Eric Frohnapple
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6692
Fax (925) 984-8373
ericf@chevron.com

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

Re: Former Texaco Service Station No. 30-7233
2259 First Street
Livermore, California
ACEHS Case No. RO0002908

I accept the **Second Quarter 2011 Groundwater Monitoring and Sampling Report** dated August 5, 2011.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This **Second Quarter 2011 Groundwater Monitoring and Sampling Report** was prepared by Conestoga Rovers & Associates, upon whose assistance and advice I have relied.

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

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

Sincerely,

Eric Frohnapple
Project Manager

Attachment: Second Quarter 2011 Groundwater Monitoring and Sampling Report

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
http://www.craworld.com

August 5, 2011 Reference No. 312264

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

Re: Second Quarter 2011
Groundwater Monitoring and Sampling Report
Former Texaco Service Station 30-7233
2259 First Street
Livermore, California
ACEHS Case No. RO0002908

Dear Mr. Jerry Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Quarter 2011 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc. (G-R) of Dublin, California. On June 6, 2011 G-R collected groundwater samples from all site wells. However, it was suspected that groundwater samples for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and, xylenes (BTEX) in wells MW-5 and MW-7 were switched. Therefore, G-R re-sampled MW-5 and MW-7 on June 22, 2011. The amber bottles used to analyze total petroleum hydrocarbons as diesel (TPHd) appear to have been labeled correctly. G-R's June 13, 2011 and July 1, 2011 *Groundwater Monitoring and Sampling Data Packages* are included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' June 15, 2001 and July 5, 2011 *Analytical Results* are included as Attachment B.

CONESTOGA-ROVERS
& ASSOCIATES

August 5, 2011 Reference No. 312264

Please contact Kiersten Hoey at (510) 420-3347 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brandon S. Wilken, PG 7564

KH/aa/12
Encl.

Figure 1	Vicinity Map
Figure 2	Shallow Zone Groundwater Elevation Contour and Hydrocarbon Concentration Map
Figure 3	Deep Zone Groundwater Elevation Contour and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Packages
Attachment B	Laboratory Analytical Reports

cc: Mr. Eric Frohnapple, Chevron
Mr. Eric Uranaga, City of Livermore Economic Development

