SM 2320 B-1997		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	252,000	700	1
	SM 3500-Fe B modified-1997		ug/l	ug/l	
08344	Ferrous Iron	n.a.	9,400	500	50
	SM 4500-S2 D-2000		ug/l	ug/l	
10499	Dissolved Sulfide	n.a.	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	BTEX 8260B Water	SW-846 8260B	1	F131571AA	06/06/2013 12:49	Anita M Dale	1

Sample Description: MW-10-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079554
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 10:56 by JL

Chevron

L4310

Submitted: 06/04/2013 09:30

6001 Bollinger Canyon Rd.

Reported: 06/20/2013 14:08

San Ramon CA 94583

33101

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131571AA	06/06/2013 12:49	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13162B07A	06/12/2013 12:58	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13162B07A	06/12/2013 12:58	Catherine J Schwarz	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131610030A	06/11/2013 07:48	Elizabeth J Marin	20
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	131570012A	06/15/2013 20:49	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	131570012A	06/06/2013 22:00	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010B	1	131601848005	06/12/2013 06:28	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131601848005	06/11/2013 09:04	James L Mertz	1
00228	Sulfate	EPA 300.0	2	13156987132B	06/07/2013 12:06	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13155003103A	06/05/2013 06:44	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13156834402A	06/05/2013 21:50	Daniel S Smith	50
10499	Dissolved Sulfide	SM 4500-S2 D-2000	1	13158023001A	06/07/2013 07:55	Susan E Hibner	1

Sample Description: MW-10-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079555
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 10:56 by JL Chevron
 Submitted: 06/04/2013 09:30 L4310
 Reported: 06/20/2013 14:08 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

33102

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
	GC Petroleum Hydrocarbons w/Si	SW-846 8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	4,700	50	1

General Sample Comments

State of California Lab Certification No. 2501

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	131570014A	06/18/2013 14:39	Michele D Hamilton	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	131570014A	06/06/2013 22:00	Elaine F Stoltzfus	1

Sample Description: MW-11-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079556
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 11:35 by JL Chevron
 L4310
 Submitted: 06/04/2013 09:30 6001 Bollinger Canyon Rd.
 Reported: 06/20/2013 14:08 San Ramon CA 94583

33111

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous					
07105	Methane	74-82-8	490	15	5
GC Petroleum Hydrocarbons w/Si					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	200	50	1
The reverse surrogate, capric acid, is present at <1%. The DRO result is possibly a result of sample extract contamination during the 10g silica gel clean-up. Sufficient sample was not available to repeat the analysis.					
Wet Chemistry					
00228	Sulfate	14808-79-8	54,400	3,000	10
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	670	10	1
SM 4500-S2 D-2000					
10499	Dissolved Sulfide	n.a.	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	BTEX 8260B Water	SW-846 8260B	1	F131571AA	06/06/2013 13:33	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131571AA	06/06/2013 13:33	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13162B07A	06/12/2013 13:24	Catherine J Schwarz	1

Sample Description: MW-11-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079556
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 11:35 by JL

Chevron

L4310

Submitted: 06/04/2013 09:30

6001 Bollinger Canyon Rd.

Reported: 06/20/2013 14:08

San Ramon CA 94583

33111

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	13162B07A	06/12/2013 13:24	Catherine J Schwarz	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131610030A	06/11/2013 08:06	Elizabeth J Marin	5
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	131570012A	06/15/2013 21:13	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	131570012A	06/06/2013 22:00	Elaine F Stoltzfus	1
00228	Sulfate	EPA 300.0	1	13156987132B	06/07/2013 12:21	Clinton M Wilson	10
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13156834402A	06/05/2013 21:50	Daniel S Smith	1
10499	Dissolved Sulfide	SM 4500-S2 D-2000	1	13158023001A	06/07/2013 07:55	Susan E Hibner	1

Sample Description: MW-11-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079557
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 11:35 by JL Chevron
 Submitted: 06/04/2013 09:30 L4310
 Reported: 06/20/2013 14:08 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

33112

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons w/Si			ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	690	50	1
The DRO result is possibly a result of sample extract contamination during the silica gel clean-up. Sufficient sample was not available to repeat the analysis.					

