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

October 30, 2012

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 2012 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 2012 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 2012 Groundwater Monitoring and Sampling Report

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
http://www.craworld.com

October 30, 2012 Reference No. 060058

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

Re: Third Quarter 2012
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 2012 Groundwater Monitoring and Sampling Report* on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above (Figure 1). 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. Lancaster Laboratories' *Analytical Results* is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF THIRD QUARTER 2012 EVENT

On August 22, 2012, G-R monitored and sampled wells per the established schedule. Monitoring wells are divided into three different 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 elevations and hydrocarbon concentrations maps for the shallow, intermediate, and deep 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) Northwest
  - Intermediate (Figure 3) North-northwest
  - Deep (Figure 4) Not Applicable (only 1 well)
- Approximate Depth to Groundwater
  - Shallow Wells 10 to 13.5 feet below grade (fbg)
  - Intermediate Wells 11 to 14.5 fbg
  - Deep Well 11 fbg

Results of the third quarter 2012 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	**1,300**	<5	<5	8	7
MW-11	**510**	<0.5	<0.5	<0.5	<0.5
MW-14	**22,000**	**890**	**990**	**600**	**2,600**
MW-18	**3,600**	**80**	**310**	**170**	**550**
MW-19	**1,300**	<0.5	<0.5	17	2
MW-20	**4,800**	<5	**42**	**120**	**320**
Intermediate Wells					
MW-10	**600**	**2**	0.7	2	2
MW-12	**8,500**	<5	12	**120**	**160**
MW-13	**35,000**	**2,000**	**5,600**	**340**	**4,500**
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	<0.5

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

Between May 2010 and August 2012, LNAPL has been detected in shallow well MW-14 at a maximum of 0.34 feet thick. In May 2012, a sorbent LNAPL sock was installed in well MW-14 as an interim remedial measure. The LNAPL sock is replaced on a biweekly basis and field data sheets are presented in Attachment A. On September 21, 2012, no LNAPL was detected or LNAPL staining was observed on the sorbent sock in MW-14.

CONCLUSIONS AND RECOMMENDATIONS

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

- Based on similar depth to groundwater data in shallow, intermediate, and deep monitoring wells it appears the three groundwater zones may be hydraulically connected.
- Light non-aqueous phase liquid (LNAPL) has been detected in shallow well MW-14. A sorbent LNAPL sock has been installed in MW-14 as an interim remedial measure. During the third quarter sampling event, MW-14 was sampled since no LNAPL was detected.
- The shallow water bearing zone is adequately delineated laterally by destroyed wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, and MW-8, and current wells MW-9, MW-11, MW-19, and MW-20.
- The highest dissolved hydrocarbon concentrations are detected in intermediate well MW-13 located west-northwest of the former underground storage tanks and dispensers.
- Intermediate wells MW-10, MW-16, and MW-17 adequately define the downgradient extent of dissolved hydrocarbons in the intermediate zone to near or below ESLs.
- Deep well MW-15 defines the vertical extent of hydrocarbons in groundwater beneath the source area.

CRA recommends continued quarterly monitoring and sampling of new wells MW-17 through MW-20 until first quarter 2013, and quarterly monitoring and semi-annual sampling of wells MW-9 through MW-16 to petroleum hydrocarbon concentration trends. After the first quarter 2013 (four quarters of groundwater sampling data), CRA recommends MW-17 through MW-20 be monitored and sampled semi-annually during the first and third quarters. CRA recommends that the LNAPL sock in MW-14 be replaced quarterly now that LNAPL thickness and mass removal has diminished.

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.

Draft Feasibility Study and Corrective Action Plan (FS/CAP)
As requested by ACEH in a letter dated September 5, 2012, CRA is drafting a response that will be submitted prior to the November 5, 2012 deadline.

Absorbent Sock
G-R will continue to replace the absorbent sock in well MW-14 on a quarterly basis as an interim remedial action to remove LNAPL.

Please contact Ms. Tina Hariu at (510) 420-3344 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Celina Hernandez, P.G. 8931

CH/aa/18
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentrations Map – Shallow Zone
Figure 3	Groundwater Elevation and Hydrocarbon Concentrations Map – Intermediate Zone
Figure 4	Groundwater Elevation and Hydrocarbon Concentrations 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

