Carryl MacLeod
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
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Tel (925) 790-6506
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July 28, 2014

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

Re: Former Texaco Service Station 211253
930 Springtown Boulevard
Livermore, California
ACEHS Case No. RO0189

I accept the *Second Quarter 2014 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 Quarter 2014 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 2014 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 28, 2014 Reference No. 060058

Mr. Jerry Wickham
Alameda County Environmental Health Services (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: Second Quarter 2014
Groundwater Monitoring and Sampling Report
Former Texaco Station 211253
930 Springtown Boulevard
Livermore, California
ACEH Case RO0189

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Quarter 2014 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 Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and shown on Figures 2 and 3. Eurofins Lancaster Laboratories Environmental, LLC's *Analytical Results* report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF SECOND QUARTER 2014 EVENT

On May 28, 2014, G-R monitored and sampled wells per the established schedule. Monitoring wells are divided into three zones based on the screen intervals: shallow zone (wells MW-9, MW-11, MW-14, MW-18, MW-19, and MW-20), intermediate zone (wells MW-10, MW-12, MW-13, MW-16, and MW-17), and deep zone (well MW-15). Groundwater elevation and hydrocarbon concentration maps for the shallow and intermediate zones are illustrated on Figures 2 and 3.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction
  - Shallow (Figure 2) Northwest
  - Intermediate (Figure 3) Southeast
  - Deep Not Applicable (single well)

- Approximate Depth to Groundwater
  - Shallow Wells 10 to 14 feet below grade (fbg)
  - Intermediate Wells 11 to 15 fbg
  - Deep Well 11 fbg

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

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*
ESLs	***100***	***1***	***40***	***30***	***20***
Shallow Wells					
MW-9	**Sampled semi-annually**				
MW-11					
MW-14					
MW-18	**4,400**	**300**	**160**	**310**	**840**
MW-19	76	<0.5	<0.5	<0.5	<0.5
MW-20	**970**	<0.5	<0.5	0.8	<0.5
Intermediate Wells					
MW-10	**Sampled semi-annually**				
MW-12					
MW-13					
MW-16					
MW-17	<50	<0.5	<0.5	<0.5	<0.5
Deep Well					
MW-15	**Sampled semi-annually**				

µg/L Micrograms per liter
< Indicates constituent was not detected at or above stated laboratory reporting limit
Semi-annual wells are sampled during the first and third quarters

CONCLUSIONS AND RECOMMENDATIONS

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

- Based on groundwater elevation data in shallow, intermediate, and deep monitoring wells it appears groundwater at the three depth intervals is hydraulically connected.
- No LNAPL was detected in MW-14 during the second quarter 2014 event. CRA removed the sorbent sock from MW-14 in June 2013; no LNAPL has been observed in well MW-14 since August 2012.
- Dissolved hydrocarbon concentrations in site wells are generally stable to declining.

Wells MW-9 through MW-16 are sampled semi-annually during the first and third quarters. Given recently installed wells MW-17 through MW-20 have been sampled quarterly for nine quarters since initial sampling and installation, CRA recommends the monitoring and sampling frequency be reduced to semi-annual; semi-annual monitoring and sampling will be implemented starting with the third quarter 2014 unless otherwise notified by ACEH.

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.

Comparison of Site Conditions to Low-Threat Closure Policy Criteria
CRA will compare site conditions to the low-threat closure policy criteria and submit a Low-Threat Closure Request during the second half of 2014.

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/28
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map – Shallow Zone
Figure 3	Groundwater Elevation and Hydrocarbon Concentration Map – Intermediate Zone
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Ms. Carryl MacLeod, Chevron *(electronic copy)*
Mr. Keiran Buckley
Mr. Ken Hilliard
Mr. Kirk F. Sniff, Esq, Strasburger & Price, LLP
Mrs. Janet Brayer

