

Alexis Fischer Project Manager Marketing Business Unit Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 790-3949 espino@chevron.com

RECEIVED

By Alameda County Environmental Health at 9:07 am, Aug 26, 2014

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

Re:

Chevron Service Station No. 93600

2200 Telegraph Avenue

Oakland, CA

I have reviewed the attached report titled Annual 2014 Groundwater Monitoring and Sampling Report.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This 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,

Alexis Fischer Project Manager

Attachment: Annual 2014 Groundwater Monitoring and Sampling Report



5900 Hollis Street, Suite A Emeryville, California 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

http://www.craworld.com

August 25, 2014

Reference No. 311965

Mr. Mark Detterman Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Annual 2014 Groundwater Monitoring and Sampling Report

Chevron Service Station 93600 2200 Telegraph Avenue Oakland, California

Fuel Leak Case No. RO00002435

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *Annual 2014 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (EMC). Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California and their *Second Quarter 2014 Monitoring* report is included as Attachment A. Groundwater monitoring and sampling data are presented in Table 1. Eurofins Lancaster Laboratories' *Analytical Results* report is included as Attachment B.

RESULTS OF ANNUAL 2014 EVENT

On May 30, 2014, Blaine Tech monitored and sampled the site wells per the established schedule. Results of the current monitoring event indicate the following:

Groundwater Flow Direction Southeast Hydraulic Gradient 0.01

Approximate Depth to Water
 10 to 11 feet below grade

Equal Employment Opportunity Employer



August 25, 2014 Reference No. 311965 -2-

Results of the current sampling event are presented below in Table A:

	TABLE A	A: GROUND	WATER AN	ALYTICAL DATA	A	
	ТРНд	Benzene	Toluene	Ethylbenzene	Total Xylenes	МТВЕ
Well ID	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
WQOs/ESLs	100	1.0	40	30	20	5
MW-1	1,800	<0.5	<0.5	<0.5	<0.5	29
MW-2	<50	< 0.5	<0.5	< 0.5	<0.5	< 0.5
MW-3	<50	<0.5	<0.5	<0.5	<0.5	<0.5
Note:						

- Indicates constituent was not detected at or above laboratory reporting limit. Bold indicates results above the drinking water environmental screening level (ESL).
- Water Quality Objective (Regional Water Quality Control Board San Francisco Bay Region, WQO Water Quality Control Plan (Basin Plan): dated December 31, 2011.)
- ESL Environmental Screening Level (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 2013.)

CONCLUSIONS AND RECOMMENDATIONS

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

- Dissolved-phase petroleum hydrocarbon concentrations detected in well MW-1 are low and decreasing
- All concentrations are below historical maximums

ANTICIPATED FUTURE ACTIVITIES

Closure Activities

The ACEH letter dated August 6, 2014 initiated the landowner and public participation notification process for environmental case closure. Once CRA receives approval from ACEH we will initiate proper well destruction and complete a Well Decommissioning Report as requested.



August 25, 2014

Reference No. 311965

- 3 -

Please contact Nathan Lee at (925) 849-1003 if you have any questions or require additional information.

Regards,

CONESTOGA-ROVERS & ASSOCIATES

Branch Stelken

No. 7564

Brandon S. Wilken, PG 7564

NL/aa/15

Encl.

Figure 1 Vicinity Map

Figure 2 Groundwater Elevation and Hydrocarbon Concentration Map

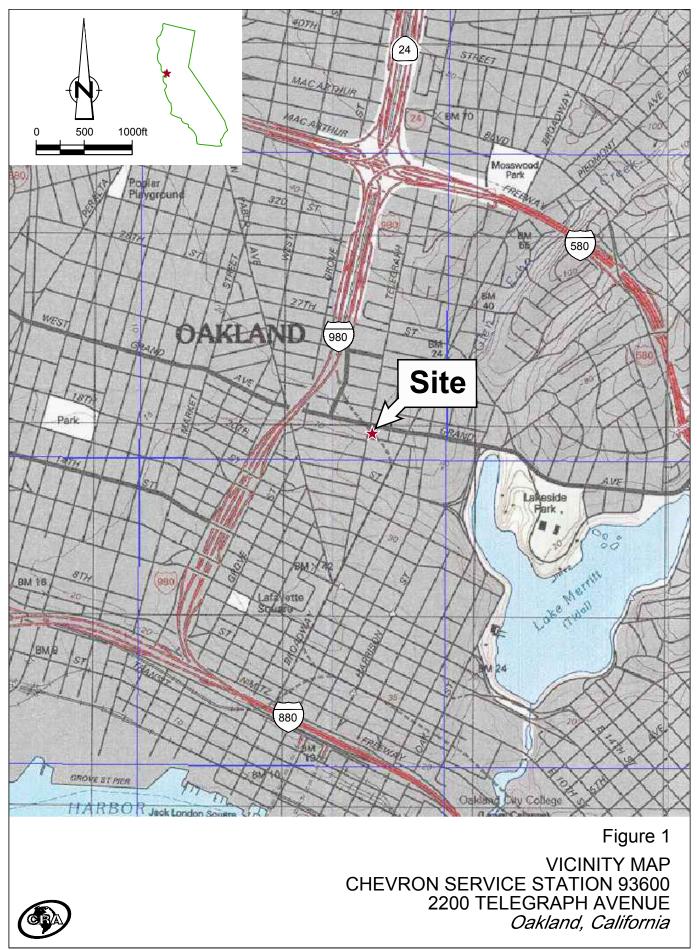
Table 1 Groundwater Monitoring and Sampling Data

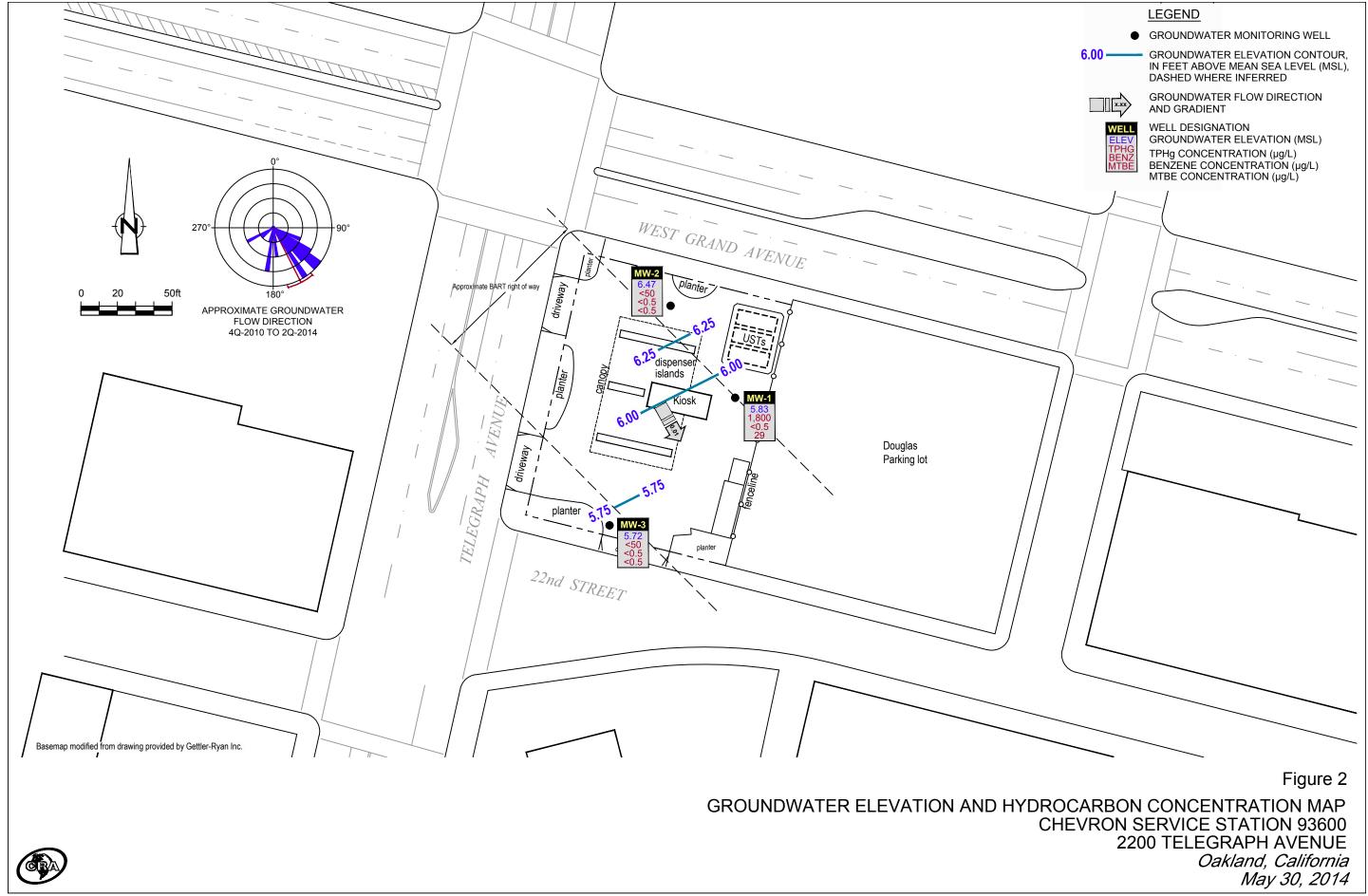
Attachment A Monitoring Data Package
Attachment B Laboratory Analytical Report

cc: Ms. Alexis Fischer, Chevron (electronic copy)

