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By Alameda County Environmental Health at 10:24 am, Jul 19, 2013



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

July 16, 2013

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

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

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

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

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Carryl MacLeod Project Manager

Attachment: Second Quarter 2013 Groundwater Monitoring and Sampling Report



10969 Trade Center Drive Rancho Cordova, California 95670

Telephone: (916) 889-8900 Fax: (916) 889-8999

http://www.craworld.com

July 16, 2013 Reference No. 060058

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

Re: Second Quarter 2013

Groundwater Monitoring and Sampling Report

Former Texaco Station 211253 930 Springtown Boulevard Livermore, California ACEH Case RO0189

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Quarter 2013 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc. (G-R) of Dublin, California and their *Groundwater Monitoring Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and shown on Figures 2 and 3. Eurofins Lancaster Laboratories' *Analytical Results* report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF SECOND QUARTER 2013 EVENT

On May 20, 2013, G-R monitored and sampled wells per the established schedule. Monitoring wells are divided into three zones based on the screen intervals: shallow zone (wells MW-9, MW-11, MW-14, MW-18, MW-19, and MW-20), intermediate zone (wells MW-10, MW-12, MW-13, MW-16, and MW-17), and deep zone (well MW-15). Groundwater elevation and hydrocarbon concentration maps for the shallow and intermediate zones are illustrated on Figures 2 and 3, respectively.

Equal Employment Opportunity Employer



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Results of the current monitoring event indicate the following:

Groundwater Flow Direction

Northwest Shallow (Figure 2) o Intermediate (Figure 3) Variable

Not Applicable (only 1 well) Deep

Approximate Depth to Groundwater

Shallow Wells 10 to 13 feet below grade (fbg)

11 to 15 fbg Intermediate Wells Deep Well 10.5 fbg

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

	TABLE A: G	ROUNDWA	TER ANALY	TICAL 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								
		Shallo	w Wells										
MW-9		Sar	npled Semi-A	Annually									
MW-11		Sar	npled Semi-A	Annually									
MW-14		Sar	npled Semi-A	Annually									
MW-18	, 11												
MW-19													
MW-20	3,000	< 0.5	1	24	30								
		Interme	diate Wells										
MW-10		Sar	npled Semi-A	Annually									
MW-12		Sar	npled Semi-A	Annually									
MW-13		Sar	npled Semi-A	Annually									
MW-16		Sar	npled Semi-A	Annually									
MW-17	MW-17 <50 <0.5 <0.5 <0.5 <0.5												
Deep Well													
MW-15 Sampled Semi-Annually													
μg/L Microg	rams per liter												

Indicates constituent was not detected at or above stated laboratory reporting limit **ESLs**

Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, November 2007, revised May 2008. - Table F-1a where groundwater is a potential drinking water source

Data in **bold** represent concentrations that exceed applicable ESLs Semi-annual wells are sampled during the first and third quarters



July 16, 2013 Reference No. 060058

Between May 2010 and August 2012, light non-aqueous phase liquid (LNAPL) has been detected in shallow well MW-14 at a maximum thickness of 0.34 feet. In May 2012, an absorbent LNAPL sock was installed in well MW-14 as an interim remedial measure. The LNAPL sock is inspected and replaced (if necessary) on a quarterly basis and field data sheets are presented in Attachment A. On May 20, 2013, no evidence of LNAPL was observed on the absorbent sock in MW-14.

CONCLUSIONS AND RECOMMENDATIONS

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

- Based on groundwater elevation data in shallow, intermediate, and deep monitoring wells it appears groundwater monitored at the three depth intervals is hydraulically connected.
- No LNAPL was detected in MW-14 during the second quarter 2013 event.
- Dissolved hydrocarbon concentrations in site wells are generally stable to declining, although dissolved concentrations in MW-19 this quarter increased in comparison to the previous several quarters.

Wells MW-9 through MW-16 are sampled semi-annually during the first and third quarters. Given recently installed wells MW-17 through MW-20 have been sampled quarterly for six quarters since installation, CRA recommends that these wells also be sampled semi-annually.

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.



July 16, 2013 Reference No. 060058

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Greg Barclay, PG 6260

BS/cw/23 Encl.

Brian Silva

Figure 1 Vicinity Map

Figure 2 Groundwater Elevation and Hydrocarbon Concentration Map –

Shallow Zone

Figure 3 Groundwater Elevation and Hydrocarbon Concentration Map –

Intermediate Zone

Table 1 Groundwater Monitoring and Sampling Data

Attachment A Monitoring Data Package
Attachment B Laboratory Analytical Report

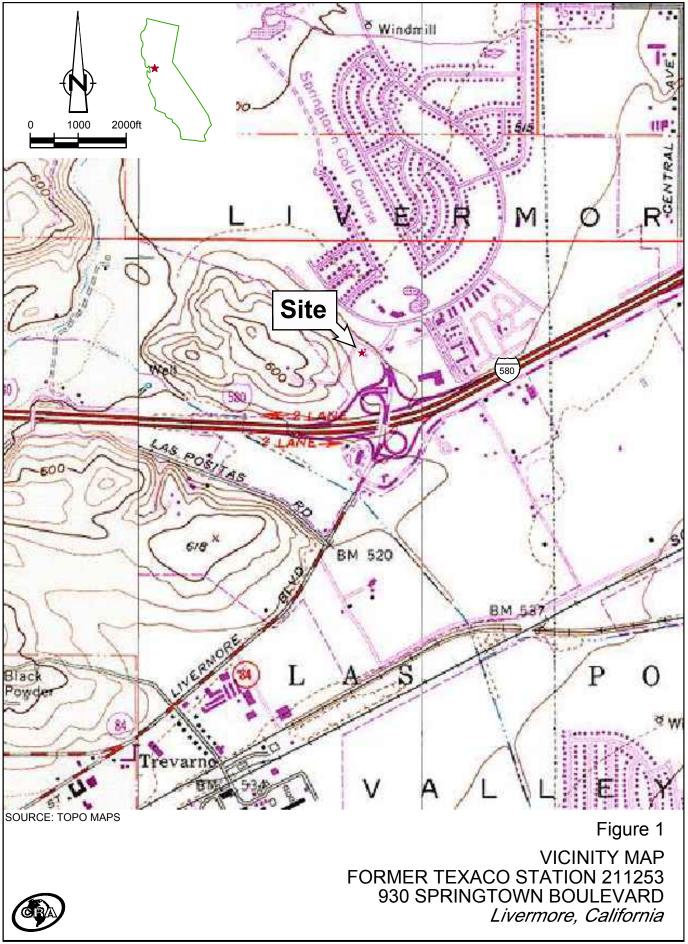
Attachment C Historical Groundwater Monitoring and Sampling Data

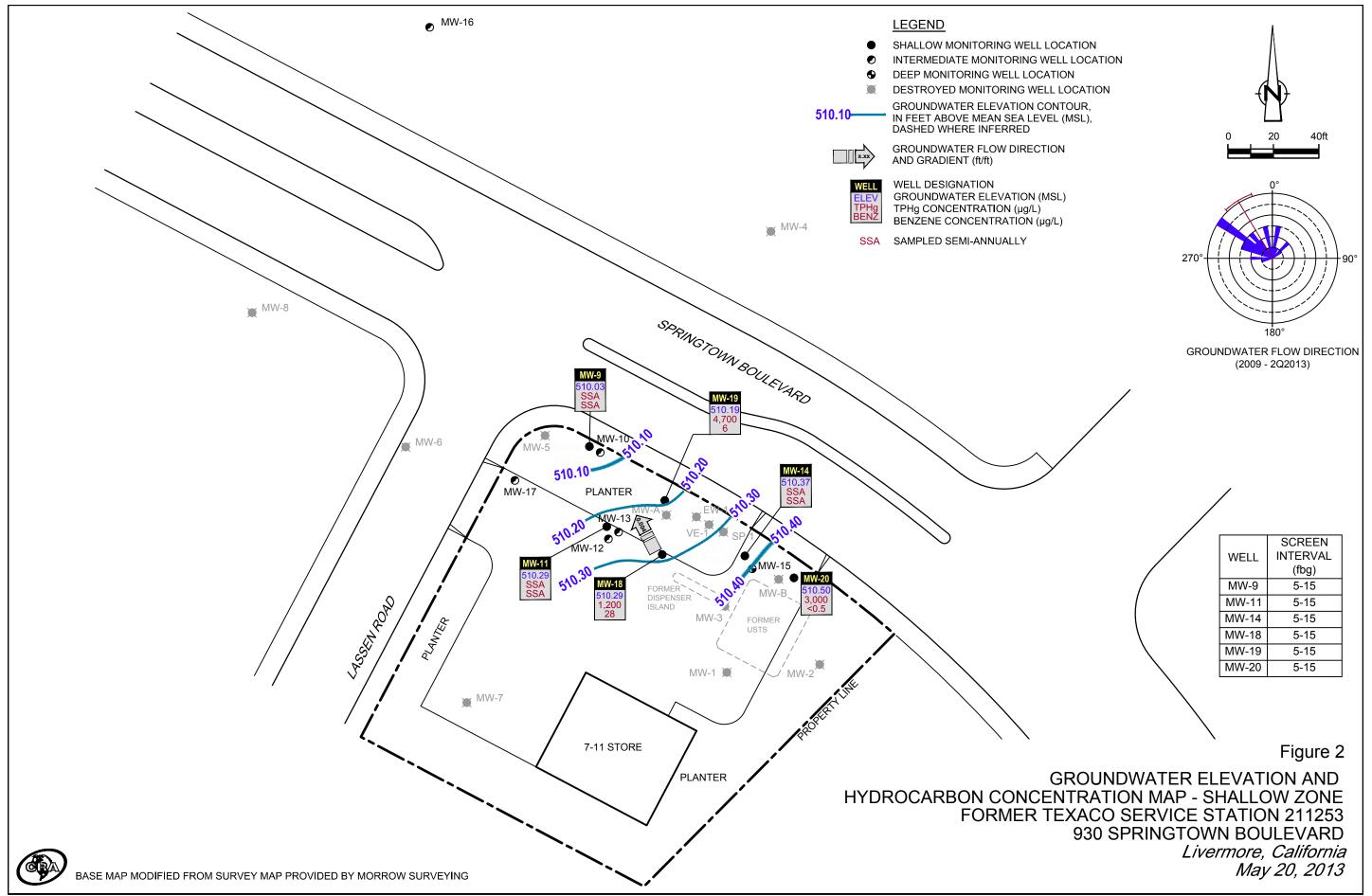
cc: Ms. Carryl MacLeod, Chevron (electronic copy)

