RECEIVED

By Alameda County Environmental Health at 10:38 am, Oct 21, 2014



Mike Bauer Project Manager Marketing Business Unit Chevron Environmental Management Company 145 S. State College Blvd Brea, CA 92821 Tel (714) 671-3200 Fax (714) 671-3440 mbauer@chevron.com

October 15, 2014

Mr. Jerry Wickham Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Former Signal Oil Marine Storage and Distribution Facility

(Former Chevron Bulk Plant 206127)

2301-2311 Blanding Avenue

Alameda, California LOP Case RO0002466

Dear Mr. Wickham:

The purpose of this letter is to verify that as a representative for Chevron Environmental Management Company (Chevron), I reviewed, and concur with, the comments in the *Second Semi-Annual 2014 Groundwater Monitoring and Sampling Report* for the referenced facility, prepared on behalf of Chevron by Conestoga-Rovers & Associates. I declare under penalty of perjury that the foregoing is true and correct.

Please feel free to contact me at (714) 671-3207 if you have any questions.

Sincerely,

Mike Bauer Project Manager

Bauer



10969 Trade Center Drive Rancho Cordova, California 95670

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

http://www.craworld.com

October 15, 2014

Reference No. 631916

Mr. Jerry Wickham Alameda County Environmental Health (ACEH) 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Second Semi-Annual 2014

Groundwater Monitoring and Sampling Report

Former Signal Oil Marine Storage and Distribution Facility

(Chevron Bulk Plant 206127) 2301-2311 Blanding Avenue

Alameda, California ACEH Case RO0002466

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this Second Semi-Annual 2014 Groundwater Monitoring and Sampling Report for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by Gettler-Ryan Inc. (G-R) of Dublin, California. G-R's Groundwater Monitoring and Sampling Data Package is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and shown on Figures 2 through 5. Well construction specifications are summarized in Table 2. Eurofins Lancaster Laboratory Environmental LLCs' Analytical Results report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF SECOND SEMI-ANNUAL 2014 EVENT

On July 25, 2014, G-R monitored and sampled site wells per the established schedule. Results of the current monitoring event indicate the following:

Groundwater Flow Direction Northeast

• Hydraulic Gradient 0.02

Approximate Depth to Water
 3 to 10 feet below grade

Equal Employment Opportunity Employer



October 15, 2014 Reference No. 631916

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

	TABL	E A - GROU	NDWATER A	NALYTICAI	DATA	
Well ID	TPHd¹ (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
ESLs	100	100	1	40	30	20
MW-1RA	$2,500/390^{1}$	1,100	17	<0.5	<0.5	<0.5
MW-1RB	2,300 /57 ¹	270	1	<0.5	<0.5	<0.5
MW-2	<50/<501	<50	<0.5	<0.5	<0.5	<0.5
MW-3	1,700 /<50	120	<0.5	<0.5	<0.5	<0.5
MW-4	250 /<50	<50	<0.5	<0.5	<0.5	<0.5
MW-5	3,200/720	3,400	130	9	2	14
MW-6	1,500 /<50	460	12	<0.5	<0.5	<0.5

ESL Environmental screening level

CONCLUSIONS AND RECOMMENDATIONS

Results of this current semi-annual monitoring and sampling are consistent with results from past monitoring events and indicate the following:

- The highest total petroleum hydrocarbons as diesel (TPHd), TPH as gasoline (TPHg), and benzene concentrations in groundwater are in the area of the former fuel pumps, and north of the former aboveground storage tanks (Figures 3 through 5).
- Analysis of TPHd using a 10-gram silica gel column cleanup (SGC) resulted in a significant reduction in dissolved TPHd concentrations as compared to samples analyzed without SGC. Only the samples from MW-1RA and MW-5 were above the TPHd ESL using SGC. This suggests that samples not analyzed using SGC contain polar non-hydrocarbons and/or non-dissolved petroleum components.
- Hydrocarbons are generally stable in site wells where concentrations are detected above groundwater ESLs.

CRA recommends continuing monitoring and sampling to verify concentration trends over time. CRA is currently awaiting ACEH comment on the November 30, 2012 *Piezometer Well Installation and Tidal Influence Study*, including a response to our request to suspend monitoring and sampling at the site.

¹ TPHd without and with 10-gram silica gel cleanup

Bold Concentrations exceed their respective ESL



October 15, 2014 Reference No. 631916

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

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

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Greg Barclay, PG 6260

BS/aa/33 Encl.

Brian Silva



October 15, 2014 Reference No. 631916

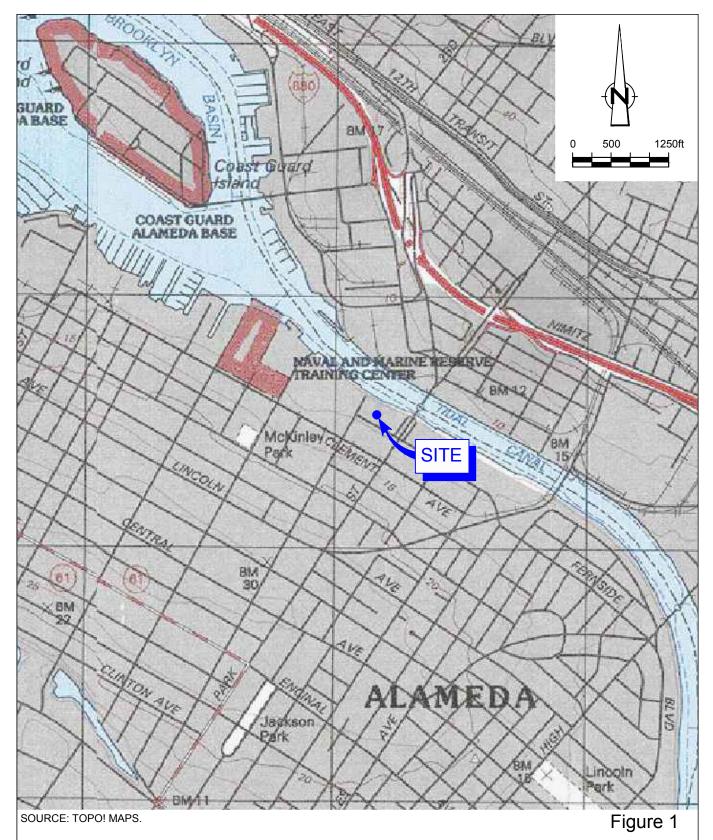
Figure 1 Vicinity Map Groundwater Elevation Contour Map Figure 2 Figure 3 TPHd Concentration Contour Map Figure 4 TPHg Concentration Contour Map Figure 5 Benzene Concentration Contour Map Table 1 Groundwater Monitoring and Sampling Data Table 2 Well Construction Specifications Attachment A Groundwater Monitoring and Sampling Data Package Attachment B Laboratory Analytical Report Attachment C Historical Groundwater Monitoring and Sampling Data

cc: Mr. Mike Bauer, Chevron (electronic only)

Ms. Julie Beck Ball

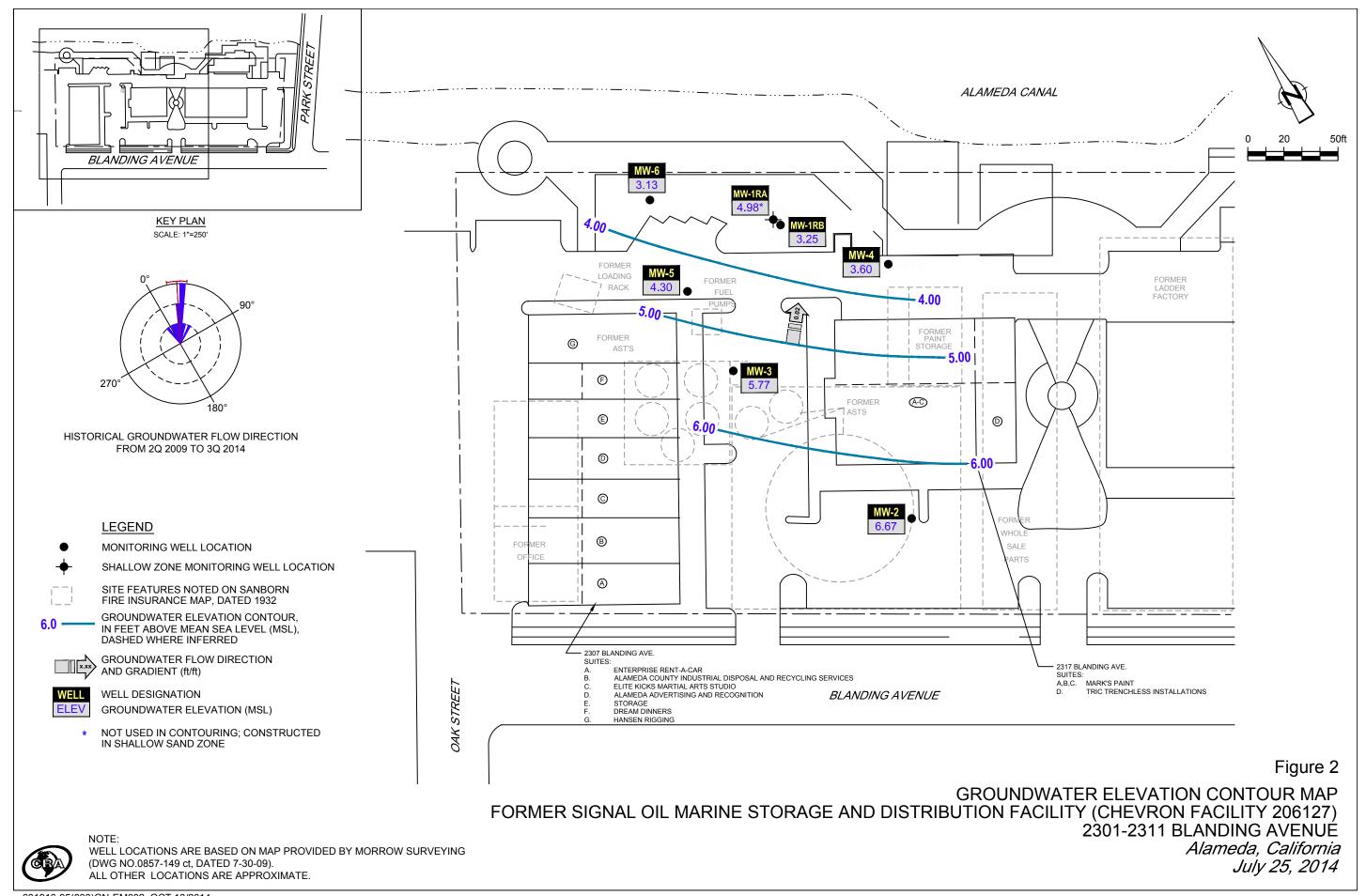
Mr. Peter Reinhold Beck Mr. Monroe Wingate Ms. Amanda Monroe