Mr. George Kim, Property Owner

FIGURES





TABLE

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					HYDROCARBONS		PR	IMARY I	/OCS			ADD	OITIONAL V	OCS	
Location	Date	тос	DTW	GWE	TPH-GRO	В	T	E	X	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	μg/L	µg∕L	µg∕L	µg∕L	µg∕L	μg/L	μg L	μg/L	$\mu g/L$	$\mu g/L$	$\mu g/L$
3.674.4	04 (05 (2002)	45.05	11.00	F 20	2 000	5 0	4.0	4.4	0.4	210/250		200	10	10	10
MW-1	04/05/2002 ¹	17.07	11.68	5.39	2,000	5.0	<1.0	14	8.4	310/370	-	200	<2	<2	10
MW-1 MW-1	07/01/2002	17.07	12.01	5.06 4.87	2,000	8.9	<1.0	97	31	420/370	-	190	<2	<2 <2	9
MW-1	10/08/2002	17.07	12.20	5.94	1,400	9.2	<10	75 52	20	360/440	-	110	<2 <2	<2	8 7
MW-1	01/11/2003 04/01/2003	17.07 17.07	11.13 11.53	5.54	1,600 1,800	7.1 5.2	0.51 0.6	53 25	13 9.1	280/270 210/210	-	<100 22	<0.5	<0.5	5
MW-1	$04/01/2003$ $07/01/2003^3$	17.07	11.55	5.12	2,000	3.2	<0.5	31	9.1	170	- <50	26	<0.5	<0.5	5
MW-1	$10/02/2003^3$	17.07	12.25	4.82	480	< 5	<5	<5	<5	9,800	<500	2,600	<5	<5	6
MW-1	$01/05/2004^3$	17.07	11.05	6.02	1,700	3	<0.5	27	4	140	<50	21	<0.5	<0.5	3
MW-1	$04/05/2004^3$	17.07	11.63	5.44	1,500	2	<0.5	21	0.6	120	<50	17	<0.5	<0.5	3
MW-1	$07/01/2004^3$	17.07	12.08	4.99	1,500	1	<0.5	3	<0.5	130	<50	13	<0.5	<0.5	2
MW-1	$10/05/2004^3$	17.07	12.21	4.86	1,400	<0.5	<0.5	1	0.5	130	<50	14	<0.5	<0.5	2
MW-1	$01/04/2005^3$	17.07	11.15	5.92	1,500	<0.5	<0.5	<0.5	<0.5	<0.5	<50	< 5	<0.5	<0.5	<0.5
MW-1	$04/14/2005^3$	17.07	11.20	5.87	2,100	<0.5	<0.5	4	0.5	61	<50	15	<0.5	<0.5	1
MW-1	$07/08/2005^3$	17.07	11.38	5.69	1,800	<0.5	<0.5	0.8	<0.5	71	<50	15	<0.5	<0.5	1
MW-1	$10/27/2005^3$	17.07	12.24	4.83	800	<0.5	<0.5	<0.5	<0.5	76	<50	10	<0.5	<0.5	1
MW-1	$01/12/2006^3$	17.07	11.10	5.97	1,600	<0.5	<0.5	4	<0.5	47	<50	12	<0.5	<0.5	<0.5
MW-1	$04/13/2006^3$	17.07	10.81	6.26	1,500	<0.5	<0.5	1	<0.5	36	<50	8	<0.5	<0.5	0.6
MW-1	$07/13/2006^3$	17.07	11.18	5.89	990	<0.5	<0.5	<0.5	<0.5	44	<50	7	<0.5	<0.5	0.7
MW-1	$10/16/2006^3$	17.07	12.18	4.89	780	<0.5	<0.5	<0.5	<0.5	59	<50	6	<0.5	<0.5	1
MW-1	$01/20/2007^3$	17.07	11.91	5.16	890	<0.5	<0.5	<0.5	<0.5	47	<50	8	<0.5	<0.5	0.8
MW-1	04/11/2007 ³	17.07	11.87	5.20	1,900	<0.5	<0.5	4	<0.5	39	<50	9	<0.5	<0.5	0.7
MW-1	07/27/2007 ³	17.07	11.91	5.16	1,500	<0.5	<0.5	0.6	<0.5	56	<50	8	<0.5	<0.5	0.8
MW-1	10/22/2007 ³	17.07	-	-	610	<0.5	<0.5	<0.5	< 0.5	65	<50	5	<0.5	<0.5	0.7
MW-1	11/26/2007	17.07	11.96	5.11	-	-	-	-	-	-	-	-	-	-	-

TABLE 1 Page 2 of 8

					HYDROCARBONS		PR	IMARY V	/OCS	I		ADD	OITIONAL V	OCS]
Location	Date	тос	DTW	GWE	TPH-GRO	В	T	E	X	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	ТАМЕ
	Units	ft	ft	ft-amsl	$\mu \mathscr{G}_{\mathrm{L}}$	µg∕L	µg∕L	µg∕L	µg/L	μg/L	$\mu \overline{g}_{L}$	µg∕L	$\mu g/L$	μg L	μg/L
'	2														
MW-1	$01/21/2008^3$	17.07	11.78	5.29	1,100	<0.5	<0.5	0.8	< 0.5	48	<50	5	<0.5	<0.5	0.7
MW-1	$04/04/2008^3$	17.07	11.83	5.24	1,600	<0.5	<0.5	<0.5	<0.5	53	<50	6	<0.5	<0.5	0.6
MW-1	$07/21/2008^3$	17.07	12.10	4.97	950	<0.5	<0.5	<0.5	< 0.5	72	<50	11	<0.5	<0.5	0.7
MW-1	10/09/2008 ³	17.07	12.17	4.90	960	<0.5	<0.5	<0.5	<0.5	59	<50	5	<0.5	<0.5	0.5
MW-1	$01/21/2009^3$	17.07	12.15	4.92	840	<0.5	<0.5	<0.5	<0.5	31	<50	5	<0.5	<0.5	0.5
MW-1	04/29/2009	17.07	11.68	5.39	1,800	<0.5	<0.5	3	<0.5	25	<50	5	<0.5	<0.5	<0.5
MW-1	$07/23/2009^3$	17.07	11.85	5.22	1,900	<0.5	<0.5	<0.5	< 0.5	30	<50	4 J	<0.5	<0.5	<0.5
MW-1	01/28/2010	17.07	10.81	6.26	2,600	<0.5	<0.5	2	< 0.5	31	<50	11	<0.5	<0.5	<0.5
MW-1	07/22/2010	17.07	11.76	5.31	4,200	0.5 J	<0.5	3	< 0.5	59	<50	9	<0.5	<0.5	0.6 J
MW-1	01/20/2011	17.07	11.33	5.74	2,500	<0.5	<0.5	2	<0.5	30	<50	4 J	<0.5	< 0.5	<0.5
MW-1	07/18/2011	17.07	11.41	5.66	2,200	<0.5	<0.5	4	< 0.5	55	<50	5	<0.5	<0.5	0.5 J
MW-1	04/02/2012	17.07	10.76	6.31	1,600	<0.5	< 0.5	2	< 0.5	23	<50	3 J	<0.5	<0.5	<0.5
MW-1	05/01/2013	17.07	11.40	5.67	1,500	<0.5	< 0.5	<0.5	< 0.5	38	<50	<2	< 0.5	< 0.5	<0.5
MW-1	05/30/2014	17.07	11.24	5.83	1,800	<0.5	<0.5	<0.5	<0.5	29	<50	2 J	<0.5	<0.5	<0.5
MW-2	$04/05/2002^1$	16.82	11.17	5.65	<50	< 0.50	< 0.50	< 0.50	<1.5	<2/<2.5	-	<100	<2	<2	<2
MW-2	07/01/2002	16.82	11.36	5.46	<50	< 0.50	0.57	0.52	<1.5	<2.5/<2	-	<100	<2	<2	<2
MW-2	10/08/2002	16.82	11.57	5.25	<100	<2.0	<2.0	<2.0	< 5.0	<10/<2	-	<100	<2	<2	<2
MW-2	01/11/2003	16.82	10.94	5.88	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5/<2	-	<100	<2	<2	<2
MW-2	04/01/2003	16.82	11.03	5.79	<50	<0.5	<0.5	<0.5	<1.5	<0.5/<2.5	<50	<5	<0.5	<0.5	<0.5
MW-2	07/01/2003 ³	16.82	11.30	5.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-2	10/02/2003 ³	16.82	11.63	5.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-2	$01/05/2004^3$	16.82	10.82	6.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	< 0.5	<0.5
MW-2	$04/05/2004^3$	16.82	11.21	5.61	<50	< 0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	< 0.5	< 0.5	<0.5