FIGURES

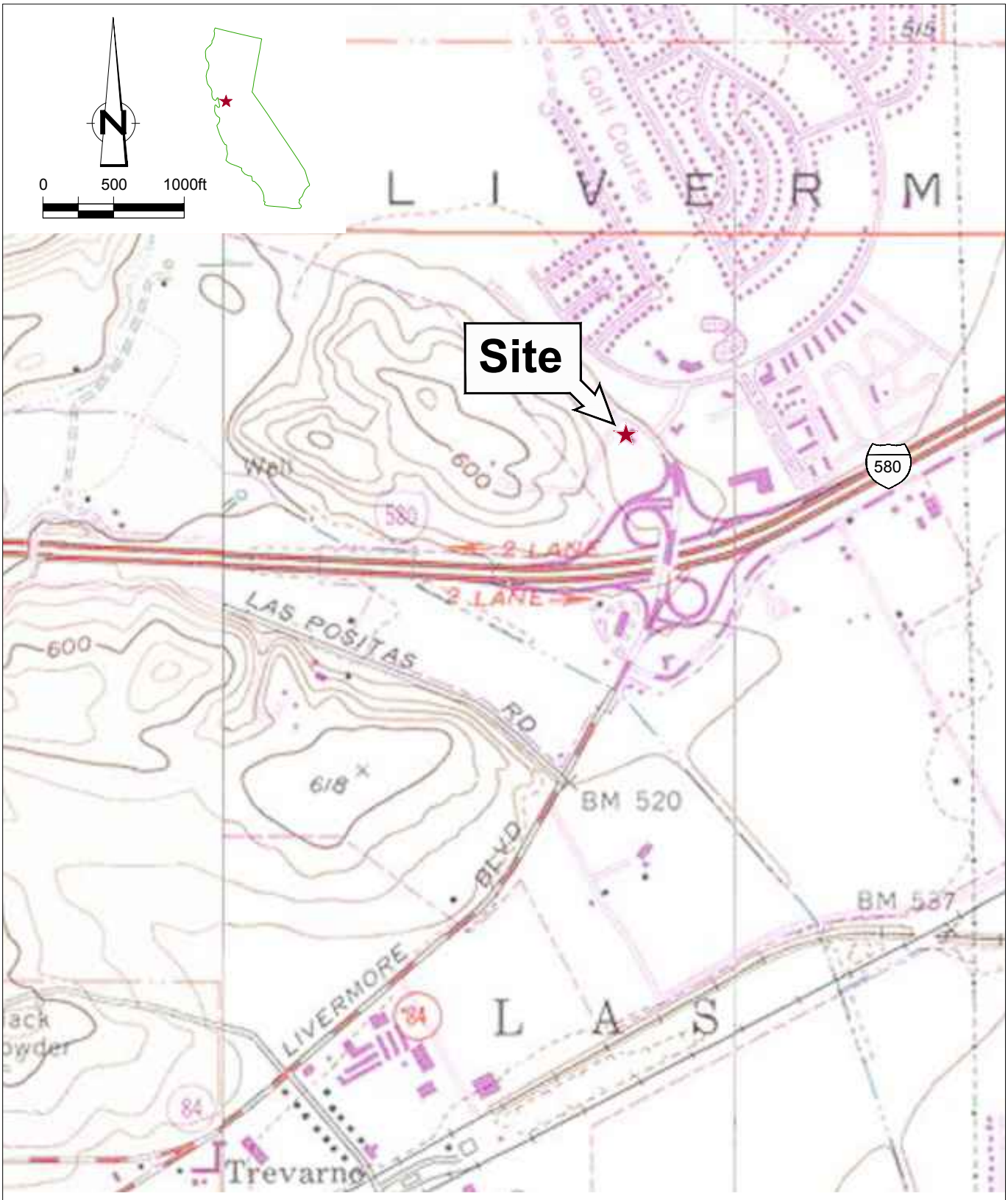
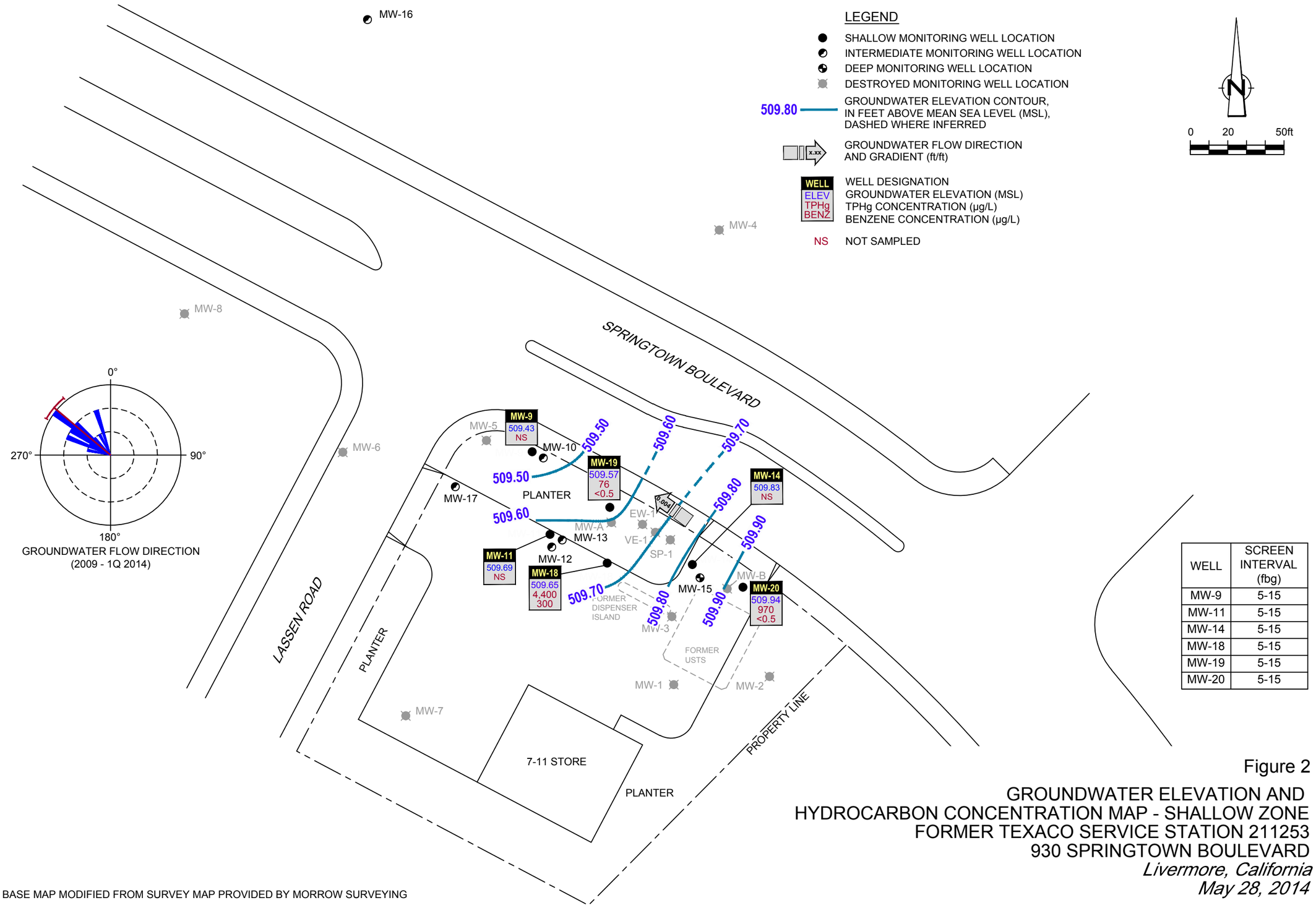