General Sample Comments

State of California Lab Certification No. 2501

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	131570014A	06/19/2013 18:06	Michele D Hamilton	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	131570014A	06/06/2013 22:00	Elaine F Stoltzfus	1

Sample Description: MW-12-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079558
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 12:40 by JL Chevron
 Submitted: 06/04/2013 09:30 L4310
 Reported: 06/20/2013 14:08 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

33121

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10943	Benzene	71-43-2	12	0.5	1
10943	Ethylbenzene	100-41-4	9	0.5	1
10943	Toluene	108-88-3	0.8	0.5	1
10943	Xylene (Total)	1330-20-7	6	0.5	1
GC Volatiles					
	SW-846 8015B		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,000	50	1
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	460	3.0	1
GC Petroleum Hydrocarbons w/Si					
	SW-846 8015B		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	260	50	1
	The reverse surrogate, capric acid, is present at <1%.				
Metals					
	SW-846 6010B		ug/l	ug/l	
01750	Calcium	7440-70-2	73,800	64.0	1
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00228	Sulfate	14808-79-8	14,700	1,500	5
	SM 2320 B-1997		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity	n.a.	534,000	700	1
	SM 3500-Fe B modified-1997		ug/l	ug/l	
08344	Ferrous Iron	n.a.	3,300	200	20
	SM 4500-S2 D-2000		ug/l	ug/l	
10499	Dissolved Sulfide	n.a.	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	BTEX 8260B Water	SW-846 8260B	1	F131571AA	06/06/2013 13:54	Anita M Dale	1

Sample Description: MW-12-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079558
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 12:40 by JL

Chevron

L4310

Submitted: 06/04/2013 09:30

6001 Bollinger Canyon Rd.

Reported: 06/20/2013 14:08

San Ramon CA 94583

33121

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131571AA	06/06/2013 13:54	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13162B07A	06/12/2013 13:50	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13162B07A	06/12/2013 13:50	Catherine J Schwarz	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131610030A	06/11/2013 03:31	Elizabeth J Marin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	131570012A	06/15/2013 21:38	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	131570012A	06/06/2013 22:00	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010B	1	131601848005	06/12/2013 06:32	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131601848005	06/11/2013 09:04	James L Mertz	1
00228	Sulfate	EPA 300.0	1	13156987132B	06/07/2013 19:18	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	13159008102A	06/08/2013 16:38	Clayton C Litchmore	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13156834402A	06/05/2013 21:50	Daniel S Smith	20
10499	Dissolved Sulfide	SM 4500-S2 D-2000	1	13158023001A	06/07/2013 07:55	Susan E Hibner	1

Sample Description: MW-12-W-130603 Grab Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079559
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013 12:40 by JL Chevron
 Submitted: 06/04/2013 09:30 L4310
 Reported: 06/20/2013 14:08 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

33122

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
	GC Petroleum Hydrocarbons w/Si	SW-846 8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	450	50	1

General Sample Comments

State of California Lab Certification No. 2501

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	131570014A	06/18/2013 15:03	Michele D Hamilton	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	131570014A	06/06/2013 22:00	Elaine F Stoltzfus	1

Sample Description: QA-T-130603 NA Water
 Facility# 307233 Job# 385876 GRD
 2259 First St-Livermore T0600196622

LLI Sample # WW 7079560
 LLI Group # 1394312
 Account # 10904

Project Name: 307233

Collected: 06/03/2013

Chevron

Submitted: 06/04/2013 09:30

L4310

Reported: 06/20/2013 14:08

6001 Bollinger Canyon Rd.
 San Ramon CA 94583

7233Q

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	BTEX 8260B Water	SW-846 8260B	1	F131571AA	06/06/2013 08:27	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131571AA	06/06/2013 08:27	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13162B07A	06/12/2013 10:50	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13162B07A	06/12/2013 10:50	Catherine J Schwarz	1

