

RECEIVED

9:41 am, Apr 22, 2009

Alameda County Environmental Health Stacie H. Frerichs Team Lead Marketing Business Unit

Chevron Environmental Management Company 6001 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 842-9655 Fax (925) 842-8370

April 20, 2009 (date)

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

Re: Chevron Facility #_9-1740____

Address: 6550 Moraga Avenue, Oakland, California_

I have reviewed the attached report titled <u>First Semi-Annual 2009 Groundwater Monitoring</u> and dated <u>April 20, 2009</u>.

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,

Stacie H. Frerichs Project Manager

5H Frencho

Enclosure: Report



2000 Opportunity Dr, Suite 110, Roseville, California 95678 Telephone: 916·677·3407, ext. 100 Facsimile: 916·677·3687

www.CRAworld.com

April 20, 2009

Reference No. 611978

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

Re:

First Semi-Annual 2009 Groundwater Monitoring Report

Chevron Service Station 9-1740

6550 Moraga Avenue Oakland, California LOP Case #RO0000256

Dear Mr. Plunkett:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The report (prepared by Gettler-Ryan Inc. and dated March 27, 2009) presents the results of the monitoring and sampling of wells C-2 through C-4 during first quarter 2009. Monitoring of wells C-2 and C-4 is performed on a semi-annual basis during the first and third quarters; monitoring of well C-3 is performed annually during the first quarter. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the first semi-annual 2009 analytical results along with a rose diagram. Please contact Mr. James Kiernan at (916) 751-4102 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Christopher J. Benedict

James P. Kiernan, P.E. #C68498

CB/kw/2 Encl.

Figure 1

Vicinity Map

Figure 2

Concentration Map – March 3, 2009

Attachment A

First Semi-Annual 2009 Groundwater Monitoring and Sampling Report

cc: Ms. Stacie Frerichs, Chevron Environmental Management Company

FIGURES

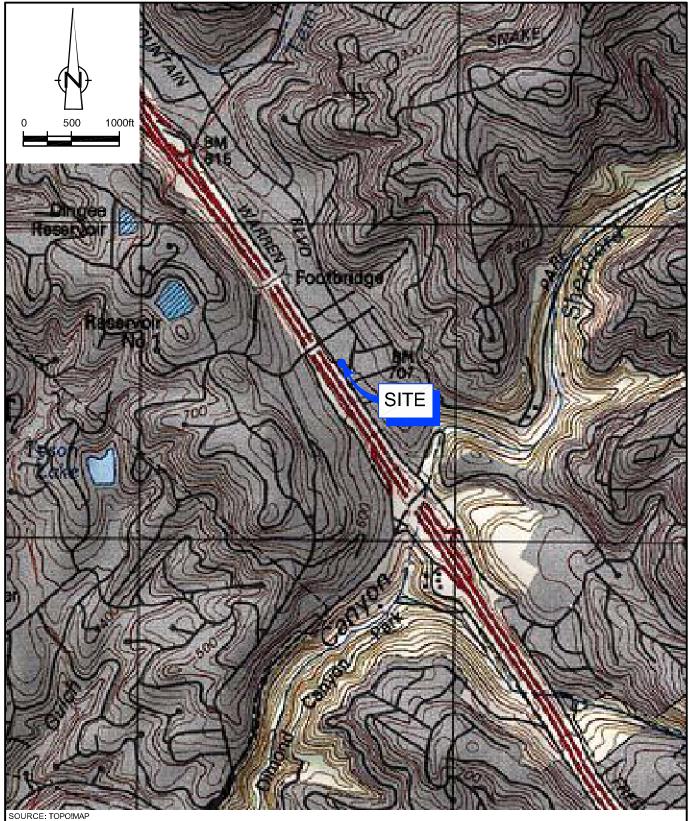
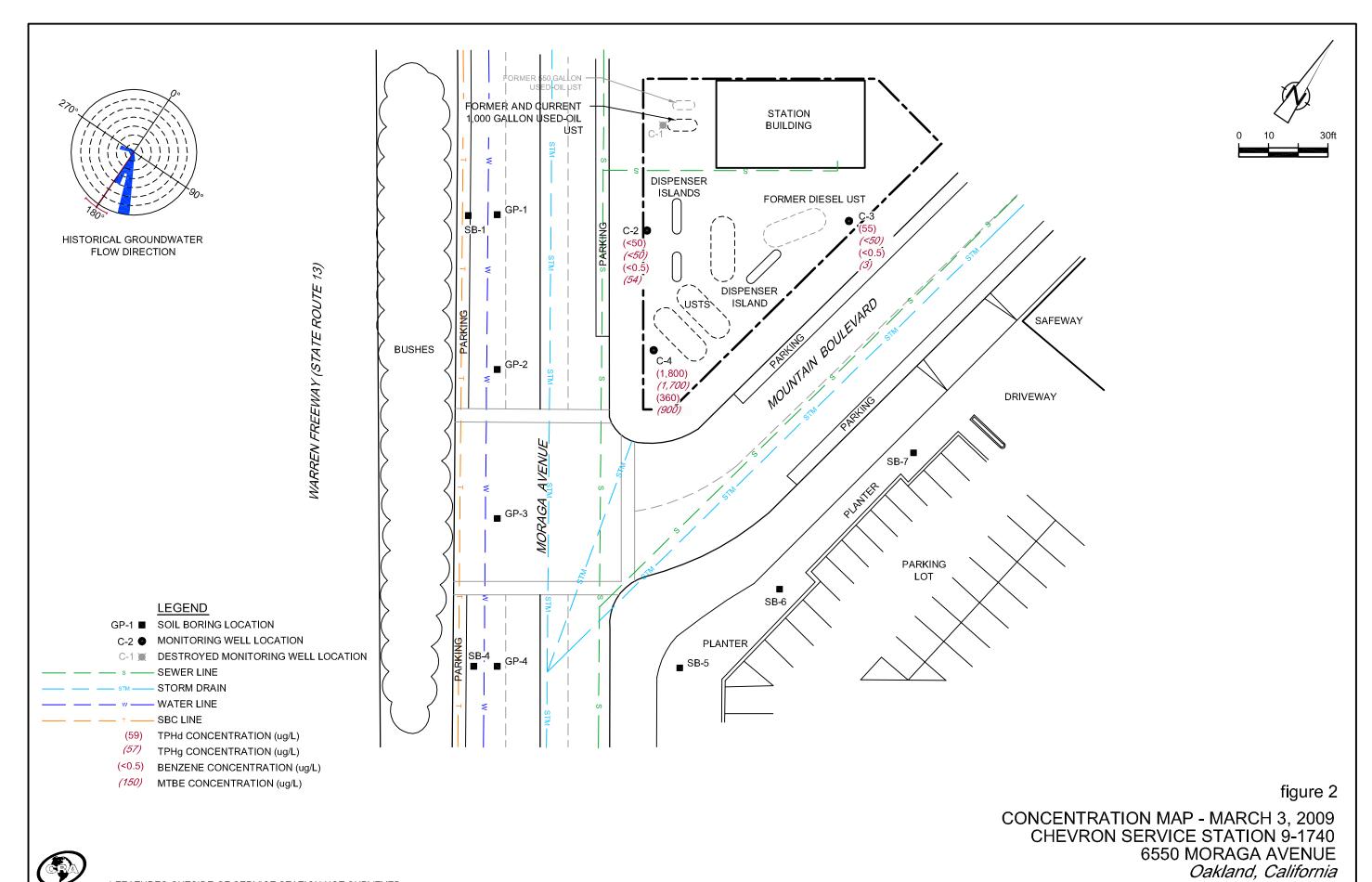


figure 1

VICINITY MAP CHEVRON SERVICE STATION 9-1740 6550 MORAGA AVENUE Oakland, California





