

Olivia Skance Team Lead Marketing Business Unit Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 790-6521

January 20, 2012

Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 **RECEIVED**

3:21 pm, Jan 23, 2012
Alameda County
Environmental Health

Re: Chevron Facility #_9-2029

Address: 890 West MacArthur Boulevard, Oakland, California

I have reviewed the attached report titled <u>Second Semi-Annual 2011 Groundwater Monitoring Report</u> and dated January 20, 2012.

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.

Sincerely,

Olivia Skance Project Manager

Enclosure: Report



10969 Trade Center Drive Rancho Cordova, California 95670

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

www.CRAworld.com

January 20, 2012

Reference No. 611974

Mr. Mark Detterman, P.G., C.E.G. Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Second Semi-Annual 2011 Groundwater Monitoring Report

Former Chevron Service Station 9-2029

890 West MacArthur Boulevard

Oakland, California Case No. RO0002438

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) to Alameda County Environmental Health (ACEH) on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The report (prepared by Gettler-Ryan Inc. and dated December 5, 2011) presents the results of the sampling of wells MW-5 through MW-8 during fourth quarter 2011. Wells MW-5 through MW-8 are sampled semi-annually during the second and fourth quarters. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the fourth quarter 2011 analytical results along with a rose diagram. The monitoring results during 2011 are discussed below.

Elevated concentrations of total petroleum hydrocarbons as gasoline (TPHg) (up to 5,700 micrograms per liter [$\mu g/L$]) continue to be detected in wells MW-5, MW-6, and MW-7 adjacent to and downgradient of the site. TPHg was not detected in MW-6 during the first semi-annual event, but the current concentration (5,700 $\mu g/L$) is once again within the historical range in this well. The cause of this fluctuation is unknown, but appears to have been anomalous. Low concentrations of benzene (6 $\mu g/L$) were detected in MW-5. A higher benzene concentration (260 $\mu g/L$) was detected in MW-6 during the current event and like TPHg, a significant fluctuation was observed. Conversely, the benzene concentration in MW-7 during the current event (2 $\mu g/L$) was significantly less than that during the previous event (180 $\mu g/L$). Low concentrations of toluene, ethylbenzene, and xylenes (up to 180 $\mu g/L$) were also detected in these wells. Although fluctuations occur, the TPHg and benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations in these wells are decreasing overall.

The methyl tertiary butyl ether (MTBE) concentrations in MW-5 have consistently decreased and it is no longer detected. The MTBE concentrations in MW-6 have also decreased and only a

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January 20, 2012 Reference No. 611974

low concentration (37 μ g/L) remains. The MTBE concentrations in MW-7 have remained stable and low (5 μ g/L during both events of 2011). Low concentrations of tertiary butyl alcohol (TBA) (up to 19 μ g/L) were detected in MW-6 and MW-7, likely indicating natural biodegradation of MTBE in the subsurface. Other fuel oxygenates were not detected.

TPHg, BTEX, and fuel oxygenates were not detected in MW-8 during 2011 and have not been detected in this well since the initial event in 2008.

Based on the analytical results, impacted groundwater is present downgradient of the site in the area of wells MW-5, MW-6, and MW-7. However, extensive source removal was performed and concentrations are generally decreasing. The monitoring and previous investigation results indicate that the extent of impacted groundwater is adequately defined. CRA recommends continued monitoring to further evaluate groundwater quality and concentration trends and the suitability of the site for low-risk case closure.

Please contact Mr. James Kiernan at (916) 889-8917 if you have any questions or require additional information.

No. 68498

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

James P. Kiernan, P.E.

JK/aa/14 Encl.



January 20, 2012 Reference No. 611974

Figure 1 Vicinity Map

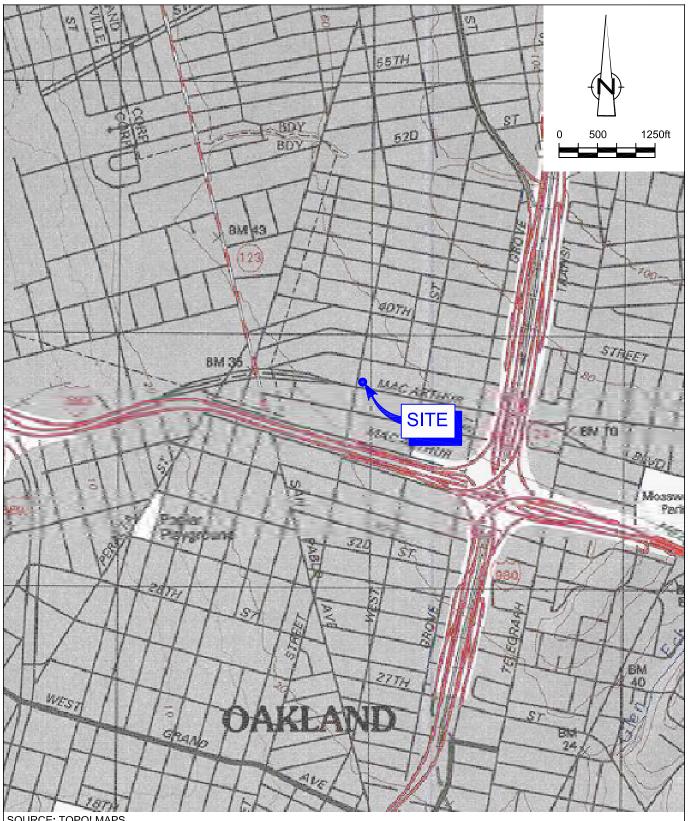
Figure 2 Concentration Map

Attachment A Groundwater Monitoring and Sampling Report

cc: Ms. Olivia Skance, Chevron (electronic copy)