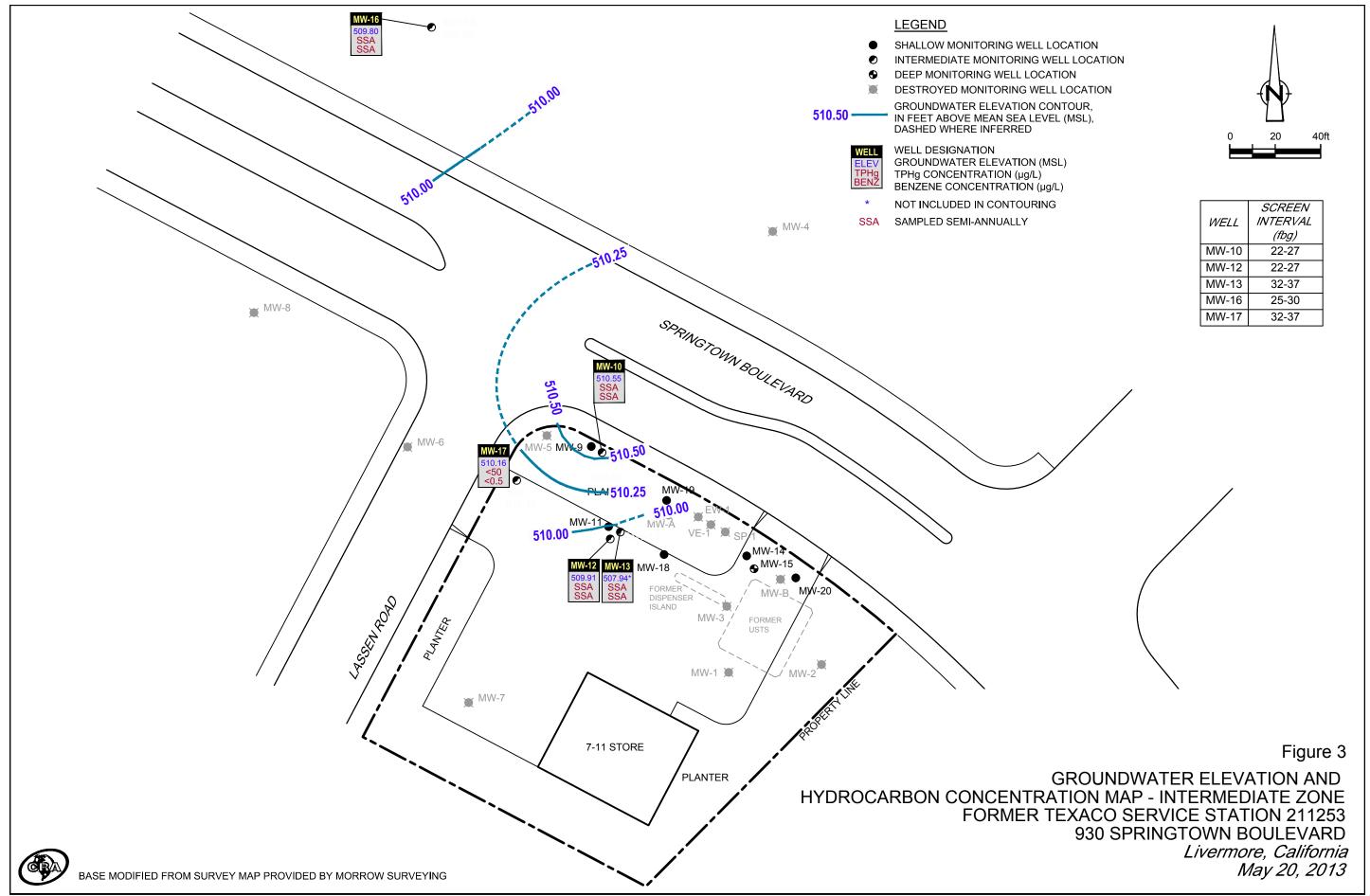
Mr. Joe Zadik Mr. Ken Hilliard

Mr. Kirk F. Sniff, Esq, Strasburger & Price, LLP

FIGURES







TABLE

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			HYDROCARBONS		PRIMAF	RY VOCS		GE	NERAL C	CHEMIST	RY				
Location	Date Units	TOC ft	DTW ft	GWE ft-amsl	t) LNAPLT	suolles	Т Трн-GRO	B µg/L	T µg/L	E µg/L	X µg/L	AMethane	Ferrous iron	Nitrate as Nitrogen	Sulfate
MW-9 ²	08/24/2010	523.14	13.58	509.56	_	_	3,500	6	8	180	79	_	_	_	
MW-9 ²	01/31/2011	523.14	12.31	510.83	_	_	68	<0.5	<0.5	3	<0.5	_	_	_	_
MW-9 ²	08/09/2011	523.14	12.01	511.13	-	-	54	<0.5	<0.5	<0.5	<0.5	_	_	_	_
MW-9 ²	02/09/2012	523.14	13.05	510.09	-	_	5,300	6	7	250	120	_	_	_	_
MW-9 ^{2,5}	05/10/2012	523.14	12.52	510.62	-	-	-	-	_	-	_	_	-	_	_
MW-9 ^{2,5}	08/22/2012	523.14	13.45	509.69	-	-	1,300	<5	<5	8	7	2,900	9,200	<250	24,000
MW-9 ^{2,5}	11/29/2012	523.14	13.30	509.84	-	-	-	-	-	-	-	-	-	-	-
MW-9 ^{2,5}	02/14/2013	523.14	12.70	510.44	-	-	5,200	<5	<5	37	60	-	-	-	-
MW-9 ^{2, 5}	05/20/2013	523.14	13.11	510.03	-	-	-	-	-	-	-	-	-	-	-
MW-10 ³	00 /24 /2010	500.05	12.07	F10.10			1 200	40 F	40 F	2	10.5				
_	08/24/2010	523.25	13.07	510.18	-	-	1,300	<0.5	<0.5	2	<0.5	-	-	-	-
MW-10 ³ MW-10 ³	01/31/2011	523.25	11.92	511.33	-	-	250	<0.5	<0.5	<0.5	<0.5	-	-	-	-
_	08/09/2011	523.25	11.85	511.40	-	-	300	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 ³ MW-10 ^{3,5}	02/09/2012	523.25	12.62	510.63	-	-	140	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 3,5	05/10/2012	523.25	12.26	510.99	-	-	-	-	-	-	-	-	-	-	-
MW-10 3,5	08/22/2012	523.25	13.03	510.22	-	-	600	2	0.7	2	2	670	580	<250	24,400
MW-10 ^{3,5}	11/29/2012	523.25	12.89	510.36	-	-	-				-	-	-	-	-
MW-10 ^{3,5}	02/14/2013 05/20/2013	523.25 523.25	12.31 12.70	510.94 510.55	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
	03/20/2013	323.23	12.70	310.33	_	_	_	_	_	_	_	_	_	_	_
MW-11 ²	08/24/2010	523.42	13.80	509.62	-	-	2,000 J	6	2	9	5	-	-	-	-
MW-11 ²	01/31/2011	523.42	12.35	511.07	-	-	790	1	< 0.5	5	3	-	-	-	-
MW-11 ²	08/09/2011	523.42	12.06	511.36	-	-	130	<0.5	<0.5	0.9	<0.5	-	_	_	-
MW-11 ²	02/09/2012	523.42	13.06	510.36	-	-	220	< 0.5	<0.5	< 0.5	<0.5	-	-	-	-
MW-11 ^{2, 5}	05/10/2012	523.42	12.58	510.84	-	-	-	-	-	-	-	-	-	-	-
MW-11 ^{2, 5}	08/22/2012	523.42	13.50	509.92	-	-	510	< 0.5	<0.5	<0.5	<0.5	760	1,400	<250	59,500
MW-11 ^{2, 5}	11/29/2012	523.42	13.32	510.10	-	-	-	-	-	-	-	-	-	-	-
MW-11 $^{2, 5}$	02/14/2013	523.42	12.72	510.70	-	-	110	< 0.5	< 0.5	<0.5	<0.5	-	-	-	-
MW-11 ^{2,5}	05/20/2013	523.42	13.13	510.29	-	-	-	-	-	-	-	-	-	-	-