ATTACHMENT A
FIRST SEMI-ANNUAL 2009 GROUNDWATER MONITORING AND SAMPLING REPORT

20

TRANSMITTAL

April 3, 2009 G-R #386507

TO: Mr. James Kiernan

Conestoga-Rovers & Associates 2000 Opportunity Drive, Suite 110

Roseville, California 95678

FROM: Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568 **RE:** Chevron Service Station

#9-1740 (MTI)

6550 Moraga Avenue Oakland, California

RO 0000256

WE HAVE ENCLOSED THE FOLLOWING:

1	COPIES	DATED	DESCRIPTION
	2	March 27, 2009	Groundwater Monitoring and Sampling Report First Semi-Annual Event of March 3, 2009

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for <u>your use</u> and distribution to the following:

Ms. Stacie H. Frerichs, Chevron Environmental Management Company, 6111 Bollinger Canyon Rd., Room 3596, San Ramon, CA 94583

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to *April 17*, 2009, at which time this final report will be distributed to the following:

cc: Mr. Eddie So, RWQCB-San Francisco Bay Region, 1515 Clay St., Suite 1400, Oakland, CA 94612 (No Hard Copy)

Mr. Steven Plunkett, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 (No Hard Copy-UPLOAD TO ALAMEDA CO.)

Enclosures



Stacie H. Frerichs Team Lead Marketing Business Unit Chevron Environmental Management Company 6001 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 842-9655 Fax (925) 842-8370

April 3, 2009 (date)

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

Re: Chevron Facility # 9-1740

Address: 6550 Moraga Ave., Oakland, California

I have reviewed the attached routine groundwater monitoring report dated April 3, 2009

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 Gettler-Ryan, Inc., 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,

Stacie H. Frerichs Project Manager

Enclosure: Report

WELL CONDITION STATUS SHEET

					WELL C	OHIDHO	N SIAIUS	2HEE!			
Client/Facility #:		#9-1740				_	Job#	386507			
Site Address:		raga Ave	nue		·	_	Event Date:	3-	3-00	1	•
City:	Oakland	, CA			11		Sampler:	50	<u>e</u>		
WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
C-2	0.16						<u> </u>	N	N	12" Emco/2	No
c-3 c-4	0.16							1		12" EMCO/2 12" EMCO/2 12" POMECO/2	1
c-4	0.16						>	V		12"POMECO/2	
					53						
									2		
				8							
		- <u> </u>									
Comments									<u> </u>		



March 27, 2009 G-R Job #386507

Ms. Stacie H. Frerichs Chevron Environmental Management Company 6111 Bollinger Canyon Road, Room 3596 San Ramon, CA 94583

RE: First Semi-Annual Event of March 3, 2009

Groundwater Monitoring & Sampling Report

Chevron Service Station #9-1740

6550 Moraga Avenue Oakland, California

Dear Ms. H. Frerichs:

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

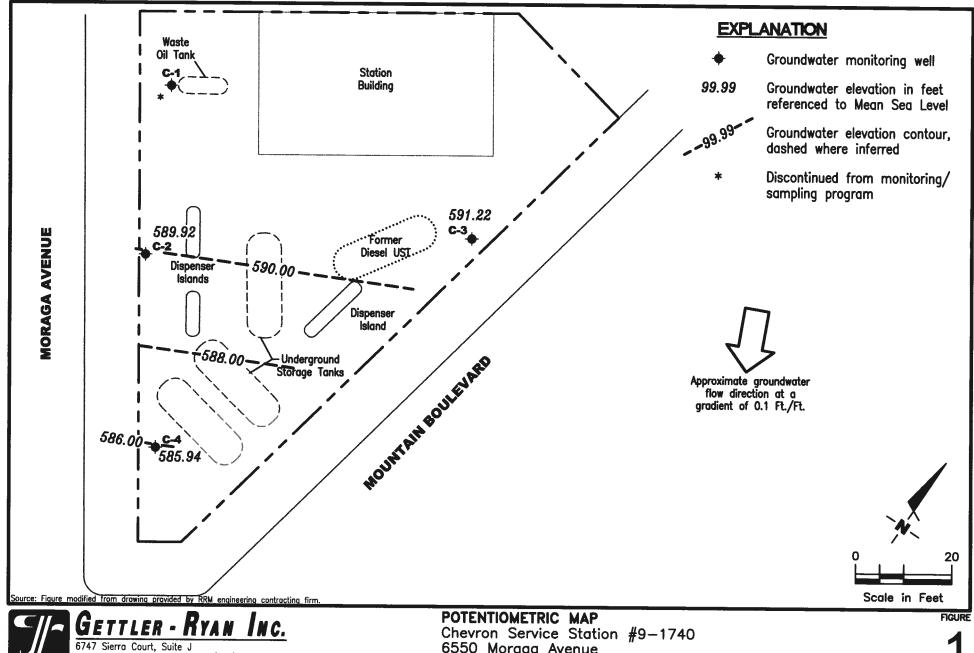
Table 2: Dissolved Oxygen Concentrations

Table 3: Groundwater Analytical Results - Oxygenate Compounds Attachments: Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

No. 6882



PROJECT NUMBER 386507

REVIEWED BY

(925) 551-7555

6550 Moraga Avenue Oakland, California

DATE

March 3, 2009

REVISED DATE

Dublin, CA 94568

WELL ID/	TOC*	GWE	DTW	SPHT	TPH-DRO	TPH-GRO	В	T	E	X	MTBE
DATE	(fL)	(msl)	(ft.)	(ft.)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)
C-2											
03/25/91	594.57	571.68	22.89			<50	1.0	< 0.5	< 0.5	2.0	
07/01/91	594.57	587.20	7.37			660	190	2.5	28	22	
09/25/91	594.57	587.59	6.98			110	200	1.9	21	1.7	
12/23/91	594.57	589.56	5.01			< 50	1.2	1.2	< 0.5	1.8	
03/24/92	594.57	577.30	17.27			100	5.9	7.9	4.0	14	
06/23/92	594.57	590.75	3.82			190	45	4.5	9.5	10	
09/30/92	594.57	580.56	14.01			240	99	2.3	11	6.1	
12/16/92	594.57	580.05	14.52			280	160	6.2	7.4	5.0	
03/30/93	594.57	583.49	11.08			110	21	< 0.5	0.8	<1.5	
06/10/93	594.57	583.08	11.49			180	53	2.6	8.0	5.8	
09/02/93	594.57	580.49	14.08			51	18	0.8	4.4	<1.5	
12/06/93	594.57	579.87	14.70			< 50	20	1.3	2.7	< 0.5	
03/02/94	594.57	579.70	14.87			< 50	9.9	1.6	< 0.5	0.8	
06/03/94	594.57	579.35	15.22			440	300	2.7	61	2.1	
09/07/94	594.57	587.27	7.30			80	30	< 0.5	1.6	< 0.5	
12/06/94	594.57	589.29	5.28			120	51	< 0.5	4.7	< 0.5	
03/31/95	594.57	589.13	5.44			770	250	< 5.0	74	<5.0	
06/15/95	594.57	589.62	4.95			240	76	<1.0	26	<1.0	
09/25/95	594.57	587.78	6.79			< 50	1.2	< 0.5	< 0.5	< 0.5	
12/19/95	594.57	588.94	5.63			<250	23	<2.5	<2.5	<2.5	860
03/31/97	594.57	589.74	4.83			< 500	48	< 5.0	<5.0	<5.0	2,900
06/23/97	594.57	589.98	4.59			1200	240	<10	<10	<10	4,900
09/02/97	594.57	590.02	4.55			1400	340	< 5.0	54	6.9	2,500
12/15/97	594.57	590.26	4.31			540	100	<2.5	8.7	<2.5	2,400
03/10/98	594.57	590.00	4.57			< 500	< 5.0	< 5.0	<5.0	<5.0	3,000
06/16/98	594.57	589.99	4.58			120	6.6	<1.0	<1.0	<1.0	2,500
08/25/98	594.57	589.67	4.90			140	< 0.5	< 0.5	< 0.5	< 0.5	2,600
12/29/98	594.57	589.77	4.80			1830	17.7	<10.0	<10.0	14.9	4,600/4,8901
03/09/99	594.57	590.21	4.36			120	16	<1.0	<1.0	<1.0	3,400
06/23/99 ²	594.57	589.92	4.65								
09/28/99	594.57	585.99	8.58			<50	< 0.5	< 0.5	<0.5	< 0.5	1,250
02/29/00	594.57	586.59	7.98			122	< 0.5	< 0.5	<0.5	<0.5	249
08/29/00	594.57	587.52	7.05	0.00		< 50	< 0.50	< 0.50	< 0.50	< 0.50	390
03/27/01	594.57	587.73	6.84	0.00		<50.0	< 0.500	< 0.500	< 0.500	< 0.500	9.72
09/05/014	594.57	587.37	7.20	0.00	58 ⁵	360	< 0.50	< 0.50	<0.50	<1.5	1,300/1,000 ¹
03/04/024	594.57	587.59	6.98	0.00	270^{6}	190	<0.50	<0.50	<0.50	<1.5	440

			AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		Oak	land, Californi	ia				
WELL ID/	TOC*	GWE	DTW	SPHT	TPH-DRO	TPH-GRO	В	\mathbf{r}	E	X	MTBE
DATE	(fL)	(msl)	(ft.)	(fL)	(pg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)
C-2 (cont)											
09/03/024	594.57	587.29	7.28	0.00	760^{6}	120	< 0.50	< 0.50	< 0.50	<1.5	290
03/29/034	594.57	588.06	6.51	0.00	<50 ⁶	53	<0.5	<0.5	<0.5	<1.5	73
09/23/034,7	594.57	587.71	6.86	0.00	64 ⁶	<50	<0.5	<0.5	<0.5	<0.5	12
03/17/04 ^{7,8}	594.57	587.35	7.22	0.00	<50 ⁶	82	<0.5	<0.5	<0.5	<0.5	370
09/13/047	594.57	589.16	5.41	0.00	<50 ⁶	67	<0.5	<0.5	<0.5	<0.5	
03/11/057	594.57	589.84	4.73	0.00	84 ⁶	110	<0.5	<0.5	<0.5	<0.5	530
09/29/057	594.57	589.01	5.56	0.00	82 ^{6,9}	61	<0.5	<0.5	<0.5		580
03/20/067	594.57	590.15	4.42	0.00	120 ⁶	<50	<0.5	<0.5	<0.5	<0.5 <0.5	320
08/25/06 ⁷	594.57	589.06	5.51	0.00	130 ⁶	93	<0.5	<0.5	<0.5		500
03/12/077	594.57	589.66	4.91	0.00	_10	<50	<0.5	<0.5		<0.5	460
03/21/07	594.57	589.85	4.72	0.00	220^{6}				<0.5	<0.5	110
09/21/077	594.57	588.93	5.64	0.00	<50 ⁶	<50	<0.5	 <0.5	 -0.5	-0.5	100
03/10/087	594.57	589.76	4.81	0.00	<50 ⁶	73	<0.5	< 0.5	<0.5	<0.5	180
09/15/087	594.57	588.61	5.96	0.00	59 ⁶	57	<0.5	<0.5	<0.5 <0.5	<0.5	170
03/03/097	594.57	589.92	4.65	0.00	<50 ⁶	<50	<0.5	<0.5	<0.5 < 0.5	<0.5 < 0.5	150 54
C-3											
03/25/91	597.14	591.98	5.16			150	-0.5				
07/01/91	597.14	591.30	5.16 5.84		1 (44) 5 (4)	<50	<0.5	<0.5	<0.5	0.5	==
09/25/91	597.14	591.30	5.94		(<50	<0.5	<0.5	<0.5	<0.5	
12/23/91	597.14	591.20	5.94 5.94	-77	5(111)	<50	<0.5	<0.5	<0.5	<0.5	
03/24/92	597.14	592.37	3.94 4.77		: :	<50	1.0	<0.5	<0.5	1.5	
06/23/92	597.14	591.47	5.67	790	93 44 7	<50 <50	<0.5	<0.5	<0.5	<0.5	
09/30/92	597.14	590.84	6.30		-	<50	0.9 <0.5	1.1	0.5	1.6	22
12/16/92	597.14	591.57	5.57		1	<50	<0.5	<0.5	<0.5	<0.5	
03/30/93	597.14	592.08	5.06			< 5 0	<0.5	<0.5 <0.5	<0.5	<0.5	200
06/10/93	597.14	591.85	5.29		_	<50	0.6	1.9	<0.5	<1.5	
09/02/93	597.14	591.22	5.92			<50	<0.5		0.6	3.5	
12/06/93	597.14	591.38	5.76			<50	<0.5	<0.5	<0.5	<1.5	
03/02/94	597.14	591.97	5.17			<50	<0.5	0.6 <0.5	<0.5	<0.5	Page.
06/03/94	597.14	591.74	5.40			<50	<0.5	<0.5 <0.5	<0.5	<0.5	
09/07/94	597.14	591.14	6.00	.555 		< 5 0	<0.5	<0.5	<0.5 <0.5	<0.5	257
12/06/94	597.14	591.95	5.19			< 5 0	<0.5	0.8	<0.5 <0.5	<0.5 <0.5	
03/31/95	597.14	592.04	5.10		-	<50	<0.5	<0.5	<0.5 <0.5	<0.5	55.1
· · · -			2.10			~50	~0.5	~0.5	\U. 3	~0.5	===