Mr. Stephen O'Kane, Westmac, LLC

FIGURES

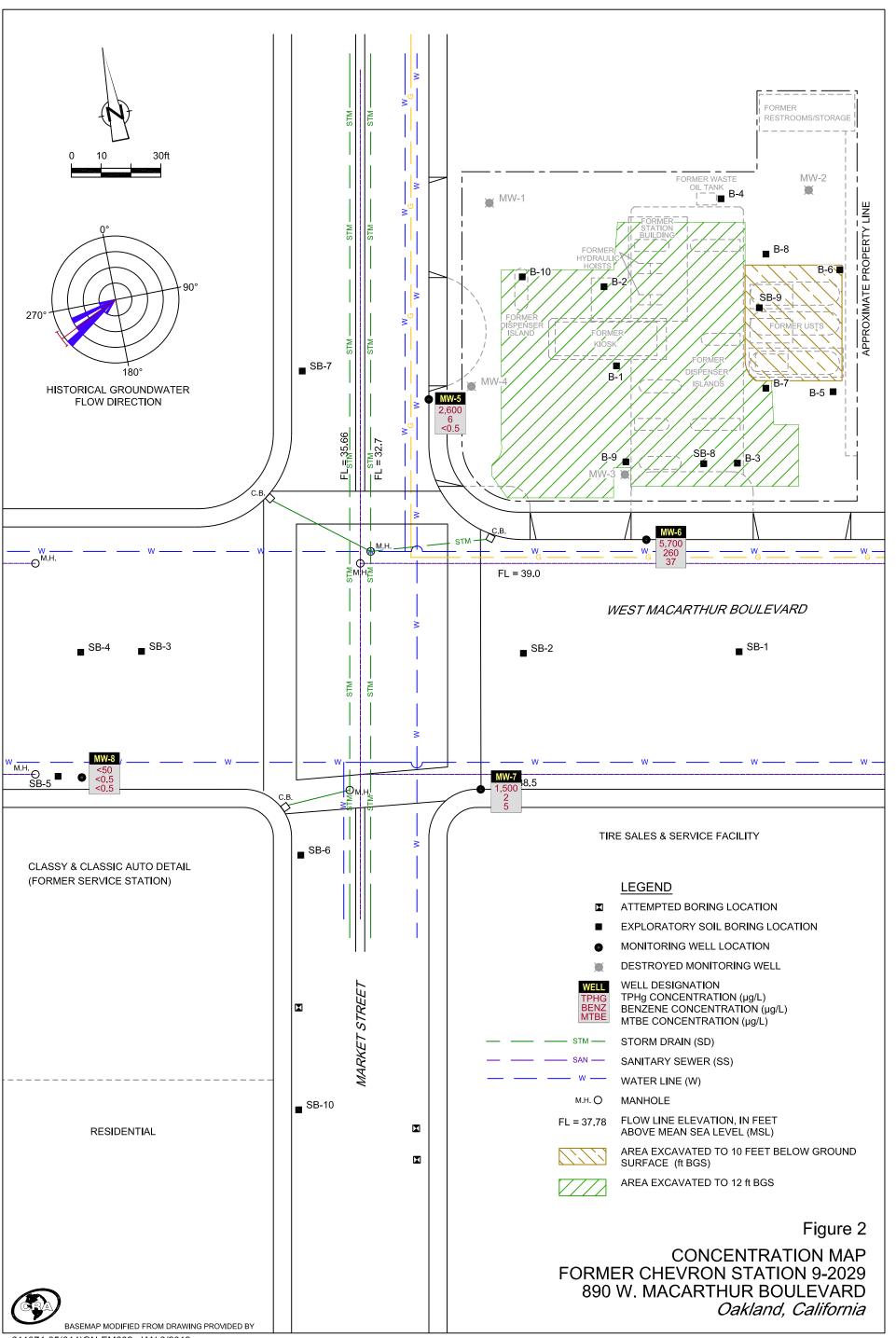


SOURCE: TOPO! MAPS.

Figure 1

VICINITY MAP CHEVRON SERVICE STATION 9-2029 890 WEST MACARTHUR BOULEVARD Oakland, California





ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING REPORT



December 5, 2011 G-R Job #386911

Ms. Olivia Skance Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583

RE: Second Semi-Annual Event of November 10, 2011

Groundwater Monitoring & Sampling Report Former Chevron Service Station #9-2029

890 West MacArthur Boulevard

Oakland, California

Dear Ms. Skance:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding Project Coordinator

Douglas J. Lee

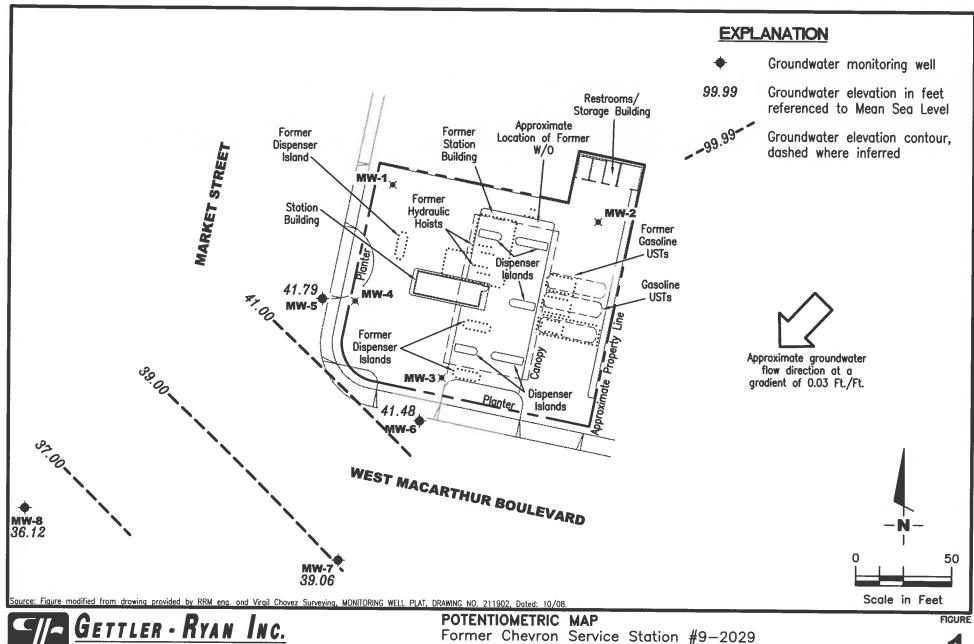
Senior Geologist, P.G. No. 6882

Figure 1: Potentiometric Map

Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports



6747 Sierra Court, Suite J (925) 551-7555

890 West MacArthur Boulevard Oakland, California

REVISED DATE

PROJECT NUMBER REVIEWED BY 386911

November 10, 2011

DATE

Table 1
Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029 890 West MacArthur Blvd. Oakland, California

EE:					Dakland, California				
WELL ID/	TOC*	DTW	GWE	TPH-GRO	В	Ť	E	X	MTBE
DATE	(fi.)	(ft.)	(msl)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)
MW-5									
08/22/081	49.39	9.97	39.42	146	.000		100	-	-
08/27/08 ³	49.39	10.03	39.36	54	0.5	0.8	< 0.5	0.7	10
11/21/083	49.39	8.42	40.97	6,000	93	6	37	6	8
02/13/093	49.39	7.11	42.28	5,100	31	5	20	3	6
05/08/09 ³	49.39	7.21	42.18	3,600	18	4	14	2	2
08/07/09 ³	49.39	9.60	39.79	520	0.7	< 0.5	<0.5	<0.5	2
11/05/093	49.39	7.08	42.31	7,400	16	5	18	4	0.9
05/06/10 ³	49.39	6.08	43.31	3,500	4	2	3	0.9	0.9
11/03/10 ⁵	49.39	9.05	40.34	5,000	13	4	8	3	0.9
05/10/115	49.39	7.26	42.13	3,200	6	4	7	0.9	<0.5
11/10/115	49.39	7.60	41.79	2,600	6	3	10	2	<0.5
						1.6		-	-0.5
MW-6									
08/22/081	49.07	8.98	40.09					-	
08/27/08 ³	49.07	8.98	40.09	6,000	990	4	350	530	440
11/21/08 ³	49.07	8.12	40.95	14,000	1,000	15	1,300	550	300
$02/13/09^3$	49.07	5.84	43.23	9,700	630	4	510	36	180
05/08/09 ³	49.07	5.77	43.30	7,600	240	4	470	67	38
08/07/09 ³	49.07	8.49	40.58	14,000	1,500	12	1,400	180	330
11/05/09 ³	49.07	6.72	42.35	22,000	870	8	1,300	130	160
$05/06/10^3$	49.07	4.89	44.18	5,200	110	2	160	23	9
11/03/10 ⁵	49.07	8.05	41.02	13,000	1,100	8	670	58	160
05/10/11 ^{4,5}	49.07	8.56	40.51	<50	0.6	<0.5	<0.5	<0.5	<0.5
11/10/11 ⁵	49.07	7.59	41.48	5,700	260	7	180	13	37
MW-7									
08/22/08	48.74	10.20	38.54						
08/27/08 ³	48.74	10.19	38.55	<50	< 0.5	0.6	< 0.5	0.7	6
11/21/08 ³	48.74	9.51	39.23	1,100	80	< 0.5	65	0.7	6
$02/13/09^3$	48.74	7.95	40.79	630	30	< 0.5	38	0.9	7
05/08/09 ³	48.74	8.04	40.70	1,200	83	< 0.5	190	2	8
08/07/09 ³	48.74	9.88	38.86	8,900	240	0.7	770	5	5
$11/05/09^3$	48.74	9.03	39.71	12,000	630	<1	1,300	420	5