TABLE 1 Page 3 of 8

					HYDROCARBONS		PR	IMARY V	/OCS		<u> </u>	ADD	ITIONAL V	OCS	
Location	Date	тос	DTW	GWE	TPH-GRO	В	T	E	X	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	ТАМЕ
	Units	ft	ft	ft-amsl	μg L	µg∕L	µg∕L	µg∕L	µg∕L	$\mu g/L$	$\mu g/L$	μg/L	$\mu g/L$	μg/L	μg/L
MW-2	$07/01/2004^3$	16.82	11.46	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	< 0.5	<0.5
MW-2	$10/05/2004^3$	16.82	11.57	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	< 0.5	<0.5
MW-2	$01/04/2005^3$	16.82	10.87	5.95	<50	0.5	<0.5	8	0.9	87	<50	14	<0.5	< 0.5	2
MW-2	$04/14/2005^3$	16.82	10.72	6.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	< 0.5	< 0.5	<0.5
MW-2	$07/08/2005^3$	16.82	11.16	5.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	< 0.5	<0.5	<0.5
MW-2	$10/27/2005^3$	16.82	11.59	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	< 0.5	<0.5	<0.5
MW-2	$01/12/2006^3$	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	< 0.5	<0.5	<0.5
MW-2	$04/13/2006^3$	16.82	10.37	6.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-2	07/13/2006 ³	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	< 0.5	<0.5
MW-2	$10/16/2006^3$	16.82	11.48	5.34	<50	<0.5	<0.5	<0.5	<0.5	< 0.5	<50	<5	<0.5	< 0.5	<0.5
MW-2	$01/20/2007^3$	16.82	11.27	5.55	<50	<0.5	< 0.5	<0.5	<0.5	<0.5	<50	<2	< 0.5	<0.5	<0.5
MW-2	$04/11/2007^3$	16.82	11.20	5.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-2	$07/25/2007^3$	-	-	-	-	-	-	-	-	-	<50	<2	<0.5	<0.5	<0.5
MW-2	$07/27/2007^3$	16.82	11.27	5.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
MW-2	$10/22/2007^3$	16.82	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-2	11/26/2007	16.82	11.31	5.51	-	-	-	-	-	-	-	-	-	-	-
MW-2	$01/21/2008^3$	16.82	11.08	5.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-2	$04/04/2008^3$	16.82	11.12	5.70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	< 0.5
MW-2	$07/21/2008^3$	16.82	11.56	5.26	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	< 0.5
MW-2	$10/09/2008^3$	16.82	11.73	5.09	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	< 0.5
MW-2	$01/21/2009^3$	16.82	11.55	5.27	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	< 0.5
MW-2	04/29/2009	16.82	11.06	5.76	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-2	$07/23/2009^3$	16.82	11.30	5.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-2	01/28/2010	16.82	10.23	6.59	<50	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<50	<2	<0.5	<0.5	<0.5

TABLE 1 Page 4 of 8

				j	HYDROCARBONS		PR	IMARY V	OCS			ADD	ITIONAL V	OCS	1
Location	Date	тос	DTW	GWE	TPH-GRO	В	T	E	X	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	ТАМЕ
	Units	ft	ft	ft-amsl	μg/L	µg∕L	µg∕L	µg∕L	µg/L	μg/L	μg L	μg/L	μg/L	μg⁄L	μg/L
NATAT O	07/22/2010	16.00	11.00	F 70	4 50	40 F	40 F	40 F	40. F	40 F	~ E0	-2	<0.F	40. F	-0. F
MW-2 MW-2	07/22/2010	16.82	11.03	5.79	<50	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<50	<2	<0.5 <0.5	<0.5	<0.5 <0.5
	01/20/2011	16.82	10.52	6.30	<50	<0.5		<0.5		<0.5	<50	<2		<0.5	
MW-2	07/18/2011	16.82	10.61	6.21	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-2	04/02/2012	16.82	9.86	6.96	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-2 MW-2	05/01/2013 05/30/2014	16.82 16.82	10.52 10.35	6.30 6.47	<50 < 50	<0.5 < 0.5	<0.5 < 0.5	<0.5 <0.5	<0.5 <0.5	<0.5 < 0.5	<50 < 50	<2 <2	<0.5 < 0.5	<0.5 < 0.5	<0.5 < 0.5
14144-2	03/30/2014	10.02	10.33	0.47	\ 30	\0. 5	~0. 5	\0. 5	~0. 3	~0. 5	\30	~2	\0. 5	~0. 3	\0. 5
MW-3	04/05/2002 ¹	16.52	11.29	5.23	<50	<0.50	0.59	<0.50	<1.5	<2.5/<2	_	<100	<2	<2	<2
MW-3	07/01/2002	16.52	11.55	4.97	<50	<0.50	0.60	< 0.50	<1.5	<2.5/<2	-	<100	<2	<2	<2
MW-3	10/08/2002	16.52	11.62	4.90	<100	<2.0	<2.0	<2.0	<5.0	<2/<10	_	<100	<2	<2	<2
MW-3	01/11/2003	16.52	11.09	5.43	<50	<0.50	<0.50	< 0.50	<1.5	<2.5/<2	-	<100	<2	<2	<2
MW-3	04/01/2003	16.52	11.25	5.27	<50	<0.5	<0.5	<0.5	<1.5	<0.5/<2.5	-	<5	<0.5	<0.5	<0.5
MW-3	07/01/2003 ³	16.52	11.42	5.10	<50	<0.5	<0.5	<0.5	< 0.5	2	<50	<5	<0.5	<0.5	<0.5
MW-3	10/02/2003 ³	16.52	11.74	4.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	01/05/2004 ³	16.52	11.06	5.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	$04/05/2004^3$	16.52	11.40	5.12	<50	<0.5	<0.5	<0.5	<0.5	0.6	<50	<5	<0.5	<0.5	<0.5
MW-3	$07/01/2004^3$	16.52	11.58	4.94	<50	<0.5	<0.5	<0.5	<0.5	0.8	<50	<5	<0.5	<0.5	<0.5
MW-3	$10/05/2004^3$	16.52	11.60	4.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	< 0.5	< 0.5	<0.5
MW-3	$01/04/2005^3$	16.52	10.95	5.57	<50	<0.5	<0.5	<0.5	< 0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	$04/14/2005^3$	16.52	11.10	5.42	<50	<0.5	<0.5	<0.5	< 0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	07/08/2005 ³	16.52	11.29	5.23	<50	<0.5	<0.5	<0.5	< 0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	10/27/2005 ³	16.52	11.68	4.84	<50	<0.5	<0.5	<0.5	< 0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	$01/12/2006^3$	16.52	10.83	5.69	<50	<0.5	<0.5	<0.5	< 0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	$04/13/2006^3$	16.52	10.65	5.87	<50	<0.5	<0.5	<0.5	< 0.5	<0.5	<50	<5	<0.5	<0.5	<0.5