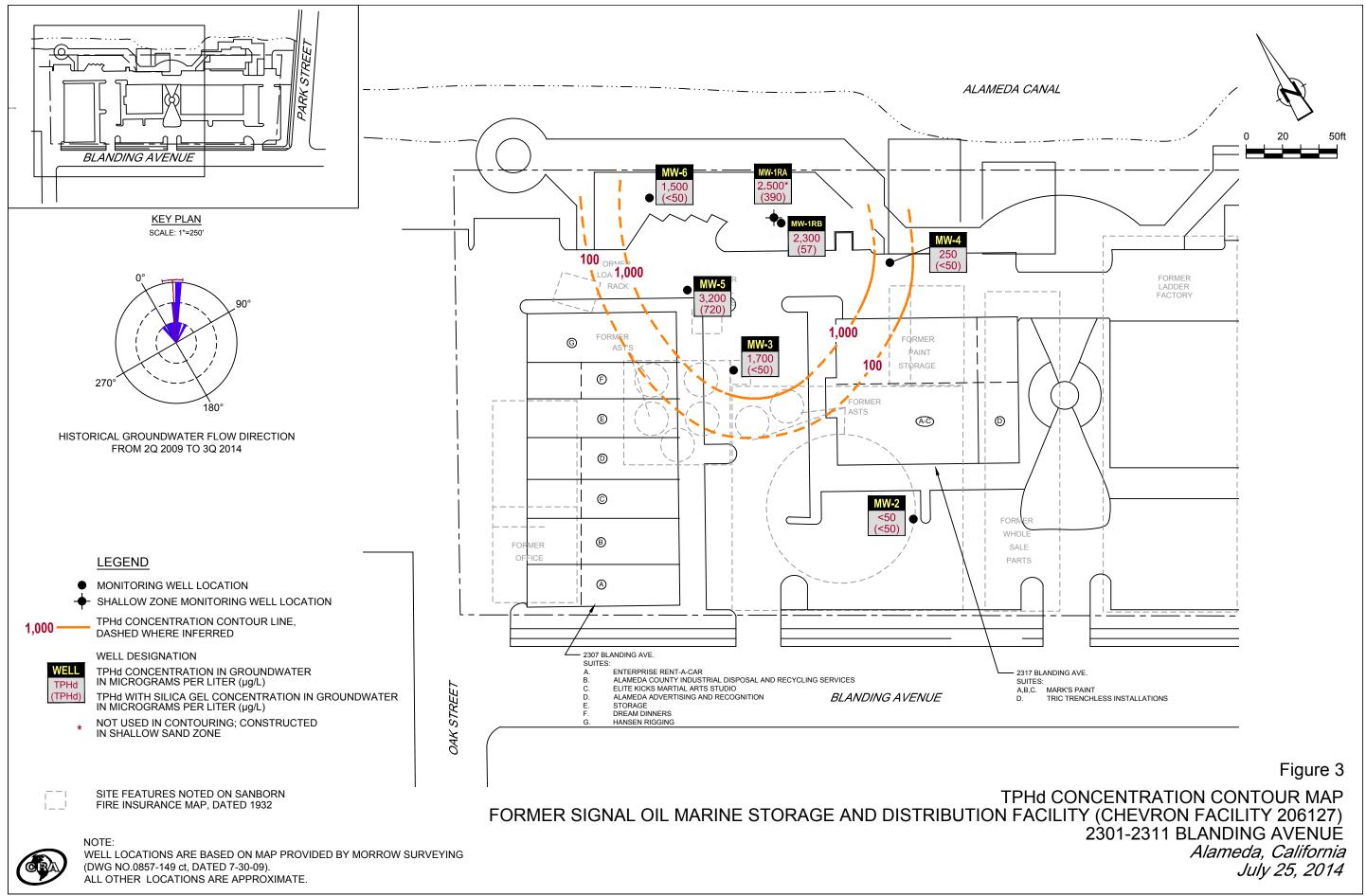
FIGURES

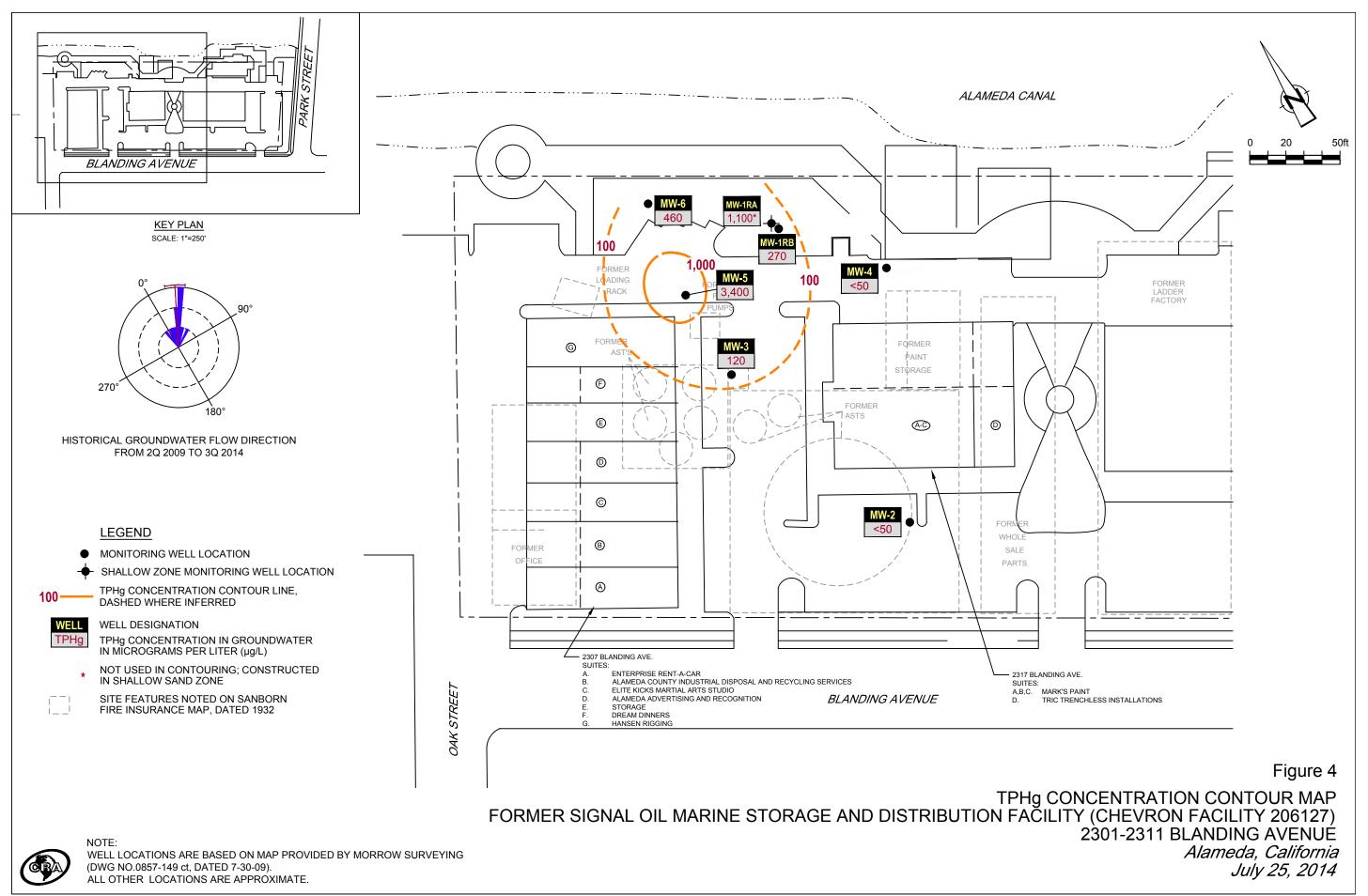


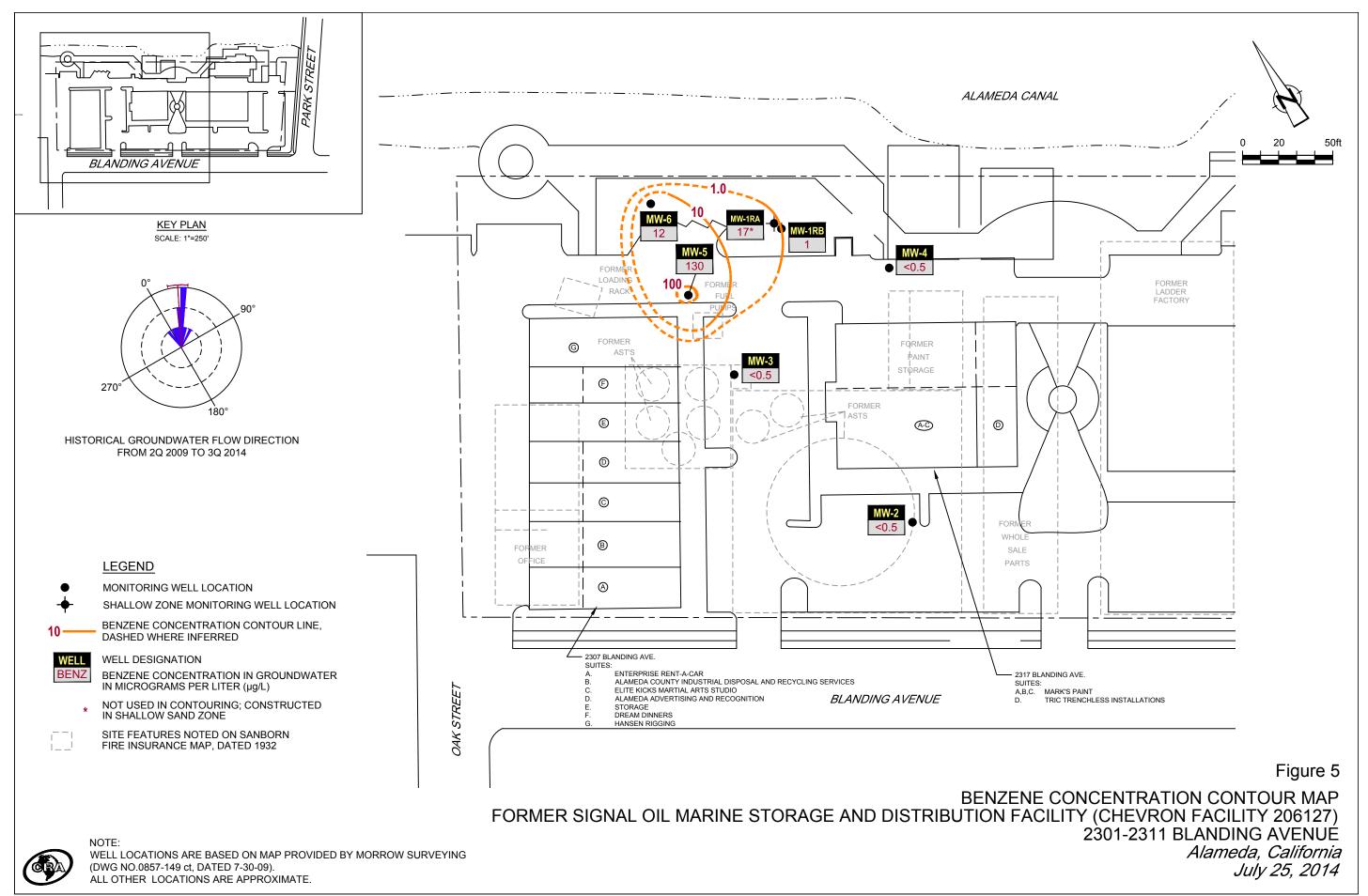
VICINITY MAP FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 206127) 2301-2311 BLANDING AVENUE

Alameda, California









TABLES

TABLE 1 Page 1 of 7

					н	YDROCARBO	VS		1	PRIMARY VOC	es	
Location	Date	тос	DTW	GWE	трн-дво	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	μg/L	µg∕L	μg/L	μg/L	μg/L	µg∕L	μg/L	μ <i>g</i> /L
MW-1 MW-1	07/21/2010 10/22/2010 ¹	13.49 13.49	9.47	4.02	440	- -	65 J -	<0.5 -	<0.5 -	<0.5 -	<0.5 -	<0.5
MW-1RA	10/28/2010	13.02	9.23	3.79	-	4,000	6,400	830	22	65	20	-
MW-1RA	01/14/2011	13.02	7.20	5.82	-	1,500	790	160	2	1	1	-
MW-1RA	04/19/2011	13.02	7.42	5.60	-	3,000	3,800	600	9	18	9	-
MW-1RA	06/30/2011	13.02	7.51	5.51	-	3,700	6,800	780	13	36	13	-
MW-1RA	10/14/2011	13.02	7.96	5.06	6,900	360	6,800	1,300	19	51	14	-
MW-1RA	01/18/2012	13.02	7.34	5.68	4,300	1,400	6,400	1,300	17	38	12	-
MW-1RA	04/19/2012	13.02	5.23	7.79	3,700	400	3,100	120	<5	<5	<5	-
MW-1RA	07/23/2012	13.02	7.92	5.10	6,000	1,000	-	-	-	-	-	-
MW-1RA	07/27/20124	13.02	8.50	4.52	-	-	4,800	640	9	20	7	-
MW-1RA	01/19/2013	13.02	7.30	5.72	3,000	270	1,500	180	<5	<5	<5	-
MW-1RA	07/15/2013	13.02	8.09	4.93	4,200	630	3,700	430	8	5	2	-
MW-1RA	01/09/2014	13.02	7.05	5.97	3,300	150	910	130	2	3	4	-
MW-1RA	07/25/2014	13.02	8.04	4.98	2,500	390	1,100	17	<0.5	<0.5	<0.5	-
MW-1RB	10/28/2010	13.21	9.00	4.21	-	1,600	650	3	<0.5	0.8	<0.5	-
MW-1RB	01/14/2011	13.21	10.97	2.24	-	960	150	1	<0.5	<0.5	<0.5	-
MW-1RB	04/19/2011	13.21	12.11	1.10	-	1,200	190	6	<0.5	<0.5	<0.5	-
MW-1RB	06/30/2011	13.21	11.86	1.35	-	1,900	310	9	<0.5	<0.5	<0.5	-
MW-1RB	10/14/2011	13.21	12.14	1.07	4,000	57	300	15	<0.5	<0.5	<0.5	-
MW-1RB	01/18/2012	13.21	14.71	-1.50	2,400	260	340	11	<0.5	< 0.5	<0.5	-