Figure 1

VICINITY MAP
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California

060058-95(028)GN-EM001 JUN 17/2014

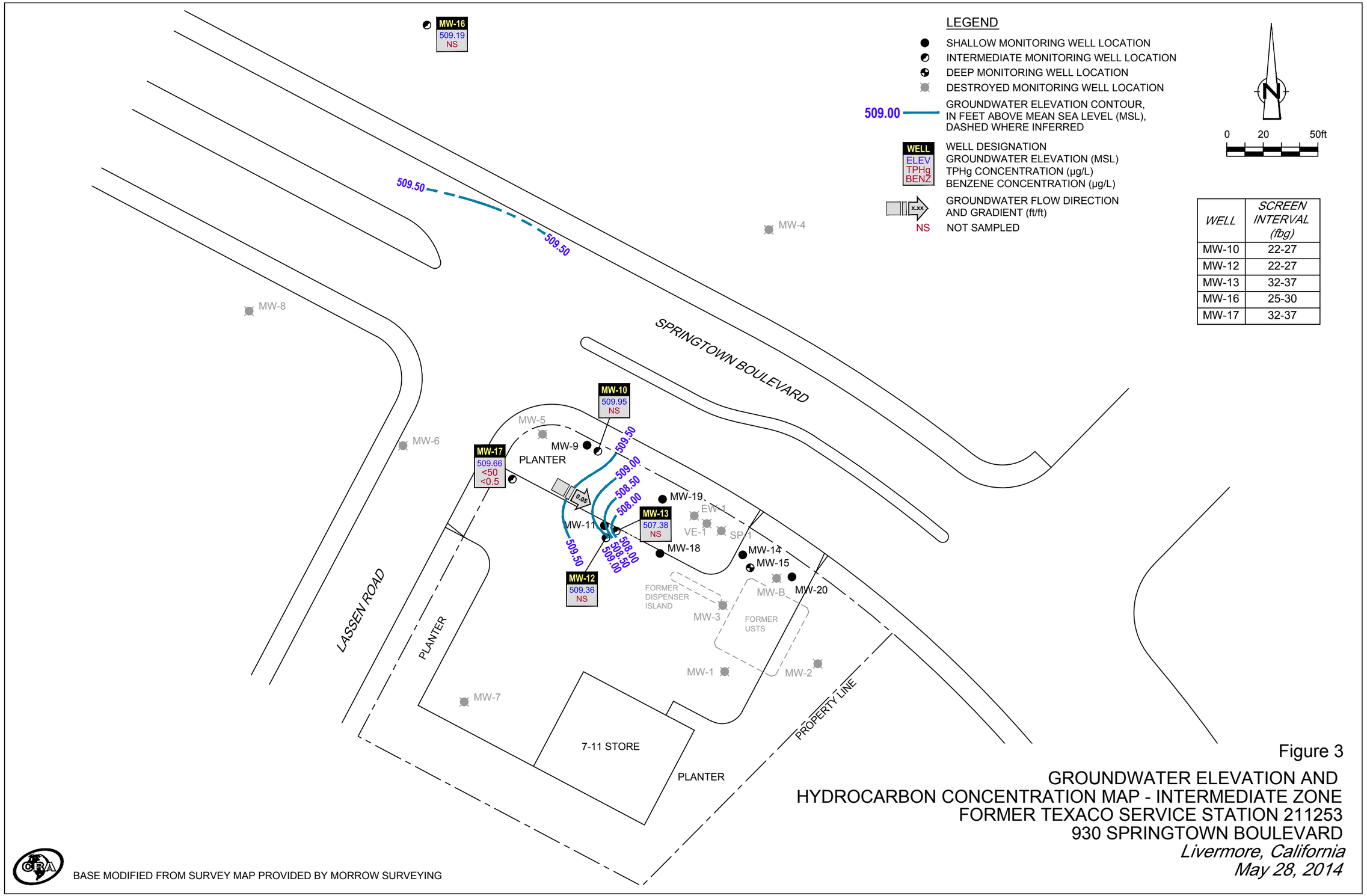


WELL	SCREEN INTERVAL (fbg)
MW-9	5-15
MW-11	5-15
MW-14	5-15
MW-18	5-15
MW-19	5-15
MW-20	5-15

Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP - SHALLOW ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
May 28, 2014

BASE MAP MODIFIED FROM SURVEY MAP PROVIDED BY MORROW SURVEYING



WELL	*SCREEN INTERVAL (fbg)*
MW-10	22-27
MW-12	22-27
MW-13	32-37
MW-16	25-30
MW-17	32-37

Figure 3

GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP - INTERMEDIATE ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
May 28, 2014