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					HYDROCARBONS		PR	IMARY V	OCS_			ADD	OITIONAL V	OCS	
Location	Date	тос	DTW	GWE	TPH-GRO	В	T	E	X	WTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	$\mu \mathscr{G}_{\mathrm{L}}$	µg∕L	μg/L	µg∕L	µg∕L	$\mu \widetilde{g}$ L	μg L	μg/L	$\mu g/L$	$\mu g L$	μg/L
MW-3	07/13/2006 ³	16.52	11.03	5.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	10/16/2006 ³	16.52	11.46	5.06	<50	<0.5	<0.5	<0.5	<0.5	< 0.5	<50	<5	<0.5	<0.5	<0.5
MW-3	$01/20/2007^3$	16.52	11.39	5.13	<50	<0.5	<0.5	<0.5	<0.5	< 0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	$04/11/2007^3$	16.52	11.27	5.25	<50	<0.5	<0.5	<0.5	<0.5	< 0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	$07/27/2007^3$	16.52	11.38	5.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	$10/22/2007^3$	16.52	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	11/26/2007	16.52	11.35	5.17	-	-	-	-	-	-	-	-	-	-	-
MW-3	$01/21/2008^3$	16.52	11.16	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	< 0.5	<0.5
MW-3	$04/04/2008^3$	16.52	11.15	5.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	< 0.5	<0.5	<0.5
MW-3	$07/21/2008^3$	16.52	11.38	5.14	<50	<0.5	< 0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	$10/09/2008^3$	16.52	11.49	5.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	< 0.5	<0.5	<0.5
MW-3	$01/21/2009^3$	16.52	11.52	5.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	< 0.5	<0.5	<0.5
MW-3	04/29/2009	16.52	11.10	5.42	<50	< 0.5	<0.5	<0.5	< 0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	$07/23/2009^3$	16.52	11.20	5.32	<50	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<50	<2	< 0.5	<0.5	<0.5
MW-3	01/28/2010	16.52	10.41	6.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	07/22/2010	16.52	10.91	5.61	<50	<0.5	<0.5	<0.5	<0.5	1	<50	<2	<0.5	<0.5	<0.5
MW-3	01/20/2011	16.52	10.55	5.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	07/18/2011	16.52	10.43	6.09	<50	<0.5	<0.5	<0.5	<0.5	< 0.5	<50	<2	< 0.5	<0.5	<0.5
MW-3	04/02/2012	16.52	10.22	6.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	05/01/2013	16.52	10.96	5.56	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
MW-3	05/30/2014	16.52	10.80	5.72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<2	<0.5	<0.5	<0.5
Trip Blank	04/05/2002	-	-	-	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5	-	-	-	-	-
Trip Blank	07/01/2002	-	-	-	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5	-	-	-	-	-

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					HYDROCARBONS		PR	IMARY V	/OCS			ADD	OITIONAL V	OCS	
Location	Date	тос	DTW	GWE	TPH-GRO	В	T	E	X	MTBE by SW8260	ETHANOL	TBA	ЭШС	ETBE	TAME
	Units	ft	ft	ft-amsl	μg/L	µg∕L	µg∕L	µg∕L	µg∕L	µg∕L	µg∕L	µg∕L	μg/L	µg∕L	µg∕L
Trip Blank	10/08/2002	-	-	-	<100	<2.0	<2.0	<2.0	<5.0	<10	-	-	-	-	-
Trip Blank	01/11/2003	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-
Trip Blank	04/01/2003	-	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-
Trip Blank	07/01/2003 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$10/02/2003^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$01/05/2004^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	04/05/2004 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$07/01/2004^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$10/05/2004^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	01/04/2005 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	04/14/2005 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	07/08/2005 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$10/27/2005^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	01/12/2006 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	04/13/2006 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$07/13/2006^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	10/16/2006 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$01/20/2007^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	04/11/2007 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$07/27/2007^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	10/22/2007 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$01/21/2008^3$	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	04/04/2008 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$07/21/2008^3$	-	-	-	<50	< 0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-

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GROUNDWATER MONITORING AND SAMPLING DATA FORMER CHEVRON SERVICE STATION 93600 2200 TELEGRAPH AVE OAKLAND, CALIFORNIA

					HYDROCARBONS		PR	IMARY I	OCS			ADD	ITIONAL V	OCS	
Location	Date	TOC	DTW	GWE	TPH-GRO	В	T	E	X	MTBE by SW8260	ETHANOL	ТВА	ЭШС	ETBE	TAME
	Units	ft	ft	ft-amsl	μ <i>g</i> /L	µg/L	µg∕L	µg∕L	µg∕L	µg/L	µg∕L	µg/L	µg/L	µg/L	µg∕L
Trip Blank	10/09/2008 ³	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$01/21/2009^3$	-	-	-	< 50 ⁵	<0.5	<0.5	< 0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	04/29/2009	-	-	-	<50	<0.5	<0.5	< 0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	$07/23/2009^3$	-	-	-	<50	<0.5	<0.5	< 0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	01/28/2010	-	-	-	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	07/22/2010	-	-	-	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	01/20/2011	-	-	-	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	07/18/2011	-	-	-	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5	-	-	-	-	-
Trip Blank	04/02/2012	-	-	-	<50	<0.5	<0.5	< 0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5
Trip Blank	05/01/2013	-	-	-	<50	<0.5	<0.5	< 0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5
Trip Blank	05/30/2014	-	-	-	<50	<0.5	<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

 μ g/L = Micrograms per liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

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GROUNDWATER MONITORING AND SAMPLING DATA FORMER CHEVRON SERVICE STATION 93600 2200 TELEGRAPH AVE OAKLAND, CALIFORNIA

					HYDROCARBONS		PR	RIMARY V	OCS .			ADD	ITIONAL V	'OCS	
Location	Date	тос	DTW	GWE	TPH-GRO	В	T	E	X	MTBE by SW8260	ETHANOL	TBA	запа	ETBE	ТАМЕ
	Units	ft	ft	ft-amsl	µg∕L	µg∕L	µg/L	µg∕L	µg/L	µg∕L	$\mu g/L$	$\mu g/L$	$\mu g/L$	µg∕L	µg∕L

X = Xylenes (Total)

MTBE = Methyl tert butyl ether

TBA = Tert-butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-butyl ethyl ether

TAME = Tert-amyl methyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit</p>

J = Estimated concentration

- Well development performed.
- 3 BTEX and MTBE by EPA Method 8260.
- Laboratory report indicates the original analysis was performed on an instrument where the ending calibration standard failed the method criteria. The sample was originally analyzed approximately 30 minutes after the LCS/LCSD. The LCS/LCSD showed good GRO recovery and the surrogate recovery for this sample was 85%. The sample was reanalyzed from a vial with headspace since only 1 vial was submitted. The results for the original and the reanalysis were similar. The reanalysis was reported.

ATTACHMENT A

MONITORING DATA PACKAGE



June 9, 2014

Chevron Environmental Management Company Alexis Fischer 6101 Bollinger Canyon Rd. San Ramon, CA 94583

> Second Quarter 2014 Monitoring at Chevron Service Station 93600 2200 Telegraph Ave. Oakland, CA

Monitoring performed on May 30, 2014

Blaine Tech Services, Inc. Groundwater Monitoring Event 140530JO2

This submission covers the routine monitoring of groundwater wells conducted on May 30, 2014 at this location. Three monitoring wells were measured for depth to groundwater (DTW). Three monitoring wells were sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

Water levels measurements were collected using an electronic slope indicator. All sampled wells were purged of three case volumes, depending on well recovery, or until water temperature, pH and conductivity stabilized. Purging was accomplished using electric submersible pumps, positive air displacement pumps, or stainless steel, Teflon, or disposable bailers. Subsequent sample collection and sample handling was performed in accordance with EPA protocols. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

Samples were delivered under chain-of-custody to Lancaster Laboratories of Lancaster, Pennsylvania, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to Blaine Tech of San Jose, California.

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Sincerely,

Dustin Becker

Blaine Tech Services, Inc. Senior Project Manager

A Sh

attachments: SOP

Well Gauging Sheet

Individual Well Monitoring Data Sheets

Wellhead Inspection Form

Bill of Lading Calibration Log

cc: CRA

Attn: Nathan Lee

2300 Clayton Rd., Suite 920

Concord, CA 94520

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT CHEVRON SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Chevron comply with Chevron's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Chevron site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. GeoTech). No samples are collected from a well containing product.