As of 11/10/11

Table 1 Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029 890 West MacArthur Blvd. Oakland, California

WELL ID/	TOC*	DTW	GWE	TPH-GRO	В	${f T}$	E	X	MTBE
DATE	(ft.)	(ft.)	(msl)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-7 (cont)									
05/06/10 ³	48.74	7.88	40.86	4,000	190	< 0.5	270	7	6
11/03/105	48.74	9.48	39.26	5,700	150	0.7	45	2	4
05/10/115	48.74	8.82	39.92	3,500	180	< 0.5	150	2	5
11/10/11 ⁵	48.74	9.68	39.06	1,500	2	<0.5	2	<0.5	5
MW-8									
08/22/08 ¹	47.61	12.41	35.20						
08/27/08 ³	47.61	12.42	35.19	<50	<0.5	0.7	<0.5	0.6	<0.5
1/21/083	47.61	11.42	36.19	<50	< 0.5	<0.5	<0.5	<0.5	<0.5
)2/13/09 ³	47.61	8.87	38.74	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5
)5/08/09 ³	47.61	10.79	36.82	<50	< 0.5	<0.5	<0.5	<0.5	<0.5
08/07/09 ³	47.61	12.33	35.28	< 50	< 0.5	< 0.5	<0.5	<0.5	<0.5
1/05/093	47.61	11.23	36.38	< 50	< 0.5	< 0.5	<0.5	<0.5	<0.5
05/06/10 ³	47.61	10.28	37.33	<50	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
1/03/10 ⁵	47.61	11.37	36.24	<50	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
)5/10/11 ⁵	47.61	11.55	36.06	<50	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
1/10/11 ⁵	47.61	11.49	36.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1	60 mi								
03/12/021	50.71	6.50	44.21	<50	< 0.50	< 0.50	< 0.50	<1.5	$<2.5/<2^2$
06/07/02	50.71	8.69	42.02	<50	< 0.50	< 0.50	< 0.50	<1.5	$<2.5/<2^2$
09/13/02	50.71	9.28	41.43	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5/<2 ²
2/13/02	50.71	8.48	42.23	<50	<0.50	< 0.50	< 0.50	<1.5	<2.5/<2 ²
3/01/03	50.71	7.34	43.37	<50	< 0.50	< 0.50	< 0.50	<1.5	$<2.5/<0.5^2$
06/27/03 ³	50.71	9.29	41.42	<50	<0.5	0.6	< 0.5	< 0.5	< 0.5
9/30/03 ³	50.71	10.17	40.54	<50	<0.5	0.6	< 0.5	< 0.5	< 0.5
2/03/03 ³	50.71	7.82	42.89	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
3/10/04 ³	50.71	6.57	44.14	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
6/30/04 ³	50.71	9.78	40.93	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
9/30/04 ³	50.71	9.91	40.80	<50	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
2/29/04 ³	50.71	2.90	47.81	<50	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/23/05 ³	50.71	2.90	47.81	<50	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/22/05 ³	50.71	8.59	42.12	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
09/02/05 ³	50.71	9.38	41.33	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Table 1
Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029 890 West MacArthur Blvd.

WELL ID/	TOC*	DTW	GWE	TPH-GRO	В	T	E	X	MTBE
DATE	(fi.)	(ft.)	(msl)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)
MW-1 (cont)									
12/02/05	50.71	8.44	42.27	44					
03/20/06	50.71	3.05	47.66	See.		-20			
06/01/06	50.71	6.77	43.94		-		7		
09/11/06	50.71	9.18	41.53						-
DESTROYED								1	
MW-2									
03/12/021	52.57	6.09	46.48	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5/3 ²
06/07/02	52.57	8.65	43.92	<50	< 0.50	<0.50	<0.50	<1.5	<2.5/3 <2.5/<2 ²
09/13/02	52.57	9,58	42.99	<50	<0.50	<0.50	<0.50	<1.5	$<2.5/<2^{2}$
12/13/02	52.57	8.50	44.07	<50	<0.50	<0.50	<0.50	<1.5	$<2.5/<2$ $<2.5/<2^2$
03/01/03	52.57	7.00	45.57	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2
06/27/033	52.57	9.59	42.98	<50	<0.5	< 0.5	<0.5	<0.5	<0.5
09/30/03 ³	52.57	10.64	41.93	<50	< 0.5	< 0.5	<0.5	<0.5	0.7
2/03/033	52.57	7.54	45.03	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5
3/10/043	52.57	6.05	46.52	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
06/30/04 ³	52.57	10.15	42.42	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
09/30/04 ³	52.57	10.14	42.43	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
2/29/043	52.57	2.29	50.28	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
$3/23/05^3$	52.57	2.44	50.13	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
06/22/053	52.57	8.99	43.58	<50	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
19/02/05 ³	52.57	10.17	42.40	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
2/02/05	52.57	8.99	43.58		-	-	-		
3/20/06	52.57	2.70	49.87	77			442		-
6/01/06	51.57	6.51	45.06	÷	-	4-		-	44
09/11/06	51.57	10.06	41.51			94	·++	95	
DESTROYED									
MW-3									
3/12/021	50.31	6.50	43.81	12,000	600	8.5	1.100	370	700/650 ²
6/07/02	50.31	7.74	42.57	14,000	630	8.8	1,200	160	520/490 ²
9/13/02	50.31	9.73	40.58	3,000	270	3.2	200	11	600/640 ²
2/13/02	50.31	8.60	41.71	24,000	1,100	14	2,400	220	650/540 ²
3/01/03	50.31	6.75	43.56	16,000	500	9.0	1,200	130	460/330 ²
06/27/033	50.31	9.25	41.06	9,500	390	6	450	30	470
99/30/03 ³	50.31	10.31	40.00	2,000	110	i.	100	3	710

Table 1
Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029 890 West MacArthur Blvd.