TABLE 1 Page 2 of 7

					Н	YDROCARBO	NS	I	1	PRIMARY VOC	es .	
Location	Date	TOC	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg∕L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW-1RB MW-1RB	04/19/2012 07/23/2012	13.21 13.21	8.33 8.96	4.88 4.25	2,800 2,700	53 <50	180	1	<0.5	<0.5	<0.5	-
MW-1RB	07/27/2012 ⁴	13.21	8.45	4.76	-	-	990	89	1	0.8	0.7	_
MW-1RB	01/19/2013	13.21	8.65	4.56	2,000	62	200	2	<0.5	<0.5	<0.5	_
MW-1RB	07/15/2013	13.21	8.18	5.03	2,000	<50	230	<0.5	<0.5	<0.5	<0.5	_
MW-1RB	01/09/2014	13.21	7.78	5.43	1,400	<50	150	<0.5	<0.5	<0.5	<0.5	_
MW-1RB	07/25/2014	13.21	9.96	3.25	2,300	57	270	1	<0.5	<0.5	<0.5	_
	, ,				,							
MW-2	07/21/2010	10.63	4.12	6.51	65 J	-	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	10/22/2010	10.63	4.31	6.32	-	58	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	$10/28/2010^2$	10.63	3.65	6.98	-	-	-	-	-	-	-	-
MW-2	01/14/2011	10.63	3.12	7.51	-	68	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	04/19/2011	10.63	3.51	7.12	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	06/30/2011	10.63	3.74	6.89	-	120	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	10/14/2011	10.63	3.52	7.11	160	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	01/18/2012	10.63	3.85	6.78	140	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	04/19/2012	10.63	3.16	7.47	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	07/23/2012 ³	10.63	-	-	-	-	-	-	-	-	-	-
MW-2	07/27/2012	10.63	3.40	7.23	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	01/19/2013	10.63	3.45	7.18	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	07/15/2013	10.63	3.75	6.88	150	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	$01/09/2014^3$	10.63	-	-	-	-	-	-	-	-	-	-
MW-2	07/25/2014	10.63	3.96	6.67	< 50	<50	<50	<0.5	<0.5	<0.5	<0.5	-

TABLE 1 Page 3 of 7

					Н	YDROCARBO	NS		1	PRIMARY VOC	S	
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg∕L	µg∕L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW-3	07/21/2010	10.72	5.09	5.63	640	-	65 J	0.6 J	<0.5	<0.5	<0.5	-
MW-3	10/22/2010	10.72	5.32	5.40	-	570	73	<0.5	<0.5	<0.5	<0.5	-
MW-3	$10/28/2010^2$	10.72	4.74	5.98	-	-	-	-	-	-	-	-
MW-3	01/14/2011	10.72	4.11	6.61	-	1,000	91	<0.5	<0.5	<0.5	<0.5	-
MW-3	04/19/2011	10.72	5.03	5.69	-	1,200	180	<0.5	<0.5	<0.5	<0.5	-
MW-3	06/30/2011	10.72	4.97	5.75	-	740	<50	<0.5	<0.5	<0.5	<0.5	-
MW-3	10/14/2011	10.72	4.52	6.20	1,800	<50	88	<0.5	<0.5	<0.5	<0.5	-
MW-3	01/18/2012	10.72	5.22	5.50	1,700	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-3	04/19/2012	10.72	4.63	6.09	3,000	50	260	<0.5	< 0.5	<0.5	<0.5	-
MW-3	07/23/2012	10.72	4.89	5.83	1,200	<50	-	-	-	-	-	-
MW-3	07/27/2012 ⁴	10.72	4.58	6.14	-	-	<50	< 0.5	< 0.5	< 0.5	< 0.5	-
MW-3	01/19/2013	10.72	4.52	6.20	1,600	<50	69	< 0.5	<0.5	< 0.5	<0.5	-
MW-3	07/15/2013 ⁵	10.72	4.54	6.18	1,500	<50	110	< 0.5	< 0.5	<0.5	< 0.5	-
MW-3	01/09/2014	10.72	4.21	6.51	1,500	<50	<50	< 0.5	< 0.5	<0.5	< 0.5	-
MW-3	07/25/2014	10.72	4.95	5.77	1,700	<50	120	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/21/2010	11.40	6.72	4.68	<50	-	<50	<0.5	<0.5	< 0.5	<0.5	-
MW-4	10/22/2010	11.40	6.87	4.53	-	91	<50	< 0.5	<0.5	<0.5	< 0.5	-
MW-4	$10/28/2010^2$	11.40	6.38	5.02	-	-	-	-	-	-	-	-
MW-4	01/14/2011	11.40	5.32	6.08	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	04/19/2011	11.40	7.65	3.75	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	06/30/2011	11.40	6.93	4.47		<50	<50	<0.5	<0.5	<0.5	<0.5	

TABLE 1 Page 4 of 7

					Н	YDROCARBO.	NS		1	PRIMARY VOC	es .	
Location	Date	тос	DTW	GWE	трн-рко	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW-4	10/14/2011	11.40	5.66	5.74	440	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	01/18/2012	11.40	8.36	3.04	330	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	04/19/2012	11.40	6.40	5.00	360	<50	<50	<0.5	0.5	<0.5	<0.5	-
MW-4	07/23/2012 ³	11.40	-	-	-	-	-	-	-	-	-	-
MW-4	07/27/2012	11.40	6.39	5.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	01/19/2013	11.40	6.78	4.62	380	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/15/2013	11.40	5.83	5.57	530	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	01/09/2014	11.40	5.19	6.21	240	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/25/2014	11.40	7.80	3.60	250	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-5	07/21/2010	10.50	5.76	4.74	2,000	-	1,500	80	2	1	2	-
MW-5	10/22/2010	10.50	5.94	4.56	-	1,500	830	47	<0.5	1	<0.5	-
MW-5	$10/28/2010^2$	10.50	5.17	5.33	-	-	-	-	-	-	-	-
MW-5	01/14/2011	10.50	4.40	6.10	-	1,800	2,100	61	4	1	6	-
MW-5	04/19/2011	10.50	5.69	4.81	-	2,000	2,200	73	4	1	6	-
MW-5	06/30/2011	10.50	5.82	4.68	-	3,200	2,900	99	6	1	7	-
MW-5	10/14/2011	10.50	4.51	5.99	4,600	89	2,300	76	5	1	5	-
MW-5	01/18/2012	10.50	5.98	4.52	3,700	460	3,500	140	7	2	10	-
MW-5	04/19/2012	10.50	5.40	5.10	3,600	310	2,000	87	5	1	5	-
MW-5	07/23/2012	10.50	5.29	5.21	4,300	380	-	-	-	-	-	-
MW-5	07/27/20124	10.50	5.08	5.42	-	-	1,800	48	3	0.7	4	-
MW-5	01/19/2013	10.50	5.38	5.12	4,200	400	3,500	100	7	< 5	7	-
MW-5	07/15/2013	10.50	5.78	4.72	3,800	850	3,900	130	8	2	11	-

TABLE 1 Page 5 of 7

					Н	YDROCARBO	VS		1	PRIMARY VOC	es .	
Location	Date	тос	DTW	GWE	тен-бко	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW-5 MW-5	01/09/2014 07/25/2014	10.50 10.50	4.20 6.20	6.30 4.30	4,000 3,200	670 720	3,600 3,400	130 130	9 9	2 2	13 14	-
MW-6	10/28/2010	12.98	8.35	4.63	-	300	620	7	<0.5	1	2	-
MW-6	01/14/2011	12.98	7.58	5.40	-	560	120	3	<0.5	<0.5	<0.5	-
MW-6	04/19/2011	12.98	9.90	3.08	-	590	240	7	<0.5	<0.5	<0.5	-
MW-6	06/30/2011	12.98	9.97	3.01	-	640	200	3	<0.5	<0.5	<0.5	-
MW-6	10/14/2011	12.98	7.40	5.58	1,700	<50	510	10	<0.5	<0.5	<0.5	-
MW-6	01/18/2012	12.98	9.82	3.16	1,300	<50	300	7	<0.5	<0.5	<0.5	-
MW-6	04/19/2012	12.98	8.02	4.96	1,600	<50	290	7	0.6	<0.5	<0.5	-
MW-6	07/23/2012	12.98	9.69	3.29	1,600	73	-	-	-	-	-	-
MW-6	07/27/20124	12.98	8.39	4.59	-	-	450	9	<0.5	<0.5	0.6	-
MW-6	01/19/2013	12.98	8.92	4.06	830	<50	250	3	<0.5	<0.5	<0.5	-
MW-6	07/15/2013	12.98	7.70	5.28	2,400	<50	660	13	<0.5	<0.5	<0.5	-
MW-6	01/09/2014	12.98	6.85	6.13	1,400	<50	490	10	<0.5	<0.5	<0.5	-
MW-6	07/25/2014	12.98	9.85	3.13	1,500	<50	460	12	<0.5	<0.5	<0.5	-
QA	07/21/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/22/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/28/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	01/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	04/19/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	06/30/2011	-	-	-	-	-	< 50	< 0.5	< 0.5	< 0.5	< 0.5	-

TABLE 1 Page 6 of 7

GROUNDWATER MONITORING AND SAMPLING DATA FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY CHEVRON BULK PLANT 206127 2301-2311 BLANDING AVENUE ALAMEDA, CALIFORNIA

					Н	YDROCARBOI	NS	PRIMARY VOCS						
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260		
	Units	ft	ft	ft-amsl	μ <i>g</i> /L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L		
QA	10/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-		
QA	01/18/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-		
QA	04/19/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-		
QA	07/23/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-		
QA	01/19/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-		
QA	07/15/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-		
QA	01/09/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-		
QA	07/25/2014	-	-	-	-	-	<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

 μ g/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

MTBE = Methyl tert butyl ether

TABLE 1 Page 7 of 7

GROUNDWATER MONITORING AND SAMPLING DATA FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY CHEVRON BULK PLANT 206127 2301-2311 BLANDING AVENUE ALAMEDA, CALIFORNIA

					Н	YDROCARBO	NS		I	PRIMARY VOC	S	
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	µg∕L

^{-- =} Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated concentration

- * TOC elevations for all wells were surveyed on July 30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations. TOC elevations were surveyed on January 25, 2001, by Virgil Chacez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).
- Destroyed and re-installed as MW-1RB.
- Monitored only for the 10/28/10 Special Event
- 3 Inaccessible.
- Due to laboratory error, a second set of samples had to be collected for TPHg and BTEX on 7/27/12 for wells MW1RA, MW1RB, MW-3, MW-5 and MW-6.
- No purge sample collected due to limited access.