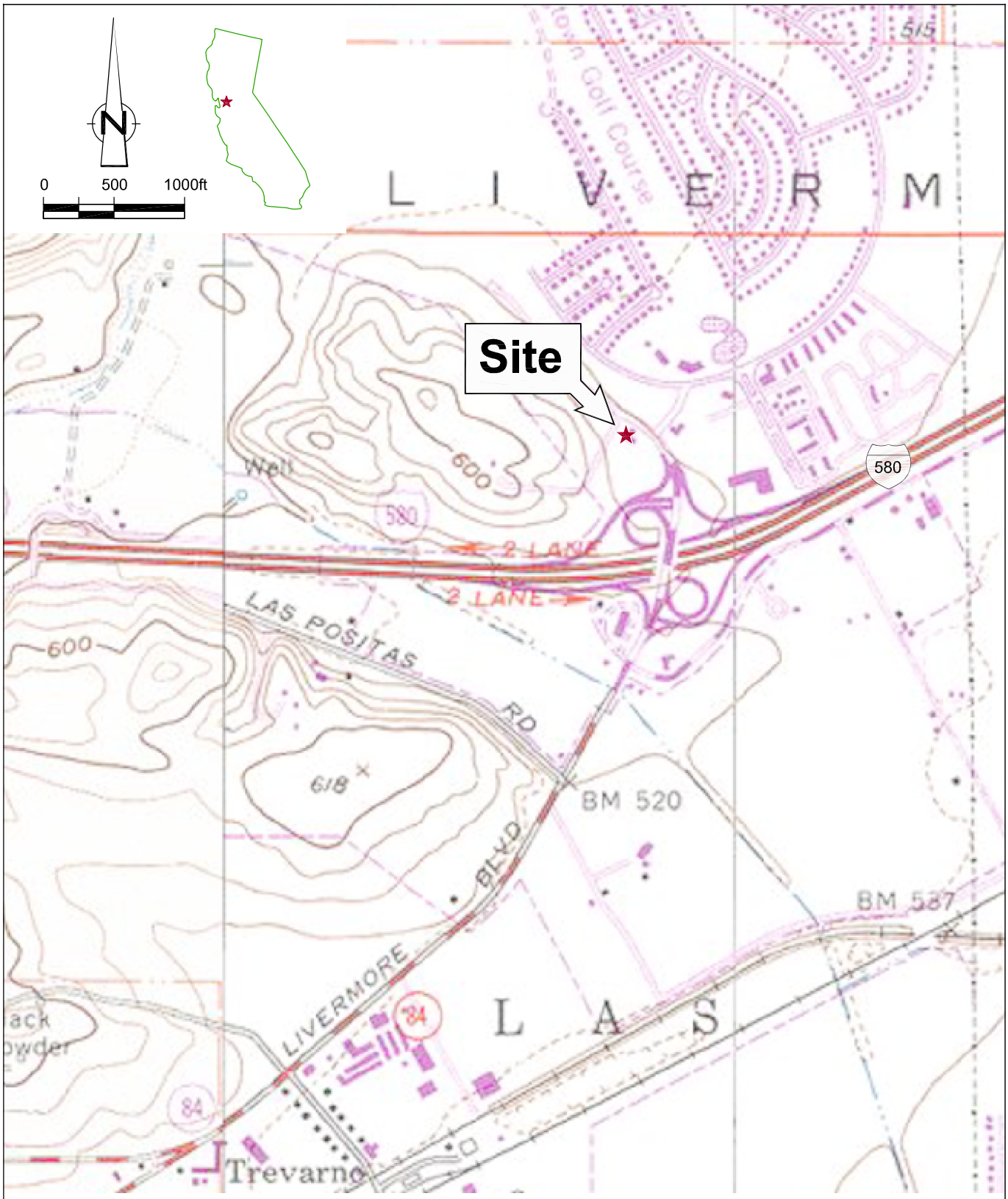


Figure 1

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

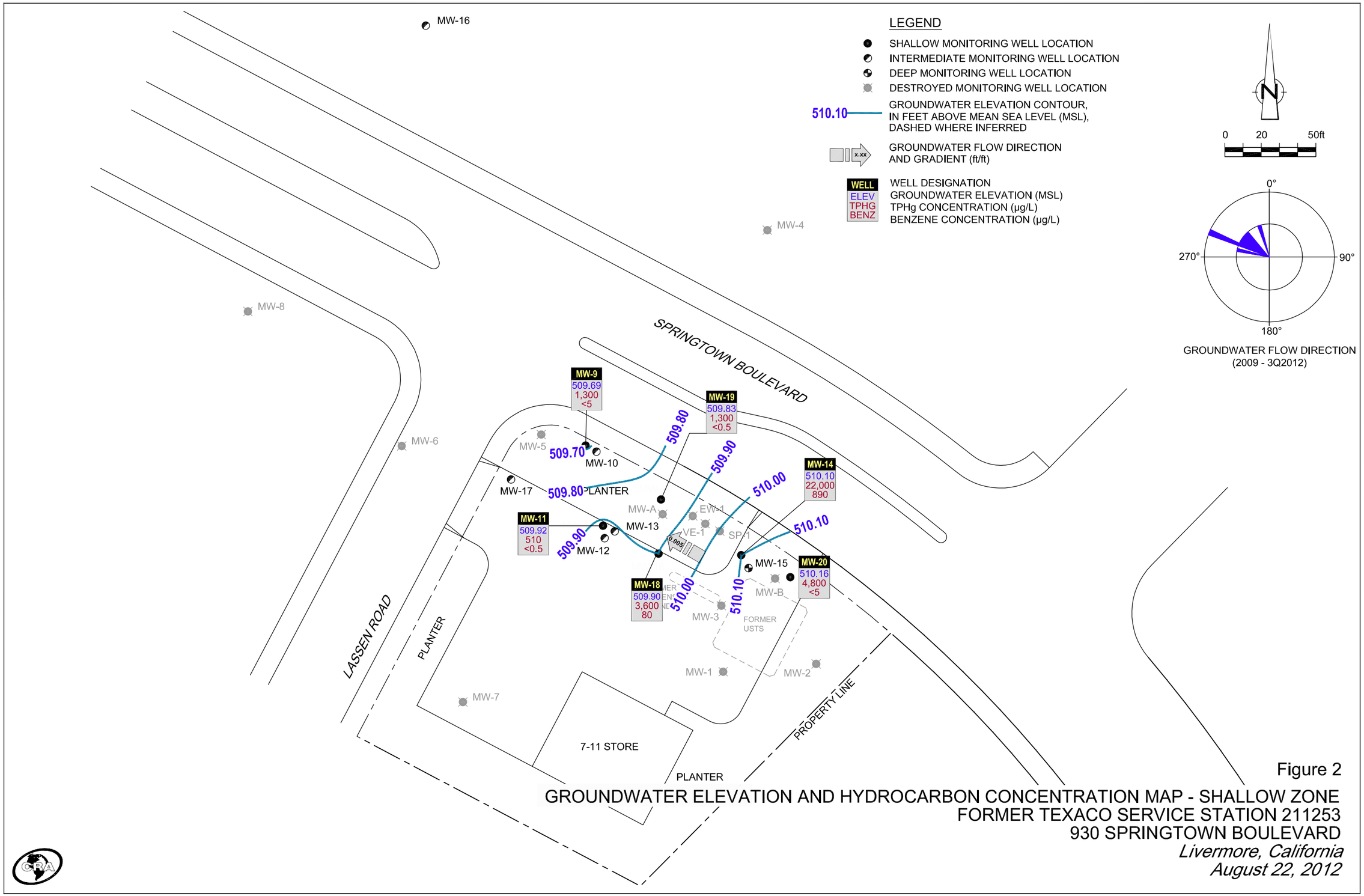
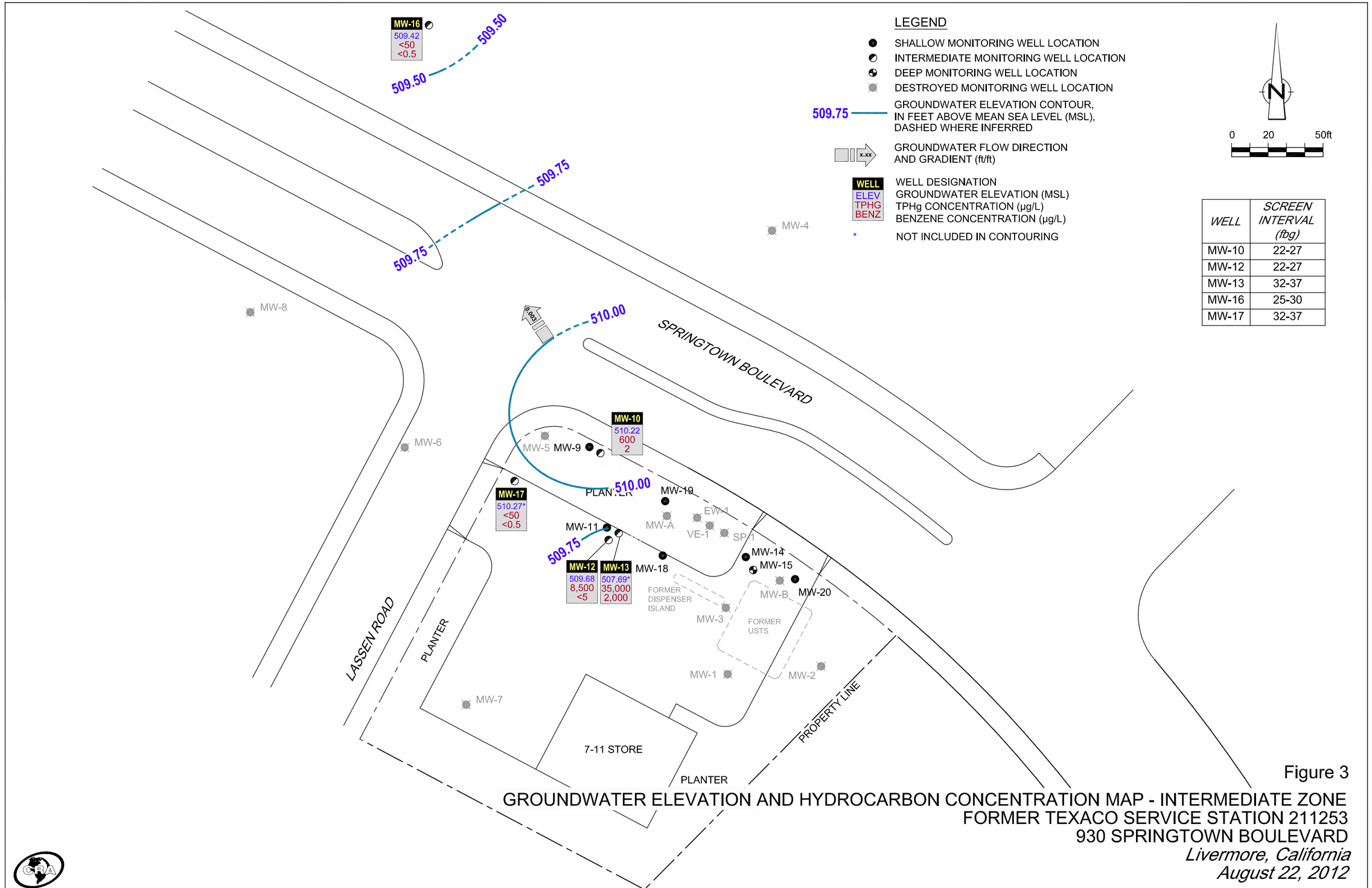


Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP - SHALLOW ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
August 22, 2012



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
August 22, 2012

060058-95(018)GN-EM003 OCT 12/2012

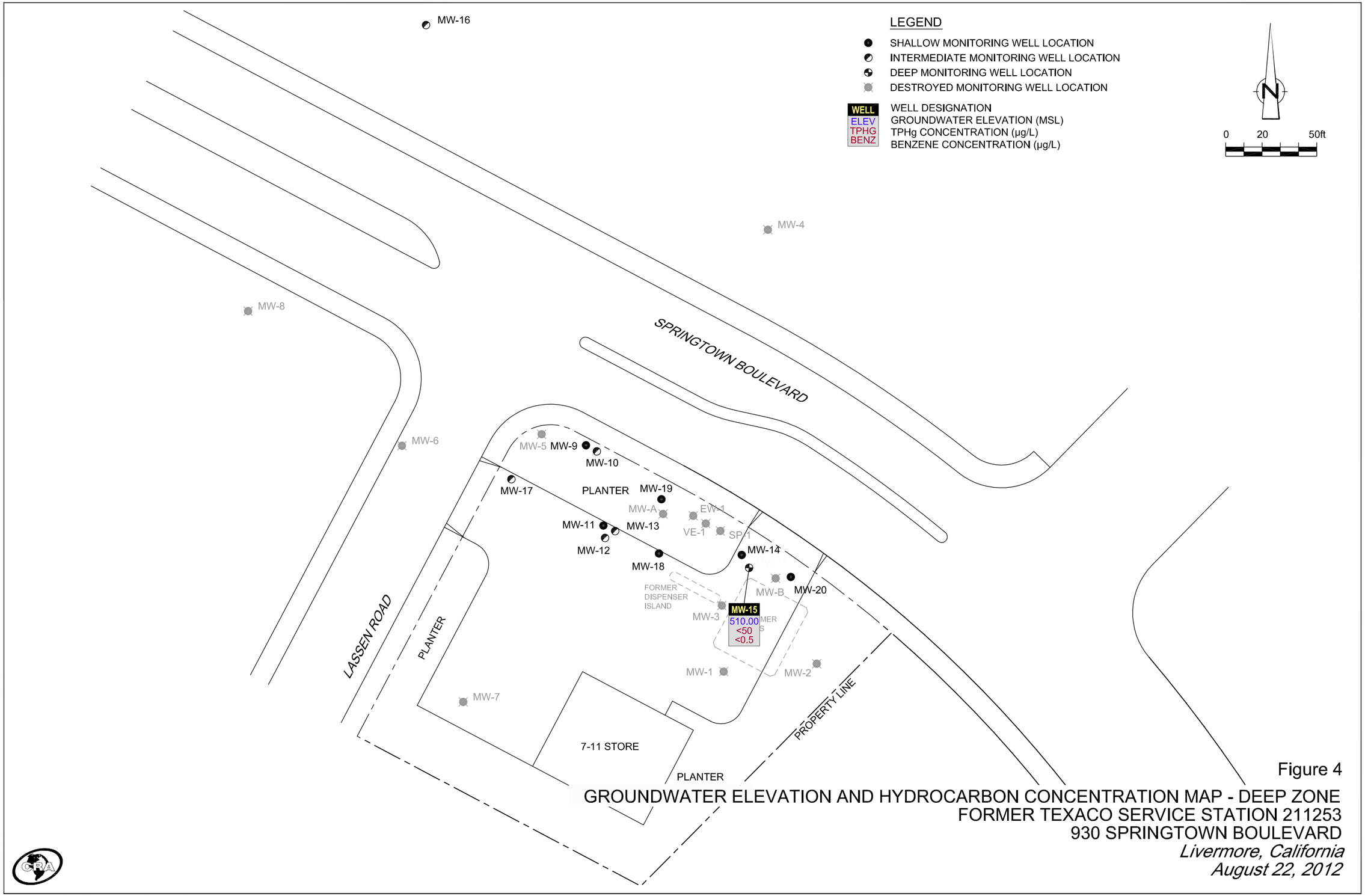


Figure 4

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP - DEEP ZONE
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California
August 22, 2012

060058-95(018)GN-EM004 SEPT 26/2012

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]	**08/22/2012**	**523.14**	**13.45**	**509.69**	**-**	**-**	**1,300**	**<5**	**<5**	**8**	**7**	**2,900**	**9,200**	**<250**	**24,000**
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]	**08/22/2012**	**523.25**	**13.03**	**510.22**	**-**	**-**	**600**	**2**	**0.7**	**2**	**2**	**670**	**580**	**<250**	**24,400**
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]	**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-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]	**08/22/2012**	**523.12**	**13.44**	**509.68**	**-**	**-**	**8,500**	**<5**	**12**	**120**	**160**	**2,000**	**6,400**	**<250**	**3,200**
MW-13 [3]	08/24/2010	520.88	13.69	507.19	-	-	13,000	810	710	76	660	-	-	-	-

TABLE 1

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

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-13 [3]	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]	**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-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]	05/30/2012	520.88					Sorbent Sock Installed								
MW-14 [2]	06/14/2012	520.88	10.36	510.65	0.16	1.25	-	-	-	-	-	-	-	-	-
MW-14 [2]	06/25/2012	520.88	10.44	510.47	0.04	0.98	-	-	-	-	-	-	-	-	-
MW-14 [2]	07/11/2012	520.88	10.52	510.41	0.06	1.34	-	-	-	-	-	-	-	-	-
MW-14 [2]	07/24/2012	520.88	10.70	510.20	0.02	0.45	-	-	-	-	-	-	-	-	-
MW-14 [2]	08/08/2012	520.88	13.74	507.16	0.03	0.46	-	-	-	-	-	-	-	-	-
MW-14 [2]	**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]	09/04/2012	520.88	10.82	531.70	-	0.16	-	-	-	-	-	-	-	-	-
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]	**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-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]	**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-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-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-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-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**
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	-	-	-	-