FIGURES

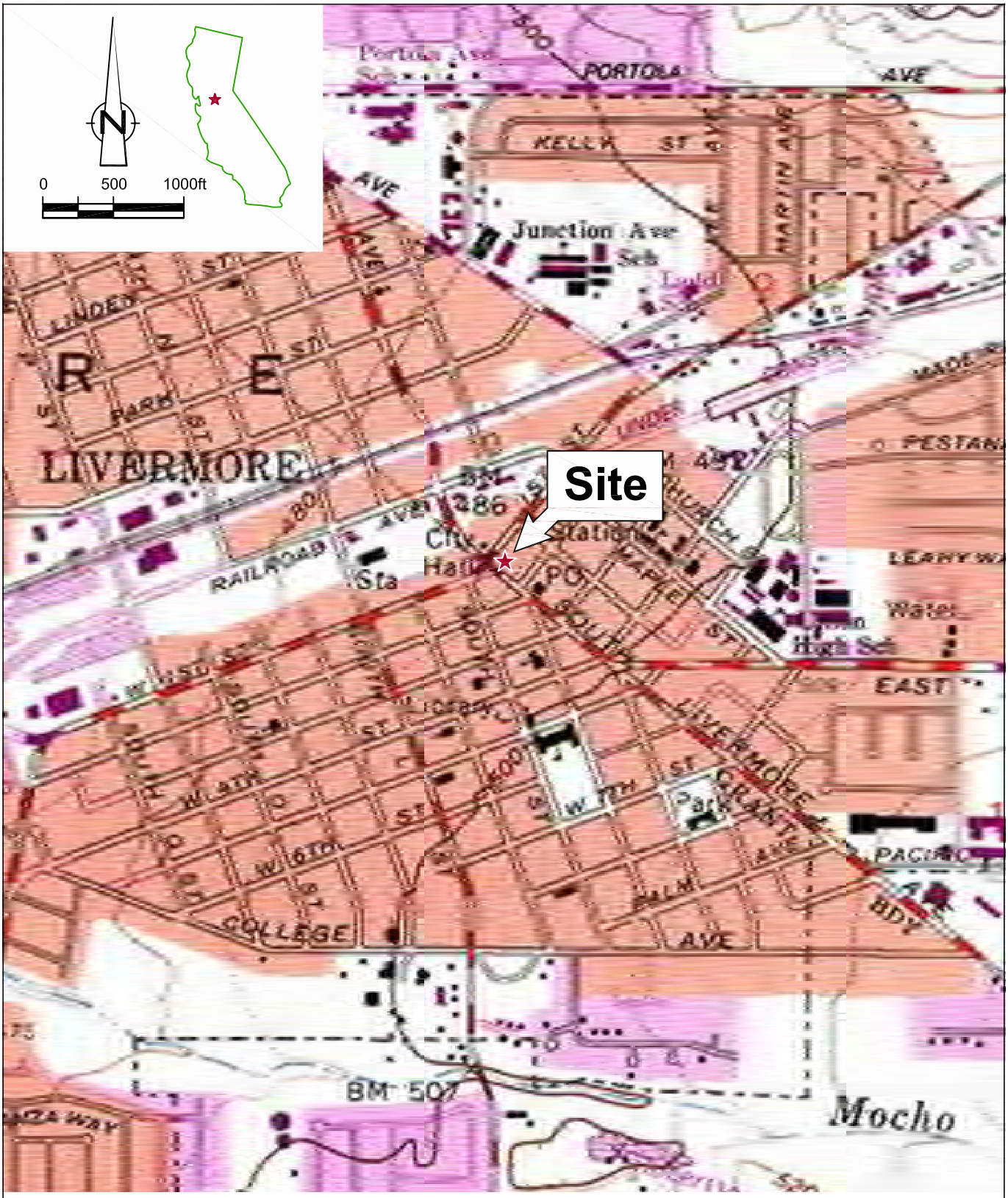

Figure 1

VICINITY MAP
FORMER TEXACO STATION (CHEVRON SITE 30-7233)
2259 FIRST STREET
Livermore, California