TABLE 2 Page 1 of 1

WELL CONSTRUCTION SPECIFICATIONS FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON BULK PLANT 206127) 2301-2311 BLANDING AVENUE ALAMEDA, CALIFORNIA

Well ID	Date	тос	Total Depth	Casing Diameter ¹	Slot Size	Screen Interval	Filter Pack	Status
Well ID	Installed	100	(fbg)	(inches)	(inches)	(fbg)	(fbg)	Status
Monitoring	Wells		, ,			, ,	, ,	
MW-1	8/15/1990	13.49	19.5	2	0.020	4-19	3-19.5	Replaced w/MW-1RB
MW-1RA	8/4/2010	13.02	13	2	0.020	8-13	7-13	Active
MW-1RB	8/4/2010	13.21	20	2	0.020	16.5-20	15.5-20	Active
MW-2	6/19/2009	10.63	18	2	0.020	10.5-15.5	10-16	Active
MW-3	6/19/2009	10.72	18.5	2	0.020	13.5-18.5	12.5-18.5	Active
MW-4	6/19/2009	11.40	20.5	2	0.020	15.5-20.5	14.5-20.5	Active
MW-5	6/23/2009	10.50	18	2	0.020	13-18	12-18	Active
MW-6	8/4/2010	12.98	20	2	0.020	16.5-20	15.5-20	Active
Vapor Wells	<u>s</u>							
VP-1	7/9/2008	NS	4.25	1	0.020	3.75-4.25	3.5-4.5	Vapor only
VP-2	7/9/2008	NS	4.75	1	0.020	4.25-4.75	4-5	Vapor only
VP-3	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-4	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-5	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-6	7/9/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
Sub-Slab Va	<u>apor Probes</u>							
VP-7	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-8	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-9	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-10	7/22/2009	NS	0.5	0.25	NA	NA	NA	Destroyed
VP-11	7/17/2009	NS	0.5	0.25	NA	NA	NA	Destroyed
VP-12	7/22/2009	NS	0.5	0.25	NA	NA	NA	Destroyed
VP-13	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only

Abbreviations / Notes

TOC = Top of casing elevation (feet above mean sea level)

fbg = Feet below grade

NA = Not applicable

NS = Not surveyed

¹ = Schedule 40 PVC casing material

ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING DATA PACKAGE

TRANSMITTAL

August 4, 2014 G-R #386498

TO:

Mr. Brian Silva

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

FROM:

Deanna L. Harding Project Coordinator Gettler-Ryan Inc.

6805 Sierra Court, Suite G Dublin, California 94568 **RE: Chevron #206127**

2301-2337 Blanding Avenue

Alameda, California

(Former Signal Oil Marine Terminal)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES		DESCRIPTION
VIA PDF		Groundwater Monitoring and Sampling Data Package Second Semi-Annual Event of July 25, 2014
	VIA PDF	

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/206127

WELL CONDITION STATUS SHEET

Client/Facility #:	Chevron #206127	Job #:	386498
Site Address:	2301-2337 Blanding Avenue	Event Date:	7/25/14
City:	Alameda, CA	Sampler:	(72)

							Cumpion.					3)			
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)	LC	LACE OCK / N	REPLA CAP Y/N	•	Manui	WELL VAULT facture/Size/ # of Bolts	Tal	tures ken / N
MW-2	010							1	V	<i>/</i> -		12"	emco	1	_
MW-5	osc							1		1		1		1	
mw-3	01-						-								
MW-1	حاد	~													
MWIRA	Olc											8" n	16RRISON		
mw-IRD	٥١ر											_ 0 /	1		
MW-6	olc	\rightarrow	2×m	2413	٥(ر			1	2	d					
		-													
Comments															

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.



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Ch	evron #20612	7	Job Number:	386498	
Site Address: 230	01-2337 Bland	ing Avenue	Event Date:	7/25/14	(inclusive)
City: Ala	meda, CA		Sampler:	34	<u>.</u>
Well ID	MW-1RA		Date Monitored:	7/25/14	
Well Diameter	2 in.		lume 3/4"= 0.		"= 0.38
	2.63 ft.		ctor (VF) 4"= 0.		"= 5.80
			_ x3 case volume =) ft. Estimated Purge Volume: 2 - 3	9 gal.
	% Recharge [(Heig	ht of Water Column x 0.20)	+ DTW]: 8, 53	Time Started:	(2400 hrs)
Purge Equipment:		Sampling Equipment		Time Completed: Depth to Product:	
	<u>×</u>	Disposable Bailer	×	Depth to Water:	
		Pressure Bailer		Hydrocarbon Thickness:	
Stack Pump		Metal Filters		Visual Confirmation/Desc	
Peristaltic Pump		Peristaltic Pump			
QED Bladder Pump		QED Bladder Pump		Skimmer / Absorbant Soc	
Other:		Other:		Amt Removed from Skim	
				Amt Removed from Well: Water Removed:	
				water Removed.	ur
Start Time (purge):	0945	Weather Co		Clean	
Sample Time/Date: /	015 17/25	114 Water Colo	r: Clean	Odor: Y / 🚺	
Approx. Flow Rate:	— gpm	. Sediment D		None	· · · · · · · · · · · · · · · · · · ·
Did well de-water?	MO If ye	es, Time: V	/olume:	gal. DTW @ Sampling:	8.81
(2400 III.)	olume (gal.) ph	Conductivity I (µS) mS partos/cm)	Temperature	D.O. ORP (mg/L) (mV)	
0547	7.0		20.4		
0949	<u> 2 6.</u>	91 904	50-5		
	2.5 6.9	85 915	20.1		
		LABORATORY	INFORMATION		
	CONTAINER RE	FRIG. PRESERV. TYPE	E LABORATORY	ANALYS	SES
MW-IRA 6		ES HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)	
	_	ES NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH	-DRO(8015)
	x voa vial Y	ES NP	CHEVRON RTC	CHEVRON STUDY SAMPLES	
COMMENTS:					



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #20	6127		Job Number:	386498	
Site Address:	2301-2337 BI	anding A	Avenue	Event Date:	7/25/14	(inclusive)
City:	Alameda, CA			Sampler:	711	······································
Well ID	MW-IR	ß	[Date Monitored:	7/25/14	
Well Diameter	2 in.		Volu	ime 3/4"= 0.	02 1"= 0.04 2"= 0.17	3"= 0.38
Total Depth	19.91 ft.	_	Fact	or (VF) $4''=0$.		12"= 5.80
Depth to Water	9.96 ft.	С	heck if water colum	n is less then 0.50	t.	
	9.55	xVF	7 = 1.69	x3 case volume =	Estimated Purge Volume:	7.07 gal.
Depth to Water	w/ 80% Recharge	[(Height of W	ater Column x 0.20)	DTW]: 11.95		(0.400.1)
		_	1911		Time Started:	(2400 hrs) (2400 hrs)
Purge Equipment:	~		ampling Equipment:		III.	(2400 ilis)
Disposable Bailer			sposable Bailer	<u>×</u>	Depth to Water:	
Stainless Steel Baile	er		essure Bailer		Hydrocarbon Thicknes	
Stack Pump			etal Filters		Visual Confirmation/De	
Peristaltic Pump			eristaltic Pump			
QED Bladder Pump Other:			ED Bladder Pump		Skimmer / Absorbant S	
Other.		O.	ther:			immer: Itr
					Amt Removed from W	
					Water Removed:	Itr
Start Time (num	-). 100/		\M\==4b== C==	1:4:	Clean	
Start Time (purge		-11-	Weather Co			
		7/25/11		- cloud	_Odor: Y / 🔞	
Approx. Flow Ra		gpm.	Sediment De	· -	Listo	
Did well de-wate	er?	If yes, Tin	ne: Vo	olume:	_ gal. DTW @ Sampling	g: <u>/0.60</u>
Time			Conductivity	Tometoroturo	D.O. OF	on.
(2400 hr.)	Volume (gal.)	pН	(MS) mS	Temperature (C)F)	(mg/L) (m	
` ,	1	7 ur	μ nho s/cm)		(**************************************	-,
1028	1.5	7.46	791	20.6		
1022	3.0	7.32	764	20,4		
1036	<u> </u>	7.12	738	50.3		-
						
			ABORATORY IN	NFORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY		YSES
WM-150	x voa vial 2 x 1 liter ambers	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260	
	× voa vial	YES YES	NP NP	LANCASTER CHEVRON RTC	TPH-DRO w/sgc COLUMN/TI CHEVRON STUDY SAMPLE	
	X-1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	120		OF ILLY (CONTROL	CHEVICOTODI GAMILLE	
				a_{i}		
			- 5	1		
				r = 1/4		
				2 0	1	
				8 5		
COMMENTS				2 6.		
COMMENTS:						
COMMENTS:				A P. BA- HALL		
COMMENTS:						



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #2061	127	Job Nun	nber:	386498	
Site Address:	2301-2337 Blan	nding Avenue	Event D	ate:	7/25/14	(inclusive)
City:	Alameda, CA		—— Samplei	:	34	,
Well ID	MW- 2_		Date Monit	ored:	7/25/14	
Well Diameter	2 in.		Volume	3/4"= 0.0	2 1"= 0.04 2"= 0.17	3"= 0.38
Total Depth	15.58 ft.		Factor (VF)	4"= 0.6		
Depth to Water	3.96 ft.	Check if water	r column is less the	en 0.50	ft.	
	11.62 x	/F <u>17</u> = 1.	.97 x3 case vo	olume = E	Estimated Purge Volume:_	5.92 gal.
Depth to Water	w/ 80% Recharge [(H	leight of Water Column	(0.20) + DTW]: <u>6</u> ,	. 28		
					Time Started:	(2400 hrs) (2400 hrs)
Purge Equipment:		Sampling Equi			11	(2400 fils)
Disposable Bailer		Disposable Bail	tu .			tt
Stainless Steel Baile	er	Pressure Bailer			Hydrocarbon Thicki	
Stack Pump		Metal Filters			Visual Confirmation	
Peristaltic Pump		Peristaltic Pump				·
QED Bladder Pump		QED Bladder Pt			Skimmer / Absorba	· · · · · · · · · · · · · · · · · · ·
Other:		Other:				Skimmer: Itr
					Amt Removed from	
					Water Removed:	ltr
						
Start Time (purg			er Conditions:		Clean	
Sample Time/Da	ate: 07/5 / 7/	25/14 Water	Color: Cle	an	Odor: Y / ND	
Approx. Flow Ra	ate: gr	om. Sedim	ent Description:		None	
Did well de-water	er? NO If	yes, Time:	•		gal. DTW @ Sampl	ing: 5-22
						<u></u>
Time	Volume (gal.)	pH (µS) ms	s reinberar			ORP
(2400 hr.)	~	µmbos/cr		F)	(mg/L)	(mV)
0645	<u> </u>	.47 71	8 21.	2		
0650	4 7	35 72		<u> </u>		
0655	6 7	.26 71	0 21.	0		
		LABORATO	DRY INFORMAT	ION		
SAMPLE ID	 ''	REFRIG. PRESERV				ALYSES
MW- 2_	2 x 1 liter ambers	YES HCL			TPH-GRO(8015)/BTEX(82	
	x voa vial	YES NP		-	TPH-DRO w/sgc COLUMN CHEVRON STUDY SAMP	
	Trout that		CHETRO		CILL TITOR OTODI OANIE	
L	<u> </u>	<u> </u>	<u> </u>			
COMMENTS:						
			St - 1.			
Add/Replaced Ga	asket: Ad	d/Replaced Bolt:	Add/Replac	ced Lock:	: Add/Repl	aced Plug:



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #20	6127		Job Number:	386498					
Site Address:	2301-2337 BI	anding A	Avenue	Event Date:	7/25/	7/25/14				
City:	Alameda, CA			Sampler:	3 H		<u>.</u>			
Well ID	MW- 3			ate Monitored:	7/25/	nd				
Well Diameter	2 in.	•		ate Monitored.	11231	<u>'7</u>				
Total Depth	150 44	•	Volur	ne 3/4"= 0. or (VF) 4"= 0.		"= 0.17 3"= 0.3 '= 1.50 12"= 5.8				
Depth to Water	17.84 ft. 4.95 ft.		<u> </u>			- 1.50 12 - 5.6	30			
Deptil to water		-	heck if water column			lume: 6.57	, gal.			
Depth to Water v	w/ 80% Recharge	(Height of W	/ater Column x 0.20) +	DTW]: 7.52	Time Started	l:	(2400 hrs)			
Purge Equipment:		S	ampling Equipment:			eted:				
Disposable Bailer	X		isposable Bailer	×		duct:				
Stainless Steel Baile			ressure Bailer		m e	ter:				
Stack Pump		M	etal Filters			Thickness:				
Peristaltic Pump			eristaltic Pump		Visual Confir	mation/Description	n:			
QED Bladder Pump			ED Bladder Pump		Chinaman / Al					
Other:			ther:		11.	bsorbant Sock (cired from Skimmer:	•			
						ed from Well:				
						ved:				
Otant Time of	\ 10.A									
Start Time (purge		=++.	Weather Con		Clea	<u> </u>				
Sample Time/Da	ite: 1155 /	7/25/14	Water Color:	Clean	_	-				
Approx. Flow Ra	te:	gpm.	Sediment Des	scription:	Acne					
Did well de-water	r? <u>////////////////////////////////////</u>	If yes, Tin	ne: Vo	ume:	_ gal. DTW @ S	Sampling:	6-18			
Time (2400 hr.)	Volume (gal.)	рН	Conductivity (µS) mS (umbos/cm)	Temperature	D.O. (mg/L)	ORP (mV)				
115	· 2	7.41	837	20.3						
1120	$-\frac{\overline{u}}{u}$	7.35	805	20.1						
1128	6.5	7.22	786	20.0						
							•			
			LABORATORY IN	FORMATION						
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY		ANALYSES				
MW- Z	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/B					
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc C0		0(8015)			
	A ves vial	YES	NP	CHEVRON RTC	CHEVRON STUDY	SAMPLES				
					 					