Quality Control Summary

Client Name: Chevron
Reported: 06/20/13 at 02:08 PM

Group Number: 1394312

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.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F131571AA	Sample number(s): 7079549,7079552,7079554,7079556,7079558,7079560							
Benzene	N.D.	0.5	ug/l	88		77-121		
Ethylbenzene	N.D.	0.5	ug/l	87		79-120		
Toluene	N.D.	0.5	ug/l	87		79-120		
Xylene (Total)	N.D.	0.5	ug/l	85		77-120		
Batch number: F131631AA	Sample number(s): 7079550							
Benzene	N.D.	0.5	ug/l	86		77-121		
Ethylbenzene	N.D.	0.5	ug/l	88		79-120		
Toluene	N.D.	0.5	ug/l	89		79-120		
Xylene (Total)	N.D.	0.5	ug/l	91		77-120		
Batch number: 13162B07A	Sample number(s): 7079549-7079550,7079552,7079554,7079556,7079558,7079560							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	111	107	75-135	4	30
Batch number: 131610030A	Sample number(s): 7079549-7079550,7079552,7079554,7079556,7079558							
Methane	N.D.	3.0	ug/l	98		80-120		
Batch number: 131570012A	Sample number(s): 7079550,7079552,7079554,7079556,7079558							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	97	98	43-120	1	20
Batch number: 131570014A	Sample number(s): 7079551,7079553,7079555,7079557,7079559							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	109	115	43-120	6	20
Batch number: 131601848005	Sample number(s): 7079550,7079552,7079554,7079558							
Calcium	N.D.	64.0	ug/l	100		90-110		
Batch number: 13156987132B	Sample number(s): 7079549-7079550,7079552,7079554,7079556,7079558							
Sulfate	N.D.	300.	ug/l	98		90-110		
Batch number: 13155003103A	Sample number(s): 7079550,7079552,7079554							
Total Alkalinity	1,200	700.	ug/l as CaCO3	93		90-110		
Batch number: 13156834402A	Sample number(s): 7079550,7079552,7079554,7079556,7079558							
Ferrous Iron	N.D.	10.	ug/l	97		93-105		
Batch number: 13158023001A	Sample number(s): 7079550,7079552,7079554,7079556,7079558							
Dissolved Sulfide	N.D.	54.	ug/l	92		90-110		
Batch number: 13159008102A	Sample number(s): 7079558							
Total Alkalinity	960	700.	ug/l as CaCO3	97		90-110		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 06/20/13 at 02:08 PM

Group Number: 1394312

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: F131571AA	Sample number(s): 7079549,7079552,7079554,7079556,7079558,7079560 UNSPK: P078215								
Benzene	96	97	72-134	1	30				
Ethylbenzene	97	97	71-134	0	30				
Toluene	98	97	80-125	1	30				
Xylene (Total)	97	98	79-125	1	30				
Batch number: F131631AA	Sample number(s): 7079550 UNSPK: P083362								
Benzene	91	90	72-134	1	30				
Ethylbenzene	93	92	71-134	2	30				
Toluene	93	91	80-125	2	30				
Xylene (Total)	94	93	79-125	1	30				
Batch number: 131610030A	Sample number(s): 7079549-7079550,7079552,7079554,7079556,7079558 UNSPK: P076803								
Methane	95	99	35-157	4	20				
Batch number: 131601848005	Sample number(s): 7079550,7079552,7079554,7079558 UNSPK: P080451 BKG: P080451								
Calcium	122 (2)	112 (2)	81-118	1	20	23,900	24,800	3	20
Batch number: 13156987132B	Sample number(s): 7079549-7079550,7079552,7079554,7079556,7079558 UNSPK: P079732								
Sulfate	105		90-110			N.D.	N.D.	0 (1)	20
Batch number: 13155003103A	Sample number(s): 7079550,7079552,7079554 UNSPK: P077387 BKG: P077387								
Total Alkalinity	56		10-159			127,000	127,000	0	5
Batch number: 13156834402A	Sample number(s): 7079550,7079552,7079554,7079556,7079558 UNSPK: P082675 BKG: P082675								
Ferrous Iron	93	99	81-112	4	6	1,800	1,800	2 (1)	5
Batch number: 13158023001A	Sample number(s): 7079550,7079552,7079554,7079556,7079558 UNSPK: P081882 BKG: P081882								
Dissolved Sulfide	59	72	42-131	7	16	660	650	2 (1)	5
Batch number: 13159008102A	Sample number(s): 7079558 UNSPK: P081114 BKG: P081114								
Total Alkalinity	94		10-159			91,500	93,200	2	5

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water

Batch number: F131571AA

Dibromofluoromethane

1,2-Dichloroethane-d4

Toluene-d8

4-Bromofluorobenzene

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 06/20/13 at 02:08 PM

Group Number: 1394312

Surrogate Quality Control

7079549	99	93	97	93
7079552	99	96	100	93
7079554	98	93	97	98
7079556	98	93	97	90
7079558	97	92	97	94
7079560	100	94	97	90
Blank	99	95	97	90
LCS	99	96	96	94
MS	100	97	98	94
MSD	100	96	98	93