TABLE 1 Page 2 of 6

			HYDROCARBONS PRIMARY VOCS								GENERAL CHEMISTRY				
Location	Date Units	TOC ft	DTW ft	GWE ft-amsl	‡ LNAPLT	suollag	TET TPH-GRO	В µg/L	T µg/L	E µg/L	X µg/L	Methane	Ferrous iron	Nitrate as Nitrogen	Sulfate
	2	,,,	,-	<i>y:</i>	,, <u>,</u>	3									
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 MW-12 ³	08/09/2011	523.12	12.19	510.93	-	-	9,000	71	140	170	580	-	-	-	-
MW-12 3,5	02/09/2012	523.12 523.12	13.11 12.71	510.01 510.41	-	-	8,700	85	130	170	590	-	-	-	-
MW-12 3,5	05/10/2012 08/22/2012	523.12	13.44	509.68	-	-	- 8,500	- <5	- 12	120	160	2,000	6,400	<250	3,200
MW-12 3,5	11/29/2012	523.12	13.35	509.66	-	-	6,500 -	-	-	-	160	2,000	6,400	\250	3,200
MW-12 ^{3,5}	02/14/2013	523.12	12.82	510.30	-	-	7,700	20	83	160	500	-	_	-	-
MW-12 3,5	05/20/2013	523.12	13.21	509.91	-	-	-	-	-	-	-	-	-	-	-
2															
MW-13 ³	08/24/2010	520.88	13.69	507.19	-	-	13,000	810	710	76	660	-	-	-	-
MW-13 ³	01/31/2011	520.88	12.21	508.67	-	-	22,000	1,600	1,600	270	1,600	-	-	-	-
MW-13 ³	08/09/2011	520.88	11.91	508.97	-	-	12,000	1,200	820	120	710	-	-	-	-
MW-13 ³	02/09/2012	520.88	12.83	508.05	-	-	18,000	1,600	3,700	370	2,200	-	-	-	-
MW-13 ^{3,5}	05/10/2012	520.88	12.44	508.44	-	-	-	-	-	-	-	-	-	-	-
MW-13 ^{3,5}	08/22/2012	520.88	13.19	507.69	-	-	35,000	2,000	5,600	340	4,500	8,500	1,200	<250	2,600
MW-13 ^{3,5}	11/29/2012	520.88	13.06	507.82	-	-	-	-	-	-	-	-	-	-	-
MW-13 ^{3,5}	02/14/2013	520.88	12.53	508.35	-	-	11,000	380	750	31	1,700	-	-	-	-
MW-13 3,5	05/20/2013	520.88	12.94	507.94	-	-	-	-	-	-	-	-	-	-	-
MW-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	0.23	0.00	_	_	_	_	_	-	_	_	_
MW-14 ²	02/09/2012 1,***	520.88	10.69	510.46	0.17	0.00	-	-	-	-	-	_	_	_	_
MW-14 ^{2,5}	05/10/2012 ^{1,**}	520.88	10.18	510.40	0.26	0.00	_	_	_	_	_	_	_	_	_
MW-14 ^{2,5}	05/30/2012	520.88	10.10	010.71	0.20	0.00	Sorben	nt Sock Insta	lled						
MW-14 ^{2,5}	06/14/2012**	520.88	10.36	510.65	0.16	1.25	-	-	-	-	_	_	_	_	_
MW-14 ^{2,5}	06/25/2012**	520.88	10.44	510.47	0.04	0.98	-	-	-	-	-	-	-	_	_

TABLE 1 Page 3 of 6

							HYDROCARBONS		PRIMAF	RY VOCS		GE	ENERAL (CHEMIST	ΓRΥ
Location	Date Units	TOC ft	DTW ft	GWE ft-amsl	tt LNAPLT	gallons	T TPH-GRO	В µg/L	T µg/L	E µg/L	X µg/L	Methane	Ferrous iron	Nitrate as Nitrogen	Sulfate
		·	·			_									
MW-14 ^{2,5}	07/11/2012**	520.88	10.52	510.41	0.06	1.34	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	07/24/2012**	520.88	10.70	510.20	0.02	0.45	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	08/08/2012**	520.88	13.74	507.16	0.03	0.46	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	08/22/2012	520.88	10.78	510.10	-	0.33	22,000	890	990	600	2,600	1,200	1,000	<250	145,000
MW-14 ^{2,5}	09/04/2012	520.88	10.82	510.06	-	0.16	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	09/21/2012	520.88	10.69	510.19	-	-	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	10/02/2012	520.88	10.65	510.23	-	-	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	10/17/2012	520.88	10.70	510.18	-	-	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	10/29/2012	520.88	10.62	510.26	-	-	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	11/29/2012	520.88	10.68	510.20	-	-	-	-	-	-	-	-	-	-	-
MW-14 ^{2,5}	02/14/2013	520.88	10.22	510.66	-	-	4,200	170	120	61	410	-	-	-	-
MW-14 ^{2, 5}	05/20/2013	520.88	10.51	510.37	-	-	-	-	-	-	-	-	-	-	-
MW-15 ⁴	08/24/2010	520.87	10.81	510.06	-	-	<50	<0.5	<0.5	<0.5	<0.5	_	_	_	-
MW-15 ⁴	01/31/2011	520.87	9.86	511.01	-	-	<50	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-
MW-15 ⁴	08/09/2011	520.87	9.56	511.31	-	-	<50	< 0.5	< 0.5	< 0.5	<0.5	-	-	-	-
MW-15 ⁴	02/09/2012	520.87	10.44	510.43	-	-	<50	< 0.5	< 0.5	< 0.5	<0.5	-	-	-	-
MW-15 4,5	05/10/2012	520.87	10.05	510.82	-	-	-	-	-	-	-	-	-	-	-
MW-15 4,5	08/22/2012	520.87	10.87	510.00	-	-	<50	< 0.5	< 0.5	< 0.5	<0.5	< 5.0	<10	2,100	267,000
MW-15 4,5	11/29/2012	520.87	10.70	510.17	-	-	-	-	-	-	-	-	-	-	-
MW-15 4,5	02/14/2013	520.87	10.16	510.71	-	-	<50	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-
MW-15 4,5	05/20/2013	520.87	10.58	510.29	-	-	-	-	-	-	-	-	-	-	-
MW-16 ³	08/24/2010	520.50	11.07	509.43	-	-	68	<0.5	<0.5	<0.5	<0.5	_	_	_	_
MW-16 ³	01/31/2011	520.50	9.99	510.51	-	_	<50	<0.5	<0.5	<0.5	<0.5	_	_	-	-
MW-16 ³	08/09/2011	520.50	9.59	510.91	-	_	66	<0.5	<0.5	<0.5	<0.5	_	_	_	_
MW-16 ³	02/09/2012	520.50	10.62	509.88	_	_	<50	<0.5	<0.5	<0.5	<0.5	_	_	_	_
MW-16 ^{3,5}	05/10/2012	520.50	10.18	510.32	_	_	-	-	-	-	-	_	_	_	_
MW-16 ^{3,5}	08/22/2012	520.50	11.08	509.42	_	_	<50	<0.5	<0.5	<0.5	<0.5	1,000	16	590	49,400

TABLE 1 Page 4 of 6

							HYDROCARBONS		PRIMARY VOCS GENER				NERAL (ERAL CHEMISTRY		
Location	Date Units	TOC ft	DTW ft	GWE ft-amsl	tt LNAPLT	suolles	Т Трн-GRO	B µg/L	T µg/L	Ε μg/L	X μg/L	Methane	Ferrous iron	Nitrate as Nitrogen	Sulfate	
	Units	Jι	Ji	jt-umst	Jι	gaiions	ry -	ry -	ry -	ry ~	ry ~	ry -	ry -	ry -	ry 2	
MW-16 ^{3,5}	11/29/2012	520.50	10.86	509.64	-	-	-	-	-	-	-	-	-	-	-	
MW-16 ^{3,5}	02/14/2013	520.50	10.27	510.23	-	-	<50	< 0.5	< 0.5	<0.5	< 0.5	-	-	-	-	
MW-16 ^{3,5}	05/20/2013	520.50	10.70	509.80	-	-	-	-	-	-	-	-	-	-	-	
MW-17 ³	02/07/2012	524.81	14.50	510.31					_	_	_					
MW-17 ³	02/07/2012	524.81	14.58	510.23	-	_	<50	<0.5	<0.5	<0.5	<0.5	_	_		_	
MW-17 ³	05/10/2012	524.81	14.10	510.71			<50	<0.5	<0.5	<0.5	<0.5	_	_			
MW-17 ³	08/22/2012	524.81	14.54	510.27	_	_	<50	<0.5	<0.5	<0.5	<0.5	25	<10	3,700	77,400	
MW-17 ³	11/29/2012	524.81	14.75	510.06	_	_	<50	<0.5	<0.5	<0.5	<0.5	39	77	3,200	67,900	
MW-17 ³	02/14/2013	524.81	14.25	510.56	_	_	<50	<0.5	<0.5	<0.5	<0.5	_	-	-	-	
MW-17 ³	05/20/2013	524.81	14.65	510.16	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	
MW-18 ²	02/07/2012	522.40	12.01	510.39	-	-	-	-	_	_	-	-	-	_	-	
MW-18 ²	02/09/2012	522.40	12.06	510.34	-	-	12,000	200	1,300	68	2,200	-	-	_	-	
MW-18 ²	05/10/2012	522.40	11.60	510.80	-	-	6,700	220	390	380	720	-	-	_	-	
MW-18 ²	08/22/2012	522.40	12.50	509.90	-	-	3,600	80	310	170	550	240	2,500	580	143,000	
MW-18 ²	11/29/2012	522.40	12.36	510.04	-	-	2,000	44	25	96	190	320	2,400	<250	117,000	
MW-18 2	02/14/2013	522.40	11.76	510.64	-	-	3,000	130	5	270	160	-	-	-	-	
MW-18 ²	05/20/2013	522.40	12.11	510.29	-	-	1,200	28	47	52	130	-	-	-	-	
MW-19 ²	02/07/2012	522.63	12.30	510.33	-	-	-	-	-	-	-	-	-	_	-	
MW-19 ²	02/09/2012	522.63	12.39	510.24	-	-	6,700	4	<3	18	35	-	-	-	-	
MW-19 ²	05/10/2012	522.63	11.92	510.71	-	-	1,500	< 0.5	< 0.5	0.7	0.9	-	-	-	-	
MW-19 ²	08/22/2012	522.63	12.80	509.83	-	-	1,300	< 0.5	<0.5	17	2	1,900	820	<250	32,900	
MW-19 ²	11/29/2012	522.63	12.64	509.99	-	-	58	< 0.5	< 0.5	<0.5	< 0.5	15	1,800	<250	41,200	
MW-19 ²	02/14/2013	522.63	12.08	510.55	-	-	<50	< 0.5	< 0.5	<0.5	< 0.5	-	-	-	-	
MW-19 ²	05/20/2013	522.63	12.44	510.19	-	-	4,700	6	2	43	7	-	-	-	-	
MW-20 ²	02/07/2012	520.28	9.60	510.68	-	-	-	-	_	-	-	-	-	-	-	