WELL ID/DATE TOC* GWE DTW SPHT TPH-DRO TPH-GRO B DATE (fL) (msl) (fL) (fL) (pg/L) (pg/L) (pg/L) C-3 (cont) 06/15/95 597.14 591.78 5.36 <50 <0.5 09/25/95 597.14 591.04 6.10 <50 <0.5 12/19/95 597.14 591.46 5.68 <50 <0.5 03/31/97 597.14 590.65 6.49 <50 <0.5 03/31/97 597.14 590.63 6.51 <50 <0.5 09/02/97 597.14 590.63 6.51 <50 <0.5 09/02/97 597.14 590.86 6.28 <50 <0.5 03/10/98 597.14 590.89 6.25 <50 <0.5 08/2	<pre>T (µg/L) <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.</pre>	E: (µg/L): <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	<pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <p< th=""><th></th></p<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	
C-3 (cont) 06/15/95	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	(µg/L)2.5 -2.5 -2.5 -2.5 -2.5
06/15/95 597.14 591.78 5.36 -50 <0.5 09/25/95 597.14 591.04 6.10 <50 <0.5 12/19/95 597.14 591.46 5.68 <50 <0.5 03/31/97 597.14 590.65 6.49 <50 <0.5 06/23/97 597.14 590.63 6.51 <50 <0.5 09/02/97 597.14 590.63 6.51 <50 <0.5 09/02/97 597.14 591.07 6.07 <50 <0.5 12/15/97 597.14 590.86 6.28 <50 <0.5 03/10/98 597.14 590.89 6.25 <50 <0.5 06/16/98 597.14 590.80 6.34 <50 <0.5 08/25/98 597.14	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	 <2.5 <2.5 <2.5 <2.5
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09/25/95 597.14 591.04 6.10 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<2.5 <2.5 <2.5 <2.5 <2.5
12/19/95 597.14 591.46 5.68 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5	<2.5 <2.5 <2.5 <2.5
03/31/97 597.14 590.65 6.49 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5	<2.5 <2.5 <2.5
06/23/97 597.14 590.63 6.51 <50	<0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<2.5 <2.5
09/02/97 597.14 591.07 6.07 <50	<0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5	<2.5
12/15/97 597.14 590.86 6.28 <50	<0.5 <0.5 <0.5	<0.5 <0.5	< 0.5	
03/10/98 597.14 590.89 6.25 <50	<0.5 <0.5	< 0.5		
06/16/98 597.14 590.80 6.34 <50	< 0.5			4
08/25/98 597.14 590.61 6.53 <50		< 0.5	<0.5	<2.5
12/29/98 597.14 590.59 6.55 <-50	< 0.5	<0.5	<0.5	<5.0
03/09/99 597.14 591.20 5.94 <50	<0.5	<0.5	<0.5	<2.0
09/28/99 597.14 590.26 6.88 SAMPLED ANNUALLY 02/29/00 597.14 591.56 5.58 <50	<0.5	<0.5	<0.5	3
02/29/00 597.14 591.56 5.58 <50				
08/29/00 597.14 590.53 6.61 0.00 03/27/01 597.14 591.00 6.14 0.00 264 <2.50	<0.5	< 0.5	< 0.5	10
	<2.50	< 2.50	<2.50	870
				/ <2 ¹
$03/04/02$ 597.14 590.93 6.21 0.00 $<50^6$ <50	< 0.50	< 0.50	<1.5	<5.0
09/03/02 597.14 590.40 6.74 0.00 SAMPLED ANNUALLY				
$03/29/03$ 597.14 590.86 6.28 0.00 $<50^6$ <50	<0.5	< 0.5	<1.5	<2.5
09/23/03 597.14 590.51 6.63 0.00 SAMPLED ANNUALLY				
$03/19/04^7$ 597.14 591.24 5.90 0.00 $<50^6$ <50	<0.5	<0.5	< 0.5	2
09/13/04 597.14 591.85 5.29 0.00 SAMPLED ANNUALLY				
$03/11/05^7$ 597.14 591.53 5.61 0.00 $<50^6$ <50 <0.5	< 0.5	<0.5	<0.5	2
09/29/05 597.14 590.22 6.92 0.00 SAMPLED ANNUALLY				
$03/20/06^7$ 597.14 591.86 5.28 0.00 $<50^6$ <50 <0.5	< 0.5	<0.5	<0.5	3
08/25/06 597.14 590.51 6.63 0.00 SAMPLED ANNUALLY			~0.5 	3
$03/12/07^7$ 597.14 591.07 6.07 0.00 $-^{10}$ 55 <0.5	<0.5	<0.5	<0.5	2
03/21/07 597.14 590.91 6.23 0.00 2406	~0.5 			
09/21/07 597.14 590.29 6.85 0.00 SAMPLED ANNUALLY				
$03/10/08^7$ 597.14 590.89 6.25 0.00 $<50^6$ 87 <0.5	<0.5	<0.5	<0.5	3
09/15/08 597.14 590.15 6.99 0.00 SAMPLED ANNUALLY				
$03/03/09^7$ 597.14 591.22 5.92 0.00 55 ⁶ <50 <0.5	<0.5	<0.5	<0.5	3

Table 1
Groundwater Monitoring Data and Analytical Results

		· · · · · · · · · · · · · · · · · · ·		=	Oakl	and, Californi	a				
WELL ID/	TOC*	GWE	DTW	SPHT	TPH-DRO	TPH-GRO	В	T	E	X	MTBE
DATE	(fl.)	(msl)	(ft.)	(fL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)
C-4									-		
03/25/91	593.10	588.65	4.45			2700	240	16	< 0.5	350	
07/01/91	593.10	587.77	5.33			7900	1500	230	340	350	
09/25/91	593.10	587.60	5.50			3200	850	160	150		
12/23/91	593.10	588.18	4.92			4100	390	52	42	220	
03/24/92	593.10	589.06**	4.19	0.19			370 	32 		340	
06/23/92	593.10	588.34**	4.91	0.30							
09/30/92	593.10	584.44	8.66			450	 97	 14	 12	20	
12/16/92	593.10	583.30	9.80			590	130	18	5.6	29	
03/30/93	593.10	583.25**	10.00	0.12						29	
06/10/93	593.10	583.46	9.64	0.12		1300	290	36	 17	73	••
09/02/93	593.10	583.02	10.08			630	97	12	6.6	73 21	
12/06/93	593.10	582.85	10.25			1900	600	68	27		
03/02/94	593.10	584.36	8.74			2600	1200	110	43	130	
06/03/94	593.10	583.27	9.83			780	180	13	8.5	180 26	
09/07/94	593.10	582.80	10.30			<50	14	< 0.5	0.7		
12/06/94	593.10	583.90	9.20			980	270	21	12	< 0.5	
03/31/95	593.10	582.86	10.24			1500	450	25	11	38 49	
06/15/95	593.10	582.78	10.32			960	250	15	4.5	49 37	
09/25/95	593.10	584.72	8.38			<500	18	< 5.0	4.3 <5.0	<5.0	
12/19/95	593.10	582.94	10.16			<500	32	<5.0	<5.0 <5.0		2.400
03/31/97	593.10	588.42	4.68			3400	960	51	<3.0 64	<5.0	2,400
06/23/97	593.10	588.36	4.74		••	1600	580	19	8.2	140 27	2,100
09/02/97	593.10	588.33	4.77			6900	1400	59	130	410	2,300
12/15/97	593.10	588.60	4.50	••		3300	1200	37	74		3,100
03/10/98	593.10	588.92	4.18		••	1100	250	19	13	130	3,700
06/16/98	593.10	586.53	6.57		••	1200	350	<10	13	62 39	4,000
08/25/98	593.10	586.30	6.80			290	24	0.72	0.87	1.9	4,500 3,600
12/29/98	593.10	586.80	6.30			3190	957	<25	<25	<25	8,100/8,500 ¹
03/09/99	593.10	585.87	7.23			2200	850	15	35		
06/23/99 ²	593.10	585.60	7.50							56	5,900
09/28/99	593.10	586.15	6.95			1390	7.85	 <5.0	 -5 0	 0	4.100
02/29/00	593.10	586.09	7.01			<50	1.35	<0.5	<5.0 <0.5	<5.0	4,190
08/29/00	593.10	586.58	6.52	0.00		150 ³	60	<0.50		< 0.5	310
03/27/01	593.10	587.29	5.81	0.00		986	27.2	<0.50 <2.50	0.79 3.25	0.78	570 353
09/05/014	593.10	586.72	6.38	0.00	3,800 ⁵	330	140	0.84		4.11	252
03/04/024	593.10	587.44	5.66	0.00	$2,900^6$	170	67		< 0.50	<1.5	580/520 ¹
23/01/02/	575.10	JU1.77	5.00	0.00	4,700	1/0	0/	< 0.50	< 0.50	<1.5	510