TABLE 1

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

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	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**	**-**	**-**	**-**	**-**

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated concentration

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

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

1 Not sampled due to the presence of LNAPL.

2 Shallow well

3 Intermediate well

4 Deep well

5 Sampled semi-annually during the first and third quarters

ATTACHMENT A

MONITORING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

August 29, 2012
G-R #385867

TO: Ms. Tina Hariu
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

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 **Bi-weekly Absorbent Sock Change Out and Third Quarter Event of August 22, 2012**

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

pg. 1 of 2

WELL CONDITION STATUS SHEET

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

Job #: **385867**
Event Date: 8.22.12
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-11	OK							NO	NO	ENCO/12"/2	NO
MW-12	OK										
MW-13	OK										
MW-14	OK										
MW-15	OK										
MW-16	OK										
MW-18	OK										

Comments

WELL CONDITION STATUS SHEET

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

Site Address: **930 Springtown Blvd.** Event Date: 8.22.12

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

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	BOLTS (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=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	OK	OK	OK	OK	OK	OK			Emco | 12" | 2	
MW-10	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MW-17	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MW-19	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MW-20	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

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 Evergreen Oil located in Newark, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 8.22.12 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-9 Date Monitored: 8.22.12
Well Diameter 4
Total Depth 14.47 ft.
Depth to Water 13.45 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.

1.02 xVF .66 = .67 x3 case volume = Estimated Purge Volume: 2.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.65

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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): 1200 Weather Conditions: SUNNY
Sample Time/Date: 1230 / 8.22.12 Water Color: GRY. Odor: (Y) / N STRONG
Approx. Flow Rate: ~ gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 13.45

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1204	.75	7.17	780	20.1	PRE: 1.5	PRE: -18
1208	1.5	7.15	785	19.9		
1212	2.0	7.13	789	19.7		
					POST: 1.4	POST: -34

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8.22.12 (inclusive)
City: Livermore, CA | Sampler: FT

Well ID: MW-10 | Date Monitored: 8.22.12
Well Diameter: 4
Total Depth: 26.44 ft.
Depth to Water: 13.03 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.

13.41 xVF .66 = 8.85 x3 case volume = Estimated Purge Volume: 27.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.71

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): 1130 | Weather Conditions: SUNNY
Sample Time/Date: 1245 / 8.22.12 | Water Color: CLEAN | Odor: (Y) / N SLIGHT
Approx. Flow Rate: 1.5 gpm. | Sediment Description: NONE
Did well de-water? YES If yes, Time: 1138 Volume: 11.0 gal. DTW @ Sampling: 13.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1136	9.0	7.20	696	19.2	PRE: 1.7	PRE: 64
					POST: 1.6	POST: 58

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8-22-12 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-11 Date Monitored: 8-22-12
Well Diameter 4
Total Depth 14.62 ft.
Depth to Water 13.50 ft.

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

☐ Check if water column is less then 0.50 ft.

1.12 xVF .66 = 0.7 x3 case volume = Estimated Purge Volume: 2.1 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.72

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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: 1300 / 8-22-12 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: 13.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ~~(µmhos/cm~~ mS ~~µS)~~	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1235	0.75	7.12	1.33	24.0	PRE: 1.7	PRE: -72
1240	1.5	7.08	1.30	23.9		
1245	2.25	7.09	1.30	23.8		
					POST: 1.4	POST: -70

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

COMMENTS: Slow RECOVERY

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: 8-22-12 (inclusive)
City: Livermore, CA Sampler: MC

Well ID MW-12 Date Monitored: 8-22-12
Well Diameter 4
Total Depth 26.68 ft.
Depth to Water 13.44 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.

13.24 xVF .66 = 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]: 16.08

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump	X	Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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): 1325 Weather Conditions: SUNNY
Sample Time/Date: 1400 / 8-22-12 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: 13.51

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mmhos/cm - uS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1329	8	7.83	1.05	22.9	PRE: 1.7	PRE: -120
1333	16	7.77	1.01	22.5		
1338	28	7.76	1.00	22.4		
					POST: 1.4	POST: -118

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8-22-12 (inclusive)
City: **Livermore, CA** Sampler: ML

Well ID **MW-13** Date Monitored: 8-22-12
Well Diameter 4
Total Depth 36.65 ft.
Depth to Water 13.19 ft.

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

☐ Check if water column is less then 0.50 ft.

23.46 xVF 1.66 = 15.4 x3 case volume = Estimated Purge Volume: 46.2 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.88

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 / 8-22-12 Water Color: GRAY Odor: Y / N medium
Approx. Flow Rate: 3 gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.42

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ~~(µmhos/cm)~~ MS (µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1425	15	7.45	1.25	22.5	PRE: 1.5	PRE: -72
1430	30	7.37	1.31	22.1		
1436	48	7.38	1.22	22.0		
					POST: 1.3	POST: -66

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-13	4 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8-22-12 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-14 Date Monitored: 8-22-12
Well Diameter 4
Total Depth 14.41 ft.
Depth to Water 10.78 ft.

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

☐ Check if water column is less then 0.50 ft.

3.63 xVF .66 = 2.3 x3 case volume = Estimated Purge Volume: 6.9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.50

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): 1140 Weather Conditions: SUNNY
Sample Time/Date: 1215 / 8-22-12 Water Color: GRAY Odor: Y / N VERY STRONG
Approx. Flow Rate: - gpm. Sediment Description: LIGHT
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 11.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ~~(umhos/cm - uS)~~ mS	Temperature (C) F	D.O. (mg/L)	ORP (mV)
1146	2.5	7.15	1.69	24.1	PRE: 1.0	PRE: -122
1153	5	7.09	1.63	23.6		
1159	7	7.08	1.63	23.5		
					POST: 0.9	POST: -116

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

COMMENTS:

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

CONESTOGA-ROVERS & ASSOCIATES

SORBENT SOCK EVALUATION FORM

Name: MIKE LOMBARD	Date: 8-22-12	Project Number: 211253
Site Address: 930 SPRINGTOWN BLVD, LIVERMORE, CA 94550	Well ID: MW-14	Weather: SUNNY

1) Time absorbent sock removed from well for inspection: 0900

2) Condition of sock:

a) Length of sock showing product saturation: 12"

b) Length of sock showing dryness: 26"

c) Color of sock showing product saturation: LIGHT BROWN

d) Weight of the removed sock: 14.37 OZ.

e) Weight of a new/clean/dry sock: 9.08 OZ.

f) Difference in weight: (D-E) to 0.01 ounces. 5.29 OZ.

3) Picture of sock removed from well taken: ☑

4) Sock removed from well deposited into a waste drum: ☑

-Is drum labeled? YES How full is drum? (%) 40%

5) After at least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing. :

a) Depth to product: —

b) Depth to water: 10.78

c) Thickness of product: (b-a) —

6) Size and type of sock installed 36" SOAKEASE

7) Comments: AFTER WAITING 30 MINUTES TO MEASURE DTW/PRODUCT AFTER SOCK REMOVAL, FOUND NO PRODUCT PRESENT. DOUBLE CHECKED WITH →

DISPOSABLE BAILER, NO PRODUCT PRESENT.