TABLE 1 Page 5 of 6

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

							HYDROCARBONS		PRIMAI	RY VOCS		GI	ENERAL C	HEMIST	RY
Location	Date	тос	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-GRO	В	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-20 ²	02/09/2012	520.28	9.68	510.60	-	_	9,100	3	94	200	600	_	_	_	_
MW-20 ²	05/10/2012	520.28	9.32	510.96	-	-	3,900	<5	28	42	230	-	-	_	-
MW-20 ²	08/22/2012	520.28	10.12	510.16	-	-	4,800	<5	42	120	320	37	2,800	<250	234,000
MW-20 ²	11/29/2012	520.28	9.99	510.29	-	-	4,200	< 0.5	9	41	95	23	11,100	<250	131,000
MW-20 ²	02/14/2013	520.28	9.43	510.85	-	-	2,000	<5	<5	<5	<5	-	-	-	-
MW-20 ²	05/20/2013	520.28	9.78	510.50	-	-	3,000	<0.5	1	24	30	-	-	-	-
QA	08/24/2010	_	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	_	_	_	_
QA	01/31/2011	-	-	-	-	-	<50	< 0.5	<0.5	< 0.5	<0.5	-	-	-	-
QA	08/09/2011	-	-	-	-	-	<50	<0.5	< 0.5	<0.5	<0.5	-	-	-	-
QA	02/09/2012	-	-	-	-	-	<50	<0.5	<0.5	< 0.5	<0.5	-	-	-	-
QA	05/10/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	08/22/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	11/29/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	02/14/2013	-	-	-	-	-	<50	<0.5	< 0.5	<0.5	<0.5	-	-	-	-
QA	05/20/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

 $\mu g/L$ = Micrograms per Liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

TABLE 1 Page 6 of 6

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

							HYDROCARBONS		PRIMAI	RY VOCS		GE	NERAL (CHEMIST	'RY
Location	Date	тос	DTW	GWE	LNAPLT	LNAPL REMOVED	TPH-GRO	В	T	E	X	Methane	Ferrous iron	Nitrate as Nitrogen	Sulfate
	Units	ft	ft	ft-amsl	ft	gallons	$\mu g/L$	$\mu g/L$	$\mu g/L$	µg/L	$\mu g/L$	$\mu g/L$	$\mu g/L$	$\mu g/L$	$\mu g/L$

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)].
- 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



TRANSMITTAL

May 30, 2013 G-R #385867

TO: Mr. Brian Silva

Conestoga-Rovers & Associates 10969 Trade Center Drive, Suite 107 Rancho Cordova, California 95670

FROM: Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568 RE: Former Texaco Service Station

930 Springtown Blvd. Livermore, California

(Site #211253)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Second Quarter Event of May 20, 2013
75	

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

					AALLE C	CHUITIC	MSIAIUS	SHEE			
Client/Facility #:	Chevror	n #211253					Job#:	385867			
Site Address:	930 Spri	ingtown Bl	vd				Event Date:	<u> </u>	5.2	0.13	
City:	Livermo	re, CA			-	-	Sampler:		F-		_
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	REPLACE CAP Y 🚳	WELL VAULT Manufacture/Size/ # of Bolts	Pic

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	REPLACE CAP Y	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y (N)
MW-9	OK						→			Emco (12)2	
MW-10	OK						→				
MW-11	OK						>				
MW- 12	OK	М	DK				→>				
MW-13	OK						→			п	
MW-14	OL										
MW-15	DX						A				
MW-16	OK	-					~				
MW-17	OK						→				
MW-18	OL						7				
MW-19	OK						^				
MW- 20	DIL	-					>	4	4	4 4	
								k)			

Comments _____

STANDARD OPERATING PROCEDURE -GROUNDWATER SAMPLING

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

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

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

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

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

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

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



	V Fi Check if water co	20) + DTW]:	d: 5.29.13 0.02 1"= 0.04 2"= 0.17 3"= 0.3 0.66 5"= 1.02 6"= 1.50 12"= 5.8 0.50 ft. e = Estimated Purge Volume: Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (cine	gal(2400 hrs)ftftftftft
IW- 9 7 ft. 1 ft. 3 vvr Recharge [(Height	Check if water co	Date Monitored plume 3/4"= (plume 3/4"= (plume 4"= (plumn is less then 0	d: 5.25.13 0.02 1"= 0.04 2"= 0.17 3"= 0.3 0.66 5"= 1.02 6"= 1.50 12"= 5.8 0.50 ft. e = Estimated Purge Volume: Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (circles)	gal. (2400 hrs) (2400 hrs) ft ft ft
ft. I ft. XVF Recharge [(Height	Check if water co	olume 3/4"= (loctor (VF) 4"= (lumn is less then 0	0.02 1"= 0.04 2"= 0.17 3"= 0.3 0.66 5"= 1.02 6"= 1.50 12"= 5.8 0.50 ft. e = Estimated Purge Volume: Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (circ	gal(2400 hrs)ftftftftft
ft. ft. xVF Recharge [(Height	Check if water co	decor (VF)	0.02 1"= 0.04 2"= 0.17 3"= 0.3 0.66 5"= 1.02 6"= 1.50 12"= 5.8 0.50 ft. e = Estimated Purge Volume: Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (circ	gal(2400 hrs)ftftftftft
3 (xVFxVF	Check if water co	decor (VF)	0.66 5"= 1.02 6"= 1.50 12"= 5.8 0.50 ft. e = Estimated Purge Volume: Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (cin	gal(2400 hrs)ftftftftft
xVF Recharge [(Height	= of Water Column x 0 Sampling Equipmed Disposable Bailer Pressure Bailer Metal Filters Peristaltic Pump QED Bladder Pump	x3 case volume 20) + DTWJ: ent:	Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (circ	(2400 hrs)(2400 hrs)ftftftft cle one)
Recharge [(Height	of Water Column x 0 Sampling Equipme Disposable Bailer Pressure Bailer Metal Filters Peristaltic Pump QED Bladder Pump	20) + DTW]:	Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (cin	(2400 hrs)(2400 hrs)ftftftft cle one)
	Sampling Equipmon Disposable Bailer Pressure Bailer Metal Filters Peristaltic Pump QED Bladder Pump	ent:	Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (cin	(2400 hrs)(2400 hrs)ftftftft cle one)
	Disposable Bailer Pressure Bailer Metal Filters Peristaltic Pump QED Bladder Pump		Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (cin	(2400 hrs)ftftftft cle one)
	Disposable Bailer Pressure Bailer Metal Filters Peristaltic Pump QED Bladder Pump		Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (circ	ft ft ft ft cle one)
	Pressure Bailer Metal Filters Peristaltic Pump QED Bladder Pump		Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (circ	ft ft ft cle one)
	Metal Filters Peristaltic Pump QED Bladder Pump		Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (cin	n: cle one)
	Peristaltic Pump QED Bladder Pump		Skimmer / Absorbant Sock (cire	cle one)
	QED Bladder Pump			
			Amt Removed from Skimmer:_	nal
			Amt Removed from Well:	
			Water Removed:	
If yes, Ti	me:/V	olume:	gal. DTW @ Sampling: D.O. ORP (mg/L) (mV)	
	G. PRESERV. TY	PE LABORATOR	RY ANALYSES	
x voa viel YES	HCL	LANCASTER	R TPH-GRO(8015)/BTEX(8260)	
	-			
	MI.			
	gpm. If yes, Till gpm. If yes, Till ge (gal.) pH ITAINER REFRI x voa vjal YES	Water Congress Sediment	Water Color: gpm. Sediment Description: with the grade of the	Mater Color: Odor: Y / N gpm. Sediment Description: gal. DTW @ Sampling: gal. DTW



Client/Facility#:	Chevron #21	1253		Job Number:	385867		
Site Address:	930 Springto	wn Blvd	I.	Event Date:	5.2	0.13	(inclusive)
City:	Livermore, C	A	Y	Sampler:	F1		
Well ID	MW- 0		D	ate Monitored:	5.2	0.13	
Well Diameter	4	•					
Total Depth	26.42 ft.		Volume Factor		-	2"= 0.17 3"= 0. 6"= 1.50 12"= 5.	
	12.70 ft.		heck if water column			Volume:	gal.
Depth to Water w			Vater Column x 0.20) +			ed:	
Purge Equipment:		s	ampling Equipment:				(2400 hrs)
Disposable Bailer		D	isposable Bailer			roduct:	
Stainless Steel Bailer			ressure Bailer			ater:	ft
Stack Pump		M	etal Filters			on Thickness:	
Suction Pump		Р	eristaltic Pump		Visual Conf	firmation/Descripti	on:
Grundfos			ED Bladder Pump		Skimmor	Absorbant Sock (c	irolo ana)
Peristaltic Pump		0	ther:		Amt Remov	ed from Skimmer	rde one)
QED Bladder Pump					Amt Remov	ed from Well:	gal
Other:					WaterRem	oved:	941
Start Time (purge) Sample Time/Dat Approx. Flow Rat Did well de-water	te: /	gpm.	Weather Con Water Color: Sediment De:Volum	scription:	Odor: Y / N	Sampling:	
Time (2400 hr.)	Volume (gal.)	рН	Conductivity (µmhos/cm - µS)	Temperature	D.O. (mg/L)	ORP (mV)	
							_
							_
<u> </u>			45054505				
SAMPLE ID	(#) CONTAINER	REFRIG.	LABORATORY IN	LABORATORY		ANALYSES	
MW-	x voa vial	YES ,	HCL HCL	LANCASTER	TPH-GRO(8015)		
	A VOG VIGI		TIOE	BANGAGTER	1111 61(6616)	,D1Dx(0200)	
		(
COMMENTS:			Mb				
	ock:		Replaced Plug:		Add/Replaced		