TRADITIONAL PURGING & SAMPLING

Evacuation

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

Parameter Stabilization

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

Sample Collection

All samples are collected using disposable bailers.

Sample Containers

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

Dewatered Wells

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewaters and does not immediately recharge.

Measuring Recharge

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed approximately 2 hours to recharge prior to sampling or will be sampled at site departure. All wells requiring off-site traffic control in the public right-of-way, the 80% recharge rule may be disregarded in the interests of Health and Safety. The sample may be collected as soon as there is sufficient water. The water level at time of sampling will be noted.

Dissolved Oxygen Measurements

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 550) or HACH field test kits.

The YSI meters are able to collect accurate in-situ readings. The probe allows downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated

as per the instructions in the operating manual. The probe is lowered into the water column and the reading is allowed to stabilize prior to collection.

Oxidation Reduction Potential Measurements (ORP)

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

LOW FLOW SAMPLING USING SAMPLE-PRO BLADDER PUMP

Calibration

Calibrate YSI Flow Cell as per manufacturer's specifications. Thoroughly rinse probe and cup between parameters. Calibration order as follows:

- 1. pH (use 3-point calibration of 7, 4, 10)
- 2. Oxygen Reduction Potential (ORP)
- 3. Specific Conductance
- 4. Dissolved Oxygen (DO) (calibrate simulating 100% oxygen saturation)

Purging & Sampling Collection

- 1. Insert new bladder into Sample-Pro pump housing.
- 2. Remove dedicated PE tubing from the well or start with new PE tubing cut to the required length.
- 3. Attach the PE tubing to the Sample-Pro Bladder Pump.
- 4. Gently lower the Sample-Pro Bladder Pump, and PE tubing into the well, placing the Sample-Pro Bladder Pump intake at the center of the screened interval. Take care to minimize disturbance to the water column.
- 5. Direct effluent line into YSI 556 Flow Cell.
- 6. Set Sample-Pro Bladder Pump speed at 100 500 ml/min.
- 7. Collect water quality parameter measurements for temperature, pH, conductivity, turbidity, DO and ORP every 3-5 minutes.
- 8. Monitor drawdown during purging with electronic water level meter. Record water level with each parameter measurement. MAXIMUM DRAWDOWN IS 0.33 FEET.
- 9. Collect parameter measurements until stability is achieved. Stability is defined as three consecutive measurements where:

Temp \pm 1 ° Celsius pH \pm 0.1 Conductivity \pm 3% Turbidity \pm 10% NTU DO \pm 0.3 mg/l ORP \pm 10 Mv

- 10. Sample may be collected once stability is achieved and at least one system volume of water removed from the well.
- 11. Disconnect effluent line from YSI 556 Flow Cell.
- 12. Sample through effluent line while maintaining constant flow rate.
- 13. Remove Sample-Pro Bladder Pump, and PE tubing from well.
- 14. Detach and reinstall dedicated PE tubing in well.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous Waste Manifest to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility

TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Duplicates, if requested, may be collected at a site.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label. Field documentation is contemporaneous.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment such as hose reels, pumps and bailers is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is detuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is

facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

WELL GAUGING DATA

Project # 1405 30 - Joz	_ Date	5-30-14	Clien	t <u>Cheurau</u>	7
Site 2200 relegraph Ne	Oaklar	d ca			

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)			Depth to well bottom (ft.)	Survey Point: TOB or	Notes
MW-1	1124	2				11.24	20.06		
	1125	2				10:35	20.00		
MWZ MWZ	1129	2				10.35	70.01	V	



CHEVRON WELL MONITORING DATA SHEET

		•
Station #: 9.	-3600	
Data		ď
		750
Well Diameter	r: 🗘 3 4	6 8
Depth to Wate	er: 1(-24	
Thickness of F	ree Product (fe	et):
-		YSI HACH
Column x 0.20) + DTW]:	13.00
Other:	Disposable Bailer Extraction Port Dedicated Tubing : ter Multiplier Well	Diameter Multiplier
Gals. 1"	0.04 4" 0.16 6"	0.65
olume 3"	0.37 Othe	er radius ² * 0.163
Turbidity (NTUs)	Gals. Removed	Observations
Noov	1.4	O O O O O O O O O O O O O O O O O O O
7000	2.9	
7:000	4.2	
		,
Gallons actuall	ly evacuated:	4.2
e: 1247	Depth to Water	
Laboratory:	Lancaster Oth	her
Other:	500 000	
		0.1
TPH-G BTEX M	MTBE OXYS	Other:
TPH-G BTEX M		Other:
	Station #: 9. Date: 5-30 Ambient Air T Well Diameter Depth to Wate Thickness of F D.O. Meter (if Column x 0.20 Sampling Method: Other: "" 2" 3" Turbidity (NTUs) >loov 7000 Gallons actuall e: 240 Laboratory:	Ambient Air Temperature: Well Diameter: 2 3 4 Depth to Water: 1 24 Thickness of Free Product (feet D.O. Meter (if req'd): Column x 0.20) + DTW]: Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: Well Diameter Multiplier Well 2" 0.16 6" 3" 0.37 Other 1" 0.37 Other 1" 0.44 Turbidity (NTUs) Gals. Removed 1.4 Toou 2.6 Toou 2.6

CHEVRON WELL MONITORING DATA SHEET

1										
Project #	: 14053	0 102		Station #: 9-3600						
Sampler:				Date: 5-30-14						
Weather:	dew			Ambient Air Temperature:						
Well I.D.	: MW-Z			Well Diameter: 2 3 4 6 8						
Total We	ll Depth:	20	00	Depth to Wate	er: 10.35					
Depth to	Free Produ		***		Free Product (fe	et):				
Reference	ed to:	(FVG)	Grade	D.O. Meter (if	req'd):	YSI HACH				
DTW wit	h 80% Red	charge [(H	Height of Water	Column x 0.20) + DTW]:	2.26				
Purge Method: Bailer Waterra Disposable Bailer Peristaltic Positive Air Displacement Extraction Pump Electric Submersible Other				Sampling Method: Disposable Bailer Extraction Port Dedicated Tubing Other:						
1 -	(0.1.)	~		Well Diamet	0.04 4" 0.16 6"	Diameter Multiplier 0.65				
l Case Volum	_(Gals.) X _ ne Sp	3 ecified Volur	$= \frac{45}{\text{nes}}$	_ Gals.	0.10 8 0.37 Othe	1.47 r radius ² * 0.163				
Time	Temp (°F)	pН	Cond. (mS or (LS)	Turbidity (NTUs)	Gals. Removed	Observations				
いら(693	7.00	1026	Yacu	1.5					
1153	64.3	6.94	1024	7000	30					
1155	69.3	6.91	1024	7(000	4.5					
				·		,				
Did well	dewater?	Yes	(No)	Gallons actual	y evacuated:	4.5				
Sampling	Date: \$	-30-14	Sampling Time	e: (200	Depth to Water	_				
Sample I.	D.: MW	2		Laboratory:	Lancaster Otl					
Analyzed	for: TPH-	G BTEX	MTBE OXYS	Other:	ee coc					
Duplicate	I.D.:		Analyzed for:		MTBE OXYS	Other:				
D.O. (if re	eq'd):		Pre-purge:	mg/ _L	Post-purge:	mg/L				
O.R.P. (if	req'd):		Pre-purge:	mV	Post-purge:	mV				
										

Blaine Tech Services, Inc., 1680 Rogers Avenue, San Jose, CA 95112 (408) 573-0555

