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By Alameda County Environmental Health at 3:51 pm, Jan 22, 2014



Carryl MacLeod
Project Manager
Marketing Business Unit

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

January 17, 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 Fourth 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 Third 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,

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

Carryl MacLeod
Project Manager

Attachment: Fourth 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>

January 17, 2014

Reference No. 060058

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

Re: Fourth Quarter 2013
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 *Fourth 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 Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and shown on Figures 2, 3, and 4. 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 FOURTH QUARTER 2013 EVENT

On November 6, 2013, 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.

Equal
Employment Opportunity
Employer



January 17, 2014

Reference No. 060058

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Results of the current monitoring event indicate the following:

- Groundwater Flow Direction
 - Shallow (Figure 2) Northwest
 - Intermediate (Figure 3) Variable
 - Deep Not Applicable (only 1 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					
<i>Well ID</i>	<i>TPHg (µg/L)</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethylbenzene (µg/L)</i>	<i>Total Xylenes (µg/L)</i>
<i>ESLs</i>	100	1	40	30	20
<i>Shallow Wells</i>					
MW-9	Sampled Semi-Annually				
MW-11					
MW-14					
MW-18	1,400	43	28	74	190
MW-19	<50	<0.5	<0.5	<0.5	<0.5
MW-20	1,900	<0.5	2	18	17
<i>Intermediate Wells</i>					
MW-10	Sampled Semi-Annually				
MW-12					
MW-13					
MW-16					
MW-17	<50	<0.5	<0.5	<0.5	<0.5
<i>Deep Well</i>					
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					



January 17, 2014

Reference No. 060058

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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 monitored at the three depth intervals is hydraulically connected.
- No LNAPL was detected in MW-14 during the fourth quarter 2013 event.
- Dissolved hydrocarbon concentrations in site wells are generally stable to declining.

On June 15, 2013, CRA removed the sorbent sock from MW-14 as no LNAPL has been observed in well MW-14 since August 2012.

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 six quarters since installation, CRA recommends that these wells also be sampled semi-annually.

Given that no LNAPL has been present since August 2012, CRA will compare site conditions to the low-threat closure policy criteria and if appropriate, prepare and submit a Low-Threat Closure Request.

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.



**CONESTOGA-ROVERS
& ASSOCIATES**

January 17, 2014

Reference No. 060058

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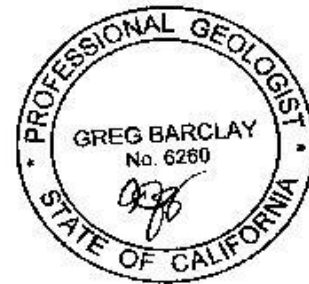
Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260