Table 1
Groundwater Monitoring Data and Analytical Results

					Oakl	and, Californi	a				
WELL ID/	TOC*	GWE	DTW	SPHT	TPH-DRO	TPH-GRO	В	$\mathbf{T}^{(i)}$	E .	X	MTBE
DATE	(ft.)	(msl)	(ft.)	(%)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)
C-4 (cont)											
09/03/024	593.10	586.62	6.48	0.00	1,900 ⁶	<50	12	< 0.50	< 0.50	<1.5	64
03/29/034	593.10	587.26	5.84	0.00	950 ⁶	<50	3.3	<0.5	<0.50	<1.5	67
09/23/03 ^{4,7}	593.10	586.91	6.19	0.00	57 ⁶	<50	<0.5	<0.5	<0.5	<0.5	12
03/17/04 ^{7,8}	593.10	587.12	5.98	0.00	1,900 ⁶	1,500	310	5	2	4	520
09/13/04 ⁷	593.10	588.22	4.88	0.00	1,300 ⁶	840	260	3	2	1	990
03/11/05 ⁷	593.10	589.20	3.90	0.00	2,900 ⁶	350	66	1	<1	<1	1,100
09/29/057	593.10	585.07	8.03	0.00	2,500 ⁶	740	160	2	1	<1	1,500
03/20/067	593.10	589.47	3.63	0.00	1,200 ⁶	1,400	300	5	1	2	1,600
08/25/06 ⁷	593.10	588.30	4.80	0.00	1,300 ⁶	450	82	2	< 0.5	<0.5	1,300
03/12/07	593.10	585.50	7.60	0.00	10	670	110	1	<0.5	<0.5	
03/21/07	593.10	585.07	8.03	0.00	1,800 ⁶				~0.5 		1,100
09/21/077	593.10	585.20	7.90	0.00	$2,100^6$	260	18	<0.5	<0.5	 <0.5	1 100
03/10/08 ⁷	593.10	585.69	7.41	0.00	$7,500^6$	560	72	1	<0.5	<0.5	1,100 1,100
03/15/08	593.10	586.45	6.65	0.00							
09/15/087	593.10	585.10	8.00	0.00	5,200 ⁶	760	110	2	0.6	<0.5	1,100
03/03/09 ⁷	593.10	585.94	7.16	0.00	1,800 ⁶	1,700	360	5	2	1	900
						,			-	•	700
C-1											
03/25/91	595.82	592.54	3.28			5.4	0.5				
07/01/91	595.82	592.39	3.43			54	0.7	<0.5	<0.5	2.0	
09/25/91	595.82	591.67	4.15			730 160	250	3.0	16	4.8	
12/23/91	595.82	592.11	3.71				68	1.3	6.1	1.3	
03/24/92	595.82	592.80	3.02			170 60	70	1.6	3.5	2.4	
06/23/92	595.82	592.06	3.76			60	39 19	4.4	3.9	9.1	
NOT MONITO			3.70			00	19	1.1	1.1	1.0	
TRIP BLANK											
03/25/91						<50	< 0.5	< 0.5	<0.5	<0.5	
07/01/91						< 50	< 0.5	< 0.5	<0.5	<0.5	
09/25/91						< 50	< 0.5	< 0.5	<0.5	<0.5	
12/23/91						<50	< 0.5	<0.5	<0.5	<0.5	
03/24/92						< 50	< 0.5	<0.5	<0.5	<0.5	
06/23/92						< 50	< 0.5	<0.5	<0.5	<0.5	
09/30/92						<50	< 0.5	<0.5	<0.5	<0.5	

							and, Californi	a				
	WELL ID/	TOC*	*.*.*.*.*.*.*.*.*.*.*.	DTW	SPHT		TPH-GRO	В	Tillian	B. S.	X	MTBE
TRIP BLANK (cont) 12/1692	DATE	(f1)	(msl)	(ft)	(fL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(μg/L)	
0331093	TRIP BLANK (cont)						· 				
03/30/93	12/16/92						<50	< 0.5	< 0.5	< 0.5	< 0.5	
09/10/93	03/30/93											
990293	06/10/93											
120693	09/02/93											
03/02/94	12/06/93											
060394 - - - - - - -	03/02/94											
9907/94	06/03/94											
1206094	09/07/94											
0331/95	12/06/94											
06/15/95	03/31/95											
09/25/95	06/15/95											
12/19/95	09/25/95						<50					
03/31/97	12/19/95											
06/23/97	03/31/97											
09/02/97	06/23/97						<50					
12/15/97	09/02/97											
03/10/98	12/15/97											
06/16/98	03/10/98						<50					
08/25/98							< 50	<0.5		•		
12/29/98							< 50	< 0.5				
03/09/99							< 50	< 0.5	< 0.5			
09/28/99							< 50	< 0.5	< 0.5			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							< 50	< 0.5	< 0.5			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							<50	< 0.5	< 0.5			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							< 50	< 0.50	< 0.50			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							<50.0	< 0.500	< 0.500			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							< 50	< 0.50	< 0.50			
QA 09/03/02							< 50	< 0.50	< 0.50	< 0.50		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_											
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							< 50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							<50	< 0.5				
03/19/04' <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5							< 50	< 0.5				
09/13/04' <50 <0.5 <0.5 <0.5 <0.5							<50	< 0.5				
$02/11/05^{7}$							< 50	< 0.5	< 0.5			
	03/11/05′						<50	< 0.5	< 0.5			

WELL ID/	TOC*	GWE	DTW	SPHT	TPH-DRO	TPH-GRO	В	T	E	X	MTBE
DATE	(fL)	(msl)	(ft)	(fL)	(pg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)
(cont)											
9/29/057			(100)			<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/20/06 ⁷				-	177	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
8/25/067					-	<50	< 0.5	< 0.5	<0.5	< 0.5	< 0.5
3/12/07 ⁷		% 4 *				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/21/07 ⁷		0 77 8	-			<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5
3/10/08 ⁷		()				<50	<0.5	<0.5	< 0.5	<0.5	<0.5
9/15/08 ⁷		10 - 10 - 10			-	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/03/09 ⁷		-				<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740 6550 Moraga Avenue Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to August 29, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of CasingTPH-D = Total Petroleum Hydrocarbons as DieselE = Ethylbenzene(ft.) = FeetTPH = Total Petroleum HydrocarbonsX = Xylenes

GWE = Groundwater Elevation

DRO = Diesel Range Organics

MTBE = Methyl Tertiary Butyl Ether

(msl) = Mean sea level

GRO = Gasoline Range Organics

(µg/L) = Micrograms per liter

(msl) = Mean sea levelGRO = Gasoline Range Organics(μg/L) = Micrograms per literDTW = Depth to WaterB = Benzene-- = Not Measured/Not AnalyzedSPHT = Separate Phase Hydrocarbon ThicknessT = TolueneQA = Quality Assurance/Trip Blank

* TOC elevations are referenced to msl.

** GWE corrected for the presence of Separate Phase Hydrocarbons (SPH), correction factor: [(TOC-DTW)+(SPHTx0.80)].

- Confirmation run.
- ORC installed.
- Laboratory report indicates unidentified hydrocarbons C6-C12.
- 4 ORC in well.
- Although requested on the Chain of Custody; Laboratory did not perform TPH-D analysis with silica-gel cleanup.
- 6 Analyzed with silica gel cleanup.
- BTEX and MTBE by EPA Method 8260.
- 8 ORC removed.
- Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel and is also due to individual peaks eluting in the DRO range.
- Sample containers were lost during shipping.