						•				
			1		<u> </u>					
COMMENTS:										
***							******			
Add/Replaced Ga	sket:	Add/Replace	d Bolt:	Add/Replaced Loc	k: Ac	ld/Replaced Plug:				



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #20	6127		Job Number:	386498	
Site Address:	2301-2337 BI	anding A	Avenue	Event Date:	7/25/14	(inclusive)
City:	Alameda, CA			Sampler:	NZ	· · · · · · · · · · · · · · · · · · ·
Well ID	MW- 4			Date Monitored:	7/25/14	1
Well Diameter	2 in.	•				
Total Depth	20.16 ft.	-	Volu Fac	ume 3/4"= 0. tor (VF) 4"= 0.		
Depth to Water	7.80 ft.	• —	ــــــا heck if water colum			
·	12.36	xVF	7 = 2.10	x3 case volume =	Estimated Purge Volume:	6.30 gal.
Depth to Water v	w/ 80% Recharge	[(Height of W	/ater Column x 0.20) -	+ DTW]: <u>10 - 27</u>	Time Started:	(2400 hrs)
Purge Equipment:		s	ampling Equipment:			(2400 hrs)
Disposable Bailer			isposable Bailer	X		ft
Stainless Steel Baile		Р	ressure Bailer			ft
Stack Pump		M	letal Filters			kness:ft
Peristaltic Pump		P	eristaltic Pump		Visual Confirmation	n/Description:
QED Bladder Pump		Q	ED Bladder Pump		Skimmer / Absorb	ant Sock (circle one)
Other:		0	ther:			n Skimmer: Itr
					Amt Removed from	n Well:ltr
					Water Removed:_	ltr
Time (2400 hr.)		рН 7.17	Conductivity (µS/mS umbos/cm) 772	Temperature (gal. DTW @ Samp D.O. (mg/L)	ORP (mV)
0740	<u> </u>	7.14	736	20.9		
0745		7.10	720	30.7		
			LABORATORY II			
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY		NALYSES
MW- 4	x voa vial x 1 liter ambers	YES YES	HCL NP	LANCASTER LANCASTER	TPH-GRO(8015)/BTEX(8	
	× voa via	YES	NP	CHEVRON RTC	TPH-DRO w/sgc COLUM CHEVRON STUDY SAM	
						·
						<u></u>
				-		
COMMENTS:						
Add/Replaced Gas	sket:	Add/Replace	d Bolt:	Add/Replaced Loc	k: Add/Re	placed Plug:



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #20	6127		Job Number:	386498					
Site Address:	2301-2337 BI	anding A	Avenue	Event Date:	7/25/	7/25/14				
City:	Alameda, CA			Sampler:		- AL				
Well ID	MW-S			Date Monitored:	7/25/1	y				
Well Diameter	2 in.	•	1/01	ume 3/4"= 0.		0.17 3"= 0				
Total Depth	17.87 ft.	•		tor (VF) $4''=0$.		1.50 12"= 5				
Depth to Water		* CONSTRUCT		nn is less then 0.50) ft. Estimated Purge Volu	5.66	• .			
Depth to Water	w/ 80% Recharge									
Barrer Francisco							(2400 hrs) (2400 hrs)			
Purge Equipment:			ampling Equipment	_			(2400 tills)			
Disposable Bailer			sposable Bailer	X		r:				
Stainless Steel Baile	er		essure Bailer			Thickness:				
Stack Pump Peristaltic Pump			etal Filters eristaltic Pump		Visual Confirm	ation/Descript	ion:			
QED Bladder Pump		QI	ED Bladder Pump		Skimmer / Abs	orbant Sock (circle one)			
Other:		Ot	her:				r:ltr			
							Itr			
					Water Remove	:d:	Itr			
Start Time (purge	e): 0815		Weather Co	nditions:	Clean					
Sample Time/Da		7/25/14	Water Color	_	Odor: Y / 🕦					
Approx. Flow Ra		gpm.	Sediment D		- L.s.W					
Did well de-wate					gal. DTW @ Sa		3 - 5			
Did Wen de-Wate		n yes, illi		olume.	_ yai. Divv @ Sa	impling	7.08			
Time (2400 hr.)	Volume (gal.)	рН	Conductivity μ\$ / mS	Temperature	D.O. (mg/L)	ORP (mV)				
0820	2	7.38	(1325 (1325	20.8	, ,	, ,				
0825	- <u>~</u> .	7.22	1307	20.7			_			
0830	6	6.95	1288	20.6						
							_			
			ABORATORY I							
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE		TRU ODG/0045\/D	ANALYSES	<u> </u>			
MW- S	x voa vial	YES YES	HCL NP	LANCASTER LANCASTER	TPH-GRO(8015)/BTE		O(901E)			
	2 x voa vial	YES	NP	CHEVRON RTC	CHEVRON STUDY S		(0(0015)			
					a Varia					
					 					
COMMENTS:										
			10.0		·····					
Add/Replaced Ga	asket:	Add/Replaced	d Bolt:	Add/Replaced Loc	k: Add	/Replaced Plu	g:			



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #206127	7	Job Number:	386498	
Site Address:	2301-2337 Bland	ing Avenue	- Event Date:	7/25/14	(inclusive)
City:	Alameda, CA		Sampler:	भट	(
Well ID	MW- 6		Date Monitored:	7/25/14	
Well Diameter	2 in.	[v	olume 3/4"= 0	.02 1"= 0.04 2"= 0.17 3"	'= 0.38
Total Depth	20.01 ft.		actor (VF) 4"= 0		- 0.36 '= 5.80
Depth to Water		Check if water colu	ımn is less then 0.50	Oft.	10
1 0 -0				Estimated Purge Volume: 5.1	% gal.
Depth to Water	w/ 80% Recharge [(Heigh				
84				Time Started:	
Purge Equipment:		Sampling Equipmen	nt:	Time Completed: Depth to Product:	· , ,
Disposable Bailer		Disposable Bailer	<u> </u>	Depth to Water:	
Stainless Steel Baile	er	Pressure Bailer		Hydrocarbon Thickness:	
Stack Pump		Metal Filters		Visual Confirmation/Desci	
Peristaltic Pump		Peristaltic Pump			
QED Bladder Pump		QED Bladder Pump		Skimmer / Absorbant Soci	k (circle one)
Other:		Other:		Amt Removed from Skimr	
				Amt Removed from Well:	
				Water Removed:	Itr
Start Time (purg	e): 090 0	Weather C	onditions:	Clea	2.00
Sample Time/Da	ate: 0930 / 705	Water Cold	or: Cloudy	Odor: Y / (N)	
Approx. Flow Ra	ite: gpm.		Description:	LISHY	
Did well de-wate		s, Time:	_		10.90
Time	Volume (gal.) pH	Conductivity	Teraperature	D.O. ORP	
(2400 hr.)		umbos/cm)	((C) / F)	(mg/L) (mV)	
0904	1.5 6.9	1 1231	19.7		
0908	3.0 6.8	9 1267	19.6		
0913	5.0 6.8	2 1275	19.4		
			18		
			INFORMATION		
SAMPLE ID	 	RIG. PRESERV. TYP		ANALYS	ES
MW- G		ES HCL ES NP	LANCASTER	TPH-GRO(8015)/BTEX(8260)	DDO(804E)
		ES NP	LANCASTER CHEVRON RTC	TPH-DRO w/sgc COLUMN/TPH- CHEVRON STUDY SAMPLES	-DUO(0019)
	7, 700, 710, 11		5.1271011110	O. IZTROITOTODI OANI EEO	
				<u> </u>	
L	<u> </u>				
COMMENTS:					
		·			
		·····			
Add/Replaced Ga	isket: Add/Ri	eplaced Bolt:	Add/Replaced Loc	ck: Add/Replaced F	Plua:

Chevron California Region Analysis Request/Chain of Custody

	eurofins	Lancaste Laborato	r	- X X		Ac	cct.#				(Group	#			caster	Sa	mple	#										
1) 	Client Inf	ormatio		SEPTE	Note to be	1/17/2		4)	Ма	trix	1		(5)	1		Aı	nalys	ses	Requ	uest	ed				SCR #: _			
Site	Ad2301-2337 BLAN	DING AVEN	IUE, AL	AME Lead (DA,	CA ant			Sadiment	Ground 🕅	Surface		Containers	8260 🖂	8260	TPH-DRO 8015 without Silica Gel Cleanup 🔀	TPH-DRO 8015 with Silica Gel Cleanyp							And the second s		Results in J value in Must med limits pos compour	eporting net lowest saible for a	needed detection 8260	
	sul DearinaMe r. Hardi		@grinc.	com										<u>~</u>	15. [7]	out Silic	Silica		Se	Method	Method					Confirm	highest hi	t by 8260	
Cons	suit (923) 351-7444 x						3	te l		Potable	NPDES	Ā	mber of	BE 8021	8015	8015 with	8015 with	can	Oxygenates		ead					Run		on highest hit on all hits	
2			Soil		Colle		Grab (Composite	Soil		water		Total Number	BTEX + APPLE	TPH-GRO	H-DRO	H-DRO	8260 Full Scan		Total Lead	Dissolved Lead								
_	Sample Identific	AND DESCRIPTION OF THE PERSON.	Depth	Da		Time		Ö	Š	- 3	\$	ö		8	Ë	1	Ë	82		P	Ö			_		6	Remar	ks	
H	m	W-IRA		7/25	114	1015	7		\vdash	_ 2			8	X	X		~									Т		O WITH	
-		W-IRR			\dashv	1055	\vdash		\vdash				0	1	1	,	,									SILICA GEL REQUESTING 10			
├	 	v- 2				0715				-		 			\vdash											i .		OLUMN	
	m	W-3				1122																						JP WITH	
	m	W-1				0800																				,	REVE	C ACID RSE	
	me	W-5				0850							\sqcap	\Box			\top											GATE	
	ml	e)-6	,	1		0930	1			\			X		V	V										AMENO	coci		
																										PLEASE F	EMO	E MTBE	
																												ED ANALYSK	
	150						$oxed{oxed}$									Ш		Щ										7-28-14	
_					-		\vdash	-					_		8.						,					Pleas			
7)	Turnaround Time F	Requested (T	AT) (pleas	se circl	e)		Reline	quishe	d by	************	The state of the s	Control of the Contro	2	Dafe	- 10		Time		,	Recei	ved by							fime and cc: 9	
	Standard	5 day		4 day	,		2			2							13	3,5	/	a, Aufur					G-R.	Consun	ant and ce:		
	72 hour	48 hour		24 h	ou Æ [OF/EDI	Relind	quishe	d by					Date			Time			Recei	ved by	,				Date		Time	
8	Data Package (circle	if required)	EDD	(circle	e if red	quired)	Relin	quish	ed by	Com	merci	al Ca	rrier:		-					Recei	ved by					Date		Time	
	Type I - Fuil		EDFI	FLAT (defau	ılt)		JPS .			Fe	dEx	<u>40 -</u>		Otl	her_			_										
	Type VI (Raw Data)		Othe	r:				Temperature Upon Receipt°C Custody Seals Intact?							ct?	Ye	es .	No											