WELL ID/	TOC*	DTW	GWE	TPH-GRO	В	1	E	X	MTBE
DATE	(fi.)	(ft.)	(msl)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)
MW-3 (cont)									
12/03/033	50.31	8.18	42.13	19,000	970	8	2,100	85	420
03/10/043	50.31	6.10	44.21	15,000	550	6	960	95	220
06/30/04 ³	50.31	9.80	40.51	3,200	150	ì	100	3	660
09/30/04 ³	50.31	10.18	40.13	1,900	66	0.8	84	4	690
12/29/043	50.31	4.58	45.73	16,000	470	7	820	47	170
03/23/053	50.31	5.07	45.24	18,000	380	6	960	58	140
06/22/05 ³	50.31	8.12	42.19	16,000	700	6	950	62	300
09/02/053	50.31	9.41	40.90	8,400	380	4	510	41	440
12/02/053	50.31	7.97	42.34	16,000	490	6	1,200	32	170
03/20/06 ³	50.31	5.32	44.99	4,200	79	0.8	2	10	34
06/01/063	50.31	7.07	43.24	5,400	67	1	26	3	28
09/11/063	50.31	9.07	41.24	14,000	270	5	240	38	97
DESTROYED					2.0	3	240	36	91
MW-4									
03/12/02	49.93	5.34	44.59	9,700	360	5.3	1,100	150	170/170 ²
06/07/02	49.93	8.52	41.41	7,300	170	2.7	280	21	200/120 ²
09/13/02	49.93	9.86	40.07	5,800	92	4.5	80	14	$190/160^2$
2/13/02	49.93	9.42	40.51	10,000	250	2.2	330	19	170/200 ²
03/01/03	49.93	7.33	42.60	12,000	300	4.6	900	110	$1/0/200$ $160/100^2$
06/27/033	49.93	9.62	40.31	7,500	110	2	200	58	130
09/30/03 ³	49.93	11.13	38.80	3,600	18	<1	16	7	520
12/03/033	49.93	7.80	42.13	16,000	1,000	6	720	52	73
3/10/04 ³	49.93	6.69	43.24	2,200	230	3	610	71	55
06/30/043	49.93	10.33	39.60	7,700	59	<1	78	17	110
09/30/04 ³	49.93	10.75	39.18	4,800	100	1	33	10	400
2/29/043	49.93	3.34	46.59	13,000	250	3	480	27	42
03/23/05 ³	49.93	4.24	45.69	12,000	130	2	280	16	24
06/22/05 ³	49.93	7.95	41.98	6,400	290	2	11	11	18
9/02/05 ³	49.93	9.46	40.47	3,700	180	1	13	7	18
2/02/05 ³	49.93	7.60	42.33	11,000	840	5	480	24	34
03/20/06 ³	49.93	4.50	45.43	790	14	<0.5	1	0.6	2
06/01/06 ³	49.93	7.30	42.63	5,100	48	0.8	42	4	2
09/11/06 ³	49.93	9.38	40.55	6,700	64	3	44	3	4
DESTROYED			0.3450		247			5	

Table 1 Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029 890 West MacArthur Blvd.

WELL ID/	TOC*	DTW	GWE	TPH-GRO	В	${f T}$	E	X	MTBE
DATE	(fl.)	(ft.)	(msl)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)
TRIP BLANK									
QA									
03/12/02				<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
06/07/02		(4-1)	-	< 50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
09/13/02		**		<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
12/13/02	4	0		<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
03/01/03	24		-22	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
06/27/033	45			<50	<0.5	< 0.5	<0.5	<0.5	<0.5
09/30/033	44.1	1949	44	<50	< 0.5	<0.5	<0.5	<0.5	<0.5
12/03/03	20	-		<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/043				<50	< 0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 ³	A.E.	1,000		<50	< 0.5	< 0.5	<0.5	<0.5	<0.5
09/30/04 ³				<50	< 0.5	<0.7	<0.8	<0.8	<0.5
12/29/04 ³	44	4-		<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 ³				<50	< 0.5	< 0.5	<0.5	<0.5	<0.5
06/22/053	22			<50	< 0.5	< 0.5	<0.5	<0.5	<0.5
09/02/053	-	••	-	<50	< 0.5	14	< 0.5	14	< 0.5
2/02/05 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/20/06 ³				<50	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
$06/01/06^3$			-	<50	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
09/11/06 ³	***		44	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
08/27/08 ³	**		4-	<50	< 0.5	<0.5	< 0.5	<0.5	<0.5
11/21/085	-		-	<50	< 0.5	< 0.5	<0.5	<0.5	
2/13/09 ⁵	-			<50	< 0.5	< 0.5	<0.5	<0.5	-
05/08/09 ⁵	-	-		<50	< 0.5	< 0.5	< 0.5	<0.5	-
08/07/09 ⁵ DISCONTINUED	-	-	-01	<50	<0.5	<0.5	<0.5	<0.5	180

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029 890 West MacArthur Blvd. Oakland, California

EXPLANATIONS:

TOC = Top of CasingTPH = Total Petroleum HydrocarbonsX = Xylenes(ft.) = FeetGRO = Gasoline Range OrganicsMTBE = Methyl Tertiary Butyl EtherDTW = Depth to WaterB = Benzene(μ g/L) = Micrograms per literGWE = Groundwater ElevationT = Toluene-- = Not Measured/Not Analyzed(msl) = Mean sea levelE = EthylbenzeneQA = Quality Assurance/Trip Blank

- * TOC elevations were surveyed on October 1, 2008, by CRA. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

 TOC elevations were surveyed on March 14, 2002, by Virgil Chavez Land Surveying. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return
 - at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).
- Well development performed.
- ² MTBE by EPA Method 8260.
- BTEX and MTBE by EPA Method 8260.
- Laboratory confirmed analytical result.
- 5 BTEX by EPA Method 8260.

Table 2
Groundwater Analytical Results - Oxgenate Compounds

Former Chevron Service Station #9-2029 890 West MacArthur Blvd.

WELL ID	DATE	ETHANOL	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
		(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)
MW-5	08/27/08	1 841	2	10	< 0.5	<0.5	<0.5		
	11/21/08		4	8	< 0.5	<0.5	<0.5	-	
	02/13/09		3	6	<0.5	< 0.5	<0.5		**
	05/08/09		7	2	<0.5	< 0.5	<0.5		
	08/07/09		<2	2	<0.5	<0.5	<0.5	46.1	7.77
	11/05/09		2	0.9	<0.5	< 0.5	<0.5		**
	05/06/10	10	<2	0.9	<0.5	<0.5	<0.5	-	**
	11/03/10	5	<2	0.9	<0.5	<0.5	<0.5	-	-
	05/10/11	1, 22	<2	<0.5	<0.5	<0.5	<0.5	-	-
11/10/11	_	<2	<0.5	<0.5	<0.5	<0.5	-	-	
	25 73 10 00		-			7010	-0.5	-	-
4W-6 08/27/08	-	390	440	< 0.5	< 0.5	6			
	11/21/08	10 53 11	320	300	<13	<13	<13	199	
05/08/09 08/07/09	02/13/09		100	180	<1	<1	4	44	
			16	38	< 0.5	< 0.5	0.9		-
			190	330	<3	<3	5		
	11/05/09	0 -4 0	86	160	<1	<1	4		-
	05/06/10	-	2	9	< 0.5	< 0.5	< 0.5	44	100
	11/03/10	-	98	160	<3	<3	3		
	05/10/11	15	<2	< 0.5	< 0.5	< 0.5	< 0.5	**	
	11/10/11	-	19	37	<1	<1	<1	-	-
MW-7	08/27/08	-	<2	6	<0.5	<0.5	< 0.5	G	
	11/21/08		5	6	< 0.5	< 0.5	<0.5	-	-
	02/13/09	6-	<2	7	< 0.5	<0.5	<0.5		
	05/08/09	2-	<2	8	< 0.5	< 0.5	<0.5		
	08/07/09	**	4	5	< 0.5	< 0.5	<0.5		
	11/05/09	**	9	5	<1	<1	<1		
	05/06/10	4-1	3	6	< 0.5	< 0.5	<0.5	-	- 55
	11/03/10		6	4	< 0.5	< 0.5	<0.5		-
	05/10/11		3	5	< 0.5	<0.5	<0.5	-	
	11/10/11	10.0	4	5	<0.5	<0.5	<0.5	100	-

Table 2
Groundwater Analytical Results - Oxgenate Compounds

Former Chevron Service Station #9-2029 890 West MacArthur Blvd.

