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

September 26, 2013

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 Third 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,

Carryl MacLeod
Project Manager

Attachment: Third 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

September 26, 2013 Reference No. 060058

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

Re: Third 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 *Third 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 through 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 THIRD QUARTER 2013 EVENT

On July 30, 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 three zones are illustrated on Figures 2, 3, and 4, respectively.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction
  - Shallow (Figure 2) North-Northwest
  - Intermediate (Figure 3) North-Northeast
  - 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

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	**5,600**	**6**	4	**31**	**77**
MW-11	**320**	<0.5	<0.5	<0.5	<0.5
MW-14	**6,500**	**370**	**110**	**140**	**430**
MW-18	**6,400**	**270**	**230**	**440**	**1,100**
MW-19	<50	<0.5	<0.5	<0.5	<0.5
MW-20	**2,800**	<0.5	3	23	17
Intermediate Wells					
MW-10	**170**	<0.5	<0.5	<0.5	<0.5
MW-12	**9,000**	**52**	**190**	**160**	**610**
MW-13	**2,800**	**94**	19	22	**57**
MW-16	<50	<0.5	<0.5	<0.5	<0.5
MW-17	<50	<0.5	<0.5	<0.5	<0.5
Deep Well					
MW-15	<50	<0.5	<0.5	<0.5	0.6

µg/L Micrograms per liter
< Indicates constituent was not detected at or above stated laboratory reporting limit
ESLs Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final*, November 2007, revised May 2008. – Table F-1a where groundwater is a potential drinking water source
Data in **bold** represent concentrations that exceed applicable ESLs
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 monitored at the three depth intervals is hydraulically connected.
- No LNAPL was detected in MW-14 during the third quarter 2013 event.
- With the exception of total xylenes reported near the laboratory detection limit, no hydrocarbons were reported in deep well MW-15.
- 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.

If LNAPL is not present during the fourth quarter 2013 event, CRA will compare site conditions to the low-threat closure policy criteria and if appropriate, prepare and submit a Low-Threat Closure Request.