													Yes No							Cha	in-c	of-C	ust	odv	-Record
							: 2061						197447	28		CI	nevron (Contact:				iel Molf			~~~
		- 1							Blandin	g Aver	iue, Ala	ameda	CA		-	l				(Phone)	510-	242-49	39		
CUEVBON DEC	C 4 4 4 5 1		Co				: 15-3		VABL 7814						-	ŀ		y Name:		Chevi	on RT	<u>C</u>			
CHEVRON RTC	SAMPL	.ES		Co					YAN INC						-			y Servic		;					
									RA COUP						-			y Servic							
		- 1		۲	roject	Contact			NNA L. I						-			Collected	by: (N	ame)			H	crn_	
	·		(8)				(Phone	925-	551-75				51-788			SI	gnature	:							
	1										State N	1ethod:	. ☑ CA	OI	R □ W	/A 🔲	NW	Series		CO []	υт 🔲] ID			Remarks
Sample Number	Number of Containers	Matrix S= Soll A=Air	Sample Preservation			Date/Time	CHEVRON STUDY (NON-PRESERVED)																		
MW-IRA	2	W	NIP	7	7/20/1	1 1015	8				1						†			<u> </u>	<u> </u>	1-	+	 	Lab Sample No.
mw-5	- 1	1	1		1	0850				-							-	1					 		
MW-6	1	1	1		+	0936	17															<u> </u>	+		
																							1	 -	
														7.		-						_	 	 	
						-																	1	+-	
				7													<u> </u>						 -		
																-	<u> </u>						 	-	
				\top														 			<u> </u>	 	 		
				T														1					+	-	
				\top														 -				-	+	 	
				\top							<u> </u>	†					-						 	<u> </u>	
		<u> </u>		1			1		<u> </u>								 	 		ļ	-	 		 	
		 		+			-		 									 				 	 	-	
Relinquished By	(Sign	store)	_)rgani:	zation -Ryan	Date/	ime	Receive	ed By (S	Signatur	e)		Organiz	zation	Da	te/Time	12:35	Iced (Y	/N)		Turn A	l round Ti	me (Circ	cle Choice)
Ralinquished By	(Signa	ature)				zation	Date/1	121)	Beceive	d By	ignatur	e)		Organiz	ation	Da	te/Time	<i>></i>	Iced (Y	/N)					
Relinquished By	(Signa	iture)		o	rganiz	zation	Date/1	ime	Receive	ed For L	aborato	ry By (S	ignature)		Da	te/Time	!	Iced (Y	ed (Y/N) 5 Days 10 Days As Contracted			₽		

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 L4310 6001 Bollinger Canyon Rd. San Ramon CA 94583

August 05, 2014

Project: 206127

Submittal Date: 07/29/2014 Group Number: 1492246 PO Number: 0015140841 Release Number: BAUER State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-140725 NA Water	7547752
MW-1RA-W-140725 Grab Groundwater	7547753
MW-1RB-W-140725 Grab Groundwater	7547754
MW-2-W-140725 Grab Groundwater	7547755
MW-3-W-140725 Grab Groundwater	7547756
MW-4-W-140725 Grab Groundwater	7547757
MW-5-W-140725 Grab Groundwater	7547758
MW-6-W-140725 Grab Groundwater	7547759

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

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

Analysis Report

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

Respectfully Submitted,

Amek Carter Specialist

(717) 556-7252



Analysis Report

Account

LL Sample # WW 7547752

10904

LL Group # 1492246

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

Sample Description: QA-T-140725 NA Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728

Project Name: 206127

Reported: 08/05/2014 12:31

Collected: 07/25/2014 Chevron

L4310

Submitted: 07/29/2014 16:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

BAAQA

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/1	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	1

General Sample Comments

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

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	Z142111AA	07/30/2014 20:56	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z142111AA	07/30/2014 20:56	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14211B20A	07/31/2014 10:45	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14211B20A	07/31/2014 10:45	Miranda P Tillinghast	1



Analysis Report

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

Sample Description: MW-1RA-W-140725 Grab Groundwater

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728

LL Group # 1492246 Account # 10904

LL Sample # WW 7547753

Project Name: 206127

Reported: 08/05/2014 12:31

Collected: 07/25/2014 10:15 by JH Chevron

L4310

Submitted: 07/29/2014 16:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

BAA1A

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS 10943 10943	Volatiles Benzene Ethylbenzene	SW-846	8260B 71-43-2 100-41-4	ug/1 17 N.D.	ug/1 0.5 0.5	1 1
10943 10943	Toluene Xylene (Total)		108-88-3 1330-20-7	N.D. N.D.	0.5 0.5	1
GC Vol	Latiles TPH-GRO N. CA water	SW-846 C6-C12	8015B n.a.	ug/l 1,100	ug/1 50	1
Hydrod	croleum carbons	SW-846		ug/1	ug/l	
GC Pet	TPH-DRO water C10-C croleum carbons w/Si	SW-846	n.a. 8015B	2,500 ug/l	50 ug/1	1
02216	TPH-DRO water C10-C The reverse surroga	,		390 at <1%.	50	1

General Sample Comments

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

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	Z142111AA	07/30/2014	17:44	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z142111AA	07/30/2014	17:44	Daniel H Heller	1
01728	TPH-GRO N. CA water C6- C12	SW-846 8015B	1	14211B20A	07/31/2014	14:50	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	14211B20A	07/31/2014	14:50	Laura M Krieger	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	142110016A	07/31/2014	19:15	Christine E Dolman	. 1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	142110017A	08/01/2014	20:01	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	142110017A	07/30/2014	16:20	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	142110016A	07/30/2014	16:20	JoElla L Rice	1



Analysis Report

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

Sample Description: MW-1RB-W-140725 Grab Groundwater

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7547754 LL Group # 1492246 Account # 10904

Project Name: 206127

Reported: 08/05/2014 12:31

Collected: 07/25/2014 10:55 by JH Chevron

L4310

Submitted: 07/29/2014 16:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

BAA1B

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	1	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.	270	50	1
GC Pet	roleum	SW-846	8015B	ug/l	ug/l	
Hvdro	arbons					
-	TPH-DRO water C10-C	28	n.a.	2,300	50	1
GC Pet	croleum	SW-846	8015B	ug/l	ug/l	
Hydrod	arbons w/Si					
02216	TPH-DRO water C10-C The reverse surroga			57 at <1%.	50	1
	_	=	_			

General Sample Comments

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

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	Z142111AA	07/30/2014 18:32	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z142111AA	07/30/2014 18:32	Daniel H Heller	1
01728	TPH-GRO N. CA water C6- C12	SW-846 8015B	1	14211B20A	07/31/2014 11:30	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14211B20A	07/31/2014 11:30	Miranda P Tillinghast	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	142110016A	07/31/2014 19:37		n 1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	142110017A	08/01/2014 21:06	Christine E Dolma	n 1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	142110017A	07/30/2014 16:20	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	142110016A	07/30/2014 16:20	JoElla L Rice	1



Analysis Report

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

Sample Description: MW-2-W-140725 Grab Groundwater

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728

LL Group # 1492246 Account # 10904

LL Sample # WW 7547755

Project Name: 206127

Reported: 08/05/2014 12:31

Collected: 07/25/2014 07:15 by JH Chevron

L4310

Submitted: 07/29/2014 16:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

BAA02

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
GC Pet	croleum	SW-846	8015B	ug/l	ug/l	
Hydrod	carbons					
08269	TPH-DRO water C10-C	28	n.a.	N.D.	50	1
	croleum carbons w/Si	SW-846	8015B	ug/l	ug/l	
02216	TPH-DRO water C10-C The reverse surroga	,		N.D. at <1%.	50	1

General Sample Comments

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

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ıe	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	Z142111AA	07/30/2014	18:56	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z142111AA	07/30/2014	18:56	Daniel H Heller	1
01728	TPH-GRO N. CA water C6- C12	SW-846 8015B	1	14211B20A	07/31/2014	11:52	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14211B20A	07/31/2014	11:52	Miranda P Tillinghast	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	142110016A	07/31/2014	14:31	Christine E Dolman	. 1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	142110017A	08/01/2014	21:28	Christine E Dolman	. 1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	142110017A	07/30/2014	16:20	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	142110016A	07/30/2014	16:20	JoElla L Rice	1



Analysis Report

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

Sample Description: MW-3-W-140725 Grab Groundwater

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728

LL Group # 1492246 Account # 10904

LL Sample # WW 7547756

Project Name: 206127

Reported: 08/05/2014 12:31

Collected: 07/25/2014 11:55 by JH Chevron

L4310

Submitted: 07/29/2014 16:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

BAA03

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
10943 10943	Volatiles Benzene Ethylbenzene	SW-846	71-43-2 100-41-4	ug/l N.D. N.D.	ug/1 0.5 0.5	1
10943 10943	Toluene Xylene (Total)		108-88-3 1330-20-7	N.D. N.D.	0.5 0.5	1
GC Vol	latiles TPH-GRO N. CA water	SW-846 C6-C12	8015B n.a.	ug/l 120	ug/1 50	1
	croleum carbons	SW-846	8015B	ug/l	ug/l	
	TPH-DRO water C10-C	28 SW-846	n.a.	1,700 ug/l	50 ug/l	1
	carbons w/Si	28 w/Si G	el n.a.	N.D.	50	1

General Sample Comments

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

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	Z142111AA	07/30/2014	19:20	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z142111AA	07/30/2014	19:20	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14211B20A	07/31/2014	15:12	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	14211B20A	07/31/2014	15:12	Laura M Krieger	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	142110016A	07/31/2014	19:59	Christine E Dolman	. 1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	142110017A	08/01/2014	21:50	Christine E Dolman	. 1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	142110017A	07/30/2014	16:20	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	142110016A	07/30/2014	16:20	JoElla L Rice	1



Analysis Report

LL Sample # WW 7547757

LL Group # 1492246

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

Sample Description: MW-4-W-140725 Grab Groundwater

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728

Account # 10904

Project Name: 206127

Reported: 08/05/2014 12:31

Collected: 07/25/2014 08:00 by JH Chevron

L4310

Submitted: 07/29/2014 16:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

BAA04

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
10943 10943	Volatiles Benzene Ethylbenzene	SW-846	71-43-2 100-41-4	ug/l N.D. N.D.	ug/1 0.5 0.5	1
10943 10943	Toluene Xylene (Total)		108-88-3 1330-20-7	N.D. N.D.	0.5 0.5	1
GC Vol	.atiles TPH-GRO N. CA water	SW-846 C6-C12	8015B n.a.	ug/l N.D.	ug/1 50	1
	roleum arbons	SW-846	8015B	ug/l	ug/l	
-	TPH-DRO water C10-C	28	n.a.	250	50	1
	roleum arbons w/Si	SW-846	8015B	ug/l	ug/l	
02216	TPH-DRO water C10-C The reverse surroga			N.D. at <1%.	50	1

General Sample Comments

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

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F142113AA	07/30/2014 19:02	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142113AA	07/30/2014 19:02	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6- C12	SW-846 8015B	1	14211B20A	07/31/2014 12:14	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14211B20A	07/31/2014 12:14	Miranda P Tillinghast	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	142110016A	07/31/2014 14:53	Christine E Dolmar	1 1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	142110017A	08/01/2014 22:11	Christine E Dolmar	n 1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	142110017A	07/30/2014 16:20	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	142110016A	07/30/2014 16:20	JoElla L Rice	1



Analysis Report

Account

LL Sample # WW 7547758

10904

LL Group # 1492246

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

Sample Description: MW-5-W-140725 Grab Groundwater

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728

Project Name: 206127

Collected: 07/25/2014 08:50 by JH Chevron

L4310

Submitted: 07/29/2014 16:50 6001 Bollinger Canyon Rd.

Reported: 08/05/2014 12:31 San Ramon CA 94583

BAA05

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	130	0.5	1
10943	Ethylbenzene		100-41-4	2	0.5	1
10943	Toluene		108-88-3	9	0.5	1
10943	Xylene (Total)		1330-20-7	14	0.5	1
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	3,400	250	5
GC Pet	roleum	SW-846	8015B	ug/l	ug/l	
Hydrod	arbons					
-	TPH-DRO water C10-C	28	n.a.	3,200	50	1
	roleum	SW-846	8015B	ug/l	ug/l	
Hydrod	arbons w/Si					
02216	TPH-DRO water C10-C The reverse surroga			720 at <1%.	50	1

General Sample Comments

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

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F142113AA	07/30/2014	20:08	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142113AA	07/30/2014	20:08	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6- C12	SW-846 8015B	1	14211B20A	07/31/2014	17:48	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	14211B20A	07/31/2014	17:48	Laura M Krieger	5
08269	TPH-DRO water C10-C28	SW-846 8015B	1	142110016A	07/31/2014	20:20	Christine E Dolman	. 1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	142110017A	08/01/2014	22:33	Christine E Dolman	. 1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	142110017A	07/30/2014	16:20	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	142110016A	07/30/2014	16:20	JoElla L Rice	1



Analysis Report

Account

LL Sample # WW 7547759

10904

LL Group # 1492246

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

Sample Description: MW-6-W-140725 Grab Groundwater

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728

Project Name: 206127

Reported: 08/05/2014 12:31

Collected: 07/25/2014 09:30 by JH Chevron

L4310

Submitted: 07/29/2014 16:50 6001 Bollinger Canyon Rd.