WELL ID	DATE	ETHANOL	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
		(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
IW-8	08/27/08	199.0	<2	< 0.5	<0.5	<0.5	< 0.5		1.2
	11/21/08	640	<2	< 0.5	< 0.5	<0.5	<0.5	*	
	02/13/09	447	<2	<0.5	< 0.5	<0.5	< 0.5		
	05/08/09		<2	< 0.5	< 0.5	<0.5	< 0.5		
	08/07/09		<2	< 0.5	<0.5	<0.5	<0.5		
	11/05/09	140	<2	< 0.5	< 0.5	< 0.5	< 0.5	2	
	05/06/10	100	<2	< 0.5	< 0.5	< 0.5	< 0.5	2	-
	11/03/10 05/10/11		<2	< 0.5	< 0.5	< 0.5	<0.5	-	
		***	<2	< 0.5	< 0.5	< 0.5	<0.5	-	
11/10/11		<2	<0.5	<0.5	<0.5	<0.5	7	-	
/IW-1	03/12/02	_	<100	<2	<2	<2	<2	<2	<2
	06/07/02	(94)	<100	<2	<2	<2	<2	<2	<2
	09/13/02		<100	<2	<2	<2	<2	<2	<2
	12/13/02		<100	<2	<2	<2	<2	<2	<2
	03/01/03	244	<5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
	06/27/03		<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/03	<50	<5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/03	<50	<5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/04	<50	<5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/30/04	<50	<5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/04	< 50	<5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/31/04	< 50	<5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
	03/23/05	<50	<5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/22/05	< 50	<5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/02/05 DESTROYED	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
/IW-2	03/12/02	-	<100	3	<2	<2	<2	<2	<2
	06/07/02	44	<100	<2	<2	<2	<2	<2	<2
	09/13/02	••	<100	<2	<2	<2	<2	<2	<2
	12/13/02	**	<100	<2	<2	<2	<2	<2	<2
	03/01/03	***	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	06/27/03		<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	09/30/03	<50	<5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	12/03/03	< 50	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Table 2
Groundwater Analytical Results - Oxgenate Compounds

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

WELL ID	DATE	ETHANOL	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
		(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)
MW-2 (cont)	03/10/04	<50	<5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
	06/30/04	<50	<5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5
	09/30/04	<50	<5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
	12/31/04	<50	<5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5
	03/23/05	<50	<5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5
	06/22/05	<50	<5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
	09/02/05	<50	<5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
	DESTROYED								
MW-3	03/12/02	4	<100	650	<2	<2	18	<2	<2
	06/07/02		230	490	< 5.0	<5.0	11	<5.0	<5.0
	09/13/02	(**)	170	640	<2	<2	8	<2	<2
	12/13/02	447	240	540	<2	<2	29	31	<2
	03/01/03		160	330	< 0.5	< 0.5	10	< 0.5	<0.5
	06/27/03		200	470	< 0.5	< 0.5	11	< 0.5	<0.5
	09/30/03	<50	120	710	< 0.5	< 0.5	6	0.7	<0.5
	12/03/03	<250	200	420	<3	<3	14	<3	<3
	03/10/04	<50	140	220	< 0.5	< 0.5	5	< 0.5	< 0.5
	06/30/04	<50	100	660	< 0.5	< 0.5	5	< 0.5	< 0.5
	09/30/04	<50	72	690	< 0.5	< 0.5	4	0.5	< 0.5
	12/31/04	<50	77	170	< 0.5	< 0.5	5	< 0.5	<0.5
	03/23/05	<50	<5	140	< 0.5	< 0.5	4	< 0.5	3
	06/22/05	<250	150	300	<3	<3	6	<3	<3
	09/02/05	<100	99	440	<1	<1	<1	1>	<1
	12/02/05	<100	66	170	<1	<1	.5	<1	<1
	03/20/06	<50	14	34	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
	06/01/06	<50	12	28	< 0.5	< 0.5	0.8	< 0.5	< 0.5
	09/11/06	<50	47	97	< 0.5	< 0.5	2	<0.5	< 0.5
	DESTROYED								
MW-4	03/12/02	4	<100	170	<2	<2	13	<2	<2
	06/07/02	-	<100	120	<2	<2	14	<2	<2
	09/13/02		<100	160	<2	<2	14	<2	<2
	12/13/02		<100	200	<2	<2	17	<2	<2
	03/01/03		19	100	< 0.5	< 0.5	8	< 0.5	< 0.5
	06/27/03		22	130	< 0.5	< 0.5	11	< 0.5	< 0.5
	09/30/03	<100	<10	520	<1	<1	9	<1	<1

Table 2
Groundwater Analytical Results - Oxgenate Compounds

Former Chevron Service Station #9-2029 890 West MacArthur Blvd.

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-4 (cont)	12/03/03	<50	18	73	<0.5	<0.5	5	<0.5	<0.5
	03/10/04	<50	11	55	< 0.5	< 0.5	4	<0.5	< 0.5
	06/30/04	<100	<10	110	<1	<1	6	<1	<1
	09/30/04	<50	17	400	< 0.5	< 0.5	7	< 0.5	< 0.5
	12/31/04	<50	11	42	< 0.5	< 0.5	2	<0.5	<0.5
	03/23/05	<50	<5	24	< 0.5	< 0.5	1	<0.5	0.9
	06/22/05	<50	15	18	< 0.5	< 0.5	1	<0.5	<0.5
	09/02/05	<50	6	18	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
	12/02/05	<50	.11	34	< 0.5	< 0.5	1	< 0.5	<0.5
	03/20/06	<50	<5	2	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
	06/01/06	<50	<5	2	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
D	09/11/06 ESTROYED	<50	<5	4	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxgenate Compounds

Former Chevron Service Station #9-2029 890 West MacArthur Blvd. Oakland, California

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

-- = Not Analyzed

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

EXPLANATIONS:

TBA = t-Butyl alcohol

MTBE = Methyl Tertiary Butyl Ether

ETBE = Ethyl t-butyl ether

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

TAME = t-Amyl methyl ether

¹ Laboratory confirmed analytical result.

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.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.