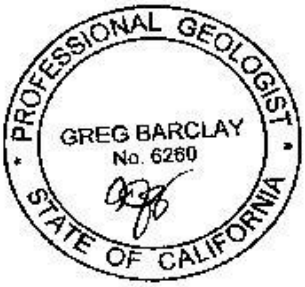
ANTICIPATED FUTURE ACTIVITIES

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

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



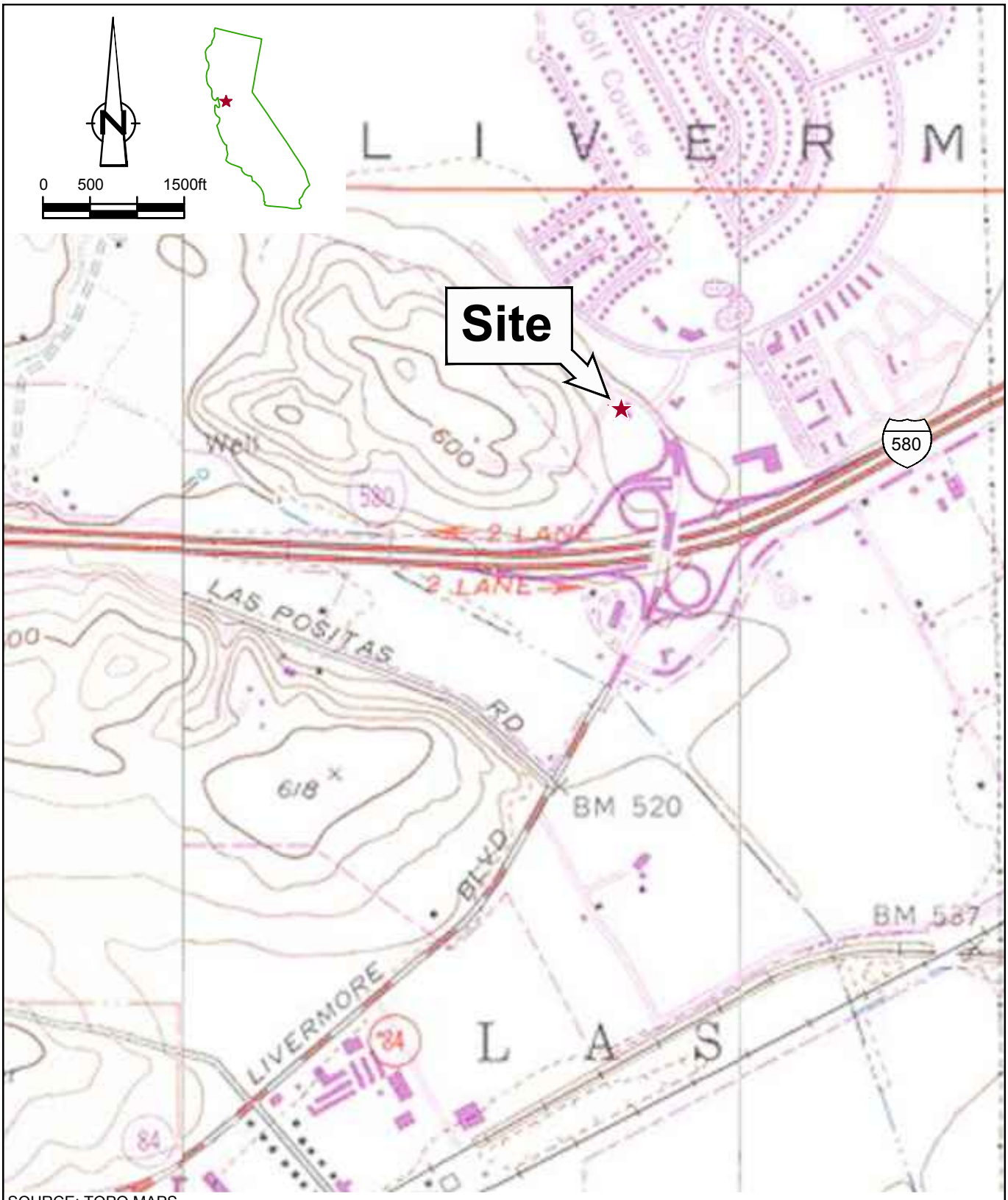
Brian Silva Greg Barclay, PG 6260

BS/cw/24
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
Figure 4	Groundwater Elevation and Hydrocarbon Concentration Map – Deep 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. Joe Zadik
Mr. Ken Hilliard
Mr. Kirk F. Sniff, Esq, Strasburger & Price, LLP