CHEVRON WELL MONITORING DATA SHEET

: 140530	1-102		Station #: 9-	-3600					
40			Date: 5-3	>0 ~14	y				
clean					7507				
:: MW-3									
ll Depth:	20.01								
Free Produ	ict: 20.	ot	† ·		et): —				
ed to:	(PVC)	Grade			YSI HACH				
h 80% Rec	charge [(H	leight of Water	Column x 0.20) + DTW]: 1/2	2.64				
Positive Air D	ailer / Displacement	Waterra Peristaltic Extraction Pump Other	Sampling Method: Disposable Bailer Extraction Port Dedicated Tubing Other:						
	***************************************	= 4.2 nes Calculated Vo	Gals. 1"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47				
Temp (°F)		Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations				
69.7	6.94	906	71000	1.4					
69.6	6.92	794 .	7000	2%					
69.6	6.90	790	71000	4.2					
dewater?	Yes	Ño	Gallons actuall	y evacuated:	4.2				
D-4-									
Date: 9.	30-14	Sampling Time	e: 1270	Depth to Water	r: 11.00				
	30-14 W-3.		Laboratory:	Depth to Water Lancaster Oth	11:00				
	w-3.			Lancaster Oth	11:00				
D.: M	w-7 . -G BTEX		Laboratory: Other: 524 TPH-G BTEX M	Lancaster Oth (8) MTBE OXYS	Other:				
D.: M	w-7 . -G BTEX	MTBE OXYS	Laboratory: Other: See TPH-G BTEX M	Lancaster Oth (8) MTBE OXYS	ner				
	clay clay clay clay clay clay clay clay	clean cl	Claus : MW-3 Il Depth: Zo.of Free Product: Zo.of ed to: PVC Grade th 80% Recharge [(Height of Water od: Bailer Waterra Disposable Bailer Peristaltic Positive Air Displacement Extraction Pump Electric Submersible Other (Gals.) X 3 = 4.2 Calculated Volumes Calculated Volumes of US) Free Product: Zo.of Grade Waterra Disposable Bailer Peristaltic Cond. (ms or us) Gals.) X 3 = 4.2 Calculated Volumes Calculated Volumes Gals.	Ambient Air T Well Diameter	Date: S-30-14 Ambient Air Temperature: Well Diameter: 2 3 4 Il Depth: Zoot Depth to Water: 10 00 Free Product: 20 of Thickness of Free Product (feed to: PvC Grade D.O. Meter (if req'd): h 80% Recharge [(Height of Water Column x 0.20) + DTW]: od: Sampling Method: Bailer Disposable Bailer Peristaltic Extraction Port Dedicated Tubing Delectric Submersible Other Other: (Gals.) X 3 = 12 Z Gals. 2 Gals. Removed Gals. Specified Volumes Calculated Volume Cond. Turbidity (NTUs) Gals. Removed Gallons actually evacuated:				

Blaine Tech Services, Inc., 1680 Rogers Avenue, San Jose, CA 95112 (408) 573-0555

COC Revision 12, 05/29/14

\ of !		Preservation Codes	H =HCL T= Thiosufate	N=HNO, B = NaOH	S = H ₂ SO ₄ O =	Other			Special	detection limit by 8267				Notes/Comment s				NO CX15			27 [And the state of t	
200 8	ANALYSES REQUIRED	7		701/7	VO 20						NOF	AHT∃ G-H۹T	097	8 A93	×	X	×				48 hours□	Sample Integrity: (Check by lab on arrival)	COC #
94583	ALYSES I						`E14 '		<u> </u>	TIVITOU		SPECIFIC S									: : 24 Hours□	Check by	
on, CA		1 1			YITY:		310.1 310.1		ш о	SJAT∃M	E 22	1TIT 0007 □ H9		EPA1							Turnaround Time: Standardki 24 H Hours□ Other□	ntegrity: (On Ice.
n Ram			······································		***************************************					 Mn, Ma		3 BTEX (Ca, Fe, K									Turnarou Standard Hours	Sample I	mraci.
d.⊠ Sa		<u>+</u>	-	<u>п</u> ос	HAC		JE NATE	OBC	0 0 1 C OX	ਗ੍ਰੰਭarw yaq	30包 点	S/GC/WS		2 A 4 3 2-H 9 T 8 A 9 3	×	X X	×	У Х	·		b		
ODY FORM Canyon R									Temp. Blank Check Time Temp.					Container Type	215		×	→			Time 133		ime
CUST(Concord		. 2	1405 50 JOZ	Services	2400		Time					Cont	Ve						Date/Time	Date/Time	Date/Time
CHAIN OF ny ■ 6111 Bo	ant: CRA	ton Rd Suite 920	Itact: Nathan Lee	Phone No. 925-849-1003	1 No. 1405	NY: Blaine Tech	t):	ei.	Other Lab					# of Containers	<u>ئ</u>			7			Company	Company	Company
ダろみり∀−ダ(Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd.■ San Ramon,	Chevron Consultar	Address: 2300 Clayton Bd. Suite 920 Concord	caConsultant Contact: Nathan Lee	Consultant Phone	Consultant Project No.	Sampling Company: Blaine Tech Services	Sampled By (Print):	Sampler Signature:	Lancaster Laboratories	⊠ Lancaster, PALab Contact: Nicole	Maljovec	2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300		Sample Time	1240	1200	1220	1(22)			Relinquished To	Relinquished To	Relinquished To
onmental Man			.e.,				BU) Job	gor (n	ML - WBS	REMEDIATION IMPLEMENTATION: R5L OPERATION MAINTENANCE & MONITORING: M1L	MUST BE FILLED OUT			th (yymmdd)	1405A)			~			Date/Time: 5-50- /H/ 1330	Date/Timę	Date/Time
, Envir		61613	legraph Av			10-6441	Unit (RT		247-0-0 JMBER-0	in Implemen Maintenan	L FIELDS		Ш П	Top Depth								any	any
14-B	er: 93600	ID: T060016 is: 2200 Tele ischer Vo.: (925)796 al Business il Job			RTB-0098 00SITE NU	de: NWRTB-0098247-0-OML NWRTB 00SITE NUMBER-0- WBS: IMENTS: IENT: A1L REMEDIATION IMPLEMENTATION ING: OML OPERATION MAINTENANCE & M IGGAL DOCUMENT: ALL FIELDS MUSTE CORRECTLY AND COMPLETELY.		SAMPLEID	Matrix	3		 7	1-			Company	Company	Company					
DE 390	Crievron Site Number: 93600	Chevron Site Global ID: T0600161613	Chevron Site Address: 2200 Telegraph Ave.	Oakland, CA	Chevron PM: Alexis Fischer	Chevron PM Phone No.: (925)790-6441	⊠ Retail and Terminal Business Unit (RTBU) Job ⊠ Construction/Retail .loh		Charge Code: NWRTB-0098247-0-OML NWRTB 00SITE NUMBER-0-W (WRS FI FMFNTS.	SITE ASSESSMENT: A1L SITE MONITORING: OML	THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETE! Y			Field Point Name	Mbv - 1	1VW.7	MW.5	さの			Reinquished By	Kelinquished By	Relinquished By

WELLHEAD INSPECTION CHECKLIST

Page of j

Client <u>دلى.</u>	W6~7						Date	5-3	0-14	
Site Address	<u> 2200</u>	Telegi.	uph Ave		onland	<u>C4</u>	***************************************			
Site Address Job Number	14053	0-202	\			Techi	nician _.	<u> </u>		
Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1			V					×		×
MW2		×	$\langle \langle \rangle$					X		X
Mu.3	×	, ×	× ×							
								!		
		·								
NOTES:	1. wM	112	Taks B	oken.	112	tals s	HDOO	``	Mu-z	212
7:00	bagine									
	***************************************					· · · · · · · · · · · · · · · · · · ·				······································
				····						***************************************

SOURCE RECORD **BILL OF LADING**FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUNDWATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN SAN JOSE, CALIFORNIA FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 1680 Rogers Ave. San Jose CA (408) 573-0555). BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

9-3600			Alexis	Fisher
CHEVRON #			Chevron Eng	jineer
2200	Telegraph	Ave	Onkland	LA
street number	r ^l street	•	city	state

WELL I.D. GALS.	WELL I.D. GALS.
Mw.2 , 4.5	
Mw.3 / 4!2	
added equip. rinse water / O a	any other adjustments /
TOTAL GALS. RECOVERED 40	loaded onto BTS vehicle #
BTS event # ハリングルー シャン Transporter signature	time date 5 / 30/ 14
REC'D AT	**************************************
Unloaded/received by signature	

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAM	NE CHERN	9.3600		PROJECT NUM	MBER 140530	501	
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
myron L VIHAC Meter II	6222914	5-30-14 6200	7,10,4 3100	701,10.00,4.01 23100M	ILES	(7%	1
				-	**		
				,			
		·					
					\$··		

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

August 01, 2014

Project: 93600

Submittal Date: 05/31/2014 Group Number: 1478464 PO Number: 0015154133 Release Number: FISCHER

State of Sample Origin: CA

 Client Sample Description
 Lancaster Labs (LL) #

 MW-1-W-140530 NA Water
 7483684

 MW-2-W-140530 NA Water
 7483685

 MW-3-W-140530 NA Water
 7483686

 QA-T-140530 NA Water
 7483687

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

ELECTRONIC Chevron c/o CRA Attn: Report Contact COPY TO Blaine Tech Services, Inc. **ELECTRONIC** Attn: Dustin Becker COPY TO **ELECTRONIC** Chevron Attn: Anna Avina COPY TO Attn: Ian Hull **ELECTRONIC CRA** COPY TO **ELECTRONIC** CRA Attn: Nathan Lee COPY TO