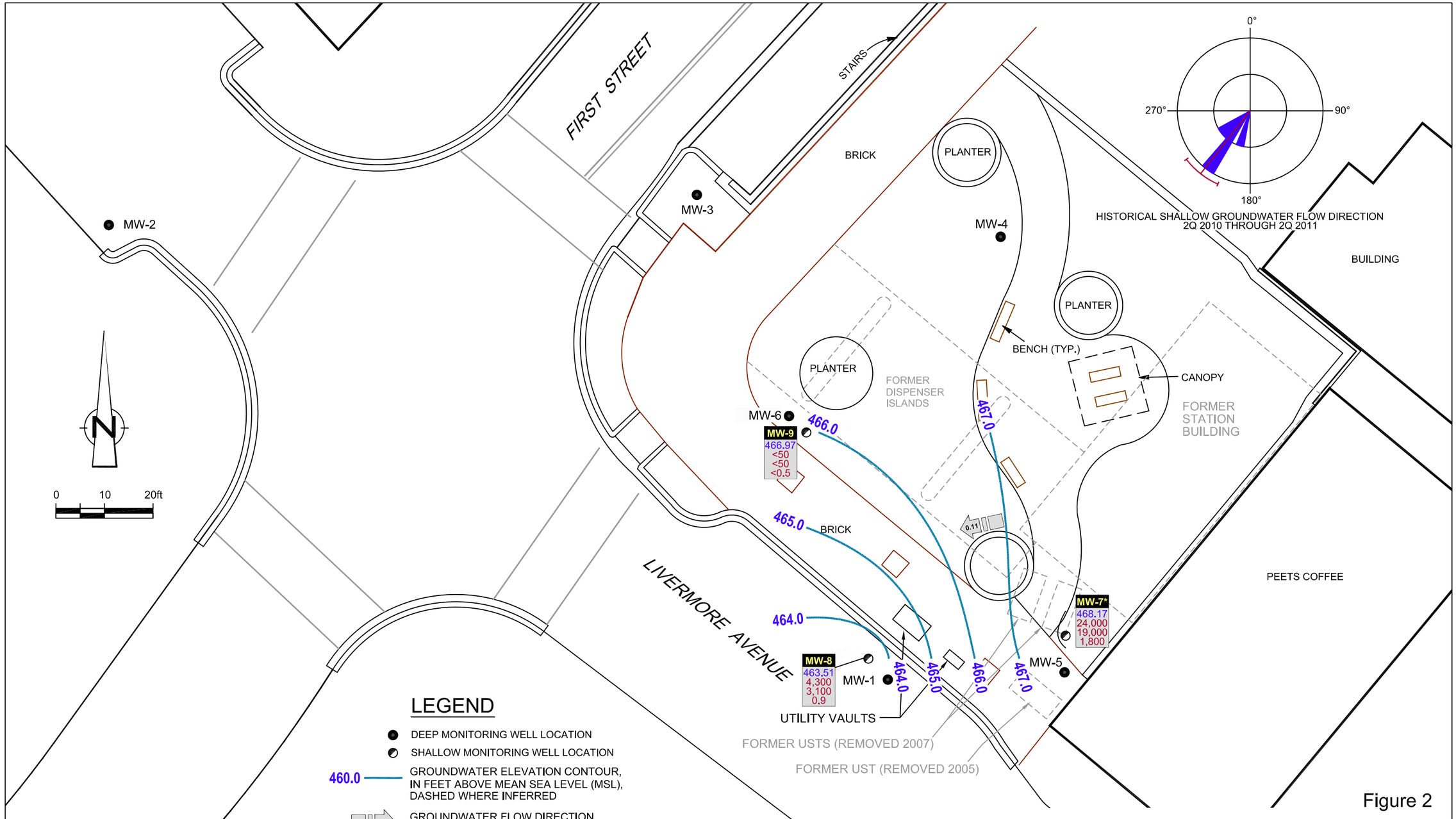

Figure 2

SHALLOW ZONE GROUNDWATER ELEVATION CONTOUR
AND HYDROCARBON CONCENTRATION MAP
FORMER TEXACO STATION (CHEVRON SITE 30-7233)
2259 FIRST STREET
Livermore, California
June 6, 2011