Client/Facility#:	Chevron #21	1253		Job Number:	r: 385867							
Site Address:	930 Springto	wn Blv	d.	Event Date:	Event Date: 5. 29.13							
City:	Livermore, C	A		Sampler:		_ (inclusive)						
Well ID	MW- 11			Date Monitored:	= 0							
Well Diameter	4 in	-			5.20							
Total Depth	14.60 ft.	-	Volun Facto	ne 3/4"= 0.02 r (VF) 4"= 0.66		'= 0.17 3"= 0.36 = 1.50 12"= 5.86						
Depth to Water	13.13 ft.		Check if water colun			1.00 12 0.00						
	1.47	- Commont	=			olume:	aal					
Depth to Water v		(Height of	Water Column x 0.20)	+ DTWI:	Louinated Farge Vi	olume	yaı.					
	•		,		Time Started	l:	(2400 hrs)					
Purge Equipment:	ŕ		Sampling Equipment:		Time Comple	eted:duct:	(2400 hrs)					
Disposable Bailer			Disposable Bailer		Depth to Wa	ter:						
Stainless Steel Bailer Stack Pump			Pressure Bailer			Thickness:						
Suction Pump			Discrete Bailer Peristaltic Pump			mation/Description						
Grundfos			QED Bladder Pump		Skimmania							
Peristaltic Pump			Other:	/		osorbant Sock (cire d from Skimmer:_						
QED Bladder Pump					Amt Remove	d from Well:	gal					
Other:					Water Remo	ved:						
Sample Time/Dai Approx. Flow Rat Did well de-water Time (2400 hr.)	te:	gpm.	Water Color Sediment De Sediment De Volu Conductivity (µmhos/cm - µS)	escription:	Odor: Y / N jal. DTW @ Sa D.O. (mg/L)	ORP (mV)						
		/	LABORATORY IN	FORMATION								
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY		ANALYSES						
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/B	TEX(8260)						
					48							
						· · · · · · · · · · · · · · · · · · ·						
COMMENTS:			MIO									
Add/Replaced L	ock:	Add	/Replaced Plug:		Add/Replaced	Bolt:						



Site Add/ress: 330 Springtown Blvd. Event Date:	Client/Facility#:	Chevron #21	11253		Job Number:	er: 385867							
New D	Site Address:	930 Springto	own Bive	d.	Event Date:	5.	28-13 (inclusive						
Well ID	City:	Livermore, C	CA		Sampler:			(,					
Volume													
Total Depth 26.66 ft Factor (VF) 3/4 = 0.02 1 = 0.04 2 = 0.17 3 = 0.88 Factor (VF) 4 = 0.05 6 = 0.02 5 = 0.02 5 = 0.03			_		Date Monitored:	8	7.20.13						
Depth to Water			-				2"= 0.17 3"= 0.3	38					
Sample S						 	6"= 1.50 12"= 5.8	30					
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: Purge Equipment:	Depth to Water		-										
Purge Equipment: Disposable Bailer Pressure Bailer Disposable Bailer Pressure Bailer Disposable Bailer Dispo	5 "		_xVF	= ==	x3 case volume =	Estimated Purg	ge Volume:	gal.					
Purge Equipment: Disposable Bailer Disposable Bailer Disposable Bailer Disposable Bailer Disposable Bailer Disposable Bailer Stack Pump Discrete Bailer Stack Pump Discrete Bailer Get Disder Pump Get Disder Pump Other: Start Time (purge): Start T	Depth to Water	w/ 80% Recharge	(Height of	Water Column x 0.20	0) + DTWJ:	— Time St	arted:	(2400 hm)					
Disposable Bailer Stanites Steel Bailer Pressure Bailer Bydmner Absorbari Sock (circle one) Ant Removed fron Kimmer Bydmner Absorbar Bydmner	Purge Equipment:		9	Sampling Equipmen	nt•								
Stainless Steel Bailer Stack Pump Discrete Bailer Nisual Confirmation/Description: Sixfimmer / Absorbant Sock (circle one) Amt Removed from Skimmer: gal Amt Removed from Welt: gal Water Removed: Start Time (purge): Sample Time/Date: // Water Color: Did well de-water? If yes, Time: Did well de-water? If yes, Time: Constictivity I Temperature (2400 hr.) Did well de-water Refrig. ABORATORY INFORMATION SAMPLE ID ANALYSES MW- LABORATORY INFORMATION ANALYSES MW- LABORATORY INFORMATION ANALYSES MW- LABORATORY INFORMATION LABORATORY INFORMATION ANALYSES MW- LABORATORY INFORMATION LABORATORY INFORMATION ANALYSES MW- LABORATORY INFORMATION LABORATORY INFORMATION ANALYSES MW- LABORATORY INFORMATION LABORATORY INFORMATION ANALYSES MW- L						a a							
Stack Pump Suction Pump Grundfos Grundfos Peristaltic Pump QED Bladder Pump Other: Start Time (purge): Sample Time/Date: J Weather Color: Sediment Description: Jolume: Jolume (gal.) Jolume (gal.) SAMPLE ID SAMPLE ID	•	r		•		3		ft					
Grundfos GED Bladder Pump Other: Amt Removed from Skimmer gal Amt Removed from Well: gal Mater Removed Ma	Stack Pump												
Peristatic Pump GED Bladder Pump Other: Start Time (purge):	Suction Pump		F	Peristaltic Pump		Visual C	orfirmation/Description	n:					
Comments: Comm			C	QED Bladder Pump		Skimme	r / Absorbant Sock (cir	rcle one)					
Comments: Amt Removed from Well:gal Water Removed:	•		C	Other:		Amt Ren	noved from Skimmer:	gal					
Start Time (purge): Sample Time/Date: Approx. Flow Rate:	· •					Amt Ren	noved from Well:	gal					
Sample Time/Date:	Other:	·				Water R	emoved:						
Sample Time/Date:													
Approx. Flow Rate:ggm.	Start Time (purge	e):	·	Weather C	conditions:								
Did well de-water? If yes, Time:	Sample Time/Da	te:/		Water Cole	or:	Odor: Y /	N						
Time (2400 hr.) Volume (gal.) pH Condictivity Temperature (C / F) (mg/L) (mV) LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY TPH-GRO(8015)/BTEX(8280) MNV- x voa vial YES HCL LANCASTER TPH-GRO(8015)/BTEX(8280) COMMENTS:	Approx. Flow Rate	te:	gpm.	Sediment	Description:								
COMMENTS: LABORATORY INFORMATION LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES HCL LANCASTER TPH-GRO(8015)/BTEX(8260)	Did well de-water	r? If	yes, Time	:X0	lume:	gal. DTW @	Sampling:						
COMMENTS: LABORATORY INFORMATION LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES HCL LANCASTER TPH-GRO(8015)/BTEX(8260)	Time				·								
SAMPLE ID (#) CONTAMER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- xvoa vial YES HCL LANCASTER TPH-GRO(8015)/BTEX(8260) COMMENTS:		Volume (gal.)	pН										
SAMPLE ID (#) CONTAMER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW-	,			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(• , , ,	(mg/L)	(1117)						
SAMPLE ID (#) CONTAMER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW-		-		/			_	_					
SAMPLE ID (#) CONTAMER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW-								_					
SAMPLE ID (#) CONTAMER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW-								-					
SAMPLE ID (#) CONTAMER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW-								-					
SAMPLE ID (#) CONTAMER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW-				LABORATORY	INFORMATION			<u></u>					
COMMENTS: MIO			REFRIG.										
	MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(801	5)/BTEX(8260)						
		,				ļ							
		I											
Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Boit:	COMMENTS:	127	·	Mlo									
Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:		-											
Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Boit:													
	Add/Replaced L	.ock:	Add/	Replaced Plua:		Add/Replac	ed Bolt:						



Client/Facility#:	Chevron #2	11253		Job Number:	385867					
Site Address:	930 Springto	own Blv	d.	Event Date:	5.20	5.20.13				
City:	Livermore, 0	CA		Sampler:			_ (inclusive) _			
Well ID Well Diameter Total Depth Depth to Water	MW- 13 4 ir 36.62 ft	<u>.</u>	Fac	Date Monitored: ume 3/4"= 0.0 tor (VF) 4"= 0.6 mn is less then 0.50	6 5"= 1.02 6":	"= 0.17 3"= 0.38 = 1.50 12"= 5.80				
	23.68	_xVF	=	x3 case volume =) + DTW]:	Estimated Purge Vo	olume:	gal.			
Purge Equipment:	w oo / Neenarge	S	Sampling Equipmen		Time Started Time Comple Depth to Pro	eted:	(2400 hrs) (2400 hrs)			
Disposable Bailer Stainless Steel Baile			Disposable Bailer		Depth to We	/	ft ft			
Stainless Steel Balle Stack Pump			Pressure Bailer			Thickness:	ft.			
Suction Pump			iscrete Bailer			mation/Description				
Grundfos			eristaltic Pump ED Bladder Pump							
Peristaltic Pump			Other:			bsorbant Sock (circ				
QED Bladder Pump			Allei		Amt Remove	d from Skimmer:_	gal			
Other:						ed from Well: ved:				
W ====================================					Water Remov	ved				
Start Time (purge Sample Time/Da	e):/		Weather C	_	Odor: Y / N					
Approx. Flow Ra	te:	gpm.	Sediment E	Description:	_					
Did well de-water		yes, Time		/ -	gal. DTW @ Sa	ampling:				
Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)				
<u></u>										
		/	LABORATORY	NEODMATION						
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE			ANALYSES				
MW-	x voa ylal	YES	HCL	LANCASTER	TPH-GRO(8015)/B					
COMMENTS:			Mlo							
Add/Replaced L	.ock:	Add/	Replaced Plug:		Add/Replaced I	Bolt:				