Analysis Report

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

Respectfully Submitted,

Nicole L. Maljovec Principal Specialist Group Leader

(717) 556-7259



Lancaster Laboratories Environmental

Analysis Report

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

Sample Description: MW-1-W-140530 NA Water

Facility# 93600 BTST

2200 Telegraph-Oakland T0600161613

LL Sample # WW 7483684

LL Group # 1478464 Account # 10991

Project Name: 93600

Collected: 05/30/2014 12:40 by JO Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 05/31/2014 10:00 Reported: 08/01/2014 12:52

TA001

CAT No.	Analysis Name		CAS Number	As Rec Result	ceived	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l		ug/l	ug/l	
10943	t-Amyl methyl ether		994-05-8	N.D.		0.5	1	1
10943	Benzene		71-43-2	N.D.		0.5	1	1
10943	t-Butyl alcohol		75-65-0	2	J	2	5	1
10943	Ethanol		64-17-5	N.D.		50	250	1
10943	Ethyl t-butyl ether		637-92-3	N.D.		0.5	1	1
10943	Ethylbenzene		100-41-4	N.D.		0.5	1	1
10943	di-Isopropyl ether		108-20-3	N.D.		0.5	1	1
10943	Methyl Tertiary Buty	yl Ether	1634-04-4	29		0.5	1	1
10943	Toluene		108-88-3	N.D.		0.5	1	1
10943	Xylene (Total)		1330-20-7	N.D.		0.5	1	1
GC Vol	latiles	SW-846	8015B	ug/l		ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	1,800		50	100	1

General Sample Comments

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

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D141571AA	06/06/2014 19:23	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D141571AA	06/06/2014 19:23	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14156A20A	06/06/2014 22:52	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14156A20A	06/06/2014 22:52	Miranda P Tillinghast	1



Lancaster Laboratories Environmental

Analysis Report

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

Sample Description: MW-2-W-140530 NA Water

Facility# 93600 BTST

2200 Telegraph-Oakland T0600161613

LL Sample # WW 7483685 LL Group # 1478464

Account # 10991

Project Name: 93600

Collected: 05/30/2014 12:00 by JO Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 05/31/2014 10:00 Reported: 08/01/2014 12:52

TA002

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	ug/l	
10943	t-Amyl methyl ether		994-05-8	N.D.	0.5	1	1
10943	Benzene		71-43-2	N.D.	0.5	1	1
10943	t-Butyl alcohol		75-65-0	N.D.	2	5	1
10943	Ethanol		64-17-5	N.D.	50	250	1
10943	Ethyl t-butyl ether		637-92-3	N.D.	0.5	1	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1	1
10943	di-Isopropyl ether		108-20-3	N.D.	0.5	1	1
10943	Methyl Tertiary But	yl Ether	1634-04-4	N.D.	0.5	1	1
10943	Toluene		108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1	1
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	100	1

General Sample Comments

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

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

_	_		_
Laboratory	Sample	Analvsis	Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	Z141562AA	06/05/2014 15:27	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z141562AA	06/05/2014 15:27	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14156A20A	06/06/2014 21:01	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14156A20A	06/06/2014 21:01	Miranda P Tillinghast	1



Lancaster Laboratories Environmental

Analysis Report

Account

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

Sample Description: MW-3-W-140530 NA Water

Facility# 93600 BTST

2200 Telegraph-Oakland T0600161613

LL Sample # WW 7483686 LL Group # 1478464

10991

Project Name: 93600

Collected: 05/30/2014 12:20 by JO Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 05/31/2014 10:00 Reported: 08/01/2014 12:52

TA003

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	ug/l	
10943	t-Amyl methyl ether		994-05-8	N.D.	0.5	1	1
10943	Benzene		71-43-2	N.D.	0.5	1	1
10943	t-Butyl alcohol		75-65-0	N.D.	2	5	1
10943	Ethanol		64-17-5	N.D.	50	250	1
10943	Ethyl t-butyl ether		637-92-3	N.D.	0.5	1	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1	1
10943	di-Isopropyl ether		108-20-3	N.D.	0.5	1	1
10943	Methyl Tertiary But	yl Ether	1634-04-4	N.D.	0.5	1	1
10943	Toluene		108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1	1
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	100	1

General Sample Comments

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

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

Laboratory	Sample	Analysis	Record
------------	--------	----------	--------

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D141571AA	06/06/2014 19:46	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D141571AA	06/06/2014 19:46	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14156A20A	06/06/2014 21:23	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14156A20A	06/06/2014 21:23	Miranda P Tillinghast	1



Lancaster Laboratories Environmental

Analysis Report

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Sample Description: QA-T-140530 NA Water

Facility# 93600 BTST

2200 Telegraph-Oakland T0600161613

LL Sample # WW 7483687 LL Group # 1478464 Account # 10991

Project Name: 93600

Collected: 05/30/2014 11:20 Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 05/31/2014 10:00 Reported: 08/01/2014 12:52

TAOQA

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles SV	W-846	8260B	ug/l	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl	Ether	1634-04-4	N.D.	0.5	1	1
10943	Toluene		108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1	1
GC Vol	latiles S	₩-846	8015B	ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6	5-C12	n.a.	N.D.	50	100	1

General Sample Comments

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

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z141551AA	06/04/2014 12:55	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z141551AA	06/04/2014 12:55	Daniel H Heller	1
01728	TPH-GRO N. CA water C6- C12	SW-846 8015B	1	14156A20A	06/06/2014 16:36	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14156A20A	06/06/2014 16:36	Miranda P Tillinghast	1

^{*=}This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 3

Quality Control Summary

Client Name: Chevron Group Number: 1478464

Reported: 08/01/14 at 12:52 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 MDL**	Blank <u>LOO</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: D141571AA	Sample numb	$her(s) \cdot 74$	183684 748	3686					
t-Amyl methyl ether	N.D.	0.5	1	uq/l	85		75-120		
Benzene	N.D.	0.5	1	uq/l	93		78-120		
t-Butyl alcohol	N.D.	2.	5	ug/l	92		75-120		
Ethanol	N.D.	50.	250	ug/l	105		54-149		
Ethyl t-butyl ether	N.D.	0.5	1	ug/l	88		74-120		
Ethylbenzene	N.D.	0.5	1	ug/l	93		79-120		
di-Isopropyl ether	N.D.	0.5	1	ug/l	97		65-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	85		75-120		
Toluene	N.D.	0.5	1	uq/l	96		80-120		
Xylene (Total)	N.D.	0.5	1 1 1	ug/l	94		80-120		
Batch number: Z141551AA	Sample numb	ber(s): 74	183687						
Benzene	N.D.	0.5	1	ug/l	94		78-120		
Ethylbenzene	N.D.	0.5	1	ug/l	98		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	99		75-120		
Toluene	N.D.	0.5	1	ug/l	99		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	102		80-120		
Batch number: Z141562AA	Sample numb	ber(s): 74	183685						
t-Amyl methyl ether	N.D.	0.5	1	ug/l	90		75-120		
Benzene	N.D.	0.5	1	ug/l	87		78-120		
t-Butyl alcohol	N.D.	2.	5	ug/l	97		75-120		
Ethanol	N.D.	50.	250	ug/l	99		54-149		
Ethyl t-butyl ether	N.D.	0.5	1	ug/l	91		74-120		
Ethylbenzene	N.D.	0.5	1	ug/l	93		79-120		
di-Isopropyl ether	N.D.	0.5	1	ug/l	92		65-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	92		75-120		
Toluene	N.D.	0.5	1	ug/l	90		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	97		80-120		
Batch number: 14156A20A	Sample numb								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	115	118	80-139	3	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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
<u>Analysis Name</u>	%REC	%REC	<u>Limits</u>	RPD	<u>MAX</u>	Conc	Conc	<u>RPD</u>	Max

- *- Outside of specification
- **-This limit was used in the evaluation of the final result for the blank
- (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.