312264-2011(012)GN-EM002 JUL 14/2011

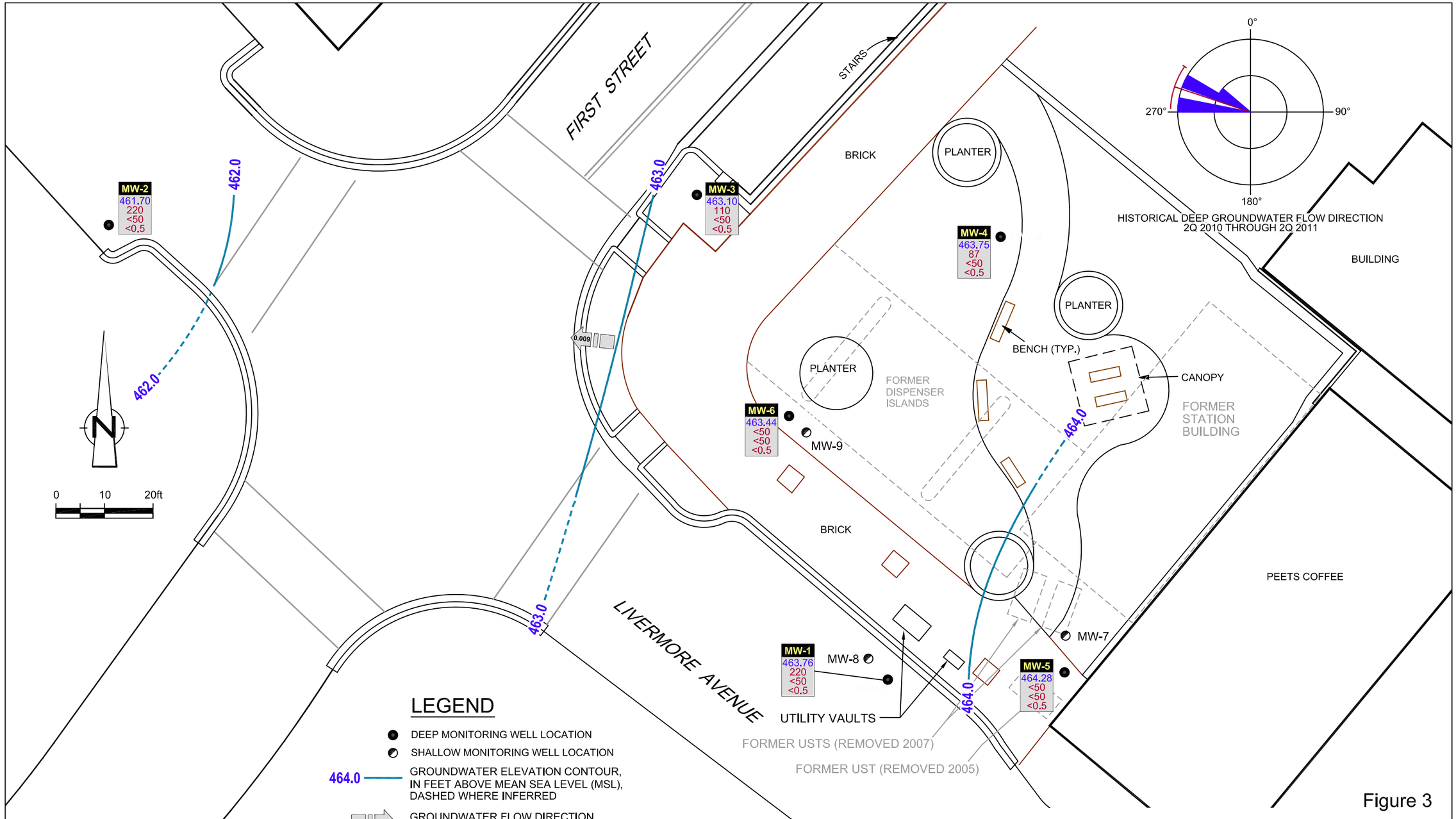

Figure 3

DEEP ZONE GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP FORMER TEXACO STATION (CHEVRON SITE 30-7233) 2259 FIRST STREET