Table 2 Dissolved Oxygen Concentrations

Chevron Service Station #9-1740 6550 Moraga Avenue Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Parging (mg/L)
C-2	08/29/00	1.97	7 <u></u> 7
	03/27/01	3.60	i. m. i.
	09/05/01	2.80	
	03/04/02	3.10	-
	09/03/02	2.70	8.€8
	03/29/03	2.20	-
	09/23/03	0.50	31
C-4	08/29/00	2.11	()
	03/27/01	2.90	1 77 1
	09/05/01	2.30	
	03/04/02	2.90	
	09/03/02	2.10	2 %
	03/29/03	1.90	
	09/23/03	0.40	

EXPLANATIONS:

(mg/L) = Milligrams per liter

-- = Not Measured

Table 3
Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740 6550 Moraga Avenue

				Oakland,	California				
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)
C-2	09/05/01		<100	1,000	<2	240	30	<2	<2
	09/23/03	< 50		12	<u></u> -		_	:. 	
	03/19/04	< 50		370				(1-1)	
	09/13/04	< 50	(72.5)	530			(2-2)	(1 <u>22</u>)	1 <u>1914</u>
	03/11/05	< 50		580					
	09/29/05	< 50		320					
	03/20/06	< 50		500				(***	
	08/25/06	<50		460					1920
	03/12/07	<50		110					7754
	09/21/07	< 50	12/2	180	44				
	03/10/08	< 50		170					-
	09/15/08	< 50		150					
	03/03/09	<50		54				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
C-3	09/05/01		<100	<2	<2	<2	<2	<2	<2
	03/19/04	< 50		2	1 ==)		-		
	09/13/04	SAMPLED ANNUA	ALLY		, 		-		
	03/11/05	< 50		2			-		
	03/20/06	< 50		3					
	03/12/07	< 50		2				9 X	
	03/10/08	< 50		3				6 4 4 00	
	09/15/08	SAMPLED ANNUA	ALLY		(==)	**	8 <u>24</u>	82 22 8	22
	03/03/09	<50		3	822		-		
C-4	09/05/01		<100	520	<2	<2	15	<2	<2
	09/23/03	<50		12		-	-		
	03/19/04	<50		520					
	09/13/04	<100		990	5 			-	¥=
	03/11/05	<100	***	1,100	(**)				
	09/29/05	<100		1,500	-			1 .75. 0	
	03/20/06	<50		1,600		===			
	08/25/06	<50	==)	1,300	(*** .)				
	03/12/07	<50		1,100					
	09/21/07	<50		1,100		•			

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740

6550 Moraga Avenue Oakland, California

WELL ID	DATE		TBA	MTBE	DIFL	ETBE	TAME	1,2-DCA	EDB
		(µg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	
C-4 (cont)	03/10/08	<50		1,100		== :			-
	09/15/08	<50		1,100			7==		
	03/03/09	<100		900	_	-	n===		
							-	_	

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740 6550 Moraga Avenue Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol

MTBE = Methyl Tertiary Butyl Ether

DIPE = di-Isopropyl ether

ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

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

-- Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

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, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. 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 possible. 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. 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. For sampling sets greater than 20 samples, 5% trip blanks are included. 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 IWM to Chemical Waste Management located in Kettleman Hills, California.



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #9-1	740		Job Number:	386507		
Site Address:	6550 Moraga	Avenue	•	Event Date:	3.3.	09	(inclusive)
City:	Oakland, CA			Sampler:	Tue		
Well ID Well Diameter Total Depth Depth to Water Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	w/ 80% Recharge	(Height of V	Face the check if water column 17 = 3.78	nt:	02 1"= 0.04 66 5"= 1.02 60 ft. = Estimated Purge Time Star Time Cor Depth to Depth to Hydrocar Visual Co Skimmer Amt Rem Amt Rem Water Re	2"= 0.17 3" 6"= 1.50 12" e Volume:	(2400 hrs)(2400 hrs)ftftft iption:
Start Time (purge Sample Time/Da Approx. Flow Ra Did well de-wate Time (2400 hr.) 1215 1220 1225	te: 1230 / 3	jpm. '	Sediment	or: <u>e e e on</u> Description: lume:		Ø	5.02
	·		APORATORY	INFORMATION			
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYP	INFORMATION E LABORATORY	1	ANALYSES	
C- 2	x voa vial	YES .	HCL	LANCASTER		TEX+MTBE(8260)/
	x 500ml ambers	YES	NP	LANCASTER	TPH-D w/sg (80		
COMMENTS:							
Add/Replaced L	_ock:	Add/l	Replaced Plug	, , , , , , , , , , , , , , , , , , , ,	Add/Replace	ed Bolt:	



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #9-	1740		Job	Number:	386507		_		
Site Address:	6550 Moraga	a Avenu	8	Ever	it Date:	3-3	-09	(inc	lusive)	
City:	Oakland, CA	\		Sam	pler:		Soc			
Well ID	C- '3			Date Me	onitored:	3-3	09			
Well Diameter	2 in	-	[Volume	3/4"= 0.02		2"= 0.17	3"= 0.38		
Total Depth	18.88 ft.			Factor (VF)	4"= 0.66		6"= 1.50	12"= 5.80		
Depth to Water		100	ı Check if water o	column is less	then 0.50	ft.				
•	12.96	-	17 = 2.				ie Volume:	7 nal		
Depth to Water	w/ 80% Recharge						/			
				•		Time Sta	arted:	(2400 hrs)	
Purge Equipment:		5	Sampling Equip	ment:					(2400 hrs)	
Disposable Bailer		ξ	Disposable Bailer							
Stainless Steel Baile	er		ressure Bailer				rbon Thicknes		ft	
Stack Pump			Discrete Bailer			Visual Co	onfirmation/De	escription:		
Suction Pump			Peristaltic Pump			Skimmer	/ Absorbant S	Sock (circle one	`	
Grundfos			ED Bladder Pun	• ——				immer:		
Peristaltic Pump QED Bladder Pump		C	Other:			Amt Rem	noved from We	ell:	gal	
Other:						Water Re	emoved:			
Other						Product	ransierred to	<u> </u>		
	volume (gal.)	gpm.	Conductivity (µmhos/cm - µ	Temp	erature (F)	·	Sampling: O (n	RP nV)		
			LABORATOR	RY INFORM	ATION					
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. T		RATORY		ANALYS	ES		
c- 5	x voa vial	YES	HCL	LAN		TPH-G(8015)/E		3260)/		
	A 500 L L	V60	A15			ETHANOL (826				
	2 x 500ml ambers	YES	NP	LANG	CASTER	TPH-D w/sg (80	015)			
										
	19		_	- 4			<u> </u>			
	<u> </u>		<u> </u>				-			
COMMENTS:					-					
			567 8							
				· -						
Add/Replaced I	Lock:	Add/	Replaced Plu	ıg:		Add/Replace	ed Bolt:			