MW-14, 211253, 8-22-12

PG. 2

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 8/22.12 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW- 15 Date Monitored: 8-22-12
Well Diameter 4
Total Depth 45.90 ft.
Depth to Water 10.87 ft.

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

☐ Check if water column is less then 0.50 ft.

35.03 xVF .66 = 23.1 x3 case volume = Estimated Purge Volume: 69.30 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.87

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): 1000 Weather Conditions: SUNNY
Sample Time/Date: 1040 / 8.22.12 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: 11.12

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ~~(µmhos/cm)~~ mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1008	24	7.21	1.55	21.4	PRE: 1.2	PRE: 46
1016	48	7.16	1.50	20.7		
1024	72	7.17	1.51	20.5		
					POST: 1.0	POST: 51

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 15	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8-22-12 (inclusive)
City: **Livermore, CA** Sampler: MC

Well ID MW-16 Date Monitored: 8-22-12
Well Diameter 4
Total Depth 29.19 ft.
Depth to Water 11.08 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.

18.11 xVF .66 = 11.9 x3 case volume = Estimated Purge Volume: 35.7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.70

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): 1525 Weather Conditions: Sunny
Sample Time/Date: 1600 8-22-12 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 2 gpm. Sediment Description: none
Did well de-water? no If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 11.42

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ~~(umhos/cm)~~ mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1531	12	7.08	1.27	24.1	PRE: 1.6	PRE: 27
1537	24	7.02	1.24	23.4		
1543	36	7.03	1.22	23.2		
					POST: 1.5	POST: 23

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-16	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8.22.12 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-17 Date Monitored: 8.22.12
Well Diameter 4
Total Depth 37.08 ft.
Depth to Water 14.54 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

22.54 xVF .66 = 14.87 x3 case volume = Estimated Purge Volume: 45.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.04

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): 1000 Weather Conditions: SUNNY
Sample Time/Date: 1115 / 8.22.12 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 2.5 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 18.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1006	15.0	7.35	591	19.7	PRE: 1.9	PRE: 94
1012	30.0	7.32	598	19.9		
1018	45.0	7.29	604	20.1		
					POST: 1.7	POST: 102

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-17	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8-22-12 (inclusive)
City: Livermore, CA Sampler: ML

Well ID MW-18 Date Monitored: 8-22-12
Well Diameter 4
Total Depth 14.90 ft.
Depth to Water 12.50 ft.

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

☐ Check if water column is less then 0.50 ft.

2.40 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]: 12.98

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): 1055 Weather Conditions: SUNNY
Sample Time/Date: 1125 / 8-22-12 Water Color: GRAY Odor: (Y) N STRONG
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 12.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ~~umhos/cm~~ mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1100	1.5	7.21	1.83	23.0	PRE: 1.2	PRE: -56
1105	3	7.18	1.80	22.8		
1110	4.5	7.18	1.81	22.8		
					POST: 1.1	POST: -61

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-18	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8.22.12 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-19 Date Monitored: 8.22.12
Well Diameter 4
Total Depth 14.91 ft.
Depth to Water 12.80 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

2.11 xVF .66 = 1.39 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.22

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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): 1300 Weather Conditions: SUNNY
Sample Time/Date: 1400 / 8.22.12 Water Color: GRY. Odor: Ⓨ / N MODERATE
Approx. Flow Rate: ✓ gpm. Sediment Description: S. SILTY
Did well de-water? YES If yes, Time: 1308 Volume: 2.0 gal. DTW @ Sampling: 12.90

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (Ⓒ / F)	D.O. (mg/L)	ORP (mV)
1305	1.5	7.26	785	19.7	PRE: 1.6	PRE: -39
	3.0					
	4.0					
					POST: 1.7	POST: -58

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-19	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

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: 8.22.12 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-20 Date Monitored: 8.22.12
Well Diameter 4
Total Depth 14.94 ft.
Depth to Water 10.12 ft.

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

☐ Check if water column is less then 0.50 ft.

4.82 xVF .66 = 3.18 x3 case volume = Estimated Purge Volume: 10.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.08

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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): 1335 Weather Conditions: SUNNY
Sample Time/Date: 1430 / 8.22.12 Water Color: GRY. Odor: (Y) / N STRONG
Approx. Flow Rate: / gpm. Sediment Description: S. SILTY
Did well de-water? YES If yes, Time: 1350 Volume: 5.0 gal. DTW @ Sampling: 10.17

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1345	3.5	7.31	782	19.9	PRE: 1.7	PRE: -48
					POST: 1.6	POST: -25

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-20	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)
	1 x 250ml amber	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. #: _____ Sample # _____ Group #: 010228

Analyses Requested

Preservation Codes

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

Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA

Chevron PM: CM CRATH Hariu

Lead Consultant: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant/Office: Deanna L. Harding (deanna@grinc.com)

Consultant Prj. Mgr.: _____

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: MIKE L. FRANK T.

Matrix

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ___ Method ___	Total Lead Method ___	Dissolved Lead Method ___	Nitrate/Sulfate	Ferrous IRON	H
[illegible]	[illegible]																	
MW-9	8-22-12	1230	X			X		3								X	X	
MW-10		1215	X			X		3								X	X	
MW-11		1300	X			X		3								X	X	
MW-12		1400	X			X		3								X	X	
MW-13		1155	X			X		3								X	X	
MW-14		1215	X			X		3								X	X	
MW-15		1040	X			X		3								X	X	
MW-16		1600	X			X		3								X	X	
MW-17		1115	X			X		3								X	X	
MW-18		1125	X			X		3								X	X	
MW-19		1400	X			X		3								X	X	
MW-20		1430	X			X		3								X	X	

Preservative Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ 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

Comments / Remarks

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

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full EDF/EDD
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8-22-12	1730			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other _____			Received by:	Date	Time
Temperature Upon Receipt _____ C°			Custody Seals Intact? Yes No		

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. #: _____ Sample # _____ Group #: 010229

Ø82412-Ø2

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

Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA

Chevron PM: CM Lead Consultant: CRATH Hariu

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: Mike L. Frank T.

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil ☐ Air	Total Number of Containers	BTEX + ~~MTBE~~ 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method	METHANE
QA	8-21-12		X			X		2	X	X						
MW-9		1230	X			X		8	X	X						X
MW-10		1245	X			X		8	X	X						X
MW-11		1300	X			X		8	X	X						X
MW-12		1400	X			X		8	X	X						X
MW-13		1455	X			X		8	X	X						X
MW-14		1215	X			X		8	X	X						X
MW-15		1040	X			X		8	X	X						X
MW-16		1600	X			X		8	X	X						X
MW-17		1115	X			X		8	X	X						X
MW-18		1125	X			X		8	X	X						X
MW-19		1400	X			X		8	X	X						X
MW-20		1430	X			X		8	X	X						X

Comments / Remarks

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

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full EDF/EDD
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	8-24-12	0730	Received by:	8/24/12	
Relinquished by:	8/24/12	1330	Received by:	8/24/12	1330
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	Date	Time
Temperature Upon Receipt ____ C°			Custody Seals Intact? Yes No		

GETTLER-RYAN INC.