Livermore, California
June 6, 2011

312264-2011(012)GN-EM003 JUL 14/2011

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION
CHEVRON SERVICE STATION 30-7233
2259 FIRST STREET
LIVERMORE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				*GENERAL CHEMISTRY*		
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Nitrate Nitrogen*	*Sulfate*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	05/25/2010[1]	490.86	30.62	460.24	-	-	-	-	-	-	-	-	-	-
MW-1	05/27/2010	490.86	30.65	460.21	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-1	09/13/2010	490.86	36.49	454.37	51	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-1	12/20/2010	490.86	32.24	458.62	-	79	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-1	03/07/2011	490.86	27.86	463.00	-	<50	<50	<0.5	<0.5	<0.5	<0.5	6,900	73,600	<10
MW-1	**06/06/2011**	**490.86**	**27.10**	**463.76**	**-**	**220**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**7,000**	**71,000**	**<10**
MW-2	05/25/2010[1]	489.43	31.18	458.25	-	-	-	-	-	-	-	-	-	-
MW-2	05/27/2010	489.43	31.11	458.32	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-2	09/13/2010	489.43	36.96	452.47	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-2	12/20/2010	489.43	32.62	456.81	-	52	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-2	03/07/2011	489.43	28.26	461.17	-	<50	<50	<0.5	<0.5	<0.5	<0.5	3,600	45,900	20
MW-2	**06/06/2011**	**489.43**	**27.73**	**461.70**	**-**	**220**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2,900**	**43,600**	**<10**
MW-3	05/25/2010[1]	490.38	30.17	460.21	-	-	-	-	-	-	-	-	-	-
MW-3	05/27/2010	490.38	30.98	459.40	610	-	2,100	2	<0.5	<0.5	0.9	-	-	-
MW-3	09/13/2010	490.38	36.77	453.61	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-3	12/20/2010	490.38	32.41	457.97	-	97	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-3	03/07/2011	490.38	28.06	462.32	-	<50	<50	<0.5	<0.5	<0.5	<0.5	4,300	70,400	53
MW-3	**06/06/2011**	**490.38**	**27.28**	**463.10**	**-**	**110**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3,900**	**66,400**	**17**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION
CHEVRON SERVICE STATION 30-7233
2259 FIRST STREET
LIVERMORE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				*GENERAL CHEMISTRY*		
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Nitrate Nitrogen*	*Sulfate*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-4	05/25/2010[1]	492.27	32.21	460.06	-	-	-	-	-	-	-	-	-	-
MW-4	05/27/2010	492.27	32.26	460.01	230	-	1,800	1	<0.5	<0.5	0.7	-	-	-
MW-4	09/13/2010	492.27	38.14	454.13	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-4	12/20/2010	492.27	33.80	458.47	-	180	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-4	03/07/2011	492.27	29.42	462.85	-	<50	<50	<0.5	<0.5	<0.5	<0.5	7,900	72,300	15
MW-4	**06/06/2011**	**492.27**	**28.52**	**463.75**	**-**	**87**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**7,500**	**67,700**	**<10**
MW-5	05/25/2010[1]	491.99	31.39	460.60	-	-	-	-	-	-	-	-	-	-
MW-5	05/27/2010	491.99	31.42	460.57	120	-	420	2	<0.5	<0.5	1	-	-	-
MW-5	09/13/2010	491.99	37.25	454.74	700	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-5	12/20/2010	491.99	33.01	458.98	-	74	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-5	03/07/2011	491.99	28.60	463.39	-	93	<50	<0.5	<0.5	<0.5	<0.5	7,900	70,100	23
MW-5	**06/06/2011**	**491.99**	**27.71**	**464.28**	**-**	**<50**	**18,000**	**1,500**	**45**	**450**	**1,700**	**<250**	**2,700**	**11**
MW-5	**06/22/2011[2]**	**491.99**	**28.90**	**463.09**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**
MW-6	05/25/2010[1]	491.52	31.63	459.89	-	-	-	-	-	-	-	-	-	-
MW-6	05/27/2010	491.52	31.79	459.73	1,000	-	3,700	4	<0.5	<0.5	1	-	-	-
MW-6	09/13/2010	491.52	37.64	453.88	68	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-6	12/20/2010	491.52	33.32	458.20	-	140	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-6	03/07/2011	491.52	28.96	462.56	-	63	<50	<0.5	<0.5	<0.5	<0.5	360	55,400	33
MW-6	**06/06/2011**	**491.52**	**28.08**	**463.44**	**-**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**5,300**	**54,000**	**<10**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION
CHEVRON SERVICE STATION 30-7233
2259 FIRST STREET
LIVERMORE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				*GENERAL CHEMISTRY*		
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Nitrate Nitrogen*	*Sulfate*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-7	05/25/2010[1]	492.29	28.69	463.60	-	-	-	-	-	-	-	-	-	-
MW-7	05/27/2010	492.29	28.61	463.68	2,800	-	14,000	1,800	35	320	660	-	-	-
MW-7	09/13/2010	492.29	31.75	460.54	40,000	-	16,000	1,700	33	460	600	-	-	-
MW-7	12/20/2010	492.29	27.96	464.33	-	6,200	15,000	2,800	59	450	530	-	-	-
MW-7	03/07/2011	492.29	24.98	467.31	-	55,000	16,000	1,500	50	470	2,100	<250	2,600	2,800
MW-7	**06/06/2011**	**492.29**	**24.12**	**468.17**	**-**	**24,000**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**8,000**	**70,300**	**4,300**
MW-7	**06/22/2011[2]**	**492.29**	**26.71**	**465.58**	**-**	**-**	**19,000**	**1,800**	**47**	**490**	**2,200**	**-**	**-**	**-**
MW-8	05/25/2010[1]	490.89	30.62	460.27	-	-	-	-	-	-	-	-	-	-
MW-8	05/27/2010	490.89	30.78	460.11	750	-	3,100	36	3	<0.5	2	-	-	-
MW-8	09/13/2010	490.89	36.55	454.34	590	-	3,400	5	2	<0.5	1	-	-	-
MW-8	12/20/2010	490.89	31.60	459.29	-	750	4,000	0.8	0.7	19	3	-	-	-
MW-8	03/07/2011	490.89	28.20	462.69	-	1,300	2,800	0.9	0.7	12	2	<250	7,000	820
MW-8	**06/06/2011**	**490.89**	**27.38**	**463.51**	**-**	**4,300**	**3,100**	**0.9**	**0.7**	**5**	**1**	**<250**	**2,400**	**2,000**
MW-9	05/25/2010[1]	491.64	29.23	462.41	-	-	-	-	-	-	-	-	-	-
MW-9	05/27/2010	491.64	28.96	462.68	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-9	09/13/2010	491.64	31.85	459.79	30,000	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-9	12/20/2010	491.64	28.95	462.69	-	56	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
MW-9	03/07/2011	491.64	25.67	465.97	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<250	172,000	48