BASE MODIFIED FROM SURVEY MAP PROVIDED BY MORROW SURVEYING

060058-95(028)GN-EM003 JUL 23/2014

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9 [2]	08/24/2010	523.14	13.58	509.56	-	-	3,500	6	8	180	79	-	-	-	-
MW-9 [2]	01/31/2011	523.14	12.31	510.83	-	-	68	<0.5	<0.5	3	<0.5	-	-	-	-
MW-9 [2]	08/09/2011	523.14	12.01	511.13	-	-	54	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-9 [2]	02/09/2012	523.14	13.05	510.09	-	-	5,300	6	7	250	120	-	-	-	-
MW-9 [2, 5]	05/10/2012	523.14	12.52	510.62	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5]	08/22/2012	523.14	13.45	509.69	-	-	1,300	<5	<5	8	7	2,900	9,200	<250	24,000
MW-9 [2, 5]	11/29/2012	523.14	13.30	509.84	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5]	02/14/2013	523.14	12.70	510.44	-	-	5,200	<5	<5	37	60	-	-	-	-
MW-9 [2, 5]	05/20/2013	523.14	13.11	510.03	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5]	07/30/2013	523.14	13.55	509.59	-	-	5,600	6	4	31	77	-	-	-	-
MW-9 [2, 5]	11/06/2013	523.14	13.57	509.57	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5, 6]	01/30/2014	523.14	13.65	509.49	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5, 6]	**05/28/2014**	**523.14**	**13.71**	**509.43**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-10 [3]	08/24/2010	523.25	13.07	510.18	-	-	1,300	<0.5	<0.5	2	<0.5	-	-	-	-
MW-10 [3]	01/31/2011	523.25	11.92	511.33	-	-	250	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3]	08/09/2011	523.25	11.85	511.40	-	-	300	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3]	02/09/2012	523.25	12.62	510.63	-	-	140	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3, 5]	05/10/2012	523.25	12.26	510.99	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	08/22/2012	523.25	13.03	510.22	-	-	600	2	0.7	2	2	670	580	<250	24,400
MW-10 [3, 5]	11/29/2012	523.25	12.89	510.36	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	02/14/2013	523.25	12.31	510.94	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3, 5]	05/20/2013	523.25	12.70	510.55	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	07/30/2013	523.25	13.15	510.10	-	-	170	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3, 5]	11/06/2013	523.25	13.18	510.07	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	01/30/2014	523.25	13.34	509.91	-	-	57	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3, 5]	**05/28/2014**	**523.25**	**13.30**	**509.95**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-11 [2]	08/24/2010	523.42	13.80	509.62	-	-	2,000 J	6	2	9	5	-	-	-	-
MW-11 [2]	01/31/2011	523.42	12.35	511.07	-	-	790	1	<0.5	5	3	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-11 [2]	08/09/2011	523.42	12.06	511.36	-	-	130	<0.5	<0.5	0.9	<0.5	-	-	-	-
MW-11 [2]	02/09/2012	523.42	13.06	510.36	-	-	220	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-11 [2, 5]	05/10/2012	523.42	12.58	510.84	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5]	08/22/2012	523.42	13.50	509.92	-	-	510	<0.5	<0.5	<0.5	<0.5	760	1,400	<250	59,500
MW-11 [2, 5]	11/29/2012	523.42	13.32	510.10	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5]	02/14/2013	523.42	12.72	510.70	-	-	110	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-11 [2, 5]	05/20/2013	523.42	13.13	510.29	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5]	07/30/2013	523.42	13.60	509.82	-	-	320	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-11 [2, 5]	11/06/2013	523.42	13.64	509.78	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5, 6]	01/30/2014	523.42	13.69	509.73	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5, 6]	**05/28/2014**	**523.42**	**13.73**	**509.69**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-12 [3]	08/24/2010	523.12	12.84	510.28	-	-	18,000	210	650	330	1,900	-	-	-	-
MW-12 [3]	01/31/2011	523.12	12.47	510.65	-	-	9,600	64	180	180	400	-	-	-	-
MW-12 [3]	08/09/2011	523.12	12.19	510.93	-	-	9,000	71	140	170	580	-	-	-	-
MW-12 [3]	02/09/2012	523.12	13.11	510.01	-	-	8,700	85	130	170	590	-	-	-	-
MW-12 [3, 5]	05/10/2012	523.12	12.71	510.41	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	08/22/2012	523.12	13.44	509.68	-	-	8,500	<5	12	120	160	2,000	6,400	<250	3,200
MW-12 [3, 5]	11/29/2012	523.12	13.35	509.77	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	02/14/2013	523.12	12.82	510.30	-	-	7,700	20	83	160	500	-	-	-	-
MW-12 [3, 5]	05/20/2013	523.12	13.21	509.91	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	07/30/2013	523.12	13.62	509.50	-	-	9,000	52	190	160	610	-	-	-	-
MW-12 [3, 5]	11/06/2013	523.12	13.66	509.46	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	01/30/2014	523.12	13.66	509.46	-	-	7,800	11	31	120	240	-	-	-	-
MW-12 [3, 5]	**05/28/2014**	**523.12**	**13.76**	**509.36**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-13 [3]	08/24/2010	520.88	13.69	507.19	-	-	13,000	810	710	76	660	-	-	-	-
MW-13 [3]	01/31/2011	520.88	12.21	508.67	-	-	22,000	1,600	1,600	270	1,600	-	-	-	-
MW-13 [3]	08/09/2011	520.88	11.91	508.97	-	-	12,000	1,200	820	120	710	-	-	-	-
MW-13 [3]	02/09/2012	520.88	12.83	508.05	-	-	18,000	1,600	3,700	370	2,200	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-13 [3,5]	05/10/2012	520.88	12.44	508.44	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3,5]	08/22/2012	520.88	13.19	507.69	-	-	35,000	2,000	5,600	340	4,500	8,500	1,200	<250	2,600
MW-13 [3,5]	11/29/2012	520.88	13.06	507.82	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3,5]	02/14/2013	520.88	12.53	508.35	-	-	11,000	380	750	31	1,700	-	-	-	-
MW-13 [3,5]	05/20/2013	520.88	12.94	507.94	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3,5]	07/30/2013	520.88	13.35	507.53	-	-	2,800	94	19	22	57	-	-	-	-
MW-13 [3,5]	11/06/2013	520.88	13.38	507.50	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3,5]	01/30/2014	520.88	13.43	507.45	-	-	14,000	650	1,500	110	1,900	-	-	-	-
MW-13 [3,5]	**05/28/2014**	**520.88**	**13.50**	**507.38**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-14 [2]	08/24/2010 [1,**]	520.88	10.36	510.75	0.29	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	01/31/2011 [1,**]	520.88	9.96	511.12	0.25	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	08/09/2011 [1,**]	520.88	9.67	511.35	0.17	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	02/09/2012 [1,**]	520.88	10.69	510.46	0.34	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	05/10/2012 [1,**]	520.88	10.18	510.91	0.26	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	05/30/2012	520.88					Sorbent Sock Installed								
MW-14 [2,5]	06/14/2012**	520.88	10.36	510.65	0.16	1.25	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	06/25/2012**	520.88	10.44	510.47	0.04	0.98	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	07/11/2012**	520.88	10.52	510.41	0.06	1.34	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	07/24/2012**	520.88	10.70	510.20	0.02	0.45	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	08/08/2012**	520.88	13.74	507.16	0.03	0.46	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	08/22/2012	520.88	10.78	510.10	-	0.33	22,000	890	990	600	2,600	1,200	1,000	<250	145,000
MW-14 [2,5]	09/04/2012	520.88	10.82	510.06	-	0.16	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	09/21/2012	520.88	10.69	510.19	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	10/02/2012	520.88	10.65	510.23	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	10/17/2012	520.88	10.70	510.18	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	10/29/2012	520.88	10.62	510.26	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	11/29/2012	520.88	10.68	510.20	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	02/14/2013	520.88	10.22	510.66	-	-	4,200	170	120	61	410	-	-	-	-
MW-14 [2,5]	05/20/2013	520.88	10.51	510.37	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-14 [2,5]	07/30/2013	520.88	10.92	509.96	-	-	6,500	370	110	140	430	-	-	-	-
MW-14 [2,5]	11/06/2013	520.88	11.03	509.85	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	01/30/2014	520.88	11.03	509.85	-	-	4,300	230	64	80	220	-	-	-	-
MW-14 [2,5]	**05/28/2014**	**520.88**	**11.05**	**509.83**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-15 [4]	08/24/2010	520.87	10.81	510.06	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	01/31/2011	520.87	9.86	511.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	08/09/2011	520.87	9.56	511.31	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	02/09/2012	520.87	10.44	510.43	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4,5]	05/10/2012	520.87	10.05	510.82	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4,5]	08/22/2012	520.87	10.87	510.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<10	2,100	267,000
MW-15 [4,5]	11/29/2012	520.87	10.70	510.17	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4,5]	02/14/2013	520.87	10.16	510.71	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4,5]	05/20/2013	520.87	10.58	510.29	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4,5]	07/30/2013	520.87	11.00	509.87	-	-	<50	<0.5	<0.5	<0.5	0.6	-	-	-	-
MW-15 [4,5]	11/06/2013	520.87	11.07	509.80	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4,5]	01/30/2014	520.87	11.06	509.81	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4,5]	**05/28/2014**	**520.87**	**11.14**	**509.73**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-16 [3]	08/24/2010	520.50	11.07	509.43	-	-	68	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	01/31/2011	520.50	9.99	510.51	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	08/09/2011	520.50	9.59	510.91	-	-	66	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	02/09/2012	520.50	10.62	509.88	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3,5]	05/10/2012	520.50	10.18	510.32	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3,5]	08/22/2012	520.50	11.08	509.42	-	-	<50	<0.5	<0.5	<0.5	<0.5	1,000	16	590	49,400
MW-16 [3,5]	11/29/2012	520.50	10.86	509.64	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3,5]	02/14/2013	520.50	10.27	510.23	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3,5]	05/20/2013	520.50	10.70	509.80	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3,5]	07/30/2013	520.50	11.12	509.38	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3,5]	11/06/2013	520.50	11.16	509.34	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-16 [3,5]	01/30/2014	520.50	11.35	509.15	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3,5]	**05/28/2014**	**520.50**	**11.31**	**509.19**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-17 [3]	02/07/2012	524.81	14.50	510.31	-	-	-	-	-	-	-	-	-	-	-
MW-17 [3]	02/09/2012	524.81	14.58	510.23	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	05/10/2012	524.81	14.10	510.71	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	08/22/2012	524.81	14.54	510.27	-	-	<50	<0.5	<0.5	<0.5	<0.5	25	<10	3,700	77,400
MW-17 [3]	11/29/2012	524.81	14.75	510.06	-	-	<50	<0.5	<0.5	<0.5	<0.5	39	77	3,200	67,900
MW-17 [3]	02/14/2013	524.81	14.25	510.56	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	05/20/2013	524.81	14.65	510.16	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	07/30/2013	524.81	15.09	509.72	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	11/06/2013	524.81	14.93	509.88	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	01/30/2014	524.81	14.90	509.91	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	**05/28/2014**	**524.81**	**15.15**	**509.66**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-18 [2]	02/07/2012	522.40	12.01	510.39	-	-	-	-	-	-	-	-	-	-	-
MW-18 [2]	02/09/2012	522.40	12.06	510.34	-	-	12,000	200	1,300	68	2,200	-	-	-	-
MW-18 [2]	05/10/2012	522.40	11.60	510.80	-	-	6,700	220	390	380	720	-	-	-	-
MW-18 [2]	08/22/2012	522.40	12.50	509.90	-	-	3,600	80	310	170	550	240	2,500	580	143,000
MW-18 [2]	11/29/2012	522.40	12.36	510.04	-	-	2,000	44	25	96	190	320	2,400	<250	117,000
MW-18 [2]	02/14/2013	522.40	11.76	510.64	-	-	3,000	130	5	270	160	-	-	-	-
MW-18 [2]	05/20/2013	522.40	12.11	510.29	-	-	1,200	28	47	52	130	-	-	-	-
MW-18 [2]	07/30/2013	522.40	12.57	509.83	-	-	6,400	270	230	440	1,100	-	-	-	-
MW-18 [2]	11/06/2013	522.40	12.67	509.73	-	-	1,400	43	28	74	190	-	-	-	-
MW-18 [2]	01/30/2014	522.40	12.70	509.70	-	-	220	0.6	0.8	<0.5	<0.5	-	-	-	-
MW-18 [2]	**05/28/2014**	**522.40**	**12.75**	**509.65**	**-**	**-**	**4,400**	**300**	**160**	**310**	**840**	**-**	**-**	**-**	**-**
MW-19 [2]	02/07/2012	522.63	12.30	510.33	-	-	-	-	-	-	-	-	-	-	-
MW-19 [2]	02/09/2012	522.63	12.39	510.24	-	-	6,700	4	<3	18	35	-	-	-	-
MW-19 [2]	05/10/2012	522.63	11.92	510.71	-	-	1,500	<0.5	<0.5	0.7	0.9	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-19 [2]	08/22/2012	522.63	12.80	509.83	-	-	1,300	<0.5	<0.5	17	2	1,900	820	<250	32,900
MW-19 [2]	11/29/2012	522.63	12.64	509.99	-	-	58	<0.5	<0.5	<0.5	<0.5	15	1,800	<250	41,200
MW-19 [2]	02/14/2013	522.63	12.08	510.55	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 [2]	05/20/2013	522.63	12.44	510.19	-	-	4,700	6	2	43	7	-	-	-	-
MW-19 [2]	07/30/2013	522.63	12.93	509.70	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 [2]	11/06/2013	522.63	12.96	509.67	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 [2]	01/30/2014	522.63	13.05	509.58	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 [2]	**05/28/2014**	**522.63**	**13.06**	**509.57**	**-**	**-**	**76**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-20 [2]	02/07/2012	520.28	9.60	510.68	-	-	-	-	-	-	-	-	-	-	-
MW-20 [2]	02/09/2012	520.28	9.68	510.60	-	-	9,100	3	94	200	600	-	-	-	-
MW-20 [2]	05/10/2012	520.28	9.32	510.96	-	-	3,900	<5	28	42	230	-	-	-	-
MW-20 [2]	08/22/2012	520.28	10.12	510.16	-	-	4,800	<5	42	120	320	37	2,800	<250	234,000
MW-20 [2]	11/29/2012	520.28	9.99	510.29	-	-	4,200	<0.5	9	41	95	23	11,100	<250	131,000
MW-20 [2]	02/14/2013	520.28	9.43	510.85	-	-	2,000	<5	<5	<5	<5	-	-	-	-
MW-20 [2]	05/20/2013	520.28	9.78	510.50	-	-	3,000	<0.5	1	24	30	-	-	-	-
MW-20 [2]	07/30/2013	520.28	10.28	510.00	-	-	2,800	<0.5	3	23	17	-	-	-	-
MW-20 [2]	11/06/2013	520.28	10.27	510.01	-	-	1,900	<0.5	2	18	17	-	-	-	-
MW-20 [2]	01/30/2014	520.28	10.33	509.95	-	-	1,100	<0.5	<0.5	1	<0.5	-	-	-	-
MW-20 [2]	**05/28/2014**	**520.28**	**10.34**	**509.94**	**-**	**-**	**970**	**<0.5**	**<0.5**	**0.8**	**<0.5**	**-**	**-**	**-**	**-**
QA	08/24/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	01/31/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	08/09/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	02/09/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	05/10/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	08/22/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	11/29/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	02/14/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	05/20/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	07/30/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	11/06/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	01/30/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	**05/28/2014**	**-**	**-**	**-**	**-**	**-**	**<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