FIGURES

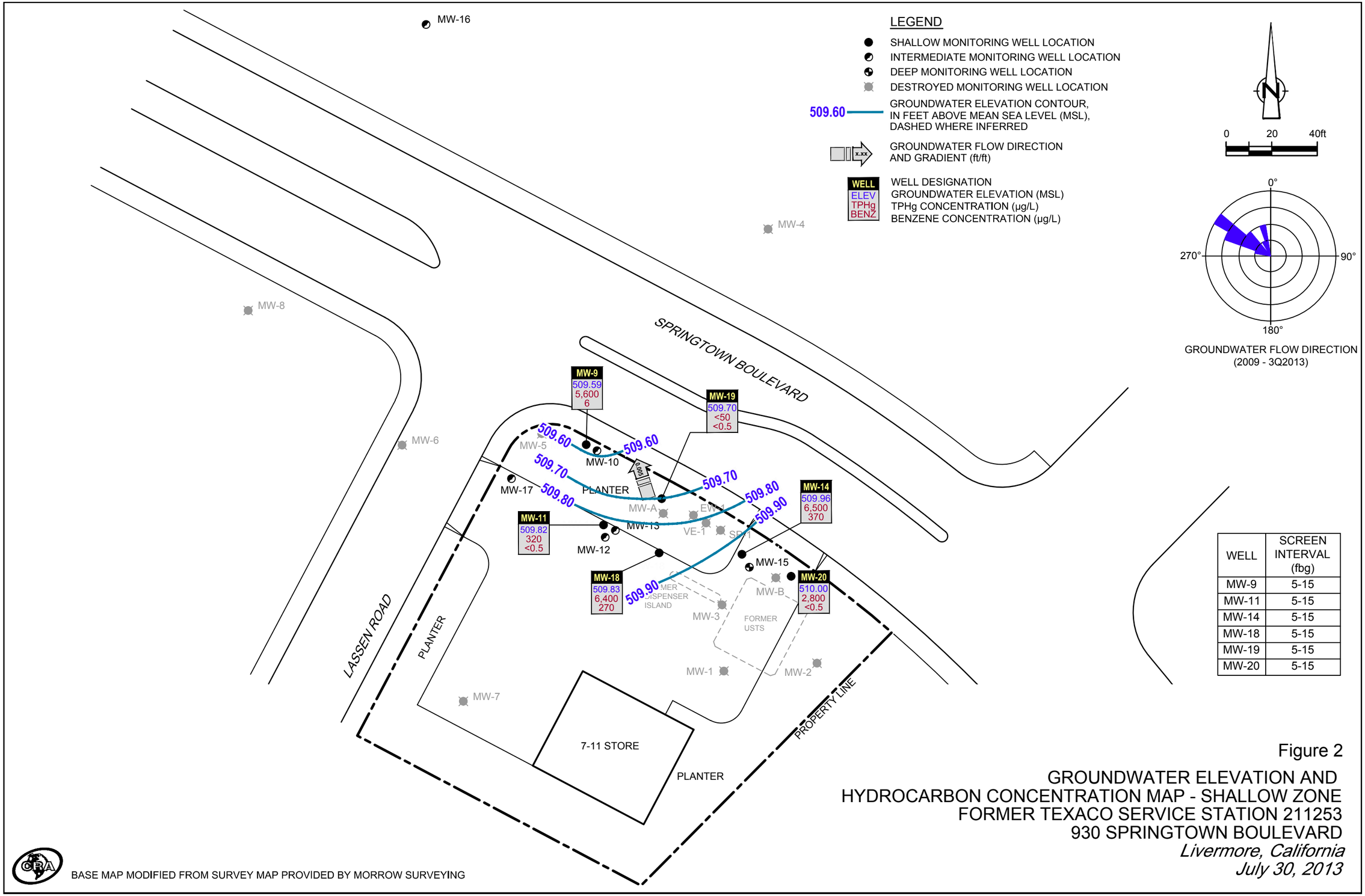


SOURCE: TOPO MAPS

Figure 1

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

060058-95(024)GN-BR001 AUG 29/2013



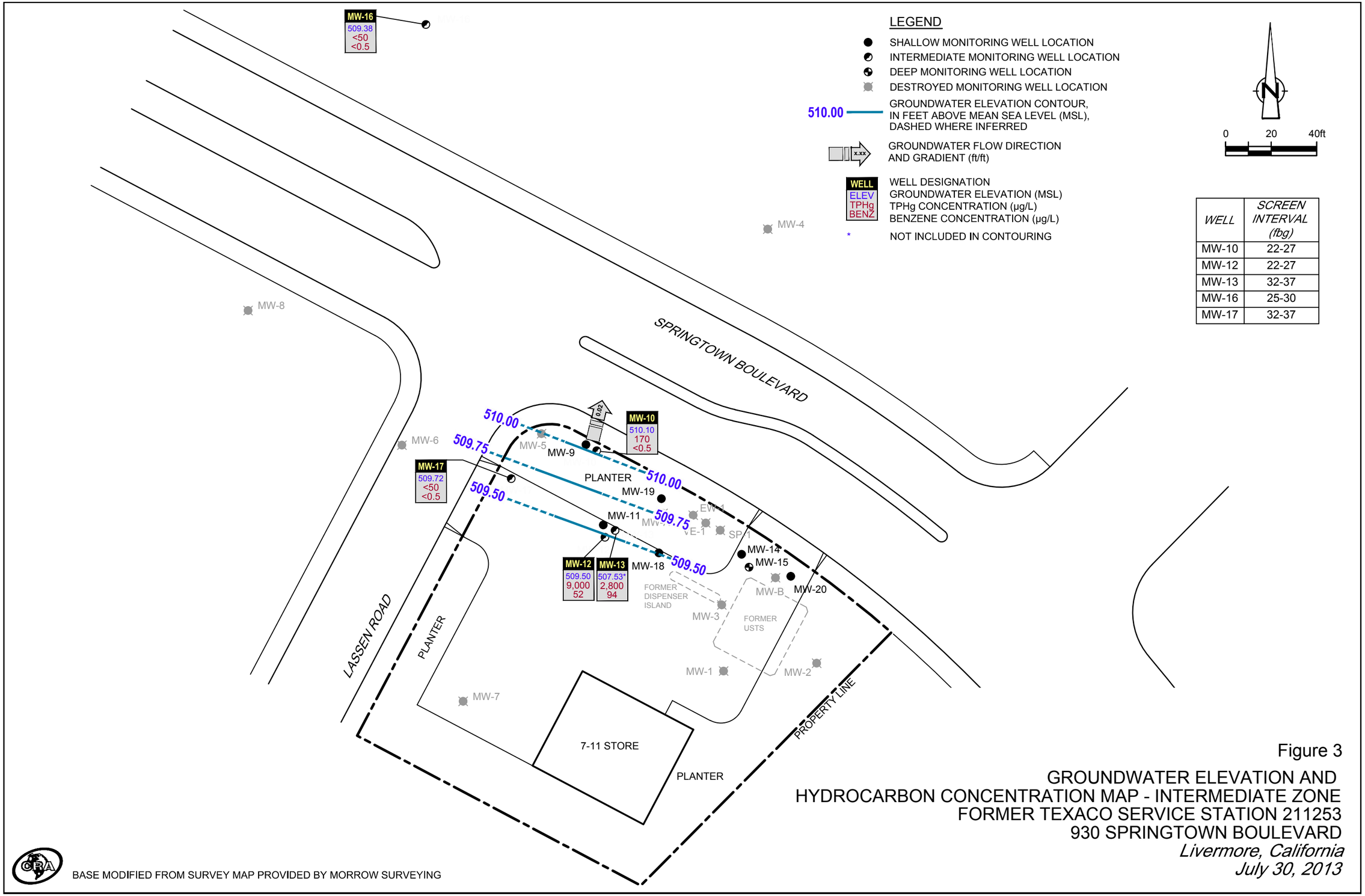
WELL	SCREEN INTERVAL (fbg)
MW-9	5-15
MW-11	5-15
MW-14	5-15
MW-18	5-15
MW-19	5-15
MW-20	5-15

Figure 2

GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP - SHALLOW ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
July 30, 2013