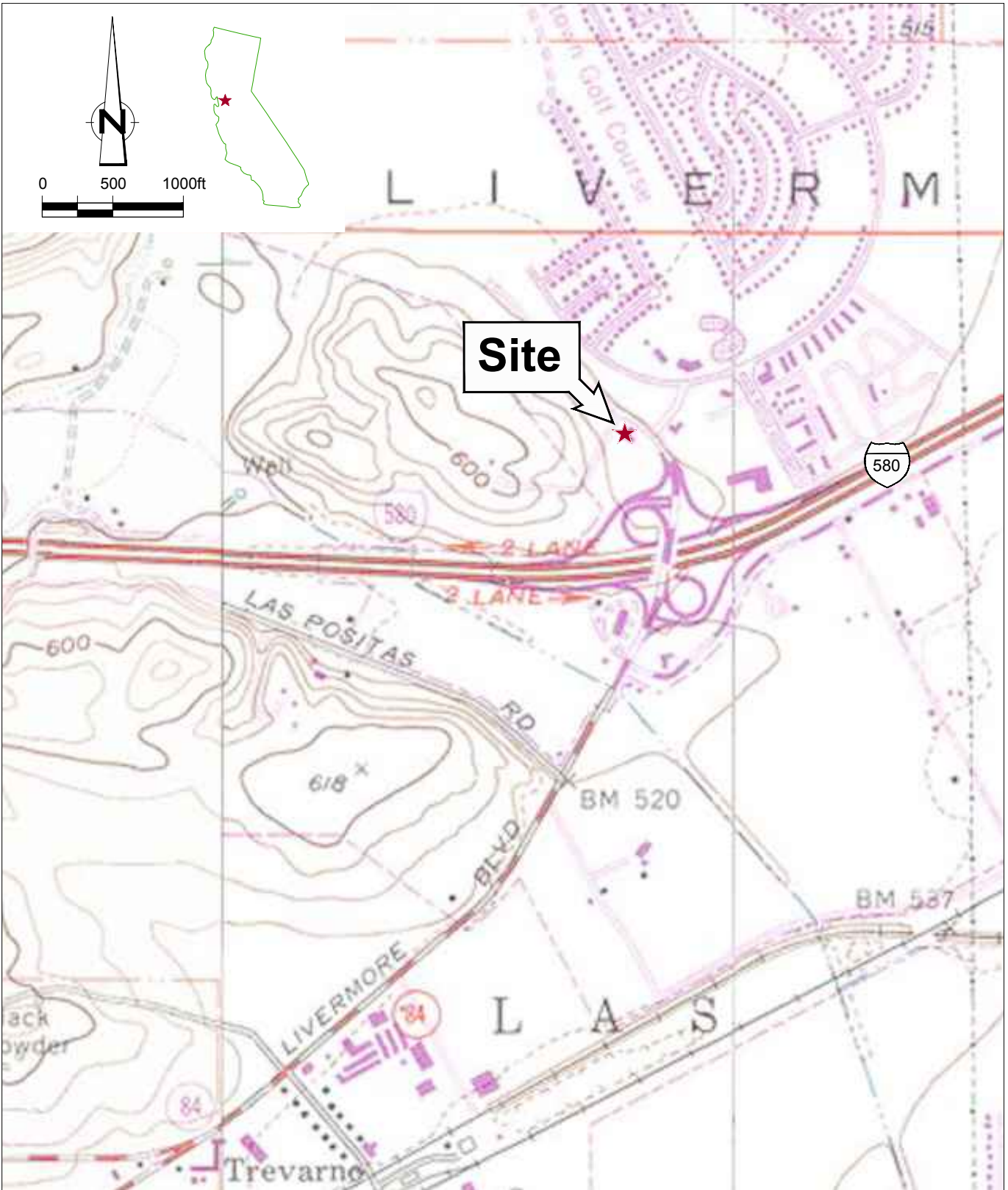


BJS/cw/25
Encl.