Client/Facility#:	Chevron #2	11253			Job Number:							
Site Address:	930 Springto	own Blv	d.		Event Date:	5.	5.20.13					
City:	Livermore, (CA			Sampler:		Er		(inclusive)			
Well ID	MW-14	,		Da	te Monitored:	5.	. 20.13					
Well Diameter	4 ir	<u>i.</u>		Volume	3/4"= 0.0	2 1"= 0.04	2"= 0.17	3"= 0.38				
Total Depth	14.40 ft	<u>.</u>		Factor (V			6"= 1.50	12"= 5.80				
Depth to Water	10.51 ft 3.89				s less then 0.50 x3 case volume =		rae Volume		mal mal			
Depth to Water	w/ 80% Recharge						tarted:		(2400 hrs)			
Purge Equipment:		,	Sampling Equip	ment:		Time C	ompleted:		(2400 hrs)			
Disposable Bailer			Disposable Bailer				o Froduct:					
Stainless Steel Baile	Γ	F	Pressure Bailer	_			o Water:					
Stack Pump		[Discrete Bailer	_			arbon Thickne		ft			
Suction Pump		F	Peristaltic Pump	_		Visual C	Confirmation/D	escription:				
Grundfos		(QED Bladder Pur	np _		Skimme	er / Absorbant	Sock (circle	one)			
Peristaltic Pump		C	Other:		/		moved from Si					
QED Bladder Pump							moved from W					
Other:						Water R	Removed:	·				
				_/	<u> </u>							
Start Time (purge	e):		Weathe	er Cond	itions:							
Sample Time/Da	te: /		Water (Color: /	/ –	Odor: Y /	N					
Approx. Flow Ra		gpm.	Sedime	/_								
Did well de-water):(nal DTW	n Sampling					
		, oo,o		Ju Olalile	" ———	gai. Divv e	g Sampling	•				
Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm -)	•	Temperature (C / F)	D.O. (mg/L)		DRP mV)				
			/									
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. 1		LABORATORY		AMALY	250				
MW-	x voa viai	YES	HCL	ITE	LANCASTER	TPH-GRO(80	ANALYS					
	7.100 / 2.1	, 20	1102		BANCACTER	1111-0110(00	13)/1511127(020	0)				
	- (
			 									
												
					11							
COMMENTS:			Mb									
			SOCK IN	WE	.K							
									·			
Add/Replaced L	ock:	Add	Replaced Plu	1 g :		Add/Replac	ced Bolt:		_			



	Cnevron #2	11255		Job Number:	385867	
Site Address:	930 Springto	own Blvd	ł.	Event Date:	5-20.13	— (inclusive)
City:	Livermore, (CA		Sampler:	FT	·
Well ID	MW- 15			Date Monitored:	E 2512	
Well Diameter	4 ir	_				
Total Depth	45.90 ft		Volum	me 3/4"= 0.0 or (VF) 4"= 0.6		
Depth to Water			 Check if water colum			
	35.32	accessor,			= Estimated Purge Volume:	mal.
Depth to Water	w/ 80% Recharge					yaı. ===========
	•		,		Time Started:	(2400 hrs
Purge Equipment:		S	ampling Equipment	:	Time Completed	
Disposable Bailer			isposable Bailer		Depth to Product: Depth to Water:	ft
Stainless Steel Baile Stack Pump	er		ressure Bailer		Hydrograrbon Thickness:	
Suction Pump			enstaltic Pump		Visual Confirmation/Descripti	
Grundfos			ED Bladder Pump			
Peristaltic Pump			ther:		Skimmer / Absorbant Sock (c Amt Removed from Skimmer	
QED Bladder Pump					Amt Removed from Well:	gai gal
Other:					Water Removed:	
	volume (gal.)		Sediment D	, ·	gal. DTW @ Sampling: D.O. ORP (mg/L) (mV)	
			LABORATORY II	NFORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES	
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)	
			 			
				l l		



Client/Facility#:	Chevron #2	11253		Job	Number:	385867						
Site Address:	930 Springt	own Blv	d	Eve	nt Date:	5.	20.13	(inclusive)				
City:	Livermore, 0	CA		Sam	pler:		FT					
Well ID Well Diameter	MW- \L				onitored:	5.	20.13					
Total Depth	29.19 ft			Volume Factor (VF)	3/4"= 0.02 4"= 0.66		2"= 0.17 3"= 0. 6"= 1.50 12"= 5.					
Depth to Water	10.70 ft		Check if water				7	00				
•	18.49	· · · · · · · · · · · · · · · · · · ·	==				ne Volume:	aal				
Depth to Water	w/ 80% Recharge							gal. (2400 hrs)				
Purge Equipment:		8	Sampling Equip	oment:		Time Co	ompleted:	(2400 hrs)				
Disposable Bailer			Disposable Baile			Depth to	Product:	ft				
Stainless Steel Baile	r	F	Pressure Bailer				Water:					
Stack Pump			Discrete Bailer			Visual C	rbon Thickness:	ft				
Suction Pump			Peristaltic Pump			Visual C	ommation/Descripti	on:				
Grundfos			QED Bladder Pu		/	Skimme	r / Absorbant Sock (c	ircle one)				
Peristaltic Pump QED Bladder Pump		C	Other:			Amt Rer	noved from Skimmer	gal				
Other:							noved from Well: emoved:					
						VValerik	emoved					
Stort Time (nume	۸.		144 (1		<u>/</u>							
Start Time (purge				er Condition:	s:		· · · · · · · · · · · · · · · · · · ·					
	te:/			Color:/		Odor: Y /	N					
Approx. Flow Ra		gpm.		ent Description								
Did well de-water	r? If	yes, Time	:	Xolume:	9	jal. DTW @	Sampling:					
Time (2400 hr.)	Volume (gal.)	pН	Conductivit (µmhos/cm -		erature / F)	D.O. (mg/L)	ORP (mV)	_				
		/	1 4 5 6 5 4 5 6									
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV.		RATION		ANALYSES					
MW-	x voa viał	YES	HCL			TPH-GRO(80	15)/BTEX(8260)					
							(0200)					
			-									
			 	 		·						
COMMENTS:			M	6								
						· · · · · · · · · · · · · · · · · · ·						
Add/Replaced L	.ock:	Add/	Replaced Pl	ug:		Add/Replac	ed Bolt:					



Client/Facility#:	Chevron #211253		Job Number:	385867	
Site Address:	930 Springtown B	lvd.	Event Date:	5.20.13	(inclusive)
City:	Livermore, CA		Sampler:	Fr	
Well ID Well Diameter Total Depth Depth to Water	MW- 17 4 in. 37.05 ft. 14.65 ft. 22.40 xVF	Volum Factor Check if water column CL = 4.78	(VF) 4"= 0.66 in is less then 0.50 x3 case volume = 1	5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80 44.0 gal.
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	w/ 80% Recharge [(Height	of Water Column x 0.20) Sampling Equipment: Disposable Bailer Pressure Bailer Discrete Bailer Peristaltic Pump QED Bladder Pump Other:	+ DTW]: 19.13	Depth to Product: Depth to Water: Hydrocarbon Thickne Visual Confirmation/I	(2400 hrs) ftftftft
Start Time (purge Sample Time/Dat Approx. Flow Rat Did well de-water Time (2400 hr.)	te: 1640 /5.2019 te: 23.5 gpm.	Sediment De	CLEAN_		g: 15.3 \$
		LABORATORY IN	EODMATION		
SAMPLE ID MW-	(#) CONTAINER REFRIC	G. PRESERV. TYPE	LABORATORY	ANALY TPH-GRO(8015)/BTEX(82)	
COMMENTS:					
Add/Replaced L	ock: Ad	dd/Replaced Plug:		Add/Replaced Bolt:	



Client/Facility#: Site Address:	Chevron #21 930 Springto			Job Number: Event Date:	385867 5. 20.\3	 (inclusive)
City:	Livermore, C	A		Sampler:	FT	(
Well ID Well Diameter Total Depth Depth to Water Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	X-7L w/ 80% Recharge	XVF C XVF C I(Height of W Sa Dis Pr Dis QE	Volument Factor Volument Volum	or (VF) 4"= 0.66 nn is less then 0.50 x3 case volume = + DTW]: 12.60	5 5"= 1.02 6"= 1.50 1 oft. Estimated Purge Volume: Time Started:	(2400 hrs)(2400 hrs)ftft s:ft ecription: ock (circle one) mmer:gal
Start Time (purge Sample Time/Da Approx. Flow Ra Did well de-wate Time (2400 hr.)	te:	gpm. yes, Time: pH 752 7.49	Sediment De	: <u>CLEAu</u> escription:	D.O. OF	
SAMPLE ID MW- \8	(#) CONTAINER x voa vial	REFRIG. YES	ABORATORY III PRESERV. TYPE HCL	LABORATORY LANCASTER	ANALYS TPH-GRO(8015)/BTEX(8260	
Add/Replaced L	_ock:	Add/F	Replaced Plug: _		Add/Replaced Bolt:	