TRANSMITTAL

September 11, 2012
G-R #385867

TO: Ms. Tina Hariu
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

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 **Bi-weekly Absorbent Sock Change Out of September 4, 2012**

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: 9/4/12
Sampler: GM

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-14	OK	←					→	N	N	EMCO/12/2	N

Comments

CONESTOGA-ROVERS & ASSOCIATES

SORBENT SOCK EVALUATION FORM

Name: G. MEDINA	Date: 9/4/12	Project Number:
Site Address: 930 SPRINGTOWN BLVD LIVERMORE CA	Well ID: MW-14	Weather: CLOUDY COLD

1) Time absorbent sock removed from well for inspection: 0610

2) Condition of sock:

a) Length of sock showing product saturation: 3"

b) Length of sock showing dryness: 34"

c) Color of sock showing product saturation: GRAYISH

d) Weight of the removed sock: 12 1/8 OZ

e) Weight of a new/clean/dry sock: 9 5/8 OZ

f) Difference in weight: (D-E) to 0.01 ounces. 2 1/2 OZ

3) Picture of sock removed from well taken: [Y]

4) Sock removed from well deposited into a waste drum: [Y]

-Is drum labeled? YES How full is drum? (%) 50%

5) After at least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing. :

a) Depth to product: ND

b) Depth to water: 10.82

c) Thickness of product: (b-a) 0

6) Size and type of sock installed 3" SOAKEASE

7) Comments: _____

GETTLER-RYAN INC.

TRANSMITTAL

September 25, 2012
G-R #385867

TO: Ms. Tina Hariu
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

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 **Bi-weekly Absorbent Sock Change Out of September 21, 2012**

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** Job #: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 9-21-12

City: **Livermore, CA** 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-14	OK	→	→	→	→	→	→	NO	NO	EMCO 12" / 2	NO

Comments

CONESTOGA-ROVERS & ASSOCIATES

SORBENT SOCK EVALUATION FORM

Name: Mike L.	Date: 9-21-12	Project Number: 211253
Site Address: 930 Springtown Blvd. Livermore, CA 94550	Well ID: MW-14	Weather: SUNNY

1) Time absorbent sock removed from well for inspection: 1030

2) Condition of sock:

a) Length of sock showing product saturation: NONE

b) Length of sock showing dryness: 31"

c) Color of sock showing product saturation: NONE

d) Weight of the removed sock: 11 oz.

e) Weight of a new/clean/dry sock: 9 oz.

f) Difference in weight: (D-E) to 0.01 ounces. 2.00 oz.

3) Picture of sock removed from well taken: ☒

4) Sock removed from well deposited into a waste drum: ☒

-Is drum labeled? Yes How full is drum? (%) ~50%

5) After at least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing. :

a) Depth to product: —

b) Depth to water: 10.69

c) Thickness of product: (b-a) 0

6) Size and type of sock installed 30" PIG

7) Comments: NO PRODUCT PRESENT IN WELL

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

September 18, 2012

Project: 211253

Submittal Date: 08/25/2012
Group Number: 1331240
PO Number: 0015093428
Release Number: MACLEOD
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-120822 NA Water	6767316
MW-9-W-120822 Grab Water	6767317
MW-10-W-120822 Grab Water	6767318
MW-11-W-120822 Grab Water	6767319
MW-12-W-120822 Grab Water	6767320
MW-13-W-120822 Grab Water	6767321
MW-14-W-120822 Grab Water	6767322
MW-15-W-120822 Grab Water	6767323
MW-16-W-120822 Grab Water	6767324
MW-17-W-120822 Grab Water	6767325
MW-18-W-120822 Grab Water	6767326
MW-19-W-120822 Grab Water	6767327
MW-20-W-120822 Grab Water	6767328

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	Conestoga-Rovers & Associates	Attn: Tina Hariu

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

COPY TO

Respectfully Submitted,

Jill M. Parker
Senior Specialist

(717) 556-7262

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: QA-T-120822 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 QA

LLI Sample # WW 6767316
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPLQA

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	F122411AA	08/28/2012 09:12	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122411AA	08/28/2012 09:12	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 11:03	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 11:03	Marie D John	1

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-9-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-9

LLI Sample # WW 6767317
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 12:30 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL09

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.	5	10
10943	Ethylbenzene	100-41-4	8	5	10
10943	Toluene	108-88-3	N.D.	5	10
10943	Xylene (Total)	1330-20-7	7	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	1,300	50	1
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	2,900	100	20

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	F122411AA	08/28/2012 11:02	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122411AA	08/28/2012 11:02	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 12:19	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 12:19	Marie D John	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 08:59	Elizabeth J Marin	20

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-10-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-10

LLI Sample # WW 6767318
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 12:45 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL10

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	2	0.5	1
10943	Ethylbenzene	100-41-4	2	0.5	1
10943	Toluene	108-88-3	0.7	0.5	1
10943	Xylene (Total)	1330-20-7	2	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	600	50	1
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	670	50	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	F122411AA	08/28/2012 11:24	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122411AA	08/28/2012 11:24	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 12:44	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 12:44	Marie D John	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 09:18	Elizabeth J Marin	10

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-11-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-11

LLI Sample # WW 6767319
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 13:00 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL11

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.	510	50	1
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	760	50	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	F122411AA	08/28/2012 11:46	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122411AA	08/28/2012 11:46	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 13:09	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 13:09	Marie D John	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 09:36	Elizabeth J Marin	10

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-12-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-12

LLI Sample # WW 6767320
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 14:00 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL12

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.	5	10
10943	Ethylbenzene	100-41-4	120	5	10
10943	Toluene	108-88-3	12	5	10
10943	Xylene (Total)	1330-20-7	160	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	8,500	250	5
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	2,000	100	20

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	F122411AA	08/28/2012 12:07	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122411AA	08/28/2012 12:07	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 16:57	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 16:57	Catherine J Schwarz	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 09:54	Elizabeth J Marin	20

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-13-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-13

LLI Sample # WW 6767321
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 14:55 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL13

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	2,000	50	100
10943	Ethylbenzene	100-41-4	340	50	100
10943	Toluene	108-88-3	5,600	50	100
10943	Xylene (Total)	1330-20-7	4,500	50	100
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	35,000	1,300	25
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	8,500	250	50

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	F122421AA	08/29/2012 09:37	Anita M Dale	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122421AA	08/29/2012 09:37	Anita M Dale	100
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 17:22	Catherine J Schwarz	25
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 17:22	Catherine J Schwarz	25
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 10:12	Elizabeth J Marin	50

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-14-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-14

LLI Sample # WW 6767322
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 12:15 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL14

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	890	5	10
10943	Ethylbenzene	100-41-4	600	5	10
10943	Toluene	108-88-3	990	5	10
10943	Xylene (Total)	1330-20-7	2,600	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	22,000	250	5
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	1,200	100	20

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	F122421AA	08/29/2012 09:59	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122421AA	08/29/2012 09:59	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 17:47	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 17:47	Catherine J Schwarz	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 10:31	Elizabeth J Marin	20

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-15-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-15

LLI Sample # WW 6767323
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 10:40 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	5.0	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	F122421AA	08/29/2012 08:11	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122421AA	08/29/2012 08:11	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 13:35	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 13:35	Marie D John	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 03:07	Elizabeth J Marin	1

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-16-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-16

LLI Sample # WW 6767324
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 16:00 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	1,000	100	20