ft = Feet

µg/L = Micrograms per Liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated concentration

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE was corrected for the presence of LNAPL; correction factor: [(TOC - DTW) + (LNAPLT x 0.80)].

1 Not sampled due to the presence of LNAPL.

2 Shallow well

3 Intermediate well

4 Deep well

5 Sampled semi-annually during the first and third quarters

6 Insufficient water

ATTACHMENT A

MONITORING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

June 9, 2014
G-R #385867

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.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Texaco Service Station
930 Springtown Blvd.
Livermore, California
(Site #211253)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Second Quarter Event of May 28, 2014**

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/211253

WELL CONDITION STATUS SHEET

Client/Facility #: **Chevron #211253**
Site Address: **930 Springtown Blvd.**
City: **Livermore, CA**

Job #: **385867**
Event Date: 5-28-14
Sampler: AW

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-16	OK							N	N	Emco /12" /2	N
MW-20	OK										
MW-14	OK										
MW-15	OK										
MW-9	OK										
MW-10	OK										
MW-11	OK										
MW-12	OK										
MW-13	OK										
MW-17	OK										
MW-18	OK										
MW-19	OK										
MW-20	OK										

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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 #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 5-28-14 (inclusive)

City: **Livermore, CA** Sampler: AW

Well ID MW-9 Date Monitored: 5-28-14

Well Diameter 4 in.

Total Depth 14.09 ft.

Depth to Water 13.71 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.