San Ramon CA 94583

BAA06

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	12	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 TPH-GRO N. CA water	SW-846 C6-C12	8015B	ug/1 460	ug/1 50	1
	croleum carbons	SW-846	8015B	ug/l	ug/l	
-	TPH-DRO water C10-C	28	n.a.	1,500	50	1
	croleum carbons w/Si	SW-846	8015B	ug/l	ug/l	
02216	•	,		N.D. at <1%.	50	1

General Sample Comments

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

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	F142113AA	07/30/2014	20:52	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142113AA	07/30/2014	20:52	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6- C12	SW-846 8015B	1	14211B20A	07/31/2014	15:34	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	14211B20A	07/31/2014	15:34	Laura M Krieger	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	142110016A	07/31/2014	18:09	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	142110017A	08/01/2014	22:55	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	142110017A	07/30/2014	16:20	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	142110016A	07/30/2014	16:20	JoElla L Rice	1

Analysis Report

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

Page 1 of 3

Quality Control Summary

Client Name: Chevron Group Number: 1492246

Reported: 08/05/14 at 12:31 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 %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: F142113AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number N.D. N.D. N.D. N.D. N.D. N.D.	er(s): 754 0.5 0.5 0.5 0.5	17757-7547 ug/l ug/l ug/l ug/l	759 92 85 91 86		78-120 79-120 80-120 80-120		
Batch number: Z142111AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number N.D. N.D. N.D. N.D. N.D.	er(s): 754 0.5 0.5 0.5 0.5	ug/l	756 95 98 100 102		78-120 79-120 80-120 80-120		
Batch number: 14211B20A TPH-GRO N. CA water C6-C12	Sample numbe	er(s): 754 50.	17752-7547 ug/l	759 118	117	80-139	1	30
Batch number: 142110016A TPH-DRO water C10-C28	Sample number N.D.	er(s): 754 50.	17753-7547 ug/l	759 82	83	73-120	0	20
Batch number: 142110017A TPH-DRO water C10-C28 w/Si Gel	Sample number N.D.	er(s): 754 50.	17753-7547 ug/l	759 73	77	43-120	5	20

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 <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F142113AA	Sample	number(s)	: 7547757	-754775	9 UNSP	K: 7547757			
Benzene	98	98	72-134	0	30				
Ethylbenzene	94	92	71-134	2	30				
Toluene	97	98	80-125	1	30				
Xylene (Total)	95	93	79-125	2	30				
Batch number: Z142111AA	Sample	number(s)	: 7547752	-754775	6 UNSP	K: P547723			
Benzene	104	105	72-134	1	30				
Ethylbenzene	109	111	71-134	2	30				
Toluene	107	110	80-125	3	30				
Xylene (Total)	111	113	79-125	1	30				

*- Outside of specification

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

Analysis Report

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

Page 2 of 3

Quality Control Summary

Client Name: Chevron Group Number: 1492246

Reported: 08/05/14 at 12:31 PM

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water

Batch number: F142113AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7547757	97	100	97	91
7547758	95	99	102	99
7547759	97	98	99	99
Blank	94	98	101	95
LCS	95	103	99	97
MS	97	100	102	99
MSD	98	103	99	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: Z142111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
7547752	97	99	99	97	
7547753	97	98	100	100	
7547754	97	98	101	103	
7547755	98	99	100	98	
7547756	97	98	100	100	
Blank	98	100	101	98	
LCS	97	101	100	101	
MS	97	100	100	102	
MSD	97	100	100	102	
Limits:	80-116	77-113	80-113	78-113	

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

Batch number: 14211B20A

Trifluorotoluene-F

7547752	82
7547753	90
7547754	81
7547755	77
7547756	80
7547757	75
7547758	83
7547759	87
Blank	85
LCS	88
LCSD	81

Limits: 63-135

Analysis Name: TPH-DRO water C10-C28

Batch number: 142110016A

*- 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.



Analysis Report

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

Page 3 of 3

Quality Control Summary

Client Name: Chevron Group Number: 1492246

Reported: 08/05/14 at 12:31 PM

Orthoterphenyl

Surrogate Quality Control

	Official
7547753	96
7547754	105
7547755	101
7547756	94
7547757	94
7547758	104
7547759	97
Blank	88
LCS	103
LCSD	97
Limits:	46-131
	-5 -5-
Analysis	Name: TPH-DRO water C10-C28 w/Si Gel
Batch nu	mber: 142110017A
	Orthoterphenyl
7547753	
	98
7547754	88
7547754 7547755	88 89
7547754 7547755 7547756	88 89 99
7547754 7547755 7547756 7547757	88 89 99 87
7547754 7547755 7547756 7547757 7547758	88 89 99 87 86
7547754 7547755 7547756 7547757 7547758 7547759	88 89 99 87 86 87
7547754 7547755 7547756 7547757 7547758 7547759 Blank	88 89 99 87 86 87 82
7547754 7547755 7547756 7547757 7547758 7547759 Blank LCS	88 89 99 87 86 87 82
7547754 7547755 7547756 7547757 7547758 7547759 Blank	88 89 99 87 86 87 82

^{*-} 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

98					
%% €	# 4	MA	+ 1	9/3	C
200 F	CA.	10	3 8	9 8	3

\$72514-88 Lancaster

Acct. # 10964 For Eurofins Lancaster Laboratories use only Group # 14924 Sample # 7547752-59
Instructions on reverse side correspond with circled numbers.

Laboratories Client Information Matrix **Analyses Requested** SCR #: Facility \$5.7 Ltd. | 27.60 | 1.10 Class \$4.490 | Globy#9164 (1.50 1974/272) Site Addies 1-2337 BLANDING AVENUE, ALAMEDA, CA Z Results in Dry Weight J value reporting needed Gel Cleanup Surface Chevrol Hill Ground TPH-DRO 8015 with Silica Gel Cleanup Must meet lowest detection limits possible for 8260 Consul **Breiter-Ryan,** Inc., 6805 Sierra Court, Sulta G. Dublin, CA 944 compounds TPH-DRO 8015 without Silica 8021 MTBE Confirmation Consulphanna Ver. Harding, deanna @grinc.com Confirm highest hit by 8260 Confirm all hits by 8260 Oxygenates Potable Total Number of Consultagiano 51-7444 x180 Run ____ oxy's on highest hit Run ____ oxy's on all hits Dissolved Lead 8260 Full Scan Sampler Composite (3) HRRON Fotal Lead Water Grab (2) Soil Collected Soil Ö Sample Identification Depth Date Time Remarks GIA 7/25/14 TPH-DRO WITH MW-IRA 015 SILICA GEL® MW-1RR REQUESTING 10 M4-2 GRAM COLUMN CLEAN-UP WITH 1011.7 CAPRIC ACID 111 W-4 REVERSE MW-5 0850 SURROGATE Mlw-6 0130 AMEND COC! PLEASE REMOVE MTBE FROM REQUESTED ANALYSK MWC 07-28-14 Turnaround Time Requested (TAT) (please circle) Time Received by te Lead Consultant and co: Standard 5 day 4 day Relinquished by Date Received by 72 hour 24 hour DF/ED 48 hour Data Package (circle if required) Relinguished by Commercial Carrier: EDD (circle if required) Received by FedEx ___ Other Type I - Full EDFFLAT (default) Temperature Upon Receipt O. 2.0.9 °C Custody Seals Intact? No Type VI (Raw Data) Other:

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

Issued by Dept. 40 Management



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.
- oreater than

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

ppb parts per billion

Dry weight basis

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

Data Qualifiers:

C - result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1 Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL III)													
WELL ID/	TQC*	DTW	GWE	TPH-DRO	TPH-GRO	В	T	E	X	MTBE			
DATE	(fl.)	(ft.)	(msl)	(μg/L)	(pg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)			
MW-1													
01/23/01		7.16		$1,100^{2,3}$	5,210 ⁴	868	<50.0	<50.0	<50.0	<250			
04/09/01	10.62	8.12	2.50	1,200 ⁶	3,000 ⁵	920	<20	<20	<20	<100			
07/30/01	10.62	9.15	1.47	550 ^{3,8}	2,0007	730	13	<5.0	<5.0	<25			
10/08/01	10.62	7.86	2.76	2,200°	1,200	120	2.4	5.9	6.4	<2.5			
01/13/02	10.62	7.02	3.60	$3,300^3$	930	320	0.78	0.87	3.8	<2.5			
04/08/02	10.62	9.60	1.02	1,200 ³	960	50	1.4	2.6	9.0	<2.5			
07/31/02	10.62	9.27	1.35	2,800 ³	930	64	1.4	1.9	H	<5.0			
10/15/02	10.62	8.00	2.62	1,000 ³	620	25	0.78	1.4	4.3	<2.5			
01/14/03	10.62	7.05	3.57	960³	1,600	20	1.3	1.3	<1.5	<2.5			
04/15/03	10.62	8.02	2.60	920 ³	870	56	1	1.4	3.1	<2.5			
07/16/03 ¹⁰	10.62	10.08	0.54	1,400 ³	780	85	1	0.8	0.7	<0.5			
10/18/03 ¹⁰	10.62	8.51	2.11	1,200 ³	640	42	0.8	<0.5	0.5	<0.5			
01/22/0410	10.62	8.95	1.67	1,500 ³	440	18	<0.5	<0.5	<0.5	<0.5			
04/23/04 ¹⁰	10.62	8.95	1.67	2,200 ³	410	10	<0.5	<0.5	<0.5	<0.5			
07/23/0410	10.62	9.21	1.41	1,800 ³	400	6	<0.5	<0.5	<0.5	<0.5			
10/22/0410	10.62	8.36	2.26	$2,200^3$	150	2	<0.5	<0.5	<0.5	<0.5			
01/28/05 ¹⁰	10.62	7.09	3.53	1,200 ³	55	8	<0.5	<0.5	<0.5	<0.5			
04/26/0510	10.62	7.84	2.78	480^{3}	<50	5	<0.5	<0.5	<0.5	<0.5			
07/15/05 ¹⁰	10.62	8.12	2.50	610 ^{3,11}	<50	<0.5	<0.5	<0.5	<0.5	<0.5			
10/14/0510	10.62	8.07	2.55	9203,12	<50	10	<0.5	<0.5	<0.5	<0.5			
01/12/0610	10.62	6.98	3.64	960 ^{3,12}	<50	6	<0.5	<0.5	<0.5	<0.5			
04/13/06 ¹⁰	10.62	7.04	3.58	1,200 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5			
07/13/06 ¹⁰	10.62	7.13	3.49	1,200 ³	92	14	<0.5	<0.5	<0.5	<0.5			
10/17/06 ¹⁰	10.62	7.64	2.98	990 ³	<50	3	<0.5	<0.5	<0.5	<0.5			
01/16/07 ¹⁰	10.62	7.09	3.53	840 ³	83	4	<0.5	<0.5	<0.5	<0.5			
04/17/07 ¹⁰	10.62	7.11	3.51	1,200 ³	57	<0.5	<0.5	<0.5	<0.5	<0.5			
07/17/07 ¹⁰	10.62	7.41	3.21	1,100 ³	120	8	<0.5	<0.5	<0.5	<0.5			
10/16/07 ¹⁰	10.62	7.55	3.07	750 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5			
01/16/08 ¹⁰	10.62	6.98	3.64	1,700 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5			
04/16/08 ¹⁰	10.62	7.36	3.26	1,100 ³	62	<0.5	<0.5	<0.5	<0.5	<0.5			
07/16/08 ¹⁰	10.62	7.89	2.73	580 ³	93	3	<0.5	<0.5	<0.5	<0.5			
10/15/08 ¹⁰	10.62	7.46	3.16	740 ³	56	0.7	<0.5	<0.5	0.8	<0.5			