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	F122421AA	08/29/2012 10:21	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122421AA	08/29/2012 10:21	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 14:00	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 14:00	Marie D John	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 10:49	Elizabeth J Marin	20

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-17-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-17

LLI Sample # WW 6767325
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 11:15 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	25	5.0	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	F122421AA	08/29/2012 10:43	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122421AA	08/29/2012 10:43	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 14:25	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 14:25	Marie D John	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 03:49	Elizabeth J Marin	1

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-18-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-18

LLI Sample # WW 6767326
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 11:25 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL18

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	80	5	10
10943	Ethylbenzene	100-41-4	170	5	10
10943	Toluene	108-88-3	310	5	10
10943	Xylene (Total)	1330-20-7	550	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,600	250	5
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	240	5.0	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	F122421AA	08/29/2012 11:05	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122421AA	08/29/2012 11:05	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 18:12	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 18:12	Catherine J Schwarz	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 04:07	Elizabeth J Marin	1

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-19-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-19

LLI Sample # WW 6767327
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 14:00 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL19

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	17	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	2	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	1,300	250	5
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	1,900	50	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	F122421AA	08/29/2012 11:27	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122421AA	08/29/2012 11:27	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 18:38	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 18:38	Catherine J Schwarz	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 13:54	Elizabeth J Marin	10

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-20-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-20

LLI Sample # WW 6767328
LLI Group # 1331240
Account # 10904

Project Name: 211253

Collected: 08/22/2012 14:30 by ML

Submitted: 08/25/2012 10:05
Reported: 09/18/2012 13:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

SPL20

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.	5	10
10943	Ethylbenzene	100-41-4	120	5	10
10943	Toluene	108-88-3	42	5	10
10943	Xylene (Total)	1330-20-7	320	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,800	250	5
GC Miscellaneous	**SW-846 8015B modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	37	5.0	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	F122421AA	08/29/2012 11:48	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122421AA	08/29/2012 11:48	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12241A07A	08/29/2012 19:03	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	12241A07A	08/29/2012 19:03	Catherine J Schwarz	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	122480021A	09/05/2012 05:03	Elizabeth J Marin	1

Quality Control Summary

Client Name: Chevron Group Number: 1331240
Reported: 09/18/12 at 01:27 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: F122411AA	Sample number(s): 6767316-6767320							
Benzene	N.D.	0.5	ug/l	90		77-121		
Ethylbenzene	N.D.	0.5	ug/l	93		79-120		
Toluene	N.D.	0.5	ug/l	93		79-120		
Xylene (Total)	N.D.	0.5	ug/l	92		77-120		
Batch number: F122421AA	Sample number(s): 6767321-6767328							
Benzene	N.D.	0.5	ug/l	90		77-121		
Ethylbenzene	N.D.	0.5	ug/l	92		79-120		
Toluene	N.D.	0.5	ug/l	92		79-120		
Xylene (Total)	N.D.	0.5	ug/l	92		77-120		
Batch number: 12241A07A	Sample number(s): 6767316-6767328							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	116	115	75-135	0	30
Batch number: 122480021A	Sample number(s): 6767317-6767328							
Methane	N.D.	5.0	ug/l	95		80-120		

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: F122411AA	Sample number(s): 6767316-6767320 UNSPK: P767566								
Benzene	102	102	72-134	0	30				
Ethylbenzene	100	101	71-134	2	30				
Toluene	102	103	80-125	1	30				
Xylene (Total)	101	101	79-125	1	30				
Batch number: F122421AA	Sample number(s): 6767321-6767328 UNSPK: 6767323								
Benzene	96	97	72-134	0	30				
Ethylbenzene	95	97	71-134	2	30				
Toluene	97	99	80-125	2	30				
Xylene (Total)	97	98	79-125	1	30				
Batch number: 122480021A	Sample number(s): 6767317-6767328 UNSPK: P766733								
Methane	121	82	35-157	10	20				

*- 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: 1331240
Reported: 09/18/12 at 01:27 PM

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: F122411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6767316	99	97	101	96
6767317	98	97	101	98
6767318	98	98	101	101
6767319	98	97	99	99
6767320	98	96	102	99
Blank	99	97	100	97
LCS	99	100	99	98
MS	99	99	99	99
MSD	96	98	97	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F122421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6767321	101	98	99	97
6767322	97	97	99	96
6767323	99	97	100	95
6767324	98	98	98	95
6767325	99	99	99	95
6767326	98	98	100	98
6767327	98	96	100	99
6767328	99	97	100	97
Blank	99	99	99	95
LCS	99	99	98	97
MS	99	101	99	99
MSD	98	99	100	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12241A07A

	Trifluorotoluene-F
6767316	91
6767317	110
6767318	108
6767319	97
6767320	111
6767321	97
6767322	109
6767323	89
6767324	87
6767325	90
6767326	92
6767327	93
6767328	98
Blank	85

*- 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.

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Quality Control Summary

Client Name: Chevron Group Number: 1331240
Reported: 09/18/12 at 01:27 PM

Surrogate Quality Control

LCS	104
LCSD	105
Limits:	63-135

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 122480021A

	Propene
6767317	96
6767318	89
6767319	83
6767320	97
6767321	95
6767322	94
6767323	75
6767324	103
6767325	31*
6767326	83
6767327	80
6767328	86
Blank	100
LCS	94
MS	83
MSD	80
Limits:	42-131

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. #: 10904 Sample #: 6767316-28 Group #: 010229

Ø82412-Ø2

C# 1331240

Facility #: SS#211253-OML G-R#385867 Global ID#T0600101353
Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA
Chevron PM: CM Lead Consultant: CRATH Hariu
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: MIKE L. FRANK T.

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Matrix: Potable	Matrix: NPDES	Total Number of Containers	BTEX + 8260	BTEX + 8021	TPH 8015 MOD DRO	TPH 8015 MOD GRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	METHANE
QA	8-22-12		X			X					2	X		X	X								
MW-9		1230	X			X					8	X		X	X								X
MW-10		1245	X			X					8	X		X	X								X
MW-11		1300	X			X					8	X		X	X								X
MW-12		1400	X			X					8	X		X	X								X
MW-13		1455	X			X					8	X		X	X								X
MW-14		1215	X			X					8	X		X	X								X
MW-15		1040	X			X					8	X		X	X								X
MW-16		1600	X			X					8	X		X	X								X
MW-17		1115	X			X					8	X		X	X								X
MW-18		1125	X			X					8	X		X	X								X
MW-19		1400	X			X					8	X		X	X								X
MW-20		1430	X			X					8	X		X	X								X

Analyses Requested

Preservation Codes

H H H

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ 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

Comments / Remarks

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

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full **EDF/EDD**
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time
Relinquished by:	8-24-12	0730
Relinquished by:	8-24-12	1330
Relinquished by:	AUG12	1630
Relinquished by Commercial Carrier: UPS FedEx Other		
Temperature Upon Receipt 1.6-4.2 C°		

	Date	Time
Received by:	8-24-12	
Received by:	AUG12	1330
Received by: FEDEX		
Received by:	8/25/12	1006
Custody Seals Intact? Yes No		

eurofins | Lancaster Laboratories

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 of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