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION
CHEVRON SERVICE STATION 30-7233
2259 FIRST STREET
LIVERMORE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				*GENERAL CHEMISTRY*		
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Nitrate Nitrogen*	*Sulfate*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-9	**06/06/2011**	**491.64**	**24.67**	**466.97**	**-**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<250**	**228,000**	**<10**
QA	05/27/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
QA	09/13/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
QA	12/20/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
QA	03/07/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-
QA	**06/06/2011**	**-**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**
QA	**06/22/2011**	**-**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

VOCS = Volatile Organic Compounds

B = Benzene

T = Toluene

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO STATION
CHEVRON SERVICE STATION 30-7233
2259 FIRST STREET
LIVERMORE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				*GENERAL CHEMISTRY*		
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Nitrate Nitrogen*	*Sulfate*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*

E = Ethylbenzene

X = Xylene

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

* TOC elevations were surveyed on April 19, 2010 by Morrow Surveying. Vertical datum is NAVD 88 from GPS observations

1 Well development performed.

2 Second quarter 2011 resampling event because MW-5 and MW-7 bottles for TPHg and BTEX analysis were switched during the original 6/6/2011 sampling event.

ATTACHMENT A

MONITORING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

June 13, 2011
G-R #385876

TO: Ms. Kiersten Hoey
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Former Chevron Service Station
#307233
2259 First Street
Livermore, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Second Quarter Event of June 6, 2011**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-0271

WELL CONDITION STATUS SHEET

Client/Facility #: **Chevron #307233**
Site Address: **2259 First Street**
City: **Livermore, CA**

Job #: **385876**
Event Date: 6-6-11
Sampler: Joe

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
MW-1	O.K							N	N	12" EMCO / 2	No
MW-2	O.K									"	
MW-3	O.K									6" Morrison / 2	
MW-4	O.K									"	
MW-5	O.K									12" EMCO / 2	
MW-6	O.K									6" Morrison / 2	
MW-7	O.K									"	
MW-8	O.K									12" EMCO / 2	
MW-9	O.K									6" Morrison / 2	

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 6.6.11 (inclusive)
City: Livermore, CA Sampler: FT

Well ID MW-1 Date Monitored: 6.6.11
Well Diameter 2 in.
Total Depth 58.80 ft.
Depth to Water 27.10 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

31.70 xVF .17 = 5.38 x3 case volume = Estimated Purge Volume: 16.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.44

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	✓
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1000 Weather Conditions: CLOUDY
Sample Time/Date: 1030 / 6.6.11 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 2.0 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 30.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1002	5.5	7.27	514	18.4	PRE: 1.9	PRE: 110
1004	11.0	7.24	522	18.6		
1007	16.0	7.21	531	18.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 | Job Number: 385876
Site Address: 2259 First Street | Event Date: 6.6.11 (inclusive)
City: Livermore, CA | Sampler: FT

Well ID: MW-2 | Date Monitored: 6.6.11
Well Diameter: 2 in.
Total Depth: 58.62 ft.
Depth to Water: 27.73 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

30.89 xVF .17 = 5.25 x3 case volume = Estimated Purge Volume: 16.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.90

Purge Equipment:
- Disposable Bailer: ____
- Stainless Steel Bailer: /
- Stack Pump: ____
- Suction Pump: ____
- Grundfos: ____
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

Sampling Equipment:
- Disposable Bailer: ✓
- Pressure Bailer: ____
- Discrete Bailer: ____
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

Time Started: ____ (2400 hrs)
Time Completed: ____ (2400 hrs)
Depth to Product: ____ ft
Depth to Water: ____ ft
Hydrocarbon Thickness: ____ ft
Visual Confirmation/Description: ____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____
Product Transferred to: ____

Start Time (purge): 0800 | Weather Conditions: CLOUDY
Sample Time/Date: 0830 / 6.6.11 | Water Color: CLEAR | Odor: Y / (N)
Approx. Flow Rate: 2.0 gpm. | Sediment Description: NONE
Did well de-water? NO | If yes, Time: ____ | Volume: ____ gal. | DTW @ Sampling: 28.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0803	5.5	7.36	562	18.7	PRE: 2.0	PRE: 95
0806	11.0	7.33	570	19.0		
0810	16.0	7.30	578	19.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS: ____

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Add/Replaced Bolt: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **385876**

Site Address: **2259 First Street** Event Date: 6.6.11 (inclusive)

City: **Livermore, CA** Sampler: FT

Well ID **MW-3** Date Monitored: 6.6.11

Well Diameter 2 in.