Limits: 80-116 77-113 80-113 78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: F131631AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

7079550	96	91	97	101
Blank	102	95	96	90
LCS	99	95	97	92
MS	103	97	94	92
MSD	102	97	95	92

Limits: 80-116 77-113 80-113 78-113

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 13162B07A

Trifluorotoluene-F

7079549	109
7079550	107
7079552	95
7079554	150*
7079556	92
7079558	156*
7079560	93
Blank	91
LCS	102
LCSD	99

Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel

Batch number: 131570012A

Orthoterphenyl

7079550	98
7079552	101
7079554	96
7079556	90
7079558	88
Blank	97
LCS	112
LCSD	111

Limits: 46-131

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 06/20/13 at 02:08 PM

Group Number: 1394312

Surrogate Quality Control

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 131570014A
Orthoterphenyl

7079551	105
7079553	102
7079555	67
7079557	106
7079559	95
Blank	109
LCS	118
LCSD	134*

Limits: 46-131

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 131610030A
Propene

7079549	105
7079550	97
7079552	90
7079554	105
7079556	90
7079558	85
Blank	96
LCS	95
MS	93
MSD	96

Limits: 42-131

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



**Lancaster
Laboratories**

Acct. # 10904

For Eurofins Lancaster Laboratories use only
Group # 1394312 Sample # 7079549-60

Instructions on reverse side correspond with circled numbers.

1 Please forward the lab results to Client Information Consultant and cc: G-R. Facility # <u>SS#307233-OML G-R#385876 Global ID#T0600196622</u> WBS Site Address <u>2259 FIRST STREET, LIVERMORE, CA</u> Chevron PM <u>CM</u> CRASB Lead Consultant <u>Silva</u> Consultant/Office <u>Getter-Ryan, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Project Mgr. <u>Deanna L. Harding, (deanna@grinc.com), (925) 551-7444 x180</u> Consultant Phone # <u>(916) 889-8908 x</u> Sampler <u>JOE LEWIS</u>				4 Matrix Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/>			5 Analyses Requested Total Number of Containers BTEX + MTBE 8021 <input checked="" type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> Sulfate (3000) Total Alkalinity (as CaCO3) (SM20 2308) Total Lead Dissolved Methane Method (RSK-175) Dissolved Sulfide (SM20 1580 SZ) Calcium (6010) Ferrous Iron (SM20 3500 FCB) TPH-DRO w/SGC COLUMN TPH-DRO w/SGC (8015)										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits																																																																																																																																																																																					
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Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

AMENDED

Acct. # 10904

For Eurofins Lancaster Laboratories use only
Group # 1394312 Sample # 7079549-60
Instructions on reverse side correspond with circled numbers.

7079549-60

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks		
Facility # <u>307233-OML</u> G-R# <u>385876</u> Global ID# <u>T0600196622</u> Site Address <u>2259 FIRST STREET, LIVERMORE, CA</u> Chevron PM <u>CRASB</u> Lead Consultant <u>Sierra</u> Consultant/Offices <u>General-Ryan, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Project Mgr. <u>Deanna L. Harding, (deanna@grinc.com), (925) 551-7444 x180</u> Consultant Phone # <u>(916) 889-8908 x</u> Sampler <u>JOE LEWIS</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air				Total Number of Containers BTEX 8021 <input checked="" type="checkbox"/> 8260 TPH-GRO <input checked="" type="checkbox"/> 8260 TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> 8260 <u>Sulfate (3000)</u> 8260 <u>Total Alkalinity (ASCA03) (SM20 2320)</u> Method <u>Asphaltenes</u> Dissolved <u>Lead</u> Method <u>(RSA-175)</u> SM20 4500 SZD <u>calcium (6010)</u> SM20 4500 SZD <u>Ferrous Iron (SM20 3500 Fe B)</u> SM20 4500 SZD <u>TPH-DRO W/5% COLUMBY</u> SM20 4500 SZD <u>TPH-DRO W/5% COLUMBY</u>												SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits		
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Please report DRO w/sgc using 10 grams of silica and also report i gram snake results
 amended 6/5 PM removed MTBE

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
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 of gas 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.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC 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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