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

FIGURES



Site

580

600
580
2 LANE
2 LANE
LAS POSITAS RD

618 x
LIVERMORE BLVD

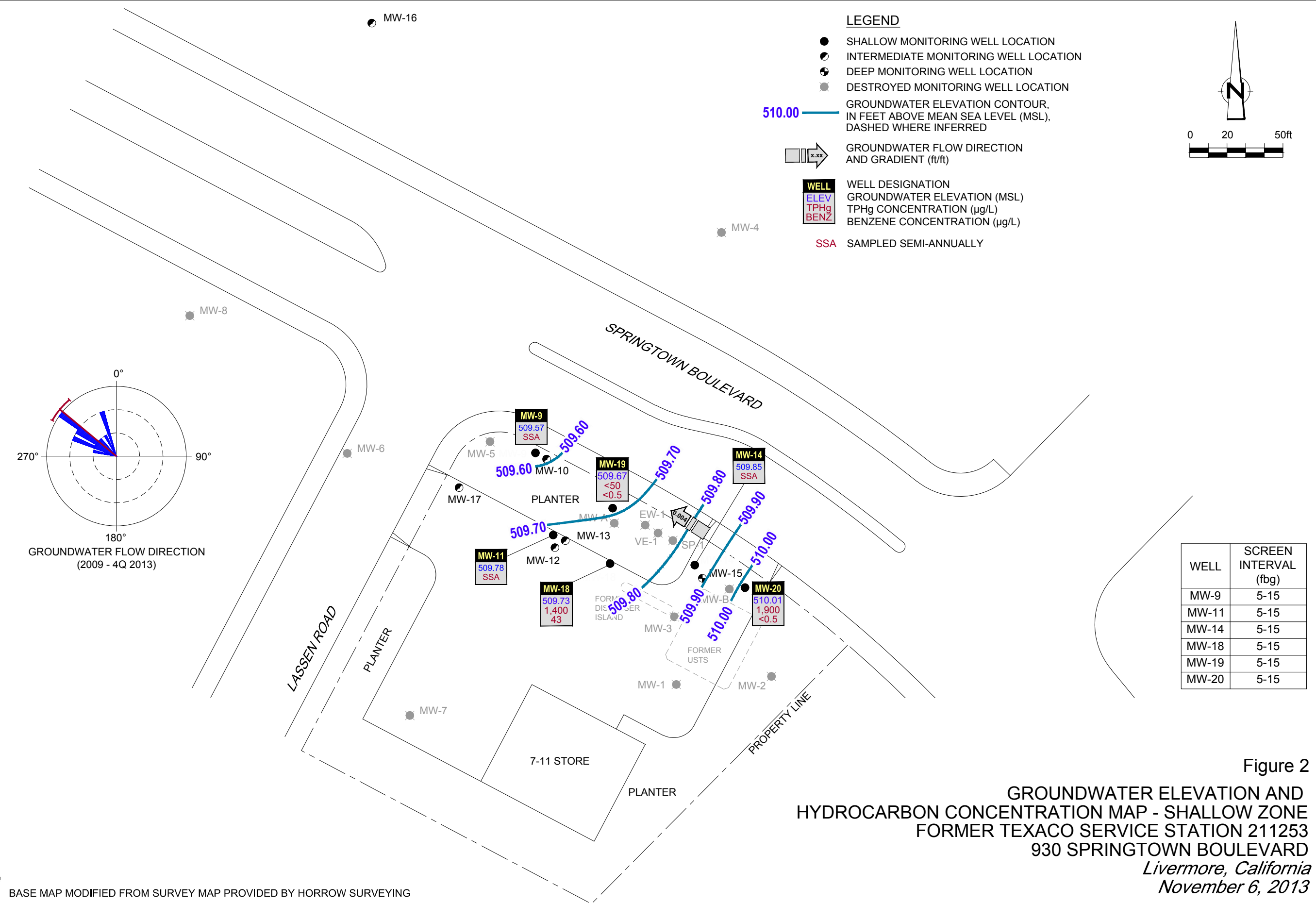
BM 520
BM 587
LAS

Trevarno

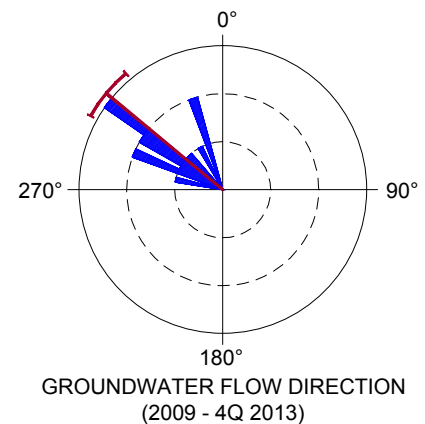
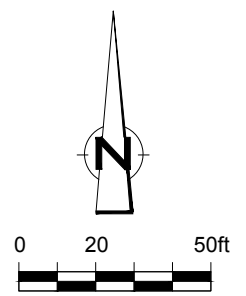
Figure 1