Client/Facility#:	Chevron #9-2029		Job Number:	386911	
Site Address:	890 West Macarth	nur Blvd.	Event Date:	11.10.11	(inclusive)
City:	Oakland, CA		Sampler:	Ft	
Well ID Well Diameter Total Depth Depth to Water	MW- 5 2 25.00 ft. 7.60 ft. 17.40 xVF_	Volum Factor Check if water colum 2 - 3 5	Date Monitored: e 3/4"= 0.0 (VF) 4"= 0.6 n is less then 0.50 x3 case volume =	2 1"= 0.04 2"= 0.17 6 5"= 1.02 6"= 1.50 0 ft. Estimated Purge Volume:	(2400 hrs)(2400 hrs)ftftftft
Start Time (purge Sample Time/Da Approx. Flow Rat Did well de-water Time (2400 hr.)	te: 1035 / 11 - 10.1 te: 1.5 gpm.	Sediment De	CLEAN escription:	gal. DTW @ Sampling	Troll: 10.95
SAMPLE ID MW-	(#) CONTAINER REFRIENCE X voa vial YES 2 x 1 liter ambers YES	HCL	FORMATION LABORATORY LANCASTER CHEVRON RTC	ANALYS TPH-GRO(8015)/BTEX(826 CHEVRON PFI STUDY	
COMMENTS:	ock: A	dd/Poplood Dive		Add/Darla I D II	
Add/Replaced L	ock: A	dd/Replaced Plug:		Add/Replaced Bolt:	



Client/Facility#:	Chevron #9-2029		Job Number:	386911	
Site Address:	890 West Macar	thur Blvd.	Event Date:	11.10.11	(inclusive)
City:	Oakland, CA		Sampler:	FT	
Well ID	MW- 6		Date Monitored:	11.10.11	
Well Diameter	2	Volum	ne 3/4"= 0.0	2 1"= 0.04 2"= 0.17 3	3"= 0.38
Total Depth	24.97 ft	Facto			2"= 5.80
Depth to Water	7.59 ft.	Check if water colum		0 ft. Estimated Purge Volume:	
Depth to Water v		ht of Water Column x 0.20)			· · · · · ·
Purge Equipment:		Sampling Equipment:		Time Completed:	(2400 hrs) (2400 hrs)
Disposable Bailer		Disposable Bailer		Depth to Product:	
Stainless Steel Bailer		Pressure Bailer		Depth to Water:	ft
Stack Pump		Metal Filters		Hydrocarbon Thickness:	ft
Suction Pump		Peristaltic Pump		Visual Confirmation/Desc	ription:
Grundfos		QED Bladder Pump			
Peristaltic Pump		Other:	-	Skimmer / Absorbant Soc	
QED Bladder Pump				Amt Removed from Skim Amt Removed from Well:	
Other:				Water Removed:	gal
Sample Time/Dat Approx. Flow Rat Did well de-water	e: <u>1-5</u> gpm.	Sediment De	CLEAN escription:	SUNHY Odor: OIN NCHE gal. DTW @ Sampling:	10.98
Time (2400 hr.)	Volume (gal.) pH	Conductivity (<u>μmhos</u> /cm - μS)	Temperature	D.O. ORI (mg/L) (mV	
1050	3.0 6.9	4 762	191		
1054	6.0 6.9	7720	197	,	
1056	9.0 6.8	7 7 91	20.0		
			70.0		
		LABORATORY IN	FORMATION		
SAMPLE ID	(#) CONTAINER REF	RIG. PRESERV. TYPE	LABORATORY	ANALYSE	
MW- Le	x voa vial YE		LANCASTER	TPH-GRO(8015)/BTEX(8260)/	5 OXYS (8260)
	2 x 1 liter ambers YE	S NP	CHEVRON RTC	CHEVRON PFI STUDY	
					
COMMENTS:					
Add/Replaced Lo	ock:	Add/Replaced Plug:		Add/Replaced Bolt:	



Client/Facility#:	Chevron #9-2	2029		Job Number:	386911	
Site Address:	890 West Ma	carthur	Blvd.	Event Date:	11.10-11	(inclusive)
City:	Oakland, CA			Sampler:	FT	(iliciusive)
	Jakiana, OA			Sampler.		-
Well ID	MW- `		D	ate Monitored:	11.10.11	
Well Diameter	2					
Total Depth	24.91 ft.		Volume Factor			3"= 0.38 2"= 5.80
Depth to Water	9.68 ft.	Пс	ــــــــــ heck if water columi			. 0.00
					Estimated Purge Volume: 8	
Depth to Water v	w/ 80% Recharge					gal.
	condigo	((loight of t	ater column x c.zc)	DIVI.	Time Started:	(2400 hrs)
Purge Equipment:		Sa	mpling Equipment:		Time Completed:	(2400 hrs)
Disposable Bailer		Dis	sposable Bailer		Depth to Product:	ft
Stainless Steel Bailer		Pro	essure Bailer		Depth to Water:	ft
Stack Pump		Me	etal Filters		Hydrocarbon Thickness. Visual Confirmation/Desc	ft
Suction Pump		Pe	ristaltic Pump		Visual Confirmation/Desc	inption:
Grundfos		QE	D Bladder Pump		Skimmer Absorbant Soc	ck (circle one)
Peristaltic Pump		Otl	her:		Amt Removed from Skim	
QED Bladder Pump					Amt Removed from Well:	gal
Other:					Water Removed:	
Sample Time/Dai Approx. Flow Rai Did well de-water Time (2400 hr.) 11 2 7 11 2 9 11 3 1	te: 1.5	ppm. pH 0 13 0 90 6 87	Conductivity (µmhos/cm - µS) 768 715 722	Temperature (Ø/ F) 19.9 20.2	SUNNY Odor: のIN STI S. S. LTY gal. DTW @ Sampling: D.O. ORF (mg/L) (mV	
SAMPLE ID	(#) CONTAINER	REFRIG.	ABORATORY INI PRESERV. TYPE		4141.40=	
MW-	x voa vial	YES	HCL	LANCASTER	ANALYSE: TPH-GRO(8015)/BTEX(8260)/	
	2 x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY	3 3713 (0200)
COMMENTS:						
Add/Replaced L	ock:	Add/R	eplaced Plug:		Add/Replaced Bolt:	