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #9-1740)	Job Number:	386507	
Site Address:	6550 Moraga Ave	enue	Event Date:	3.3-09	(inclusive)
City:	Oakland, CA		— Sampler:	Suc	
			-		
Well ID	C-4		Date Monitored:	3.3-09	
Well Diameter	2 in.	[ve	olume 3/4"= 0.0	02 1"= 0.04 2"= 0.17	3"= 0.38
Total Depth	24-76 ft.	Fa	actor (VF) 4"= 0.6		12"= 5.80
Depth to Water			lumn is less then 0.5		
	17.60xVF_	0.17 = 2.9	x3 case volume =	Estimated Purge Volume:	<u>9</u> gal.
Depth to Water	w/ 80% Recharge [(Heig	tht of Water Column x 0.2	20) + DTWJ: 10.65	2	(2.00)
Duran Faultament		Orana Kara Pauliana		Time Started: Time Completed:	(2400 hrs) (2400 hrs)
Purge Equipment: Disposable Bailer	,	Sampling Equipme	ent:	Depth to Product:	ft
Stainless Steel Baile	ar ———	Disposable Bailer Pressure Bailer		Depth to Water:	ft
Stack Pump		Discrete Bailer		Hydrocarbon Thickness Visual Confirmation/De	
Suction Pump		Peristaltic Pump		Visual Commitmation/De	scription.
Grundfos		QED Bladder Pump		Skimmer / Absorbant S	ock (circle one)
Peristaltic Pump		Other:		Amt Removed from Ski Amt Removed from We	mmer: gal
QED Bladder Pump				Water Removed:	gai
Other:				Product Transferred to:	
Start Time (purge Sample Time/Da Approx. Flow Ra Did well de-wate Time (2400 hr.) 12 40	ate: 1300 / 3-3. ate:gpm.	Water Co Sediment Time:	Description: Description: Dlume: Temperature	gal. DTW @ Sampling: D.O. OF (mg/L) (m	RP
SAMPLE ID	(#) CONTAINER REF		INFORMATION PE LABORATORY	ANALYSI	EC.
C-4	(") X voa vial YE		LANCASTER	TPH-G(8015)/BTEX+MTBE(8	
				ETHANOL (8260)	
	x 500ml ambers YE	S NP	LANCASTER	TPH-D w/sg (8015)	
		 			
		-		<u> </u>	
4 - 5					
COMMENTS:	YEossuce misid	e well. Kee	2 fore aw	za while op	ning
		0		,	,
Add/Replaced I	Lock:	Add/Replaced Plug		Add/Replaced Bolt:	

Chevron California Region Analysis Request/Chain of Custody



030384-84

Acct. #: 12099 Sample # 5012974-77	Group #: 016509
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		CRA N	ITI Po	ojec	t# 6	61H-	197				A	nely	808	Re	que	sted		-			1134	45	3
Facility #: SS#9-1740 G-R#386507 G	obal ID#T0600	0100353		T	Matri	×					P	res	arva	ion	Co	des			+-	Proce	rvative C	مظمم	
Site Address:	AKLAND, CA			_				1	¥			14				= HCI	T = T						
Chevron PM: Lea	CR Consultant:	AKJ		╌├╌	1					Gel Cleanup		-				.		Į		= HNO3 = H2SO4	B = N O = 0		٠.
G-R, Inc., 6747 Sierra Consultant/Office:	ourt, Suite J, D	ublin, CA	94568	3	9 0	2	ers.	П		2											porting nee		-
Deanna L. Harding (consultant Prj. Mgr.:	leanna@grinc	.com)		-	Potable		Total Number of Containers	8260 E 8021	,	Silce	ļ				8160)			- 1	M	Must mee	t lowest de	ection	n limnits
Consultant Phone #-925-551-7555	For #. 925-	551-7899		-]	8	100		X			اړ	8	3				1	possible f	or 8260 cor	npoun	ds
Consultant Phone #:925-551-7555 Fax #: 925-551-7899 Sampler: 50E A SEMIAN 0			=		7	er o	8260	8	8		SE	Method	Method	7						Confirmation	92		
Sample Identification Date Time Collected Collected Collected					Ąį	Ē	BTEX + MTBE	TPH 8015 MOD GRO	TPH 8015 MOD DROX	둟	Oxygenates		Dissolved Lead	ano/		İ		ſ		ghest hit by I hits by 82		'	
	Date	Time	او	입 _	. j		Z	¥ +	8015	8015	8260 full scan	ర్భ	Total Lead	<u>8</u>	E/4 a						oxy's on hi		hit
Sample Identification	Collected	Time Collected	5	Soil	Water	ō	Tot T	BTE	풀	표	88		- E	88	W						oxy's on al		l
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Data Package Options (please circle if required)		Relinqui	shed by	_			,		*****		ate	Tir				ed by					Date	Ti	me
QC Summary Type I - Full		Relinqui	shad h			10-	_			<u> </u>				/		1	1						
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ANALYTICAL RESULTS

Prepared for:

RECEIVED)

Chevron c/o CRA Suite 110 2000 Opportunity Drive Roseville CA 95678 MAR 1 7 2009

GETTLER-RYAN INC.
GENERAL CONTRACTORS

916-677-3407

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1134453. Samples arrived at the laboratory on Wednesday, March 04, 2009. The PO# for this group is 91740 and the release number is MTI.

Client Description		Lancaster Labs Number
QA-T-090303 NA Water		5612974
C-2-W-090303 Grab Water		5612975
C-3-W-090303 Grab Water		5612976
C-4-W-090303 Grab Water	4	5612977
C-3-W-090303 Grab Water		5612976

ELECTRONIC COPY TO

Gettler-Ryan, Inc.

Attn: Cheryl Hansen



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

Respectfully Submitted,

Christine Dulaney
Sembor Steenholts



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Lancaster Laboratories Sample No. WW5612974

Group No. 1134453

QA-T-090303 NA Water Facility# 91740 Job# 386507 MTI# 61H-1978 GRD 6550 Moraga Ave-Oakland T0600100353 QA

Collected: 03/03/2009

Submitted: 03/04/2009 09:10 Reported: 03/16/2009 at 11:34

Discard: 04/16/2009

Account Number: 12099

Chevron c/o CRA

Suite 110

2000 Opportunity Drive Roseville CA 95678

MAOQA

		£		As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
06054	BTEX+MTBE by 8260B				•	
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

Factor
1
1
1
1



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Page 1 of 1

Lancaster Laboratories Sample No. WW5612975

Group No. 1134453

C-2-W-090303 Grab Water Facility# 91740 Job# 386507 MTI# 61H-1978 GRD 6550 Moraga Ave-Oakland T0600100353 C-2

Collected: 03/03/2009 12:30

Submitted: 03/04/2009 09:10 Reported: 03/16/2009 at 11:34

Discard: 04/16/2009

Account Number: 12099

Chevron c/o CRA

Suite 110

2000 Opportunity Drive Roseville CA 95678

MAOC2

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	ug/l	1
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
06067	BTEX, MTBE, ETOH					
01587	Ethanol	64-17-5	N.D.	50	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	54	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

CAT			•	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	03/06/2009 16:47	Diane V Do	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/09/2009 23:10	Robert L Garrett	1
06067	BTEX, MTBE, ETOH	SW-846 8260B	1	03/10/2009 06:02	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/09/2009 23:10	Robert L Garrett	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2009 06:02	Michael A Ziegler	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	03/05/2009 16:45	Timothy J Attenberger	1



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Lancaster Laboratories Sample No. WW5612976

Group No. 1134453

C-3-W-090303 Grab Water Facility# 91740 Job# 386507 MTI# 61H-1978 GRD 6550 Moraga Ave-Oakland T0600100353 C-3