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



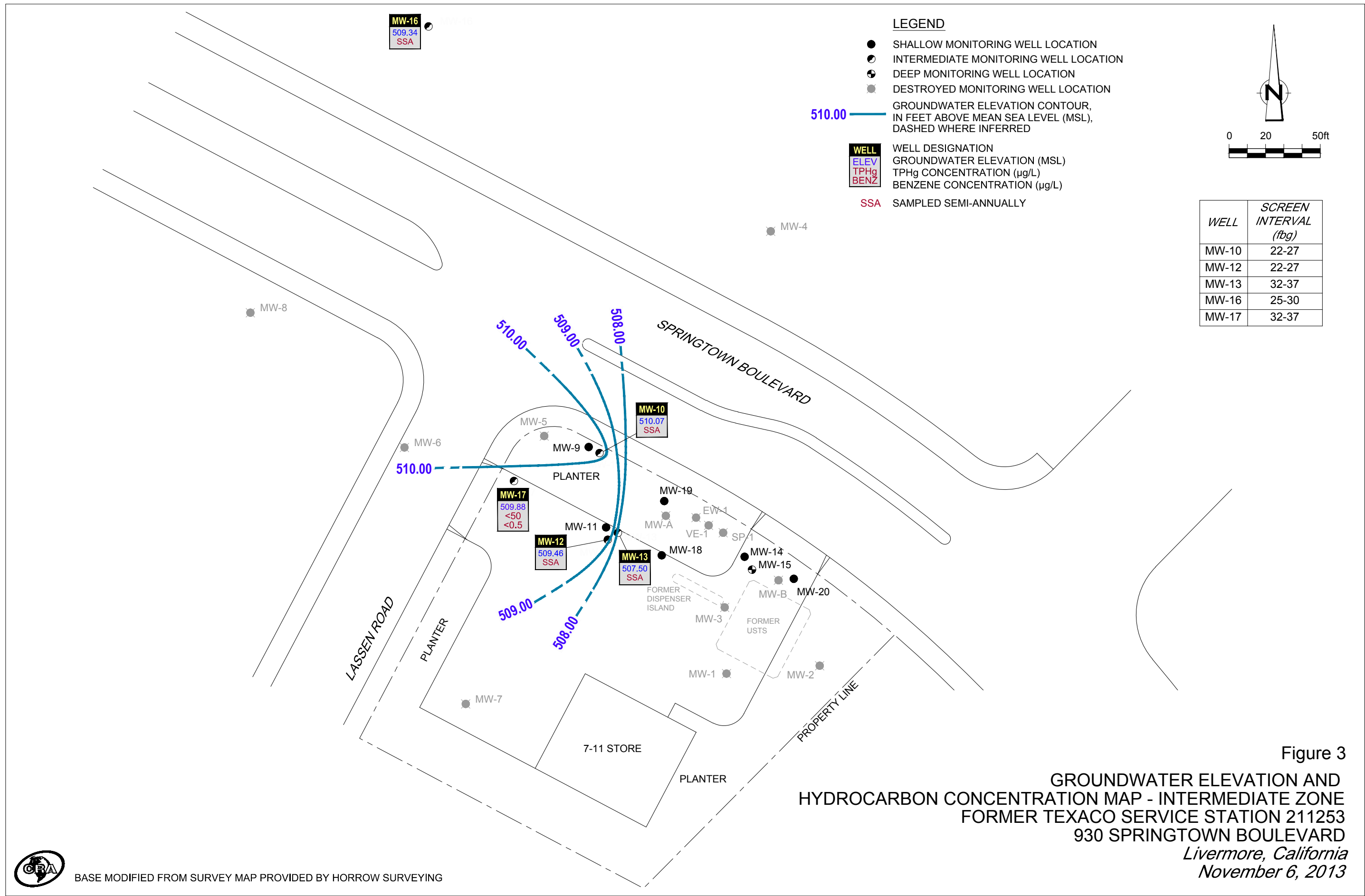


- LEGEND**
- SHALLOW MONITORING WELL LOCATION
 - INTERMEDIATE MONITORING WELL LOCATION
 - ⊕ DEEP MONITORING WELL LOCATION
 - ⦿ DESTROYED MONITORING WELL LOCATION
 - 510.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
 - GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
 - WELL
ELEV
TPHg
BENZ
SSA WELL DESIGNATION
GROUNDWATER ELEVATION (MSL)
TPHg CONCENTRATION (µg/L)
BENZENE CONCENTRATION (µg/L)
SAMPLED SEMI-ANNUALLY



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

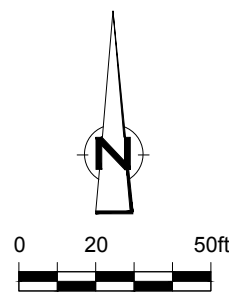
Figure 2
 GROUNDWATER ELEVATION AND
 HYDROCARBON CONCENTRATION MAP - SHALLOW ZONE
 FORMER TEXACO SERVICE STATION 211253
 930 SPRINGTOWN BOULEVARD
 Livermore, California
 November 6, 2013



LEGEND

- SHALLOW MONITORING WELL LOCATION
- ◐ INTERMEDIATE MONITORING WELL LOCATION
- ◑ DEEP MONITORING WELL LOCATION
- ⦿ DESTROYED MONITORING WELL LOCATION
- 510.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- | |
|------|
| WELL |
| ELEV |
| TPHg |
| BENZ |

 WELL DESIGNATION
 GROUNDWATER ELEVATION (MSL)
 TPHg CONCENTRATION (µg/L)
 BENZENE CONCENTRATION (µg/L)
- SSA SAMPLED SEMI-ANNUALLY



WELL	SCREEN INTERVAL (ftg)
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
 November 6, 2013