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue Alameda, California

DATE MW-1 (cont)	(fl.)			TPH-DRO	TPH-GRO	В	T		X	MTBE
MW-1 (cont)		(ft.)	(msl)	(μg/L)	(µg/L)	(µg/L)	(μg/L).	(µg/L)	(μg/L)	(µg/L)
TAR AA - W SCORES										
01/21/0910	10.62	7.19	3.43	3903	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/0910	10.62	6.93	3.69	1,4003	80	0.7	<0.5	<0.5	<0.5	<0.5
07/03/0910	13.49	8.08	5.41	1,3003	51	<0.5	<0.5	<0.5	<0.5	<0.5
10/01/0910	13.49	9.52	3.97	1,5003	86	<0.5	<0.5	<0.5	<0.5	<0.5
01/19/1010	13.49	7.64	5.85	3403,15	<50	<0,5	<0.5	<0.5	<0.5	<0.5
04/26/1010	13.49	9.20	4.29	820 ³	66	<0.5	<0.5	<0.5	<0.5	<0.5
							100	1,000		7.5
MW-2										
06/30/09 ¹	10.63	3.80	6.83	••		**				-
07/03/0914	10.63	3.91	6.72	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	1
10/01/09 ¹⁴	10.63	4.11	6.52	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	-
01/19/10 ¹⁴	10.63	3.90	6.73	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	-
04/26/1014	10.63	4.08	6.55	< 50 ³	<50	<0.5	<0.5	<0.5	<0.5	1.4
MW-3										
06/30/09 ¹	10.72	4.61								
06/30/09° 07/03/09 ¹⁴	10.72	4.61	6.11	2						-
10/01/09 ¹⁴	10.72	4.57	6.15	170 ³	310	1	<0.5	2	<0.5	-
10/01/0 9 01/19/10 ¹⁴	10.72 10.72	5.22	5.50	1,0003	52	<0.5	<0.5	<0.5	<0.5	
01/19/10 04/26 /10 ¹⁴		4.84	5.88	1,8003	120	2	<0.5	<0.5	<0.5	-
J4/20/1U	10.72	4.86	5.86	1,700 ³	170	2	<0.5	<0.5	<0.5	
MW-4										
06/30/09 ¹	11.40	6.02	5.38			_				
07/03/09 ¹⁴	11.40	5.85	5.55	<50 ³	<50	<0.5	<0.5	-0.6	 -0.5	79-
0/01/09 ¹⁴	11.40	6.95	4.45	370 ³	<50	<0.5	<0.5	<0.5	<0.5	-
01/19/10 ¹⁴	11.40	6.22	5.18	370 110 ³	<50 <50	<0.5		<0.5	<0.5	Sec.
04/26/10 ¹⁴	11.40	6.61	4.79	210 ^{5,17}	< 50	<0.5 <0.5	<0.5 < 0.5	<0.5 < 0.5	<0.5 < 0.5	**

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue Alameda, California

	Wai 7 w													
WELL ID/	TQC*	DTW	GWE	TPH-DRO	TPH-GRO	В	T	E	X	MTBE				
DATE	(fi.)	(fl)	(msl)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)				
MW-5														
06/30/091	10.50	5.20	5.30	22	**	Team	***	_	-					
07/03/0914	10.50	5.17	5.33	1103	930	33	2	0.6	3	A				
10/01/0914	10.50	5.66	4.84	2,5003	1,800	57	3	0.9	5					
01/19/1014	10.50	5.48	5.02	2,600 ³	2,200	74	4	1	5					
04/26/1014	10.50	5.91	4.59	1,7003	2,200	94	4	2	5	÷				
CS-2														
07/30/01	14	-	-	1403,5	<50	< 0.50	<0.50	<0.50	<0.50	<2.5				
10/08/01		-		53°	<50	< 0.50	<0.50	<0.50	<1.5	<2.5				
01/13/02		(94)		<50 ³	<50	< 0.50	<0.50	<0.50	<1.5	<2.5				
04/08/02		-	**	77 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5				
07/31/02	-22	4.40		<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5				
10/15/02	100	64		<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5				
01/14/03	-	140		<50 ³	<50	<0.50	<0.50	<0.50	<1.5	<2.5				
04/15/03	**	-	-	<50 ³	<50	<0.5	<0.5	<0.5	<1.5	<2.5				
07/16/03 10	-	177		<50 ³	<50	<0.5	0.7	<0.5	0.6	<0.5				
10/18/0310	-	()	-	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
01/22/0410	-	-	-	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
04/23/0410	44	-	-	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
07/23/0410	-	-	1.44	<50 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5				
10/22/0410	-		-	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
01/28/05 ¹⁰		***		<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
04/26/0510			-	<50 ³	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5				
07/15/05 ¹⁰	-	***	-	<50 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5				
10/14/0510		-	-	<50 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5				
01/12/06 ¹⁰	-		24	<50 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5				
04/13/06 ¹⁰	-	-	+	<50 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5				
07/13/06 ¹⁰	(e)	+	-	140 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5				
10/17/06 ¹⁰	-	22	**	<50 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5				
01/16/07 ¹⁰	-	4	144	<50 ³	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5				
04/17/07 ¹⁰	- -	-	- 4	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				

Table 1 Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/	TQC*	DTW	GWE	TPH-DRO	TPH-GRO	В		E	X	MTBE
DATE	(fl.)	(ft.)	(msl)	(μg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(μg/L)
CS-2 (cont)										
07/17/07 ¹⁰		-		<50 ³	<50	< 0.5	<0.5	< 0.5	<0.5	< 0.5
10/16/0710				<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/0810				85³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08 ¹⁰				<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08 ¹⁰				<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/08 ¹⁰	••			<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09 ¹⁰				<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09 ¹⁰	••			86 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5
07/03/09 ¹⁰		••		<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/01/0910	••	••	••	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/19/10 ¹⁰	••			210 ^{3,16}	<50	<0.5	<0.5	<0.5	<0.5	<0.5
TRIP BLANK										
TB-LB										
01/23/01		-	-	77	<50.0	< 0.500	< 0.500	< 0.500	< 0.500	<2.50
04/09/01		-	-	-	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
07/30/01		-	-	-	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
QA										
10/08/01	-		-	-	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
01/13/02	-		-	-	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
04/08/02	4		-	-	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
07/31/02	-	-	-		<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
10/15/02	**		4	**	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
01/14/03	**	-	-	199	<50	< 0.50	< 0.50	<0.50	<1.5	<2.5
04/15/03	-	-	-	44	<50	< 0.5	< 0.5	< 0.5	<1.5	<2.5
07/16/03 ¹⁰	144			4	<50	< 0.5	<0.5	<0.5	<0.5	<0.5
10/18/03 ¹⁰	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/04 ¹⁰	,	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/ 2 3/04 ¹⁰			-		<50	<0.5	<0.5	< 0.5	<0.5	<0.5
07/23/04 ¹⁰	**	-		-	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5
10/22/04 ¹⁰		-	**	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1 Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/ DATE	TOC* (fl.)	DTW (ft)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	Χ (μg/L)	MTBE (µg/L)
QA (cont)										
)1/28/05 ¹⁰	••		••	60-400	<50	<0.5	<0.5	<0.5	<0.5	< 0.5
4/26/05 ¹⁰				••	<50	<0.5	<0.5	<0.5	<0.5	< 0.5
7/15/05 ¹⁰	**		-	e-e	<50	< 0.5	<0.5	<0.5	<0.5	< 0.5
0/14/05 ¹⁰	**			••	<50	< 0.5	<0.5	<0.5	<0.5	<0.5
1/12/06 ¹⁰					<50	< 0.5	<0.5	<0.5	<0.5	< 0.5
4/13/06 ¹⁰					<50	< 0.5	< 0.5	<0.5	<0.5	< 0.5
7/13/06 ¹⁰					<50	<0.5	< 0.5	<0.5	<0.5	< 0.5
0/1 7 /06 ¹⁰	••				<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
1/16/07 ¹⁰	••	••			<50	<0.5	< 0.5	< 0.5	<0.5	< 0.5
1/17/07 ¹⁰	••				<50	< 0.5	<0.5	< 0.5	<0.5	< 0.5
7/17/07 ¹⁰				**	<50	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
)/16/07 ¹⁰					<50	< 0.5	<0.5	<0.5	<0.5	<0.5
/16/08 ¹⁰			••		<50	<0.5	<0.5	< 0.5	<0.5	<0.5
I/16/08 ¹⁰		**			<50	<0.5	<0.5	< 0.5	<0.5	<0.5
7/16/08 ¹⁰					<50	<0.5	<0.5	< 0.5	<0.5	<0.5
0/15/08 ¹⁰	••				<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
I/21/09 ¹⁰				••	<50 ¹³	<0.5	< 0.5	< 0.5	<0.5	<0.5
I/15/09 ¹⁰				**	<50	<0.5	<0.5	< 0.5	<0.5	<0.5
7/03/09 ¹⁰				••	<50	<0.5	<0.5	<0.5	<0.5	<0.5
0/01/0910				••	<50	<0.5	< 0.5	<0.5	<0.5	<0.5
l/19/10 ¹⁰		••		••	<50	<0.5	<0.5	<0.5	<0.5	<0.5
1/26/10 ¹⁰					<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal) 2301-2337 Blanding Avenue Alameda, California

EXPLANATIONS:

TOC = Top of Casing ORO = Diesel Range Organics ORO = DIESEL PORTO = DIESEL P

TPH = Total Petroleum Hydrocarbons X = Xylenes

- * TOC elevations for all wells were surveyed on July 30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations.

 TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).
- Well development performed.
- Laboratory report indicates unidentified hydrocarbons <C16.</p>
- Analyzed with silica gel cleanup.
- Laboratory report indicates weathered gasoline C6-C12.
- 5 Laboratory report indicates discrete peaks.
- Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.</p>
- Laboratory report indicates gasoline C6-C12.
- Laboratory report indicates unidentified hydrocarbons C9-C24.
- Analysis performed without silica gel cleanup although was requested on the Chain of Custody.
- 10 BTEX and MTBE by EPA Method 8260.
- Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.
- Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
- 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 60 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.
- BTEX by EPA Method 8260.
- Laboratory report indicates DRO was detected in the method blank at a concentration of 38 μg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
- Laboratory report indicates DRO was detected in the method blank at a concentration of 38 μg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The DRO result for the reextract is 96 μg/L.
- Laboratory report indicates DRO was detected in the method blank at a concentration of 47 μg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Table 2

Groundwater Analytical Results - Metals

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue Alameda, California

0.002-0.000	Aranous, Camolina																
WELL ID/ DATE	(1g/L)	(T/ga)	Baring (ug/L)	(1/80)	(1/84)	(1/87)	Cobult (1/84)	Copper	(Lyg/L)	Malyhdenum (T.)	Nickel	Selenium (Yelenium	January (Hg/L)	(hg/L)	Vanadum (Tage)	Zinc	(µg/L)
MW-2									- 34-34		14.00-17		7.0 -7	0.0.7	11-6-7	War.	118-7
07/03/09	<9.7	<7.2	28.1	<1.4	<2.0	14.6	<2.1	<2.7	<6.9	<4.9	10.6	<8.9	<2.3	<14.0	12.6	11.6	<0.056
MW-3																	
07/03/09	<9.7	<7.2	143	<1.4	<2.0	8.5	<2.1	3.3	<6.9	<4.9	7.8	<8.9	<2.3	<14.0	13.8	18.8	<0.056
MW-4																	
07/03/09	<9.7	<7.2	83.5	<1.4	<2.0	10.0	<2.1	<2.7	<6.9	<4.9	4.5	<8.9	<2.3	<14.0	6.3	15.8	< 0.056
MW-5																	
07/03/09	<9.7	32.7	148	<1.4	<2.0	<3.4	<2.1	3.1	<6.9	<4.9	3.6	<8.9	<2.3	<14.0	<2.5	19.2	< 0.056
										•••		0.7	0	-11.0	2,0	17.2	•

EXPLANATIONS

 $(\mu g/L)$ = Micrograms per liter

ANALYTICAL METHODS:

Metals analyzed by EPA Method SW-846 6010B Mercury analyzed by Method SW-7470A