Analysis Report

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Quality Control Summary

Client Name: Chevron Group Number: 1478464

Reported: 08/01/14 at 12:52 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD Max
Batch number: D141571AA						K: P487391	Conc	<u>KPD</u>	Max
t-Amyl methyl ether	83	90	65-117	8	30	1107331			
Benzene	95	99	72-134	4	30				
t-Butyl alcohol	90	102	67-119	12	30				
	97			7	30				
	98			6	3.0				
		87		5	30				
		105		6	30				
	99	107	79-125	8	30				
•									
Batch number: Z141551AA	Sample	number(s)	: 7483687	UNSPK:	P4836	88			
Benzene	100	101	72-134	1	30				
Ethylbenzene	107	105	71-134	2	30				
Methyl Tertiary Butyl Ether	102	101	72-126	1	30				
Toluene	107	106	80-125	1	30				
Xylene (Total)	110	109	79-125	1	30				
Patah number, 7141E62NA	Camplo	numbor (a)	. 7/02605	IMCDV.	71026	o E			
						55			
				-					
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Ethanol Ethyl t-butyl ether Ethylbenzene di-Isopropyl ether Methyl Tertiary Butyl Ether Toluene Xylene (Total) Batch number: Z141551AA Benzene Ethylbenzene Methyl Tertiary Butyl Ether Toluene	91 89 97 98 83 98 99 Sample 100 107 102 107	106 93 104 104 87 105 107 number(s) 101 105 101 106 109	53-146 74-122 71-134 70-129 72-126 80-125 79-125 : 7483687 72-134 71-134 72-126 80-125	15 4 7 6 5 6 8 UNSPK: 1 2 1 1	30 30 30 30 30 30 30 30 30 30 30 30 30 3				

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: D141571AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
94	100	102	105	
94	101	100	99	
94	102	101	98	
94	107	102	101	
93	102	101	102	
93	104	101	102	
80-116	77-113	80-113	78-113	
	94 94 94 94 93	94 100 94 101 94 102 94 107 93 102 93 104	94 100 102 94 101 100 94 102 101 94 107 102 93 102 101 93 104 101	94 100 102 105 94 101 100 99 94 102 101 98 94 107 102 101 93 102 101 102 93 104 101 102

- *- Outside of specification
- **-This limit was used in the evaluation of the final result for the blank
- (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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Analysis Report

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Quality Control Summary

Group Number: 1478464 Client Name: Chevron

Reported: 08/01/14 at 12:52 PM

Surrogate Quality Control

Analysis Name: UST VOCs by 8260B - Water Batch number: Z141551AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
7483687	102	101	100	96	
Blank	102	100	101	98	
LCS	100	100	101	100	
MS	102	102	101	104	
MSD	102	102	100	103	
Limits:	80-116	77-113	80-113	78-113	

Analysis Name: UST VOCs by 8260B - Water

Batch nu	umber: Z141562AA Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
7483685	105	100	98	95	
Blank	104	100	100	96	
LCS	103	100	99	106	
MS	102	99	99	106	
MSD	102	98	100	104	
Limits:	80-116	77-113	80-113	78-113	

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 14156A20A

Trifluorotoluene-F

7483684	89
7483685	75
7483686	78
7483687	79
Blank	81
LCS	83
LCSD	84

Limits: 63-135

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽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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Chevron Site Global II	D: <u>T060016</u>	<u>1613</u>		Address: 2300 Clayt		Concord.	#	4							1+		Preservation Codes
Chevron Site Address:	2200 Tele	egraph Ave.,		CAConsultant Con										ЕП			H =HCL T= Thiosulfate
Oakland, CA				Consultant Phone	No. <u>925-849-1003</u>	<u>3</u>	HVOC					ALKALINITY		GREASE			N =HNO ₃ B = NaOH
Chevron PM: Alexis Fis	scher			Consultant Project	t No. <u>14053</u>	7-705	Í	SCREEN				.KAL		∞ઇ			S = H ₂ SO ₄ O = Other
Chevron PM Phone N	o.: <u>(925)79</u>	0-6441		Sampling Compar			N. C.	오						3.1 OIL			acct 10991
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(WBS ELEMENTS:	OSITE NU	IMBER-0- W		Lancaster Laboratories	Other Lab	Temp. Blank Check Time Temp.				Na	- 1		/ITY				Special Instructions Must meet 5.0 PPB detection limit by 8260
SITE ASSESSMENT: A1L SITE MONITORING: OML				⊠ Lancaster, PA Lab Contact: Nicole Maljovec			MTREM	IX.	MTBE	Mg, Mn, Na	2 META		NDUCTIV				
THIS IS A LEGAL DOCU CORREC		<u>L</u> FIELDS MUS COMPLETE		2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300			EPA 8260B/GC/MS	1 ~	BTEX [Ca, Fe, K,	EPA6010/7000 TITLE 22 METALS □	1 PH 🗆	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH □	O ETHANOL		
	SAMPL	E ID					826	8	802	601	601	150	510	418	826	801	
Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA	EPA 8015B	EPA 8021B	EPA 6010	EPA	EPA150.1	SM2	EPA	EPA 8260	EPA 8015	Notes/Comment s
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Chevron Site Address:	1700 Cas	tro St.,_		CAConsultant Conf								ALKALINITY 🗅						Thiosulfate
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				Phone No: (717)656-2300			0B/G	2B		EPA 6010 Ca,	00//0	EPA150.1 PH□	3 SPE	1.1);;X	
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Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA TPH	EPA	EPA	EPA	EPA	EPA	SM2	EPA	EPA	EPA 8015	-4	Notes/Comment s
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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Group # 1278 200 Sample #
Instructions on reverse side correspond with circled numbers. Acct. # 96011

<u>-7485289-293</u>СОС # 017422

1) Client Information)				(4)	Ma	trix		***************************************	(5)		Α	nalys	ses F	Requ	estec		5.1.2	For Lab Us	se Only
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rioject Name/#	SSOW #					l,								:						
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Midel Marroca	Project State)				5	اه												H = HCl	T = Thiosulfate
Mitch Moyors	Sampler				ent	Š	Įąč												$N = HNO_3$ $S = H_2SO_4$	B = NaOH O = Other
1989-05	Chall	rella			Sediment	Ground	Surface												6)	
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Lancaster Laboratories

Acct. # 15259

For Eurofins Lancaster Laboratories Environmental use only
Group # 1478723 Sample # 1484844-49
Instructions on reverse side correspond with circled numbers.

COC #351243

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E-mail address: jeff naintyre@ amwater. Co	M	Relinquishe	d by		<i>y</i> -y-a				Date	$\overline{}$	Time		Received	by				$\overline{}$	Date 7	Time
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	CH2M HILL	Tel No: (770) 604-9182 Fax No: (770) 604-9183	147	8720		IAI	4-C	Jr-	C	191	U.	υx	K	L	U	KD	•			464309-0602	14-01
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teve]	Matney / AGVIQ	(757) 213-8583	717-55	56-7259 ph	one								d.l								
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пем	¹⁸ SAMPLE IDENTIFIER	¹⁹ SAMPLE DESCRIPTION/LOCATION	²⁰ MATRIX (see codes on SOP)	21 DAIE COLLECTED	COLLECTED	²³ DATA PKG LEVEL (see codes on SOP)	²⁴ TAT (calendar days)	Number of Bottles	Select SVOCs (8270D)	TPH-GRO (8015C)	ETPH (8015C)								²⁶ SAMPLE TYPE (see codes on SOP)	²⁷ COMMENTS/ SCREENING READINGS	²⁸ LAB ID (for lab's use)
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eurofins

Lancaster Laboratories

Acct. # 15135

For Eurofins Lancaster Laboratories Environmental use only
Group # 1478740 Sample # 1484920
Instructions on reverse side correspond with circled numbers.

COC#

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eurofins

Lancaster Laboratories
Environmental

Acct. # 15135 For Eurofins Lancaster Laboratories Environmental use only Group # 1478739 Sample # 7484919 Instructions on reverse side correspond with circled numbers.

COC #

Client Information						◯ Matrix					\bigcirc		Α	naly	sis F	Requested					For Lab Use Only			
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E-mail address: <u>dui.clark@princeagn.com</u> E-mail address: tim.costigan@princeagri.com				Reling	uished	bv					-	Date	$\overline{}$	Time	-	Receiv	ed by					Date		Time
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Type IV (CLP SOW) MA MCP CT RCP				(If yes, indicate QC sample and submit triplicate sample volume.) Temperature upon receipt										. •										



Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
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

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

ppb parts per billion

Dry weightbasis
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
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	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
Ε	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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