BASE MODIFIED FROM SURVEY MAP PROVIDED BY HORROW SURVEYING

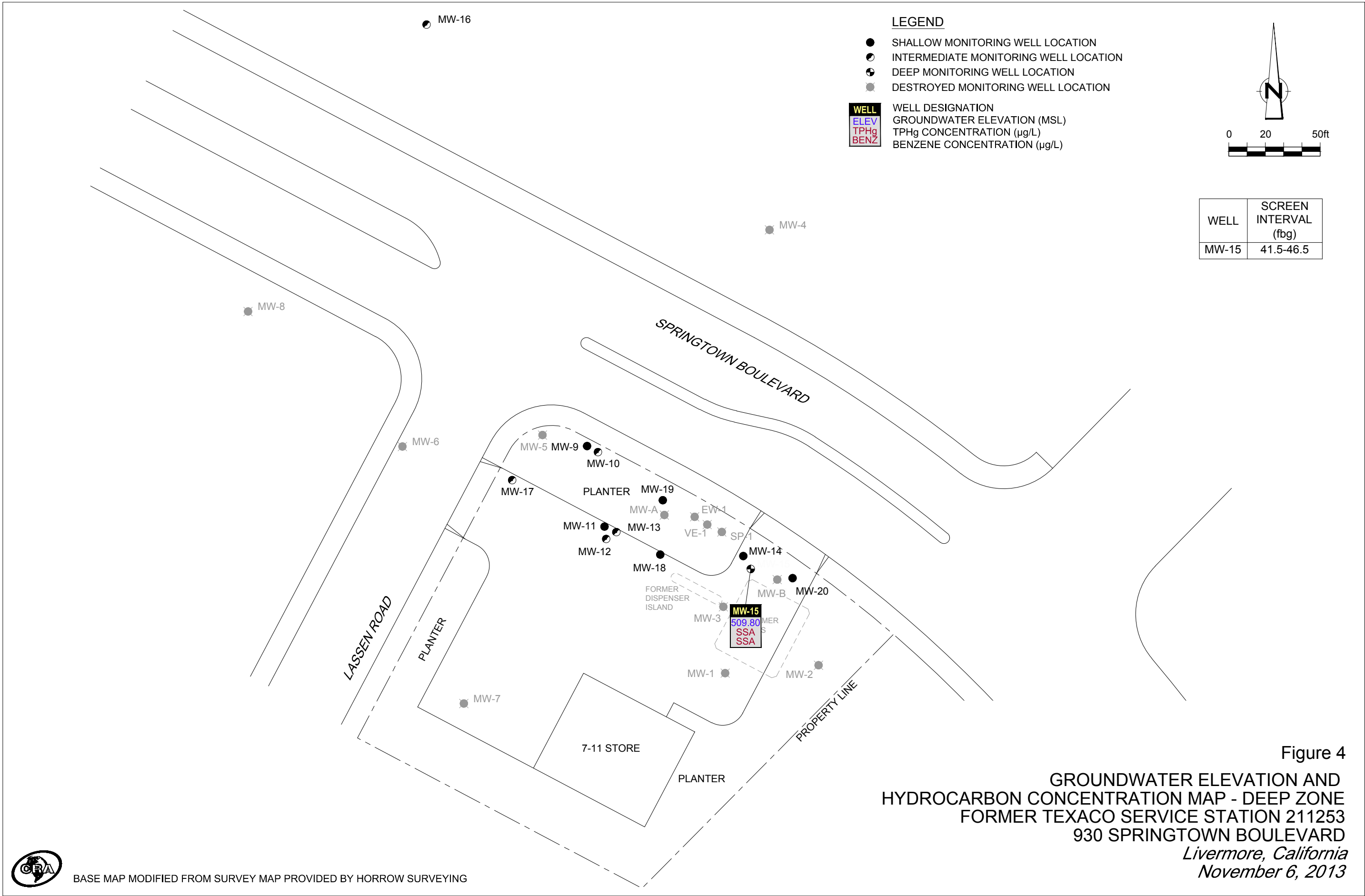


Figure 4
 GROUNDWATER ELEVATION AND
 HYDROCARBON CONCENTRATION MAP - DEEP ZONE
 FORMER TEXACO SERVICE STATION 211253
 930 SPRINGTOWN BOULEVARD
 Livermore, California
 November 6, 2013



BASE MAP MODIFIED FROM SURVEY MAP PROVIDED BY HORROW SURVEYING

TABLE

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-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-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	-	-	-	-
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

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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 ^{2,5}	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-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-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	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

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

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

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-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-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	-	-	-	-	-	-	-	-	-	-	-
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-17³	11/06/2013	524.81	14.93	509.88	-	-	<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	-	-	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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-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-18²	11/06/2013	522.40	12.67	509.73	-	-	1,400	43	28	74	190	-	-	-	-
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	-	-	-	-
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-19²	11/06/2013	522.63	12.96	509.67	-	-	<50	<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-20²	11/06/2013	520.28	10.27	510.01	-	-	1,900	<0.5	2	18	17	-	-	-	-
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	-	-	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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	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	-	-	-	-
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	-	-	-	-

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) + (LNAPL × 0.80)].

1 Not sampled due to the presence of LNAPL.

TABLE 1

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

Location	Date	TOC	DTW	GWE	LNAPL	LNAPL REMOVED	HYDROCARBONS	PRIMARY VOCS				GENERAL CHEMISTRY			
							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

- 2 Shallow well
- 3 Intermediate well
- 4 Deep well
- 5 Sampled semi-annually during the first and third quarters

ATTACHMENT A

MONITORING DATA PACKAGE



TRANSMITTAL

November 15, 2013
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 Fourth Quarter Event of November 6, 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/211253

WELL CONDITION STATUS SHEET

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

Job #: **385867**
 Event Date: **11/6/13**
 Sampler: **GT. MEDINA**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	BOLTS (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=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	EMCO / 12 / 2	N
MW-10	OK						↘				
MW-11	OK						↘				
MW-12	OK						↘				
MW-13	OK	R	OK				↘				
MW-14	OK						↘				
MW-15	OK	R	OK				↘				
MW-16	OK						↘				
MW-17	OK	R	OK				↘				
MW-18	OK	R	OK				↘				
MW-19	OK	R	OK				↘				
MW-20	OK	R	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
 Site Address: 930 Springtown Blvd.
 City: Livermore, CA

Job Number: 385867
 Event Date: 11/6/13 (inclusive)
 Sampler: GM

Well ID: MW-9
 Well Diameter: 4
 Total Depth: 14.47 ft.
 Depth to Water: 13.57 ft.
0.90 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

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

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): _____ 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 (µmhos/cm - µS)	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)

COMMENTS: M/O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385867
 Event Date: 11/6/13 (inclusive)
 Sampler: GIM

Well ID: MW-10
 Well Diameter: 4
 Total Depth: 26.42 ft.
 Depth to Water: 13.18 ft.
13.24 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

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

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

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	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)

COMMENTS: N/O

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
 Site Address: 930 Springtown Blvd. Event Date: 11/6/13 (inclusive)
 City: Livermore, CA Sampler: GM

Well ID MW-11
 Well Diameter 4
 Total Depth 14.60 ft.
 Depth to Water 13.64 ft.
0.96 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

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

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

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 (µmhos/cm - µS)	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)

COMMENTS: M/O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385867
 Event Date: 11/6/13 (inclusive)
 Sampler: GIM

Well ID: MW-12
 Well Diameter: 4
 Total Depth: 26.66 ft.
 Depth to Water: 13.66 ft.
13.00 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

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

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): _____ 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 (µmhos/cm - µS)	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)

COMMENTS: M/O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385867
 Event Date: 11/6/13 (inclusive)
 Sampler: Gm