0.38 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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): _____ Weather Conditions: _____

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 5-28-14 (inclusive)
City: Livermore, CA Sampler: AW

Well ID MW- 10 Date Monitored: 5-28-14
Well Diameter 4 in.
Total Depth 26.31 ft.
Depth to Water 13.30 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.

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

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 #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 5-28-14 (inclusive)

City: **Livermore, CA** Sampler: AW

Well ID **MW- 11** Date Monitored: 5-28-14

Well Diameter 4 in.

Total Depth 14.35 ft.

Depth to Water 13.73 ft.

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

☐ Check if water column is less then 0.50 ft.

0.62 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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): _____ Weather Conditions: _____

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

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 #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 5/28/14 (inclusive)

City: **Livermore, CA** Sampler: AW

Well ID **MW- 12** Date Monitored: 5-28-14

Well Diameter 4 in.

Total Depth 26.61 ft.

Depth to Water 13.76 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.

12.85 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____ Weather Conditions: _____

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: M/S

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 5-28-14 (inclusive)

City: **Livermore, CA** Sampler: AW

Well ID **MW-13** Date Monitored: 5-28-14

Well Diameter 4 in.

Total Depth 36.60 ft.

Depth to Water 13.50 ft.

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

☐ Check if water column is less then 0.50 ft.

23.10 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____ Weather Conditions: _____

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: M/D

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 5-28-14 (inclusive)

City: **Livermore, CA** Sampler: AW

Well ID MW-14 Date Monitored: 5-28-14

Well Diameter 4 in.

Total Depth 14.37 ft.

Depth to Water 11.05 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.

3.32 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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): _____ Weather Conditions: _____

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

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 #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 5-28-14 (inclusive)

City: **Livermore, CA** Sampler: AW

Well ID MW-15 Date Monitored: 5-28-14

Well Diameter 4 in.

Total Depth 45.79 ft.

Depth to Water 11.14 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.

34.65 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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): _____ Weather Conditions: _____

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

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 #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 5-28-14 (inclusive)

City: **Livermore, CA** Sampler: AW

Well ID **MW-16** Date Monitored: 5-28-14

Well Diameter 4 in.

Total Depth 29.17 ft.

Depth to Water 11.31 ft.

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

☐ Check if water column is less then 0.50 ft.

17.86 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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): _____ Weather Conditions: _____

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

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 #211253** Job Number: **385867**
Site Address: **930 Springtown Blvd.** Event Date: 5-28-14 (inclusive)
City: **Livermore, CA** Sampler: AW

Well ID MW-17 Date Monitored: 5-28-14
Well Diameter 4 in.
Total Depth 37.05 ft.
Depth to Water 15.15 ft. ☐ Check if water column is less then 0.50 ft.

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

21.90 xVF .66 = 14.45 x3 case volume = Estimated Purge Volume: 43.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.53

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): 0750 Weather Conditions: Sunny
Sample Time/Date: 0940 / 5-28-14 Water Color: Cloudy Odor: (Y) / N Slight
Approx. Flow Rate: 1.0 gpm. Sediment Description: Cloudy
Did well de-water? Y If yes, Time: 0816 Volume: ~20.0 gal. DTW @ Sampling: 19.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0805	14.5	7.62	1536	19.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-17	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x voa vial~~	~~YES~~	~~NP~~	CHEVRON RTC	CHEVRON STUDY SAMPLES

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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 5-28-14 (inclusive)
City: Livermore, CA Sampler: AW

Well ID MW-18 Date Monitored: 5-28-14
Well Diameter 4 in.
Total Depth 14.60 ft.
Depth to Water 12.75 ft.

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

☐ Check if water column is less then 0.50 ft.

1.85 xVF .66 = 1.22 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.12

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): 0830 Weather Conditions: Sunny
Sample Time/Date: 0915 / 5-28-14 Water Color: Clear Odor: Y / N / Strong
Approx. Flow Rate: — gpm. Sediment Description: Clear
Did well de-water? Y If yes, Time: 0838 Volume: ~1.5 gal. DTW @ Sampling: 13.12

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0838	1.5	6.92	2185	18.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-18	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS: Chevron study sample taken.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 5-28-14 (inclusive)
City: Livermore, CA Sampler: AW

Well ID MW-19 Date Monitored: 5-28-14
Well Diameter 4 in.
Total Depth 14.87 ft.
Depth to Water 13.06 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.

1.81 xVF .66 = 1.19 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.42

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): 0850 Weather Conditions: Sunny
Sample Time/Date: 0925 / 5-28-14 Water Color: Cloudy Odor: Y / N Slight
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? Y If yes, Time: 0900 Volume: ~1.5 gal. DTW @ Sampling: 13.41

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0900	1.5	7.14	1630	18.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-19	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	~~x voa vial~~	~~YES~~	~~NP~~	~~CHEVRON RTC~~	~~CHEVRON STUDY SAMPLES~~

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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 5-28-14 (inclusive)
City: Livermore, CA Sampler: AW

Well ID MW-20 Date Monitored: 5-28-14
Well Diameter 4 in.
Total Depth 14.62 ft.
Depth to Water 10.34 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.

4.28 xVF .66 = 2.82 x3 case volume = Estimated Purge Volume: 8.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.19

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): 0700 Weather Conditions: Sunny
Sample Time/Date: 0735 / 5-28-14 Water Color: Cloudy Odor: Y / N / Slight
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 11.06

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0708	3.0	7.35	1153	17.0		
0715	6.0	7.33	1120	17.3		
0722	8.5	7.30	1104	17.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-20	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY SAMPLES

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

052814-03

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

SCR #: _____

1 Client Information

Facility # SS#211253-OML G-R#385867 Global ID#T0600101353

Site Address 930 SPRINGTOWN BLVD., LIVERMORE, CA

Chevron EM CRASB 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 Alex Wang

2 Sample Identification

Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Oil	Total Number of Containers	5 Analyses Requested: BTEX 8260	TPH-GRO 8260	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA		5-28-14		X			X		2	X	X						
mw-17			0940						6								
mw-18			0915						6								
mw-19			0925						6								
mw-20		↓	0735	↓			↓		6	↓	↓						

4 Matrix

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

5 Analyses Requested

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

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

6 Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

7 Turnaround Time Requested (TAT) (please circle)

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

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)
Other: _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	5-28-14	1200	[signature]	28MAY14	1200
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

9

☐ Yes
☐ No

Chain-of-Custody-Record

CHEVRON RTC SAMPLES

Chevron Facility #: 211253 Global ID#: T0600101353
Facility Address: 930 Springtown Blvd., Livermore CA
Consultant Project #: 15-385867
Consultant Name: GETTLER-RYAN INC.
Address: 6805 SIERRA COURT, SUITE G, DUBLIN, CA 94568
Project Contact: (Name) DEANNA L. HARDING (deanna@grinc.com)
(Phone) 925-551-7555 (Fax) 925-551-7888