BASE MAP MODIFIED FROM SURVEY MAP PROVIDED BY MORROW SURVEYING

060058-95(024)GN-BR002 AUG 29/2013



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

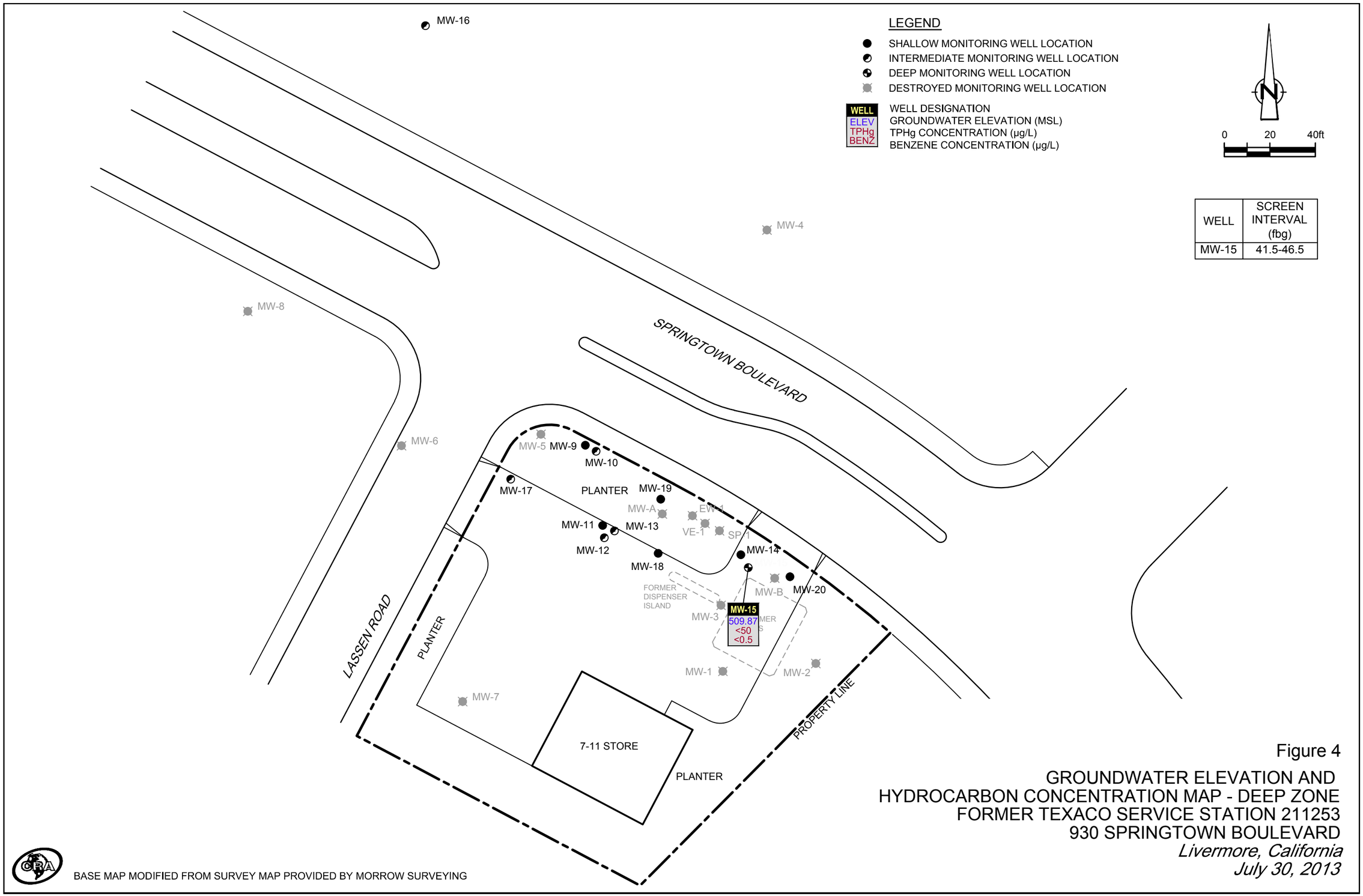
Figure 3

GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP - INTERMEDIATE ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
July 30, 2013

CRA

BASE MODIFIED FROM SURVEY MAP PROVIDED BY MORROW SURVEYING

060058-95(024)GN-BR003 AUG 29/2013



WELL	SCREEN INTERVAL (fbg)
MW-15	41.5-46.5

Figure 4

GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP - DEEP ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
July 30, 2013

BASE MAP MODIFIED FROM SURVEY MAP PROVIDED BY MORROW SURVEYING

060058-95(024)GN-BR004 AUG 29/2013

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-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-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
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	-	-	-	-

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 [2,5]	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-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-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-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	-	-	-	-	-	-	-	-	-

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]	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-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-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	-	-	-	-

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]	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-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-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-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-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**	**-**	**-**	**-**	**-**
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	-	-	-	-
QA	**07/30/2013**	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-

Abbreviations and Notes:

TOC = Top of casing

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*

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

ATTACHMENT A

MONITORING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

August 9, 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.
6747 Sierra Court, Suite J
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 **Third Quarter Event of July 30, 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: 7-30-13
Sampler: ML

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	BOLTS (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=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	→	R-2	OK	—	→	→	NO	NO	EMCO/12"/2	NO
MW-10	OK	—					→				
MW-11	OK	—					→				
MW-12	OK	R	OK	—			→				
MW-13	OK	—					→				
MW-14	OK	—					→				
MW-15	OK	—					→				
MW-16	OK	—					→				
MW-17	OK	—					→				
MW-18	OK	—					→				
MW-19	OK	→	R-2	OK	—	→	→				
MW-20	OK	→	R-2	—			→				

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7-30-13 (inclusive)
City: Livermore, CA | Sampler: ML

Well ID: MW-9 | Date Monitored: 7-30-13
Well Diameter: 4
Total Depth: 14.47 ft.
Depth to Water: 13.55 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.

0.92 xVF .66 = 0.6 x3 case volume = Estimated Purge Volume: 1.8 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.73

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

Start Time (purge): 0900 | Weather Conditions: Sunny
Sample Time/Date: 0925 / 7-30-13 | Water Color: GRAY | Odor: (Y) / N Medium
Approx. Flow Rate: — gpm. | Sediment Description: Light
Did well de-water? NO | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 13.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (~~umhos/cm~~ mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0903	.75	7.78	1.04	19.2		
0906	1.5	7.74	1.05	19.2		
0909	2	7.74	1.04	19.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: 2

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 7-30-13 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-10 Date Monitored: 7-30-13
Well Diameter 4
Total Depth 26.42 ft.
Depth to Water 13.15 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

13.27 xVF .646 = 8.7 x3 case volume = Estimated Purge Volume: 26.1 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.80

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump X
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: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:

Start Time (purge): 1210 Weather Conditions: SUNNY
Sample Time/Date: 1340 7-30-13 Water Color: Clear Odor: Y (N)
Approx. Flow Rate: 2 gpm. Sediment Description: none
Did well de-water? Yes If yes, Time: 1217 Volume: 14 gal. DTW @ Sampling: 15.01

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - MS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1215	10	7.26	0.90	21.2		
	~~20~~					
	~~26~~					

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

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: 7-30-13 (inclusive)

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

Well ID **MW-11** Date Monitored: 7-30-13

Well Diameter **4**

Total Depth 14.60 ft.