Collected: 03/03/2009 12:00 by JA

Submitted: 03/04/2009 09:10 Reported: 03/16/2009 at 11:34

Discard: 04/16/2009

Account Number: 12099

Chevron c/o CRA Suite 110

2000 Opportunity Drive

Roseville CA 95678

MAOC3

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	55	50	ug/l	1
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
06067	BTEX, MTBE, ETOH					
01587	Ethanol	64-17-5	N.D.	50	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	ug/1	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	03/06/2009 17:07	Diane V Do	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/09/2009 23:34	Robert L Garrett	1
06067	BTEX, MTBE, ETOH	SW-846 8260B	1	03/10/2009 06:25	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/09/2009 23:34	Robert L Garrett	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2009 06:25	Michael A Ziegler	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	03/05/2009 16:45	Timothy J Attenberger	1



ug/l

ug/l

2

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Lancaster Laboratories Sample No. WW5612977

Group No. 1134453

C-4-W-090303 Grab Water Facility# 91740 Job# 386507 MTI# 61H-1978 GRD 6550 Moraga Ave-Oakland T0600100353 C-4

Collected:03/03/2009 13:00

by JA

Account Number: 12099

Submitted: 03/04/2009 09:10 Reported: 03/16/2009 at 11:34

Chevron c/o CRA Suite 110

1

Discard: 04/16/2009

05415 Ethylbenzene

06310 Xylene (Total)

2000 Opportunity Drive Roseville CA 95678

MAOC4

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,800	50	ug/l	1
01728	TPH-GRO N. CA water C6-C12	n.a.	1,700	250	ug/l	5
06067	BTEX, MTBE, ETOH					
01587	Ethanol	64-17-5	N.D.	100	ug/l	2
02010	Methyl Tertiary Butyl Ether	1634-04-4	900	1	ug/l	2
05401	Benzene	71-43-2	360	1	ug/l	2
05407	Toluene	108-88-3	5	1	ug/l	2

2

State of California Lab Certification No. 2116

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

100-41-4

1330-20-7

CAT			_	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	03/06/2009 17:27	Diane V Do	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/09/2009 23:59	Robert L Garrett	5
06067	BTEX, MTBE, ETOH	SW-846 8260B	1	03/12/2009 04:08	Michael A Ziegler	2
01146	GC VOA Water Prep	SW-846 5030B	1	03/09/2009 23:59	Robert L Garrett	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/12/2009 04:08	Michael A Ziegler	2
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	03/05/2009 16:45	Timothy J Attenberger	: 1



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Quality Control Summary

Client Name: Chevron c/o CRA Reported: 03/16/09 at 11:34 AM

Group Number: 1134453

Matrix QC may not be reported if 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

Laboratory Compliance Quality Control

			_		-			
Analysis Name	Blank <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 090640011A TPH-DRO CA C10-C28 w/ Si Gel	Sample N.D.	number(s):	5612975-56 ug/l	12977 95	99	60-124	4	20
Batch number: 09065A07A TPH-GRO N. CA water C6-C12	Sample N.D.	number(s): 50.	5612974 ug/l	118	109	75-135	8	30
Batch number: 09068A08A TPH-GRO N. CA water C6-C12	Sample N.D.	number(s):	5612975-56 ug/l	12977 100	109	75-135	9	30
Batch number: D090703AA Ethanol Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total) Batch number: E090682AA	N.D. N.D. N.D. N.D. N.D. N.D.	0.5 0.5 0.5	5612977 ug/l ug/l ug/l ug/l ug/l ug/l ug/l 5612975-56	85 103 102 101 102 98		40-158 78-117 80-116 80-115 80-113 81-114		3
Ethanol Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	N.D. N.D. N.D. N.D. N.D.		ug/l ug/l ug/l ug/l ug/l ug/l	101 92 95 98 94 96		40-158 78-117 80-116 80-115 80-113 81-114		
Benzene Toluene Ethylbenzene	Sample n N.D. N.D. N.D. N.D. N.D.	number(s): 0.5 0.5 0.5 0.5 0.5	5612974 ug/l ug/l ug/l ug/l ug/l	104 105 111 111 112		78-117 80-116 80-115 80-113 81-114		

Sample Matrix Quality Control

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

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

Batch number: 09065A07A TPH-GRO N. CA water C6-C12 Sample number(s): 5612974 UNSPK: P612968

Batch number: 09068A08A Sample number(s): 5612975-5612977 UNSPK: P612990

*- Outside of specification

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



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Page 2 of 4

Quality Control Summary

Client Name: Chevron c/o CRA

Group Number: 1134453

Reported: 03/16/09 at 11:34 AM

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 TPH-GRO N. CA water C6-C12	MS %REC 118	MSD %REC	MS/MSD Limits 63-154	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D090703AA	Sample	number(s)	: 5612977	UNSPK:	P61659	50			
Ethanol	95	106	37-164	10	30				
Methyl Tertiary Butyl Ether	101	107	72-126	5	30				
Benzene	106	109	80-126	3	30				
Toluene	104	108	80-125	3	30				
Ethylbenzene	103	108	77-125	4	30				
Xylene (Total)	99	104	79-125	5	30				
Batch number: E090682AA	Sample	number(s)	: 5612975	-561297	6 IINSDE	(· D611591			
Ethanol	80	112	37-164	34*	30	C. F011391			
Methyl Tertiary Butyl Ether	83	88	72-126	6	30				
Benzene	87	93	80-126	6	30				
Toluene	92	97	80-125	6	30				
Ethylbenzene	89	94	77-125	6	30				
Xylene (Total)	90	96	79-125	6	30				
Batch number: Z090683AA	Sample	number (e)	: 5612974	IIMCDV.	D61027				
Methyl Tertiary Butyl Ether	106	110	72-126	3	30	5			
Benzene	109	110	80-126	0	30				
Toluene	114	116	80-125	2	30				
Ethylbenzene	114	117	77-125	2	30				
Xylene (Total)	112	115	79-125	3	30				
			,, 123	_	50				

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: TPH-DRO CA C10-C28 w/ Si Gel Batch number: 090640011A $\,$

Orthoterphenyl

5612975	110	 	 	
5612976	100			
5612977	102			
Blank	104			
LCS	115			
LCSD	120			
Limits:	59-131			

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

Batch number: 09065A07A

Trifluorotoluene-F

5612974	100
Blank	101
LCS	113

*- 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

Group Number: 1134453

Reported: 03/16/09 at 11:34 AM

Surrogate Quality Control

LCSD 113 MS 116 Limits: 63-135

Analysis Name: TPH-GRO N. CA water C6-C12 Batch number: 09068A08A Trifluorotoluene-F

5612975 94 5612976 97 5612977 108 Blank 94 LCS 98 LCSD 98 MS 98

Limits:

63-135

Analysis Name: BTEX, MTBE, ETOH Batch number: D090703AA

Dibromofluoromethane

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5612977	90	92	89	88
Blank	89	89	89	86
LCS	89	89	89	91
MS	89	88	88	90
MSD	90	90	89	90
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX, MTBE, ETOH Batch number: E090682AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5612975	90	91	95	92
5612976	91	92	93	91
Blank	91	90	95	92
LCS	89	92	95	96
MS	90	90	95	97
MSD	90	89	94	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+MTBE by 8260B Batch number: Z090683AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5612974	94	92	92	82
Blank	93	91	95	85
LCS	90	90	94	90
MS	90	92	95	90
MSD	91	91	96	91
Limits:	80-116	77-113	80-113	78-113

*- 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: 03/16/09 at 11:34 AM

Group Number: 1134453

*- 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.

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	Ī	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/m!	fibers greater than 5 microns in length per ml

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Α

В

C

D

Ε

N

P

U

X,Y,Z

Organic Qualifiers	Organi	ic Q	ualil	iers
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Defined in case narrative

Inorganic Qualifiers

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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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