Chevron Contact: (Name) Rachel Molher
(Phone) 510-242-4939
Laboratory Name: Chevron RTC
Laboratory Service Order:
Laboratory Service Code:
Samples Collected by: (Name) Alex Wang
Signature:

State Method: ☑ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT ☐ ID

Sample Number	Number of Containers	Matrix S=Soil A=Air W=Water C=Charcoal	Sample Preservation	Date/Time	CHEVRON STUDY (NON-PRESERVED)																		Remarks / Lab Sample No.
MW-18	2	W	NP	5-28-14/0915	X																		

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)
	Gettler-Ryan	5-28-14			5/28	
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced (Y/N)

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
~~10 Days~~
As Contracted

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

eurofins | Lancaster Laboratories Environmental

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

June 10, 2014

Project: 211253

Submittal Date: 05/29/2014
Group Number: 1478045
PO Number: 0015141332
Release Number: CMACLEOD

State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-140528 NA Water	7481598
MW-17-W-140528 Grab Groundwater	7481599
MW-18-W-140528 Grab Groundwater	7481600
MW-19-W-140528 Grab Groundwater	7481601
MW-20-W-140528 Grab Groundwater	7481602

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

ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan
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,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-140528 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7481598
LL Group # 1478045
Account # 10904

Project Name: 211253

Collected: 05/28/2014

Submitted: 05/29/2014 21:40
Reported: 06/10/2014 18:44

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBLQA

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

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	F141512AA	05/31/2014 07:11	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F141512AA	05/31/2014 07:11	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14154B20A	06/05/2014 17:06	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14154B20A	06/05/2014 17:06	Miranda P Tillinghast	1

Sample Description: MW-17-W-140528 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7481599
LL Group # 1478045
Account # 10904

Project Name: 211253

Collected: 05/28/2014 09:40 by AW

Submitted: 05/29/2014 21:40
Reported: 06/10/2014 18:44

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL17

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

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	F141554AA	06/04/2014 18:18	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F141554AA	06/04/2014 18:18	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14154B20A	06/05/2014 19:18	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14154B20A	06/05/2014 19:18	Miranda P Tillinghast	1

Sample Description: MW-18-W-140528 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7481600
LL Group # 1478045
Account # 10904

Project Name: 211253

Collected: 05/28/2014 09:15 by AW

Submitted: 05/29/2014 21:40
Reported: 06/10/2014 18:44

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL18

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	300	1	2
10943	Ethylbenzene	100-41-4	310	1	2
10943	Toluene	108-88-3	160	1	2
10943	Xylene (Total)	1330-20-7	840	1	2
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,400	250	5

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	F141542AA	06/03/2014 09:17	Anita M Dale	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F141542AA	06/03/2014 09:17	Anita M Dale	2
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14154B20A	06/05/2014 23:03	Miranda P Tillinghast	5
01146	GC VOA Water Prep	SW-846 5030B	1	14154B20A	06/05/2014 23:03	Miranda P Tillinghast	5

Sample Description: MW-19-W-140528 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7481601
LL Group # 1478045
Account # 10904

Project Name: 211253

Collected: 05/28/2014 09:25 by AW

Submitted: 05/29/2014 21:40
Reported: 06/10/2014 18:44

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL19

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.	76	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	F141554AA	06/04/2014 19:45	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F141554AA	06/04/2014 19:45	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14154B20A	06/05/2014 19:40	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14154B20A	06/05/2014 19:40	Miranda P Tillinghast	1

Sample Description: MW-20-W-140528 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7481602
LL Group # 1478045
Account # 10904

Project Name: 211253

Collected: 05/28/2014 07:35 by AW

Submitted: 05/29/2014 21:40
Reported: 06/10/2014 18:44

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL20

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	0.8	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.	970	50	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

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	F141542AA	06/03/2014 10:00	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F141542AA	06/03/2014 10:00	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14155A20A	06/04/2014 17:05	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14155A20A	06/04/2014 17:05	Marie D Beamenderfer	1

Quality Control Summary

Client Name: Chevron Group Number: 1478045
Reported: 06/10/14 at 06:44 PM

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

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F141512AA	Sample number(s): 7481598							
Benzene	N.D.	0.5	ug/l	96		78-120		
Ethylbenzene	N.D.	0.5	ug/l	94		79-120		
Toluene	N.D.	0.5	ug/l	100		80-120		
Xylene (Total)	N.D.	0.5	ug/l	97		80-120		
Batch number: F141542AA	Sample number(s): 7481600,7481602							
Benzene	N.D.	0.5	ug/l	96		78-120		
Ethylbenzene	N.D.	0.5	ug/l	92		79-120		
Toluene	N.D.	0.5	ug/l	96		80-120		
Xylene (Total)	N.D.	0.5	ug/l	94		80-120		
Batch number: F141554AA	Sample number(s): 7481599,7481601							
Benzene	N.D.	0.5	ug/l	98		78-120		
Ethylbenzene	N.D.	0.5	ug/l	95		79-120		
Toluene	N.D.	0.5	ug/l	98		80-120		
Xylene (Total)	N.D.	0.5	ug/l	96		80-120		
Batch number: 14154B20A	Sample number(s): 7481598-7481601							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	112	112	80-139	0	30
Batch number: 14155A20A	Sample number(s): 7481602							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	114	116	80-139	2	30

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F141512AA	Sample number(s): 7481598 UNSPK: P481597								
Benzene	102	102	72-134	0	30				
Ethylbenzene	100	101	71-134	1	30				
Toluene	104	104	80-125	0	30				
Xylene (Total)	103	102	79-125	2	30				
Batch number: F141542AA	Sample number(s): 7481600,7481602 UNSPK: P481596								
Benzene	110	108	72-134	2	30				
Ethylbenzene	104	106	71-134	2	30				
Toluene	108	111	80-125	2	30				

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

Quality Control Summary

Client Name: Chevron Group Number: 1478045
Reported: 06/10/14 at 06:44 PM

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Xylene (Total)	105	106	79-125	1	30				
Batch number: F141554AA	Sample number(s): 7481599,7481601 UNSPK: 7481599								
Benzene	103	104	72-134	1	30				
Ethylbenzene	101	102	71-134	1	30				
Toluene	104	106	80-125	2	30				
Xylene (Total)	102	105	79-125	3	30				

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: F141512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7481598	94	97	103	99
Blank	94	96	103	100
LCS	96	101	102	99
MS	95	103	103	101
MSD	96	101	102	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F141542AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7481600	94	97	101	99
7481602	94	99	101	99
Blank	96	102	101	99
LCS	96	99	102	98
MS	95	103	99	99
MSD	97	102	102	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F141554AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7481599	97	97	101	98
7481601	96	100	102	98
Blank	99	101	101	97
LCS	95	100	102	98
MS	96	102	101	98
MSD	95	103	102	99

*- 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.