Well ID: MW-13
 Well Diameter: 4
 Total Depth: 36.62 ft.
 Depth to Water: 13.38 ft.
23.24 xVF = _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

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

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): _____ 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 (µmhos/cm - µS)	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)

COMMENTS: N/O, REPLACED GASKET

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385867
Event Date: 11/6/13 (inclusive)
Sampler: GM

Well ID: MW-14
Well Diameter: 4
Total Depth: 14.40 ft.
Depth to Water: 11.03 ft.
3.37 xVF _____ = _____

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

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

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

Start Time (purge): _____
Sample Time/Date: /
Approx. Flow Rate: _____ gpm.
Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
Water Color: _____ Odor: Y / N
Sediment Description: _____
Volume: _____ gal. DTW @ Sampling: _____

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

LABORATORY INFORMATION

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

COMMENTS: N/O

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385867
 Event Date: 11/6/13 (inclusive)
 Sampler: GM

Well ID: MW-15
 Well Diameter: 4
 Total Depth: 45.90 ft.
 Depth to Water: 11.07 ft.
34.83 xVF = _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

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

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

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 (µmhos/cm - pS)	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)

COMMENTS: M/O, REPLACED GASKET / NO SOCK IN WELL

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385867
 Event Date: 11/6/13 (inclusive)
 Sampler: GIM

Well ID: MW-16
 Well Diameter: 4
 Total Depth: 29.9 ft.
 Depth to Water: 11.16 ft.
18.03 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

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

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

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 (µmhos/cm - µS)	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)

COMMENTS: m/o

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
 Site Address: 930 Springtown Blvd. Event Date: 11/6/13 (inclusive)
 City: Livermore, CA Sampler: GM

Well ID: MW-17
 Well Diameter: 4
 Total Depth: 37.05 ft.
 Depth to Water: 14.93 ft.
22.12 xVF 0.66 = 14.59

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.35 x3 case volume = Estimated Purge Volume: 44 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: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0658 Weather Conditions: Sunny
 Sample Time/Date: 0740 / 11/6/13 Water Color: Clear Odor: DN Slight
 Approx. Flow Rate: 2 gpm. Sediment Description: sl silt
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.09

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0705</u>	<u>15</u>	<u>7.99</u>	<u>1.53</u>	<u>17.7</u>		
<u>0712</u>	<u>30</u>	<u>7.91</u>	<u>1.52</u>	<u>17.5</u>		
<u>0721</u>	<u>45</u>	<u>7.96</u>	<u>1.49</u>	<u>17.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-17</u>	<u>6x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>

COMMENTS: REPLACED GASKET

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
 Site Address: 930 Springtown Blvd. Event Date: 11/6/13 (inclusive)
 City: Livermore, CA Sampler: GM

Well ID: MW-18
 Well Diameter: 4
 Total Depth: 14.87 ft.
 Depth to Water: 12.67 ft.
2.20 xVF 0.66 = 1.45

Date Monitored: 11/6/13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.11
 x3 case volume = Estimated Purge Volume: 4.5 gal.

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0852 Weather Conditions: SUNNY
 Sample Time/Date: 0938 11/6/13 Water Color: CLOUDY Odor: Y/N SLIGHT
 Approx. Flow Rate: _____ gpm. Sediment Description: LC SILT
 Did well de-water? YES If yes, Time: 0905 Volume: 3 gal. DTW @ Sampling: 12.74

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - MS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0856</u>	<u>1.5</u>	<u>7.06</u>	<u>2.31</u>	<u>20.2</u>		
<u>0905</u>	<u>3</u>	<u>7.09</u>	<u>2.31</u>	<u>20.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-18</u>	<u>6 x vovial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>

COMMENTS: REPLACED GASKET

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
 Site Address: 930 Springtown Blvd. Event Date: 11/6/13 (inclusive)
 City: Livermore, CA Sampler: GMI

Well ID: MW-19
 Well Diameter: 4
 Total Depth: 14.90 ft.
 Depth to Water: 12.96 ft.
1.94 xVF = 0.66 = 1.28

Date Monitored: 11/6/13

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]: 13.34

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

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

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

Start Time (purge): 0755 Weather Conditions: Sunny
 Sample Time/Date: 0820 11/6/13 Water Color: TAN Odor: YN SLIGHT
 Approx. Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? YES If yes, Time: 0907 Volume: 2 gal. DTW @ Sampling: 13.01

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>0800</u>	<u>1.5</u>	<u>7.49</u>	<u>0.91</u>	<u>17.1</u>		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-19</u>	<u>6x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: REPLACED GASKET

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385867
 Event Date: 11/6/13 (inclusive)
 Sampler: GM

Well ID: MW-20

Date Monitored: 11/6/13

Well Diameter: 4

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

Total Depth: 14.92 ft.

Depth to Water: 10.27 ft.

Check if water column is less than 0.50 ft.