Depth to Water 13.60 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

1.00 xVF .606 = 0.606 x3 case volume = Estimated Purge Volume: 1.9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.80

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

Start Time (purge): 0945 Weather Conditions: Sunny

Sample Time/Date: 1010 / 7-30-13 Water Color: Clear Odor: Y / (N)

Approx. Flow Rate: - gpm. Sediment Description: None

Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.72

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - ~~uS~~ mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0948	0.75	7.25	1.25	20.9		
0951	1.5	7.27	1.24	20.9		
0954	2	7.27	1.25	20.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: _____

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: 7-30-13 (inclusive)

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

Well ID **MW-12** Date Monitored: 7.30.13

Well Diameter 4

Total Depth 26.66 ft.

Depth to Water 13.62 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.

13.04 xVF .66 = 8.6 x3 case volume = Estimated Purge Volume: 25.8 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.22

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
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: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____

Start Time (purge): 1030 Weather Conditions: SUNNY

Sample Time/Date: 1100 / 7-30-13 Water Color: CLOUDY Odor: (Y) N Light

Approx. Flow Rate: 2 gpm. Sediment Description: Light

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 15.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (~~umhos/cm~~ mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1034	8	7.72	0.95	21.6		
1038	16	7.63	0.93	20.9		
1043	26	7.59	0.93	20.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

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: 7-30-13 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-13 Date Monitored: 7-30-13
Well Diameter 4
Total Depth 36.62 ft.
Depth to Water 13.35 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

23.27 xVF .66 = 15.3 x3 case volume = Estimated Purge Volume: 45.9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.00

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump X
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: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:

Start Time (purge): 1120 Weather Conditions: SUNNY
Sample Time/Date: 1150 / 7-30-13 Water Color: CLEAR Odor: Y / N medium
Approx. Flow Rate: 3 gpm. Sediment Description: none
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 16.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1125	15	7.28	0.94	21.9		
1130	30	7.23	0.95	21.0		
1136	48	7.29	0.91	20.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-13	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x	YES	NP	CHEVRON	CHEVRON

COMMENTS:

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: 7-30-13 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-14 Date Monitored: 7-30-13
Well Diameter 4
Total Depth 14.40 ft.
Depth to Water 10.92 ft.

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

☐ Check if water column is less then 0.50 ft.

3.48 xVF .66 = 2.2 x3 case volume = Estimated Purge Volume: 6.6 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.61

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

Start Time (purge): 1505 Weather Conditions: SUNNY
Sample Time/Date: 1535 7-30-13 Water Color: GRAY Odor (Y) I N medium
Approx. Flow Rate: gpm. Sediment Description: light
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 10.99

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1511	2.5	7.16	0.86	21.7		
1516	5	7.20	0.88	21.4		
1520	7	7.21	0.88	21.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

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: 7-30-13 (inclusive)
City: **Livermore, CA** Sampler: ML

Well ID **MW-15** Date Monitored: 7-30-13
Well Diameter 4
Total Depth 45.90 ft.
Depth to Water 11.00 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.

34.90 xVF .66 = 23.0 x3 case volume = Estimated Purge Volume: 69 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.98

Purge Equipment:
Disposable Bailer ____
Stainless Steel Bailer ____
Stack Pump X
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: ____ ft
Visual Confirmation/Description: ____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____

Start Time (purge): 1420 Weather Conditions: Sunny
Sample Time/Date: 1455 / 7-30-13 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 3 gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 13.14

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1428	24	7.55	1.18	21.0		
1436	48	7.40	1.15	20.3		
1443	69	7.58	1.14	20.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-15	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: ____

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: 7-30-13 (inclusive)
City: **Livermore, CA** Sampler: ML

Well ID **MW-16** Date Monitored: 7-30-13
Well Diameter 4
Total Depth 29.19 ft.
Depth to Water 11.12 ft. ☐ Check if water column is less then 0.50 ft.

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

18.07 xVF .66 = 11.92 x3 case volume = Estimated Purge Volume: 35.7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.73

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump X
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: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:

Start Time (purge): 1630 Weather Conditions: SUNNY
Sample Time/Date: 1700 / 7.30.13 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 3 gpm. Sediment Description: none
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.01

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm ~~pS~~) MS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1634	12	7.22	1.01	21.7		
1638	24	7.24	1.04	21.4		
1642	36	7.27	1.06	21.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-16	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS:

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: 7-30-13 (inclusive)
City: **Livermore, CA** Sampler: ML

Well ID **MW-17** Date Monitored: 7-30-13
Well Diameter **4**
Total Depth 37.05 ft.
Depth to Water 15.09 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.

21.96 xVF .66 = 14.4 x3 case volume = Estimated Purge Volume: 43.2 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.48

Purge Equipment:
- Disposable Bailer: ____
- Stainless Steel Bailer: ____
- Stack Pump: X
- 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: ____ ft
Visual Confirmation/Description: ____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____

Start Time (purge): 0815 Weather Conditions: SUNNY
Sample Time/Date: 0845 / 7-30-13 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 3 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 19.06

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm ~~µS~~)	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0820	15	7.57	0.90	19.9		
0825	30	7.64	0.89	20.0		
0830	45	7.62	0.88	20.0		

LABORATORY INFORMATION

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

COMMENTS: ____

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: 7-30-13 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-18 Date Monitored: 7-30-13
Well Diameter 4
Total Depth 14.87 ft.
Depth to Water 12.57 ft.