Client/Facility#:				Job Number:	386911		_
Site Address:	890 West N	<u>llacarthur</u>	r Blvd.	Event Date:		0.11	(inclusive)
City:	Oakland, C	A		Sampler:	FT		
Well ID	MW- 8	5_	[Date Monitored:	11.1	D. 11	
Well Diameter	2 i	n.	Volum	ne 3/4"= 0.0		2"= 0.17 3"= 0.38	ā
Total Depth	24.96 F	t.	Factor			2 = 0.17 3"= 0.38 6"= 1.50 12"= 5.80	· 1
Depth to Water		_ t. По	ــــــا Check if water colum	n is less then 0.5	Ω ft		
	1347		7 = 2.28			Volume: 70	1
Depth to Water	w/ 80% Recharge	e ((Height of V	Vater Column x 0.20)	DTWI: 14 1	2 I	volume	_ gai.
·	3	- K			Time Starte		(2400 hrs)
Purge Equipment:		S	ampling Equipment:		Time Comp		(2400 hrs)
Disposable Bailer		D	isposable Bailer		Depth to Pr		ft
Stainless Steel Baile	er	P	ressure Bailer		Depth to W	on Thickness:	ft ft
Stack Pump	-	D	iscrete Bailer			irmation/Description:	
Suction Pump			eristaltic Pump				
Grundfos		Q	ED Bladder Pump		Skimmer / /	bsorbant Sock (circled from Skimmer:	e one)
Peristaltic Pump		0	ther:		Amt Remov	red from Skimmer: red from Well:	gal
QED Bladder Pump					Water Rem	oved:	-
Other:					Product Tra	nsferred to:	
Start Time (purge	e): 1200 ite: 1225/1	100	Weather Col	_	542	אַען	
Approx. Flow Ra			Water Color:		Odor: Y / 🐠		
			Cooling and D.	and the African Co.			
•		_gpm.	Sediment De			SILTY !	
Did well de-water			Sediment De				44
•							44
Did well de-water	r? No If	f yes, Time:	Volur	Temperature	gal. DTW @ S	ampling: 13	44
Time (2400 hr.)	r? No If	f yes, Time:	Volur Conductivity (μmhos/cm - μS)	Temperature	gal. DTW @ S	ampling: 13	44
Time (2400 hr.)	r? No If	f yes, Time:	Conductivity (µmhos/cm - µS)	Temperature	gal. DTW @ S	ampling: 13	44
Time (2400 hr.)	r? No If	f yes, Time:	Conductivity (µmhos/cm - µS)	Temperature (C) F)	gal. DTW @ S	ampling: 13	44
Time (2400 hr.)	r? No If	pH 7.21 7.19 7.17	Conductivity (µmhos/cm - µS) 487 492 497	Temperature (6) F) 20.0 20.1	gal. DTW @ S	ampling: 13	44
Time (2400 hr.)	Volume (gal.) 2.5 5.0 7.4	pH 7.21 7.19 7.17	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN	Temperature (©/ F) 20.0 20.1	gal. DTW @ S	ORP (mV)	44
Time (2400 hr.) 12 15 SAMPLE ID	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	.44
Time (2400 hr.)	Volume (gal.) 2.5 5.0 7.4	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN	Temperature (©/ F) 20.0 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	S (8260)
Time (2400 hr.) 12 15 SAMPLE ID	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	6 (8260)
Time (2400 hr.) 12 15 SAMPLE ID	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	S (8260)
Time (2400 hr.) 12 15 SAMPLE ID	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	6 (8260)
Time (2400 hr.) 12 15 SAMPLE ID	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	S (8260)
Time (2400 hr.) 12 15 SAMPLE ID	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	6 (8260)
Time (2400 hr.) 12 15 SAMPLE ID	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	6 (8260)
Time (2400 hr.) 1205 1215 SAMPLE ID MW-8	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	S (8260)
Time (2400 hr.) 12 15 SAMPLE ID	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	S (8260)
Time (2400 hr.) 1205 1215 SAMPLE ID MW-8	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	6 (8260)
Time (2400 hr.) 1205 1215 SAMPLE ID MW-8	Volume (gal.) 2.5 5.0 7.4 (#) CONTAINER	pH 7.21 7.19 7.17 REFRIG.	Conductivity (µmhos/cm - µS) 487 492 497 ABORATORY IN PRESERV. TYPE	Temperature (© / F) 20.0 20.1 20.1	gal. DTW @ S D.O. (mg/L)	ORP (mV)	S (8260)

Chevron California Region Analysis Request/Chain of Custody



111611-64

Acct. #: 13099 | For Lancaster Laboratories use only | Sample # 6467906-09 | Group #: 008286

		CRA MTI	Proje	ect :	k 61-	1974	Г			A	nalys	es	Requested	-	1 G# 12-	16161	0
Facility #: 890 WEST MACARTHUR BLY Site Address: MTI	VD., OAKLA	ND, CA	man		Matrix		H	H		P	H	vat	ion Codes		Preserv H = HCl N = HNO ₃	ative Cod T = Thio: B = NaO	es sulfate
Chevron PM:	925- Fax #:	551-7899	oosite		r Potable	Air	8	TPH 8015 MOD GRO	PH 8015 MOD DRO 🗆 Silica Gel Cleanup	8260 full scan		and Method	ad Lead Method		S = H ₂ SO ₄ U J value report Must meet lo possible for 8 8021 MTBE Co Confirm high Confirm all high	west detect 260 compo nfirmation est hit by 8 ts by 8260	d tion limits bunds 260
Sample Identification	Date Collected	Time Collected		Soll	Water		BTEX	E S	품	8260 fu	W	otal Lead	Dissolved L		Runox		
Mw-10 Mw-7 Mw-8		035			4		×	XXX			XXXX				Comments /	Remarks	
Turnaround Time Requested (TAT) (please cires STD. TAT 72 hour 48 hour 4 day 5 day	•	Relinquish Helinquish	ed by:	0	_			Sh	1.14	-4-	Tim 131	5	Received by: Received by: Sout	THE		Date OU!	Time (315 Time
Data Package Options (please circle if required) ☐ QC Summary Type ! - Full Type VI (Raw Data) □ Coelt Deliverable not need WIP (RWQCB) Disk		Refinquish UPS Temperatu	ed by (dEx	(Oth)	_ D	ale	Tim	0	Received by: Received by: ////// Custody Segle	1 Bed	Yas No	Date //////	Time Time



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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Prepared for:

Chevron c/o CRA Suite 107 10969 Trade Center Dr Rancho Cordova CA 95670

November 22, 2011

Project: 92029

Submittal Date: 11/11/2011 Group Number: 1276166 PO Number: 92029 Release Number: MTI State of Sample Origin: CA RECEIWED

NOV 2 3 2011

GETTLER-RYAN INC. GENERAL CONTRACTORS

Client Sample Description

MW-5-W-111110 Grab Water MW-6-W-111110 Grab Water MW-7-W-111110 Grab Water MW-8-W-111110 Grab Water Lancaster Labs (LLI) #

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

ELECTRONIC

Gettler-Ryan, Inc.

Attn: Rachelle Munoz

COPY TO

ELECTRONIC

Chevron c/o CRA

Attn: Report Contact

COPY TO

Chevron

Attn: Anna Avina

ELECTRONIC CI



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Questions? Contact your Client Services Representative Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

Robin C. Runkle Senior Specialist

Pala C Rum



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Sample Description: MW-5-W-111110 Grab Water

Facility# 92029 Job# 386911 MTI# 61-1974 GRD

890 W MacArthur-Oakland T0600173887 MW-5

LLI Sample # WW 6467906

LLI Group # 1276166

Account

12099

Project Name: 92029

Collected: 11/10/2011 10:35

Submitted: 11/11/2011 21:15

Reported: 11/22/2011 18:32

by FT

Chevron c/o CRA

Suite 107

10969 Trade Center Dr

Rancho Cordova CA 95670

WMO05

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	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10943	Benzene	71-43-2	6	0.5	1
10943	t-Butyl alcohol	75-65-0	N.D.	2	1
10943	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	10	0.5	1
10943	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	3	0.5	1
10943	Xylene (Total)	1330-20-7	2	0.5	1
GC Vo	latiles SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,600	50	1

General Sample Comments

State of California Lab Certification No. 2501 Trip blank vials were not received by the laboratory for this sample group.