Client/Facility#:	Chevron #211253		Job Number:		
Site Address:	930 Springtown Bl	vd.	Event Date:	5.20.13	(inclusive)
City:	Livermore, CA		Sampler:	FT	(
Well ID Well Diameter Total Depth Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	w/ 80% Recharge [(Height	Volum Factor Check if water colum 66 = 1.62	v3 case volume =	5 5"= 1.02 6"= 1.50 12 0 ft. Estimated Purge Volume: 5.	(2400 hrs)(2400 hrs)ftftftftftft
Start Time (purge Sample Time/Da Approx. Flow Rat Did well de-water Time (2400 hr.)	te: 1325 / 5- 20.1 te:gpm.	Sediment Dene: Volur Conductivity (µmhos/cm - (S)	Bru,	SUPPY Odor: DI SL S. SILTY gal. DTW @ Sampling: D.O. ORI (mg/L) (mV	>
SAMPLE ID MW- \9	(#) CONTAINER REFRIC		LABORATORY	ANALYSE	s
MW- 19	🔾 x voa vial YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)	
Add/Replaced L	ock: Ac	id/Replaced Plug:		Add/Replaced Bolt:	



	Client/Facility#:	Chevron #21	11253		Jo	b Number:	385867			
	Site Address:	930 Springto	own Blv	d.	E	ent Date:		20.13	(inclusive)	
	City:	Livermore, C	CA		 Sa	ampler:		2		
_							<u> </u>			
	Well ID	MW- 2c	<u>></u>		Date	Monitored:	2			
	Well Diameter	4	_		Volume	3/4"= 0.02	1"= 0.04	2"= 0.17 3"=	0.38	
	Total Depth	14.92 ft	<u>.</u>		Factor (VF)	4"= 0.66			5.80	
	Depth to Water	9.78 ft	Tonatanical Co.	Check if water						
		5.14					Estimated Pur	ge Volume: 10.	o gal.	
	Depth to Water v	v/ 80% Recharge	(Height of	Water Column >	k 0.20) + DTV	vj: <u>10,8</u> 0	- Time St	arted:	(2400 hm)	
	Purge Equipment:			Sampling Equi	nmant:			ompleted:		
	Disposable Bailer			Disposable Baile			J.	Product:		•
	Stainless Steel Bailer			Pressure Bailer			Depth to	Water:	ft	
	Stack Pump			Metal Filters			Hydroca	rbon Thickness:	ft	
	Suction Pump			Peristaltic Pump			Visual C	onfirmation/Descri	ption:	
	Grundfos			QED Bladder Pu				111 / 12 1	41.1	
	Peristaltic Pump			Other:			Skimme Amt Bor	r / Absorbant Sock	(circle one) er:gal	
	QED Bladder Pump							noved from Well:		
	Other:							emoved:		
							<u></u>			
	Start Time (purge): 1540		Weath	er Condition	one.				
	Sample Time/Dat		5.70.42				Odor: Ø1	UNNY		
					Color:		•		DENATE	
	Approx. Flow Rat		_gpm.		ent Descri			8147		
	Did well de-water	? <u>No</u> If	yes, Time):	_Volume:	9	gal. DTW @	3) Sampling:	10.05	
	Time	\/al::ma /aal \	-11	Conductivi	ity Te	mperature	D.O.	ORP		
	(2400 hr.)	Volume (gal.)	рН	(µmhos/cm -	((((((((((((((((((((C) / F)	(mg/L)	(mV)		
	1547	_35	7.35	695		19.1		_		
	1555	7.0	7.28	705		18.8			_	
	1603	10.0	7.24	712		18.5				
r		/// CANTAINED		LABORATO						
ŀ	SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV.		ABORATORY	TOUL ODO/00	ANALYSES		
ŀ	MW- 20	x voa vial	YES	HCL	L	ANCASTER	TPH-GRO(80	15)/BTEX(8260)		
ŀ										
İ										
								· ····································		
ŀ										
ŀ				-						
L				<u> </u>						
(COMMENTS:									
	_					****				
_										
	Add/Replaced L	ock:	Λ <i>Α</i>	/Replaced P	luar		Add/Replac	and Bolt:		
	Audineplaced L	UUR.	Mua	/Neblaced P	IUU.		Add/Kebia	cea Boit.		

Chevron California Region Analysis Request/Chain of Custody

Lat	ncaster poratories		Ad	cct. #				Gro	oup :	#			caster	Sa	mple	#			-	9	35:	22	(- 10	fl .			
1) Clie Facility #	ent Informati	on				4)	Mat	rix			5			Ar	nalys	es F	Requested						SCR #:				
Facility # SS#211253-OML G-R#	385867 Giol	was pal ID#T00	6001013	53									1 3										5CH #:				
Site Address 930 SPRINGTOWN BLV	D., LIVERM	ORE. CA									'n.												Results in Dry W				
Chevron PM CRASE		Lead Cons Silva			٦	diment	Ground	Surface			Image: second control of the control		Gel Cleanup	Cleanup									Must meet lowes	st detection			
Consultant/Office Getter-Ryan, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568					38	Sed	g	Sul		iners	8260	8260		Gel Cle									compounds 8021 MTBE Con				
Consultant Project Mgr. Deanna L. Harding, (dea	anna@grinc.c	om), (925	551-74	44 x18	80]	Containers		X	ut Silica	Silica G			Method	Method					Confirm highest	hit by 8260			
Consultant Phone # (916) 889-8908 x				г			Potable	NPDES	₹	o	8021	8015	5 without	with		Oxygenates	~						Run oxy	s on highest hit			
Sampler FRANK TERR	apair .			3	site		Pot	₽ []	Number	EKILINI P	0	FPH-DRO 8015	TPH-DRO 8015	Full Scan	Oxyg	ad	d Lead	ř			1	oxy	s on an ilius			
2 Sample Identification	Soil		ected	Grab	Composite	Soil	ater	Water	Water	otal	Total N	BTEX 🐔	TPH-GRO	PH-DR	PH-DR	8260 Fu		Total Lead	Dissolved					6 Rema	uko		
Q		5.20.13	-		9	(O)	W		4	7	XB	X	-	-	80		F						6 Rema	Irks			
- 41					1				7	2				T.									Please forward the lab results directly to the				
MW-	17		1640	X						6	X	X											Lead Consuita	nt and cc:			
MW-	18		1520	X						6	X	X											G-R				
MW-	- 19		1325	X						6	X	X															
MW-	20	A	1625	X			1			6	X	X											200	200			
			. 0																					A 1			
								- 1																			
						_			_																		
			100			10			_			П_															
					-	_		-	4																		
					_			_	-							_											
7 Turnaround Time Reque	sted (TAT) (pla	ese circle)		Relinqu	ished b	by			_		Date			Time			Receiv	ed by					Date	Time (a)			
	day	4 day		7			-					0.13		18	15					RYA.	N TO	- 210/-6	F 105-21-13	Time 9			
	hour	24 hour		Refinqu			H	>			Date	20		Time	ф		Received by Da					22MAY13	Time 1200				
B) Data Package (circle if required) EDD (circle if required) Relinquish					uishe	d by	Comm	ercial	Carr		(L) 2	22-1	0	1-4							Time						
Type I - Full		FLAT (defa		1	PS_			Fed				Oth	ner_			_		,									
Type VI (Raw Data)	Oth	er:			Temperature Upon Receipt°C						No																

7050.03

ATTACHMENT B

LABORATORY ANALYTICAL REPORT



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601 Chevron L4310 6001 Bollinger Canyon Rd. San Ramon CA 94583

June 05, 2013

Project: 211253

Submittal Date: 05/23/2013 Group Number: 1391984 PO Number: 0015118372 Release Number: MACLEOD State of Sample Origin: CA

Client Sample Description	<u>Lancaster Labs (LLI) #</u>
QA-T-130520 NA Water	7067354
MW-17-W-130520 Grab Groundwater	7067355
MW-18-W-130520 Grab Groundwater	7067356
MW-19-W-130520 Grab Groundwater	7067357
MW-20-W-130520 Grab Groundwater	7067358

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	Chevron c/o CRA	Attn: Report Contact
COPY TO ELECTRONIC	Chevron	Attn: Anna Avina
COPY TO	CD A	A., D., C.,
ELECTRONIC COPY TO	CRA	Attn: Brian Silva



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Respectfully Submitted,

fill M. Parker
Senior Specialist

(717) 556-7262



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Sample Description: QA-T-130520 NA Water

LLI Sample # WW 7067354 Facility# 211253 Job# 385867 GRD LLI Group # 1391984 930 Springtown-Livermore T0600101353 Account # 10904

Project Name: 211253

Collected: 05/20/2013 Chevron

L4310

Submitted: 05/23/2013 09:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583 Reported: 06/05/2013 12:28

1253T

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 Vol	latiles	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D131492AA	05/29/2013	12:39	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131492AA	05/29/2013	12:39	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13143C20A	05/26/2013	19:13	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13143C20A	05/26/2013	19:13	Catherine J Schwarz	1



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Sample Description: MW-17-W-130520 Grab Groundwater

Facility# 211253 Job# 385867 GRD 930 Springtown-Livermore T0600101353

LLI Group # 1391984 Account # 10904

LLI Sample # WW 7067355

Project Name: 211253

Reported: 06/05/2013 12:28

Collected: 05/20/2013 16:40 by FT Chevron

L4310

Submitted: 05/23/2013 09:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

25317

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
	latiles	SW-846		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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D131492AA	05/29/2013	13:24	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131492AA	05/29/2013	13:24	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13143C20A	05/26/2013	23:37	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13143C20A	05/26/2013	23:37	Catherine J Schwarz	1