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

☐ Check if water column is less then 0.50 ft.

2.30 xVF .66 = 1.5 x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.03

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

Start Time (purge): 1255 Weather Conditions: SUNNY
Sample Time/Date: 1325 / 7-30-13 Water Color: CLOUDY Odor: Y / N medium
Approx. Flow Rate: — gpm. Sediment Description: light
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1300	1.5	7.47	1.30	22.0		
1305	3	7.46	1.28	21.7		
1310	4.5	7.47	1.27	21.7		

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	YES	N/A	CHEVRON	CHEVRON

COMMENTS: _____

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: 7-30-13 (inclusive)

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

Well ID **MW-19** Date Monitored: 7-30-13

Well Diameter 4

Total Depth 14.90 ft.

Depth to Water 12.93 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.

1.97 xVF 6 (6) = 1.3 x3 case volume = Estimated Purge Volume: 3.9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.32

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

Start Time (purge): 1230 Weather Conditions: Sunny

Sample Time/Date: 1400 7-30-13 Water Color: Clear Odor: Y / N

Approx. Flow Rate: — gpm. Sediment Description: Light

Did well de-water? ~~Yes~~ If yes, Time: 1237 Volume: 2 gal. DTW @ Sampling: 13.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (~~µmhos/cm~~ µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1235	1.5	7.40	0.87	21.4		

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: 2

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7-30-13 (inclusive)
City: Livermore, CA | Sampler: ML

Well ID: MW-20 | Date Monitored: 7-30-13
Well Diameter: 4
Total Depth: 14.92 ft.
Depth to Water: 10.28 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

4.64 xVF .666 = 3.0 x3 case volume = Estimated Purge Volume: 9 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: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____

Start Time (purge): 1545 | Weather Conditions: Sunny
Sample Time/Date: 1615 / 7-30-13 | Water Color: Cloudy | Odor: Y / (N)
Approx. Flow Rate: — gpm. | Sediment Description: Light
Did well de-water? NO | If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.42

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ~~(µmhos/cm - µS)~~ mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1551	3	7.47	0.87	21.4		
1557	6	7.42	0.90	21.1		
1602	9	7.44	0.91	21.0		

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: 2

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

080213-02

Acct. # 10904 — For Eurofins Lancaster Laboratories use only — Group # 1409517 Sample # 7151949-61

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 211253 GR# 385867 WBS GlobalID: T0600101353

Site Address 930 SPRINGTOWN BLVD, LIVERMORE, CA

Chevron PM CM CARRYL MACLEOD — Lead Consultant CRASB Silva

Consultant/Office GETTLER RYAN 6747 Sierra ct. Ste. J Dublin, CA 94568

Consultant Project Mgr. DEANNA HARDING

Consultant Phone # (925) 551-7555

Sampler Mike Lombard

4 Matrix

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

5 Analyses Requested

BTEX + [redacted]: 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

SCR #: ______

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

2 Sample Identification

Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + [redacted]	TPH-GRO	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead
QA		7-30-13		X			X		2	X	X						
MW-9		↓	0925	X			X		6	X	X						
MW-10			1340	X			X		6	X	X						
MW-11			1010	X			X		6	X	X						
MW-12			1100	X			X		6	X	X						
MW-13			1150	X			X		6	X	X						
MW-14			1535	X			X		6	X	X						
MW-15			1455	X			X		6	X	X						
MW-16			1700	X			X		3	X	X						
MW-17			0845	X			X		6	X	X						
MW-18			1325	X			X		6	X	X						
MW-19			1400	X			X		6	X	X						
MW-20			1015	X			X		6	X	X						

6 Remarks

3 VOA'S FOR MW-16 BROKEN DURING TRANSPORT

Please forward the lab results directly to the lead consultant & cc: G-R

amended Client info RM 8/7

7 Turnaround Time Requested (TAT) (please circle)

(Standard) 72 hour — 5 day 48 hour — 4 day 24 hour

8 Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)

Other: ______

9 Custody

Relinquished by	Date	Time	Received by	Date	Time
[signature]	8-2-13	1220	A. Aafer 02	AUG13	1300
A. Aafer 02	AUG13	1630	UPS		
Relinquished by Commercial Carrier: UPS ___ FedEx ___ Other ___			[signature]	8/6/13	1840

Temperature Upon Receipt 0.7 °C

Custody Seals Intact? (Yes) No

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

August 09, 2013

Project: 211253

Submittal Date: 08/06/2013
Group Number: 1409517
PO Number: 0015118372
Release Number: SHRILL HOPKINS
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-130730 NA Water	7151949
MW-9-W-130730 Grab Groundwater	7151950
MW-10-W-130730 Grab Groundwater	7151951
MW-11-W-130730 Grab Groundwater	7151952
MW-12-W-130730 Grab Groundwater	7151953
MW-13-W-130730 Grab Groundwater	7151954
MW-14-W-130730 Grab Groundwater	7151955
MW-15-W-130730 Grab Groundwater	7151956
MW-16-W-130730 Grab Groundwater	7151957
MW-17-W-130730 Grab Groundwater	7151958
MW-18-W-130730 Grab Groundwater	7151959
MW-19-W-130730 Grab Groundwater	7151960
MW-20-W-130730 Grab Groundwater	7151961

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

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

Respectfully Submitted,

Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: QA-T-130730 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151949
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