4.65 xVF 0.66 = 3.06 x3 case volume = Estimated Purge Volume: 9.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.20

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0616

Weather Conditions: COLD

Sample Time/Date: 0645 / 11/6/13

Water Color: GRAY Odor: YIN

Approx. Flow Rate: _____ gpm.

Sediment Description: SILT

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0621</u>	<u>3.5</u>	<u>7.63</u>	<u>1.54</u>	<u>16.7</u>	_____	_____
<u>0626</u>	<u>6.5</u>	<u>7.61</u>	<u>1.54</u>	<u>16.7</u>	_____	_____
<u>0631</u>	<u>9.5</u>	<u>7.57</u>	<u>1.53</u>	<u>16.7</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-20</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>

COMMENTS: REPLACED GASKET

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

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

118613-83

Acct. # _____

For Eurofins Lancaster Laboratories use only

Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested									
Facility # 55#211253-OML G-R#385867 Global ID#T0600101353				Sediment <input type="checkbox"/> <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Total Number of Containers _____				BTEX 8201 <input 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 type="checkbox"/> 8260 Full Scan _____ Oxygenates _____ Total Lead _____ Method _____ Dissolved Lead _____ Method _____									
Site Address 500 SPRINGTOWN BLVD., LIVERMORE, CA																	
Chevron PM CRASB		Lead Consultant SIVA															
Consultant/Office Deanna 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				Composite <input type="checkbox"/> Grab <input checked="" type="checkbox"/>				SCR #: _____									
Sampler GILBERT MEDINA																	

2 Sample Identification	Soil Depth	3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	8201	8260	TPH-GRO	8015	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	
		Date	Time																					
QA		11/6/13		X					2	X	X													
MW-17			0740						6															
MW-18			0938																					
MW-19			0920																					
MW-20			0645																					

- 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

7 Turnaround Time Requested (TAT) (please circle)				Relinquished by		Date 11/6/13	Time 1215	Received by		Date 11/6/13	Time 1215
<input checked="" type="radio"/> Standard	5 day	4 day									
72 hour	48 hour	24 hour									

8 Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier:				Received by		Date	Time
Type I - Full		<input checked="" type="radio"/> EDF/EDD		UPS _____ FedEx _____ Other _____							
Type VI (Raw Data)		EDFFLAT (default)		Temperature Upon Receipt _____ °C				Custody Seals Intact?		Yes	No
		Other: _____									

6 Remarks

Please forward the lab result directly to the lead consultant and cc: G-R.

ATTACHMENT B

LABORATORY ANALYTICAL 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

November 15, 2013

Project: 211253

Submittal Date: 11/07/2013
Group Number: 1432153
PO Number: 0015118372
Release Number: SHRILL HOPKINS
State of Sample Origin: CA

Client Sample Description

QA-T-131106 NA Water
MW-17-W-131106 Grab Groundwater
MW-18-W-131106 Grab Groundwater
MW-19-W-131106 Grab Groundwater
MW-20-W-131106 Grab Groundwater

Lancaster Labs (LL) #

7267528
7267529
7267530
7267531
7267532

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,

A handwritten signature in black ink that reads "Amek Carter". The signature is written in a cursive style with a long horizontal stroke at the end of the name.

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-131106 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7267528
LL Group # 1432153
Account # 10904

Project Name: 211253

Collected: 11/06/2013

Chevron

Submitted: 11/07/2013 09:35

L4310

Reported: 11/15/2013 22:52

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	D133161AA	11/12/2013 12:50	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D133161AA	11/12/2013 12:50	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13315B20A	11/11/2013 23:33	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13315B20A	11/11/2013 23:33	Marie D Beamenderfer	1

Sample Description: MW-17-W-131106 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7267529
LL Group # 1432153
Account # 10904

Project Name: 211253

Collected: 11/06/2013 07:40 by GM Chevron
L4310
Submitted: 11/07/2013 09:35 6001 Bollinger Canyon Rd.
Reported: 11/15/2013 22:52 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	D133161AA	11/12/2013 13:13	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D133161AA	11/12/2013 13:13	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13315B20A	11/12/2013 04:19	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13315B20A	11/12/2013 04:19	Marie D Beamenderfer	1

Sample Description: MW-18-W-131106 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7267530
LL Group # 1432153
Account # 10904

Project Name: 211253

Collected: 11/06/2013 09:38 by GM Chevron
L4310
Submitted: 11/07/2013 09:35 6001 Bollinger Canyon Rd.
Reported: 11/15/2013 22:52 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	43	0.5	1
10943	Ethylbenzene	100-41-4	74	0.5	1
10943	Toluene	108-88-3	28	0.5	1
10943	Xylene (Total)	1330-20-7	190	0.5	1
GC Volatiles SW-846 8015B ug/l ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	1,400	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	D133161AA	11/12/2013 14:22	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D133161AA	11/12/2013 14:22	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13315B20A	11/12/2013 04:41	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13315B20A	11/12/2013 04:41	Marie D Beamenderfer	1

Sample Description: MW-19-W-131106 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7267531
LL Group # 1432153
Account # 10904