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 + 5 Oxygenates 8260 Water	SW-846 8260B	1	Z113221AA	11/18/2011 18:51	Daniel H Heller	1
01728	GC/MS VOA Water Prep TPH-GRO N. CA water C6-C12 GC VOA Water Prep	SW-846 5030B SW-846 8015B SW-846 5030B	1 1 1	Z113221AA 11319B07A 11319B07A	11/18/2011 18:51 11/16/2011 17:04 11/16/2011 17:04	Daniel H Heller Laura M Krieger Laura M Krieger	1 1 1



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Page 1 of 1

Sample Description: MW-6-W-111110 Grab Water

Facility# 92029 Job# 386911 MTI# 61-1974 GRD

890 W MacArthur-Oakland T0600173887 MW-6

LLI Sample # WW 6467907

LLI Group # 1276166

Account # 12099

Project Name: 92029

Collected: 11/10/2011 11:10 by FT

Chevron c/o CRA

Suite 107

Submitted: 11/11/2011 21:15 Reported: 11/22/2011 18:32

10969 Trade Center Dr Rancho Cordova CA 95670

WMO06

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles SW	-846 8	1260B	ug/l	ug/l	
10943	t-Amyl methyl ether		994-05-8	N.D.	1	2
10943	Benzene		71-43-2	260	1	2
10943	t-Butyl alcohol		75-65-0	19	4	2
10943	Ethyl t-butyl ether		637-92-3	N.D.	1	2
10943	Ethylbenzene		100-41-4	180	1	2
10943	di-Isopropyl ether		108-20-3	N.D.	1	2
10943	Methyl Tertiary Butyl E	ther	1634-04-4	37	1	2
10943	Toluene		108-88-3	7	1	2
10943	Xylene (Total)		1330-20-7	13	1	2
GC Vol	latiles SW-	-846 8	015B	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-	C12	n.a.	5,700	250	5

General Sample Comments

State of California Lab Certification No. 2501 Trip blank vials were not received by the laboratory for this sample group.

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 + 5 Oxygenates 8260 Water	SW-846 8260B	1	Z113221AA	11/18/2011 19:15	Daniel H Heller	2
01728	GC/MS VOA Water Prep TPH-GRO N. CA water C6-C12 GC VOA Water Prep	SW-846 5030B SW-846 8015B SW-846 5030B	_	Z113221AA 11319B07A 11319B07A	11/18/2011 19:15 11/16/2011 20:04 11/16/2011 20:04	Daniel H Heller Laura M Krieger Laura M Krieger	2 5 5



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Sample Description: MW-7-W-111110 Grab Water

Facility# 92029 Job# 386911 MTI# 61-1974 GRD

890 W MacArthur-Oakland T0600173887 MW-7

LLI Sample # WW 6467908

LLI Group # 1276166

Account # 12099

Project Name: 92029

Collected: 11/10/2011 11:45 by FT

Chevron c/o CRA

Suite 107

Submitted: 11/11/2011 21:15 Reported: 11/22/2011 18:32

10969 Trade Center Dr Rancho Cordova CA 95670

WMO07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles SW-8	46 8260B	ug/l	ug/l	
10943	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10943	Benzene	71-43-2	2	0.5	1
10943	t-Butyl alcohol	75-65-0	4	2	1
10943	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	2	0.5	1
10943	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ethe	er 1634-04-4	5	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-84	46 8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	1,500	50	1

General Sample Comments

State of California Lab Certification No. 2501 Trip blank vials were not received by the laboratory for this sample group.

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 + 5 Oxygenates 8260 Water	SW-846 8260B	1	Z113221AA	11/18/2011 19:39	Daniel H Heller	1
01728	GC/MS VOA Water Prep TPH-GRO N. CA water C6-C12 GC VOA Water Prep	SW-846 5030B SW-846 8015B SW-846 5030B	1 1 1	Z113221AA 11319B07A 11319B07A	11/18/2011 19:39 11/16/2011 17:30 11/16/2011 17:30	Daniel H Heller Laura M Krieger Laura M Krieger	1 1 1



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Sample Description: MW-8-W-111110 Grab Water

Facility# 92029 Job# 386911 MTI# 61-1974 GRD

890 W MacArthur-Oakland T0600173887 MW-8

LLI Sample # WW 6467909

LLI Group # 1276166 Account # 12099

Project Name: 92029

Collected: 11/10/2011 12:25

Submitted: 11/11/2011 21:15

Reported: 11/22/2011 18:32

by FT

Chevron c/o CRA

Suite 107

10969 Trade Center Dr

Rancho Cordova CA 95670

800MW

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	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	
10943	Benzene	71-43-2	N.D.	0.5	1	
10943	t-Butyl alcohol	75-65-0	N.D.	2	1	
10943	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	
10943	di-Isopropyl ether	108-20-3	N.D.	0.5	1	
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	
10943	Toluene	108-88-3	N.D.	0.5	1	
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	
GC Vol	latiles SW-846	8015B	ug/l	ug/l		
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1	

General Sample Comments

State of California Lab Certification No. 2501 Trip blank vials were not received by the laboratory for this sample group.

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 + 5 Oxygenates 8260 Water	SW-846 8260B	1	Z113221AA	11/18/2011 20:03	Daniel H Heller	1
01728	GC/MS VOA Water Prep TPH-GRO N. CA water C6-C12 GC VOA Water Prep	SW-846 5030B SW-846 8015B SW-846 5030B	1 1 1	Z113221AA 11319B07A 11319B07A	11/18/2011 20:03 11/16/2011 17:56 11/16/2011 17:56	Daniel H Heller Laura M Krieger Laura M Krieger	1 1 1



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Quality Control Summary

Client Name: Chevron c/o CRA Reported: 11/22/11 at 06:32 PM

Group Number: 1276166

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z113221AA	Sample numbe	er(s): 646	7906-6467	909				
t-Amyl methyl ether	N.D.	0.5	ug/l	96	92	77-120	5	30
Benzene	N.D.	0.5	ug/l	101	97	79-120	5	30
t-Butyl alcohol	N.D.	2.	ug/l	104	97	62-129	7	30
Ethyl t-butyl ether	N.D.	0.5	ug/l	92	95	76-120	3	30
Ethylbenzene	N.D.	0.5	ug/l	106	99	79-120	8	30
di-Isopropyl ether	N.D.	0.5	ug/l	92	95	71-124	2	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101	105	76-120	4	30
Toluene	N.D.	0.5	ug/l	107	101	79-120	5	30
Xylene (Total)	N.D.	0.5	ug/l	104	97	80-120	7	30
Batch number: 11319B07A	Sample numbe	er(s): 646	7906-6467	909				
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water

Batch number: Z113221AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6467906	95	96	99	102
6467907	91	92	108	105
6467908	93	94	101	106
6467909	94	94	107	98
Blank	99	98	110	97
LCS	91	92	108	102
LCSD	98	99	103	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12 Batch number: 11319B07A

Trifluorotoluene-F

6467906 126

6467907 115 6467908 130

*- Outside of specification

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



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Quality Control Summary

Client Name: Chevron c/o CRA Reported: 11/22/11 at 06:32 PM

Group Number: 1276166

Surrogate Quality Control

6467909 97 Blank 101 LCS 112 LCSD 111

Limits: 63-135

*- Outside of specification

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



Explanation of Symbols and Abbreviations

Inorganic Qualifiers

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	ř	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	Ĭ	liter(s)
m3	cubic meter(s)	ui	microliter(s)

- less than The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.
- greater than
- estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For ppm aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight 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 basis on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	
O in a manufula adult a condensation of the	_

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	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.

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