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

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 06:39	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 06:39	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/07/2013 21:59	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/07/2013 21:59	Catherine J Schwarz	1

Sample Description: MW-9-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151950
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 09:25 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL09

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	6	0.5	1
10943	Ethylbenzene	100-41-4	31	0.5	1
10943	Toluene	108-88-3	4	0.5	1
10943	Xylene (Total)	1330-20-7	77	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,600	500	10

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 08:07	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 08:07	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 03:50	Catherine J Schwarz	10
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 03:50	Catherine J Schwarz	10

Sample Description: MW-10-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151951
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 13:40 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL10

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.	170	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P132191AA	08/07/2013 14:13	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P132191AA	08/07/2013 14:13	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 00:55	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 00:55	Catherine J Schwarz	1

Sample Description: MW-11-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151952
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 10:10 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL11

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.	320	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 08:29	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 08:29	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 01:16	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 01:16	Catherine J Schwarz	1

Sample Description: MW-12-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151953
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 11:00 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL12

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	52	5	10
10943	Ethylbenzene	100-41-4	160	5	10
10943	Toluene	108-88-3	190	5	10
10943	Xylene (Total)	1330-20-7	610	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	9,000	500	10

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 09:12	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 09:12	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 04:12	Catherine J Schwarz	10
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 04:12	Catherine J Schwarz	10

Sample Description: MW-13-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151954
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 11:50 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL13

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	94	0.5	1
10943	Ethylbenzene	100-41-4	22	0.5	1
10943	Toluene	108-88-3	19	0.5	1
10943	Xylene (Total)	1330-20-7	57	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,800	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 09:34	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 09:34	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 04:34	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 04:34	Catherine J Schwarz	5

Sample Description: MW-14-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151955
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 15:35 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL14

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	370	5	10
10943	Ethylbenzene	100-41-4	140	5	10
10943	Toluene	108-88-3	110	5	10
10943	Xylene (Total)	1330-20-7	430	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	6,500	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 10:18	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 10:18	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 04:56	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 04:56	Catherine J Schwarz	5

Sample Description: MW-15-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151956
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 14:55 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL15

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	0.6	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

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132202AA	08/08/2013 07:13	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132202AA	08/08/2013 07:13	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 02:00	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 02:00	Catherine J Schwarz	1

Sample Description: MW-16-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151957
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 17:00 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SBL16

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

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 10:40	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 10:40	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 02:22	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 02:22	Catherine J Schwarz	1

Sample Description: MW-17-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151958
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 08:45 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

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

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 11:02	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 11:02	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 02:44	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 02:44	Catherine J Schwarz	1

Sample Description: MW-18-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151959
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 13:25 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

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	270	5	10
10943	Ethylbenzene	100-41-4	440	5	10
10943	Toluene	108-88-3	230	5	10
10943	Xylene (Total)	1330-20-7	1,100	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	6,400	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 11:46	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 11:46	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 05:18	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 05:18	Catherine J Schwarz	5

Sample Description: MW-19-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151960
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 14:00 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

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.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 12:52	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 12:52	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 03:06	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 03:06	Catherine J Schwarz	1

Sample Description: MW-20-W-130730 Grab Groundwater
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353

LL Sample # WW 7151961
LL Group # 1409517
Account # 10904

Project Name: 211253

Collected: 07/30/2013 16:15 by ML

Submitted: 08/06/2013 18:40
Reported: 08/09/2013 18:59

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	23	0.5	1
10943	Toluene	108-88-3	3	0.5	1
10943	Xylene (Total)	1330-20-7	17	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,800	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F132201AA	08/08/2013 13:14	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F132201AA	08/08/2013 13:14	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13219A20A	08/08/2013 03:28	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13219A20A	08/08/2013 03:28	Catherine J Schwarz	1

Quality Control Summary

Client Name: Chevron Group Number: 1409517
Reported: 08/09/13 at 06:59 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: F132201AA	Sample number(s): 7151949-7151950,7151952-7151955,7151957-7151961							
Benzene	N.D.	0.5	ug/l	95		77-121		
Ethylbenzene	N.D.	0.5	ug/l	92		79-120		
Toluene	N.D.	0.5	ug/l	95		79-120		
Xylene (Total)	N.D.	0.5	ug/l	90		77-120		
Batch number: F132202AA	Sample number(s): 7151956							
Benzene	N.D.	0.5	ug/l	93		77-121		
Ethylbenzene	N.D.	0.5	ug/l	90		79-120		
Toluene	N.D.	0.5	ug/l	94		79-120		
Xylene (Total)	N.D.	0.5	ug/l	86		77-120		
Batch number: P132191AA	Sample number(s): 7151951							
Benzene	N.D.	0.5	ug/l	101		77-121		
Ethylbenzene	N.D.	0.5	ug/l	85		79-120		
Toluene	N.D.	0.5	ug/l	87		79-120		
Xylene (Total)	N.D.	0.5	ug/l	86		77-120		
Batch number: 13219A20A	Sample number(s): 7151949-7151961							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	121	115	75-135	5	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: F132201AA	Sample number(s): 7151949-7151950,7151952-7151955,7151957-7151961 UNSPK: P149781								
Benzene	97	95	72-134	2	30				
Ethylbenzene	95	93	71-134	2	30				
Toluene	95	96	80-125	1	30				
Xylene (Total)	93	92	79-125	1	30				
Batch number: F132202AA	Sample number(s): 7151956 UNSPK: 7151956								
Benzene	98	99	72-134	1	30				
Ethylbenzene	99	96	71-134	3	30				
Toluene	105	107	80-125	2	30				
Xylene (Total)	97	96	79-125	2	30				
Batch number: P132191AA	Sample number(s): 7151951 UNSPK: 7151951								