Project Name: 211253

Collected: 11/06/2013 09:20 by GM Chevron
L4310
Submitted: 11/07/2013 09:35 6001 Bollinger Canyon Rd.
Reported: 11/15/2013 22:52 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.	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	D133161AA	11/12/2013 14:45	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D133161AA	11/12/2013 14:45	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13315B20A	11/12/2013 05:03	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13315B20A	11/12/2013 05:03	Marie D Beamenderfer	1

Sample Description: MW-20-W-131106 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7267532
LL Group # 1432153
Account # 10904

Project Name: 211253

Collected: 11/06/2013 06:45 by GM Chevron
L4310
Submitted: 11/07/2013 09:35 6001 Bollinger Canyon Rd.
Reported: 11/15/2013 22:52 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					
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	18	0.5	1
10943	Toluene	108-88-3	2	0.5	1
10943	Xylene (Total)	1330-20-7	17	0.5	1
GC Volatiles SW-846 8015B ug/l					
01728	TPH-GRO N. CA water C6-C12	n.a.	1,900	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	D133162AA	11/12/2013 19:39	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D133162AA	11/12/2013 19:39	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13315B20A	11/12/2013 05:25	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13315B20A	11/12/2013 05:25	Marie D Beamenderfer	1

Quality Control Summary

Client Name: Chevron
Reported: 11/15/13 at 10:52 PM

Group Number: 1432153

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: D133161AA	Sample number(s): 7267528-7267531							
Benzene	N.D.	0.5	ug/l	85		78-120		
Ethylbenzene	N.D.	0.5	ug/l	89		79-120		
Toluene	N.D.	0.5	ug/l	87		80-120		
Xylene (Total)	N.D.	0.5	ug/l	91		80-120		
Batch number: D133162AA	Sample number(s): 7267532							
Benzene	N.D.	0.5	ug/l	102		78-120		
Ethylbenzene	N.D.	0.5	ug/l	100		79-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
Xylene (Total)	N.D.	0.5	ug/l	103		80-120		
Batch number: 13315B20A	Sample number(s): 7267528-7267532							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	114		75-135		

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: D133161AA	Sample number(s): 7267528-7267531 UNSPK: 7267529								
Benzene	113	103	72-134	9	30				
Ethylbenzene	109	102	71-134	7	30				
Toluene	108	103	80-125	5	30				
Xylene (Total)	110	104	79-125	5	30				
Batch number: D133162AA	Sample number(s): 7267532 UNSPK: P268725								
Benzene	113	96	72-134	10	30				
Ethylbenzene	109	96	71-134	11	30				
Toluene	109	100	80-125	8	30				
Xylene (Total)	111	101	79-125	10	30				
Batch number: 13315B20A	Sample number(s): 7267528-7267532 UNSPK: P270917								
TPH-GRO N. CA water C6-C12	128	129	75-135	1	30				

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 11/15/13 at 10:52 PM

Group Number: 1432153

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: D133161AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7267528	100	100	99	97
7267529	100	101	99	96
7267530	100	103	99	100
7267531	100	99	101	99
Blank	99	99	100	98
LCS	99	101	99	99
MS	99	105	100	99
MSD	97	97	99	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: D133162AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7267532	98	92	100	99
Blank	101	98	98	94
LCS	98	98	99	100
MS	98	99	100	103
MSD	98	99	99	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 13315B20A
Trifluorotoluene-F

7267528	88
7267529	85
7267530	93
7267531	86
7267532	101
Blank	90
LCS	85
MS	70
MSD	83
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



Lancaster Laboratories

116613-03

Acct. # 10904

For Eurofins Lancaster Laboratories use only
 Group # 1432153 Sample # 7267528-32
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks			
Facility # <u>SS#211253-OML G-R#385867 Global ID#T0600101353</u> Site Address <u>930 SPRINGTOWN BLVD., 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>GILBERT MEDINA</u>				Sediment <input type="checkbox"/> <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Total Number of Containers				8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> 8015 <input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method										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			
2 Sample Identification		Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	6 Remarks		
QA			11/6/13		X		W		2	X	X							Please forward the lab results directly to the Lead Consultant and cc: G-R.			
MW-17				0740					6												
MW-18				0938																	
MW-19				0920																	
MW-20				0645																	
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by		Date	Time	Received by		Date	Time	9									
Standard <input checked="" type="radio"/> 5 day 4 day 72 hour 48 hour 24 hour				<i>J. [Signature]</i>		11/6/13	1215	<i>A. [Signature]</i>		11/6/13	1215										
				<i>A. [Signature]</i>		11/6/13	1630	UPS		11/6/13	1630										
8 Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier:				Received by		Date	Time	9									
Type I - Full		<input checked="" type="radio"/> EDF/EDD		UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				<i>[Signature]</i>		11.7.13	935										
Type VI (Raw Data)		Other: _____		Temperature Upon Receipt <u>0.3-0.9°C</u>				Custody Seals Intact? <input checked="" type="checkbox"/>		Yes <input checked="" type="radio"/> No <input type="radio"/>											

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 \geq 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 \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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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

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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

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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.