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Quality Control Summary

Client Name: Chevron Group Number: 1478045
Reported: 06/10/14 at 06:44 PM

Surrogate Quality Control

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

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14154B20A

	Trifluorotoluene-F
7481598	84
7481599	79
7481600	75
7481601	76
Blank	87
LCS	82
LCSD	83
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14155A20A

	Trifluorotoluene-F
7481602	93
Blank	80
LCS	88
LCSD	82
Limits:	63-135

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

052814-03

Acct. # 10904

For Eurofins Lancaster Laboratories use only
Group # 1478045 Sample # 748598-602
Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

Facility # SS#211253-OML G-R#385867 Global ID#T0600101353 WBS

Site Address 930 SPRINGTOWN BLVD., LIVERMORE, CA

Chevron PM CM CRASB 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 Alex Wang

4 Matrix

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

5 Analyses Requested

2 Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX 8260 ☒	BTEX 8021 ☐	TPH-GRO 8260 ☐	TPH-GRO 8015 ☒	TPH-DRO 8015 without Silica Gel Cleanup ☐	TPH-DRO 8015 with Silica Gel Cleanup ☐	8260 Full Scan	Oxygenates ____	Total Lead Method ____	Dissolved Lead Method ____
QA		5-28-14	—	X			X		2	X		X							
MW-17		↓	0940	↓			↓		6	↓		↓							
MW-18			0915						6										
MW-19			0925						6										
MW-20		↓	0735	↓			↓		6	↓		↓							

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

6 Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

7 Turnaround Time Requested (TAT) (please circle)

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

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

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

Relinquished by	Date	Time	Received by	Date	Time
[signature]	5-28-14	1200	[signature]	28MAY14	1200
[signature]	5/28/14	1600	SWA		
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			[signature]	5/29/14	2140

Temperature Upon Receipt 5.0 °C

Custody Seals Intact? (Yes) No

eurofins | Lancaster Laboratories Environmental

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-9										
07/23/09[1]	523.14	13.00	510.14	0.00	0.00	5,200	4	5	310	100
11/09/09	523.14	12.70	510.44	0.00	0.00	240	4	4	2	5
02/22/10	523.14	11.93	511.21	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**523.14**	**12.22**	**510.92**	**0.00**	**0.00**	**6,200**	**9**	**5**	**470**	**110**
MW-10										
07/23/09[1]	522.76	12.59	510.17	0.00	0.00	16,000	220	440	440	660
11/09/09	522.76	12.30	510.46	0.00	0.00	2,800	1	2[3]	30	30
02/22/10	522.76	11.52	511.24	0.00	0.00	3,600	9	2	61	10
05/24/10	**522.76**	**11.82**	**510.94**	**0.00**	**0.00**	**3,000**	**12**	**3**	**110**	**22**
MW-11										
07/23/09[1]	523.25	13.05	510.20	0.00	0.00	5,400	25	28	62	66
11/09/09	523.25	12.73	510.52	0.00	0.00	1,100	3	0.6[3]	2	2
02/22/10	523.25	11.96	511.29	0.00	0.00	1,400	2	<0.5	5	0.9
05/24/10	**523.25**	**12.27**	**510.98**	**0.00**	**0.00**	**1,700**	**1**	**<0.5**	**10**	**0.6**
MW-12										
07/23/09[1]	523.42	13.03	510.41**	0.02	5.01[2]	48,000	340	3,100	1,300	7,600
11/09/09	523.42	12.78	510.64	0.00	0.00	18,000	290	560	22	3,100
02/22/10	523.42	12.13	511.29	0.00	0.00	14,000	190	590	310	1,400
05/24/10	**523.42**	**12.38**	**511.04**	**0.00**	**0.00**	**17,000**	**150**	**530**	**320**	**1,400**
MW-13										
07/23/09[1]	523.12	12.75	510.37	0.00	0.00	52,000	760	6,200	980	13,000
11/09/09	523.12	12.51	510.61	0.00	0.00	12,000	340	1,300	16	1,700
02/22/10	523.12	11.87	511.25	0.00	0.00	13,000	630	600	22	960
05/24/10	**523.12**	**12.10**	**511.02**	**0.00**	**0.00**	**15,000**	**950**	**670**	**130**	**790**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-14										
07/23/09[1]	520.88	10.40	510.48	0.00	0.00	8,400	230	460	180	670
11/09/09	520.88	10.11	510.77	0.00	0.00	23,000	1,800	1,900	750	2,600
02/22/10	520.88	9.37	511.51	0.00	0.00	48,000	3,600	7,900	2,100	9,400
05/24/10	**520.88**	**9.88**	**511.25****	**0.31**	**0.00**	**NOT SAMPLED DUE TO THE PRESENCE OF SPH**				**--**
MW-15										
07/23/09[1]	520.87	10.33	510.54	0.00	0.00	2,500	6	17	16	320
11/09/09	520.87	10.18	510.69	0.00	0.00	20,000	110	590	370	4,900
02/22/10	520.87	9.48	511.39	0.00	0.00	66	<0.5	3	1	6
05/24/10	**520.87**	**9.83**	**511.04**	**0.00**	**0.00**	**70**	**1**	**8**	**1**	**8**
MW-16										
07/23/09[1]	520.50	10.63	509.87	0.00	0.00	430	0.6	<0.5	<0.5	<0.5
11/09/09	520.50	10.31	510.19	0.00	0.00	180	<0.5	<0.5	<0.5	<0.5
02/22/10	520.50	9.63	510.87	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**520.50**	**9.88**	**510.62**	**0.00**	**0.00**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
QA										
07/23/09	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
11/09/09	--	--	--	--	--	<50	<0.5	1[4]	<0.5	<0.5
02/22/10	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253
930 Springtown Boulevard
Livermore, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
SPHT = Separate Phase Hydrocarbon Thickness
(msl) = Mean Sea Level
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
(µg/L) = Micrograms per liter

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE has been corrected due to the presence of SPH; correction factor: [(TOC - DTW) + (SPHT x 0.80)].

ANALYTICAL METHODS:

TPH-GRO analyzed by EPA Method 8015
BTEX analyzed by EPA Method 8260

[1] Well development preformed.

[2] Product + water removed.

[3] The Laboratory report indicates the result reported for toluene in this sample may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. The trip blank associated with this sample had a trace toluene detection of 1 ug/l. Please refer to the letter accompanying the lab report for further explanation.

[4] The Laboratory report indicates the result reported for toluene in this trip blank may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. Please refer to the letter accompanying the lab report for further explanation.