*- 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: 1409517
Reported: 08/09/13 at 06:59 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
Benzene	107	116	72-134	8	30				
Ethylbenzene	90	99	71-134	9	30				
Toluene	91	100	80-125	10	30				
Xylene (Total)	89	99	79-125	10	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: F132201AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7151949	96	103	104	97
7151950	95	101	103	99
7151952	97	102	105	100
7151953	96	99	106	99
7151954	95	102	103	97
7151955	96	102	105	99
7151957	96	102	104	98
7151958	96	101	103	96
7151959	95	101	103	97
7151960	96	101	105	99
7151961	95	101	104	101
Blank	96	102	103	97
LCS	96	105	104	99
MS	97	106	103	99
MSD	96	102	104	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F132202AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7151956	105	113	105	99
Blank	95	99	104	97
LCS	96	104	104	98
MS	93	104	106	101
MSD	96	105	109	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P132191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7151951	105	99	95	96

*- 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: 1409517
Reported: 08/09/13 at 06:59 PM

Surrogate Quality Control

Blank	105	97	96	98
LCS	105	104	95	97
MS	104	105	95	97
MSD	104	104	94	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 13219A20A

	Trifluorotoluene-F
7151949	83
7151950	81
7151951	79
7151952	85
7151953	92
7151954	89
7151955	87
7151956	78
7151957	77
7151958	76
7151959	78
7151960	77
7151961	116
Blank	94
LCS	101
LCSD	101
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

Ø8Ø213-Ø2

Acct. # 10904

For Eurofins Lancaster Laboratories use only
Group # 1409517 Sample # 7131949-61
Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 211253 WBS

Site Address 930 SPRINGDOWN BLVD, LIVERMORE, CA

Chevron PM CARRYL MACLEOD Lead Consultant CRA

Consultant/Office GETTLER RYAN 6747 Sierra ct. ste. J Dublin, CA 94568

Consultant Project Mgr. DEANNA HARDING

Consultant Phone # (925) 551-7555

Sampler Mike Lombard

2 Sample Identification

Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Sediment	Potable Water	Ground Water	NPDES	Surface Water	Air	Oil	Total Number of Containers	5 Analyses Requested: 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		7-30-13		X				X						2	X	X							
MW-9			0925	X				X						6	X	X							
MW-10			1340	X				X						6	X	X							
MW-11			1010	X				X						6	X	X							
MW-12			1100	X				X						6	X	X							
MW-13			1150	X				X						6	X	X							
MW-14			1535	X				X						6	X	X							
MW-15			1455	X				X						6	X	X							
MW-16			1700	X				X						3	X	X							
MW-17			0845	X				X						6	X	X							
MW-18			1325	X				X						6	X	X							
MW-19			1400	X				X						6	X	X							
MW-20			1615	X				X						6	X	X							

SCR #: _____

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

6 Remarks

3 VOA'S FOR MW-16 BROKEN DURING TRANSPORT

7 Turnaround Time Requested (TAT) (please circle)

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

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]	8-2-13	1220	A. Saber #2	AUG13	1340
A. Saber #2	AUG13	1630	UPS		
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			[signature]	8/6/13	1840
Temperature Upon Receipt 0.7 °C			Custody Seals Intact? (Yes) No		

9

AMENDED

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Ø8Ø213-Ø2

Acct. # 10904 | For Eurofins Lancaster Laboratories use only: Group # 140951 | Sample # 7151949-61

Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 211253 | WBS GP# 385867 Global ID: T0600101353

Site Address: 930 SPRINGTOWN BLVD, LIVERMORE, CA

Chevron PM: CARRYL MACLEOD | Lead Consultant: CRASB Silva

Consultant/Office: GETTLER RYAN 6747 Sierra ct. ste. J Dublin, CA 94568

Consultant Project Mgr.: DEANNA HARDING

Consultant Phone #: (925) 551-7555

Sampler: Mike Lombard

4 Matrix

Soil | Water: Sediment, Potable, Ground, NPDES, Surface | Oil | Air

5 Analyses Requested

Total Number of Containers | 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 | Dissolved Lead

SCR #: _____

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

2 Sample Identification	Soil Depth	Collected Date	Collected Time	3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + 8260	TPH-GRO 8260
QA		7-30-13		X			X		2	X	X
MW-9			0925	X			X		6	X	X
MW-10			1340	X			X		6	X	X
MW-11			1010	X			X		6	X	X
MW-12			1100	X			X		6	X	X
MW-13			1150	X			X		6	X	X
MW-14			1535	X			X		6	X	X
MW-15			1455	X			X		6	X	X
MW-16			1700	X			X		3	X	X
MW-17			0845	X			X		6	X	X
MW-18			1325	X			X		6	X	X
MW-19			1400	X			X		6	X	X
MW-20			1615	X			X		6	X	X

6 Remarks

3 VOA's for MW-16 BROKEN DURING TRANSPORT

Please forward the lab results directly to the lead consultant ↑ CC: G-R

amended Client info PM 8/7

7 Turnaround Time Requested (TAT) (please circle)

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

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]	8-2-13	1220	[signature] Ø2	AUG13	13ØØ
[signature] Ø2	AUG13	1636	UPS		

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Received by: [signature] | Date 8/6/13 | Time 1840

Temperature Upon Receipt 0.7 °C

Custody Seals Intact? (Yes) No

9

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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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	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.