10904

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Sample Description: MW-18-W-130520 Grab Groundwater

LLI Sample # WW 7067356 Facility# 211253 Job# 385867 GRD LLI Group # 1391984 930 Springtown-Livermore T0600101353 Account

Project Name: 211253

Reported: 06/05/2013 12:28

Collected: 05/20/2013 15:20 by FT Chevron

L4310

Submitted: 05/23/2013 09:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

25318

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	28	0.5	1
10943	Ethylbenzene		100-41-4	52	0.5	1
10943	Toluene		108-88-3	47	0.5	1
10943	Xylene (Total)		1330-20-7	130	0.5	1
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	1,200	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D131492AA	05/29/2013	14:32	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131492AA	05/29/2013	14:32	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13150A07A	05/31/2013	01:51	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13150A07A	05/31/2013	01:51	Catherine J Schwarz	1



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Sample Description: MW-19-W-130520 Grab Groundwater

Facility# 211253 Job# 385867 GRD 930 Springtown-Livermore T0600101353

LLI Group # 1391984 Account # 10904

LLI Sample # WW 7067357

Project Name: 211253

Reported: 06/05/2013 12:28

Collected: 05/20/2013 13:25 by FT Chevron

L4310

Submitted: 05/23/2013 09:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

25319

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	6	0.5	1
10943	Ethylbenzene		100-41-4	43	0.5	1
10943	Toluene		108-88-3	2	0.5	1
10943	Xylene (Total)		1330-20-7	7	0.5	1
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	
01728				- -	- -	_
U1/28	TPH-GRO N. CA water	C6-C12	n.a.	4,700	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D131492AA	05/29/2013	14:55	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131492AA	05/29/2013	14:55	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13153A20A	06/02/2013	17:03	Catherine J Schwarz	5
01146	GC VOA Water Prep	SW-846 5030B	1	13153A20A	06/02/2013	17:03	Catherine J Schwarz	5



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Sample Description: MW-20-W-130520 Grab Groundwater

Facility# 211253 Job# 385867 GRD 930 Springtown-Livermore T0600101353 LLI Sample # WW 7067358 LLI Group # 1391984 Account # 10904

Project Name: 211253

Collected: 05/20/2013 16:25 by FT Chevron

L4310

Submitted: 05/23/2013 09:50 6001 Bollinger Canyon Rd. Reported: 06/05/2013 12:28

San Ramon CA 94583

25320

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	24	0.5	1
10943	Toluene		108-88-3	1	0.5	1
10943	Xylene (Total)		1330-20-7	30	0.5	1
GC Vo	latiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	3,000	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D131492AA	05/29/2013	15:18	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131492AA	05/29/2013	15:18	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	2	13153A20A	06/02/2013	16:41	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13153A20A	06/02/2013	16:41	Catherine J Schwarz	1



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Quality Control Summary

Client Name: Chevron Group Number: 1391984

Reported: 06/05/13 at 12:28 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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: D131492AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number N.D. N.D. N.D. N.D. N.D.	er(s): 706 0.5 0.5 0.5 0.5	7354-7067 ug/l ug/l ug/l ug/l	358 84 93 91 95		77-121 79-120 79-120 77-120		
Batch number: 13143C20A TPH-GRO N. CA water C6-C12	Sample numbe	er(s): 706 50.	7354-7067 ug/l	355 91	88	75-135	4	30
Batch number: 13150A07A TPH-GRO N. CA water C6-C12	Sample numbe	er(s): 706 50.	7356 ug/l	94	103	75-135	9	30
Batch number: 13153A20A TPH-GRO N. CA water C6-C12	Sample number N.D.	er(s): 706 50.	7357-7067 ug/l	358 84	87	75-135	4	30

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP Conc	DUP <u>RPD</u>	Dup RPD Max
Batch number: D131492AA	Sample	number(s)	: 7067354	-706735	58 UNSP	K: 7067355			
Benzene	97	88	72-134	10	30				
Ethylbenzene	103	96	71-134	7	30				
Toluene	101	94	80-125	7	30				
Xylene (Total)	105	98	79-125	7	30				

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water

Batch number: D131492AA

Batch num	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7067354	99	95	101	99

*- Outside of specification

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



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Page 2 of 2

Quality Control Summary

Client	Name: Chevron		Group	Number:	1391984
Reporte	ed: 06/05/13 at	12:28 PM	-		
1			Surrogate	Quality	Control
7067355	98	95	99	98	
7067356	98	93	101	99	
7067357	96	94	98	99	
7067358	100	95	100	102	
Blank	98	95	101	98	
LCS	100	100	100	98	
MS	101	101	100	97	
MSD	97	100	100	97	
Limits:	80-116	77-113	80-113	78-113	
	Name: TPH-GRO N. mber: 13143C20A Trifluorotoluene-F	CA water C6-C12			
7067354	84				
7067355	85				
Blank	85				
LCS	107				
LCSD	105				
Limits:	63-135				
	Name: TPH-GRO N. mber: 13150A07A	CA water C6-C12			
	Trifluorotoluene-F				
7067356	95				
Blank	83				
LCS	90				
LCSD	93				
Limits:	63-135				
	Name: TPH-GRO N. mber: 13153A20A	CA water C6-C12			
	Trifluorotoluene-F				
7067357	107				
7067358	158*				
Blank	81				
LCS	102				
LCSD	106				
Limits:	63-135				

*- Outside of specification

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

Chevron California Region Analysis Request/Chain of Custody

eurofins Lancaster Laboratories	Acct. #	109	04	G	F roup Ins	or Eu # struction	rofins 391 ns on re	Lanc 980 verse s	aster / side con	Laboi Sai respond	ratorie mple f d with ci	s use t_70 rcled nu	only 6 mbers.	135	1-58	35:	ユ ス	<u>13</u> -ø2 . lof1
Client Information		(4)	Ma	Matrix			(5)			Analyses Requested					d		•	
acility# WBS SS#211253-OML G-R#385867 Global ID#T06	00101353																	SCR #:
te Address 930 SPRINGTOWN BLVD., LIVERMORE, CA		╗┇		- 1					<u>e</u>									☐ Results in Dry Weight ☐ J value reporting needed
nevron PM Lead Consu CM CRASB Silva	diment	Ground	Surface		S	8260 🔀	8260	Cleanup	Cleanup								Must meet lowest detection limits possible for 8260	
onsultant/Office Getter-Ryan, Inc., 6747 Sierra Court, Suite J, Du	Ψ	Ö	ช		Containers	82	82(ica Gel				g	g				compounds 8021 MTBE Confirmation	
onsultant Project Mgr. Deanna L. Harding, (deanna@grinc.com), (925)) 551-7444 x18	0					8021	15 X	without Silica	Silica Gel		Se l	Method	Metho				Confirm highest hit by 8260
onsultant Phone # (916) 889-8908 x			Potable	NPDES	Air	ber of	80	80	15 with	15 with	S	Oxygenates		g				Run oxy's on highest hi
FRANK TERRIHONI	3	Composite Soil	•	- 1		Number		SRO	TPH-DRO 8015	TPH-DRO 8015	Full Scan	ő	Lead	ved Lead	-			
Sample Identification Soil College Depth Date	ected ਦਿ Time ਹ	Soil		Water	ō	Total	втех	трн-сво	TPH-E	TPH-E	8260 F		Total L	Dissolved 1				6 Remarks
QA 5.20.13		\perp	W			2	X	\times										Please forward the lab
MW-17	1640 X		\Box			6	X	X										results directly to the Lead Consultant and cc:
MW-18	1520 X					9	\boxtimes	X										G-R.
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MW-20 4	1625 X	-	+4			Ø	K,	X								-		
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7 Turnaround Time Requested (TAT) (please circle)	Relinqui	shed by	٠			,,	Date	0.12	3	Time	15	_		ed by				Date Time
Standard 5 day 4 day		27	<u></u>	<u></u>									GE	TLE	2-RY	AN A	RIDGI	E 05-21-13 07-00 Date Time
72 hour 48 hour 24 hour	24 hour			5			Date 05	22-1	13	Time	фg	6	Recei	rea by	Acel	je	_	22M4/13 1250
8 Data Package (circle if required) EDD (circle if re	oquiiou,	uished b	y Cor	merei	al Ca	rrier:	٠,,	ter	Gor	ーユ	274	413	Recei	ed by				Date Time
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Type VI (Raw Data) Other:				ture U	•		•		<i>, </i>		°C				/ Seals	s Inta	ct?	(Yes) No
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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers Inorganic Qualifiers

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	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	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

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

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

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

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

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ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1
Groundwater Monitoring Data and Analytical Results

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

Liverniore, Camornia												
WELL ID/	TOC*	DTW	GWE	SPHT	SPH REMOVED	TPH-GRO	В	Т	E	X		
DATE	(ft.)	(ft.)	(msl)	(ft.)	(gallons)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(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

Livermore, California											
WELL ID/	TOC*	DTW	GWE	SPHT	SPH REMOVED	TPH-GRO	В	Т	E	X	
DATE	(ft.)	(ft.)	(msl)	(ft.)	(gallons)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(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 SAMPLE	D 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	14	<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 (msl) = Mean Sea Level E = Ethylbenzene (ft.) = Feet TPH = Total Petroleum Hydrocarbons X = Xylenes

DTW = Depth to Water GRO = Gasoline Range Organics --- = Not Measured/Not Analyzed

GWE = Groundwater Elevation B = Benzene QA = Quality Assurance/Trip BlankSPHT = Separate Phase Hydrocarbon Thickness T = Toluene $(\mu g/L) = Micrograms per liter$

ANALYTICAL METHODS:

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

- Product + water removed.
- 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.
- 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.

^{*} 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)].

Well development preformed.