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

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

September 18, 2012

Project: 211253

Submittal Date: 08/23/2012
Group Number: 1330707
PO Number: 0015093428
Release Number: MACLEOD
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
MW-9-W-120822 Grab Water	6764465
MW-10-W-120822 Grab Water	6764466
MW-11-W-120822 Grab Water	6764467
MW-12-W-120822 Grab Water	6764468
MW-13-W-120822 Grab Water	6764469
MW-14-W-120822 Grab Water	6764470
MW-15-W-120822 Grab Water	6764471
MW-16-W-120822 Grab Water	6764472
MW-17-W-120822 Grab Water	6764473
MW-18-W-120822 Grab Water	6764474
MW-19-W-120822 Grab Water	6764475
MW-20-W-120822 Grab Water	6764476

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	Conestoga-Rovers & Associates	Attn: Tina Hariu

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Jill M. Parker

Jill M. Parker
Senior Specialist

(717) 556-7262

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-9-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-9

LLI Sample # WW 6764465
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 12:30 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	24,000	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	9,200	500	50

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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601A	08/23/2012 18:49	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601A	08/23/2012 18:49	Christopher D Meeks	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	50

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-10-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-10

LLI Sample # WW 6764466
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 12:45 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	24,400	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	580	10	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 19:34	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/23/2012 19:34	Christopher D Meeks	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	1

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-11-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-11

LLI Sample # WW 6764467
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 13:00 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	59,500	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	1,400	50	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 20:19	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/23/2012 20:19	Christopher D Meeks	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	5

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-12-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-12

LLI Sample # WW 6764468
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 14:00 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	3,200	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	6,400	200	20

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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 20:35	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/23/2012 20:35	Christopher D Meeks	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	20

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-13-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-13

LLI Sample # WW 6764469
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 14:55 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	2,600	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	1,200	50	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 20:50	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/23/2012 20:50	Christopher D Meeks	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	5

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-14-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-14

LLI Sample # WW 6764470
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 12:15 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	145,000	6,000	20
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	1,000	50	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 21:35	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/24/2012 20:12	Christopher D Meeks	20
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	5

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-15-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-15

LLI Sample # WW 6764471
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 10:40 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	2,100	250	5
00228	Sulfate		14808-79-8	267,000	15,000	50
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	N.D.	10	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 21:50	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/24/2012 20:27	Christopher D Meeks	50
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	1

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-16-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-16

LLI Sample # WW 6764472
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 16:00 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	590	250	5
00228	Sulfate		14808-79-8	49,400	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	16	10	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 22:06	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/23/2012 22:06	Christopher D Meeks	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	1

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-17-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-17

LLI Sample # WW 6764473
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 11:15 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	3,700	250	5
00228	Sulfate		14808-79-8	77,400	3,000	10
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	N.D.	10	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 22:21	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/24/2012 20:42	Christopher D Meeks	10
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	1

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: MW-18-W-120822 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-18

LLI Sample # WW 6764474
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 11:25 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	580	250	5
00228	Sulfate		14808-79-8	143,000	6,000	20
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	2,500	100	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 22:36	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/24/2012 20:57	Christopher D Meeks	20
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	10

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-19-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-19

LLI Sample # WW 6764475
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 14:00 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	32,900	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	820	50	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655601B	08/23/2012 22:51	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655601B	08/23/2012 22:51	Christopher D Meeks	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	5

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-20-W-120822 Grab Water**
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-20

LLI Sample # WW 6764476
LLI Group # 1330707
Account # 10904

Project Name: 211253

Collected: 08/22/2012 14:30 by ML

Submitted: 08/23/2012 10:05
Reported: 09/18/2012 13:26

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	234,000	15,000	50
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	2,800	100	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
00368	Nitrate Nitrogen	EPA 300.0	1	12236655902A	08/23/2012 22:58	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12236655902A	08/24/2012 16:31	Christopher D Meeks	50
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12238834402A	08/25/2012 09:20	Daniel S Smith	10

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1330707
Reported: 09/18/12 at 01:26 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: 12236655601A	Sample number(s): 6764465							
Nitrate Nitrogen	N.D.	50.	ug/l	97		90-110		
Sulfate	N.D.	300.	ug/l	95		90-110		
Batch number: 12236655601B	Sample number(s): 6764466-6764475							
Nitrate Nitrogen	N.D.	50.	ug/l	97		90-110		
Sulfate	N.D.	300.	ug/l	95		90-110		
Batch number: 12236655902A	Sample number(s): 6764476							
Nitrate Nitrogen	N.D.	50.	ug/l	101		90-110		
Sulfate	N.D.	300.	ug/l	98		90-110		
Batch number: 12238834402A	Sample number(s): 6764465-6764476							
Ferrous Iron	N.D.	10.	ug/l	100		93-105		

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: 12236655601A	Sample number(s): 6764465 UNSPK: 6764465 BKG: 6764465								
Nitrate Nitrogen	100		90-110			N.D.	N.D.	0 (1)	20
Sulfate	96		90-110			24,000	23,500	2 (1)	20
Batch number: 12236655601B	Sample number(s): 6764466-6764475 UNSPK: 6764466 BKG: 6764466								
Nitrate Nitrogen	94		90-110			N.D.	N.D.	0 (1)	20
Sulfate	90		90-110			24,400	24,100	1 (1)	20
Batch number: 12236655902A	Sample number(s): 6764476 UNSPK: P754297 BKG: P754297								
Nitrate Nitrogen	102		90-110			390	N.D.	200* (1)	20
Sulfate	102		90-110			72,300	70,700	2	20
Batch number: 12238834402A	Sample number(s): 6764465-6764476 UNSPK: P766736 BKG: P766736								
Ferrous Iron	100	98	81-112	2	6	14,600	14,800	1 (1)	5

*- 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

For Lancaster Laboratories use only
Acct. #: 10904 Sample # 6764465-76 Group #: 010228

Grp # 1330707

Facility #: SS#211253-OML G-R#385867 Global ID#T0600101353
Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA
Chevron PM: CM Lead Consultant: CRATH Hariu
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: MIKE L. FRANK T.

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ____	Total Lead Method ____	Dissolved Lead Method ____	Nitrate/Sulfate	Ferrous IRON	#
[redacted]	[redacted]		[redacted]			[redacted]		[redacted]										
MW-9	8-22-12	1230	X			X		3								X	X	
MW-10		1245	X			X		3								X	X	
MW-11		1300	X			X		3								X	X	
MW-12		1400	X			X		3								X	X	
MW-13		1455	X			X		3								X	X	
MW-14		1215	X			X		3								X	X	
MW-15		1040	X			X		3								X	X	
MW-16		1600	X			X		3								X	X	
MW-17		1115	X			X		3								X	X	
MW-18		1125	X			X		3								X	X	
MW-19		1400	X			X		3								X	X	
MW-20		1430	X			X		3								X	X	

Comments / Remarks

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

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full **EDF/EDD**
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	8-22-12	1730	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by:	8-23-12	1005
Temperature Upon Receipt 1.6 C°			Custody Seals Intact? (Yes) No		

eurofins | Lancaster Laboratories

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 of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

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

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

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

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

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

Table 1

Groundwater Monitoring Data and Analytical Results

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

EXPLANATIONS:

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

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

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

ANALYTICAL METHODS:

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

[1] Well development preformed.

[2] Product + water removed.

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

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