Total Depth 59.35 ft.

Depth to Water 27.28 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

32.07 xVF .17 = 5.45 x3 case volume = Estimated Purge Volume: 16.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.69

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	✓
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1045 Weather Conditions: CLOUDY

Sample Time/Date: 1120 / 6.6.11 Water Color: CLEAR Odor: Y / (N)

Approx. Flow Rate: 2.0 gpm. Sediment Description: NONE

Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 30.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1048	5.5	7.40	434	18.9	PRE: 2.2	PRE: 62
1051	11.0	7.37	440	19.1		
1055	16.0	7.34	449	19.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **385876**

Site Address: **2259 First Street** Event Date: 6-6-11 (inclusive)

City: **Livermore, CA** Sampler: Joe

Well ID **MW-4** Date Monitored: 6-6-11

Well Diameter **2** in.

Total Depth 58.90 ft.

Depth to Water 28.52 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

30.38 xVF 0.17 = 5.16 x3 case volume = Estimated Purge Volume: 15.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 34.59

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	✓
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0825 Weather Conditions: cloudy

Sample Time/Date: 0900 / 6-6-11 Water Color: clear Odor: Y / N

Approx. Flow Rate: 2-2.5 gpm. Sediment Description: none

Did well de-water? yes If yes, Time: 0826 Volume: 11 gal. DTW @ Sampling: 29.66

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0824	5	6.92	698	16.6	PRE: 1.6	PRE: 51
0826	10	6.86	720	16.3		
	11					

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **385876**

Site Address: **2259 First Street** Event Date: 6-6-11 (inclusive)

City: **Livermore, CA** Sampler: Joe

Well ID **MW-5** Date Monitored: 6-6-11

Well Diameter **2** in.

Total Depth 58.85 ft.

Depth to Water 27.71 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

31.14 xVF 0.17 = 5.29 x3 case volume = Estimated Purge Volume: 16 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.93

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1052 Weather Conditions: cloudy

Sample Time/Date: 1130 16-6-11 Water Color: clear Odor: Y / N

Approx. Flow Rate: gpm. Sediment Description: none

Did well de-water? no If yes, Time: Volume: gal. DTW @ Sampling: 28.42

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1100	5	7.25	815	16.6	PRE: 1.8	PRE: 36
1108	10	7.32	806	16.4		
1116	16	7.38	797	16.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	2 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **385876**

Site Address: **2259 First Street** Event Date: 6-6-11 (inclusive)

City: **Livermore, CA** Sampler: Joe

Well ID **MW-6** Date Monitored: 6-6-11

Well Diameter **2** in.

Total Depth 58.97 ft.

Depth to Water 28.08 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

30.89 xVF 0.17 = 5.25 x3 case volume = Estimated Purge Volume: 16 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 34.25

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0910 Weather Conditions: cloudy

Sample Time/Date: 0943 / 6-6-11 Water Color: clear Odor: Y / N

Approx. Flow Rate: ~ gpm. Sediment Description: none

Did well de-water? no If yes, Time: - Volume: - gal. DTW @ Sampling: 29.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0917	5	7.22	1006	17.0	PRE: 1.7	PRE: 72
0920	10	7.28	1014	16.5		
0928	16	7.31	1011	16.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 6	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 Job Number: 385876
Site Address: 2259 First Street Event Date: 6-6-11 (inclusive)
City: Livermore, CA Sampler: Jor

Well ID MW-7 Date Monitored: 6-6-11
Well Diameter 2 in.
Total Depth 32.83 ft.
Depth to Water 24.12 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

8.71 xVF 0.17 = 1.48 x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 25.86

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1145 Weather Conditions: cloudy
Sample Time/Date: 1215 16-6-11 Water Color: light yellow Odor: (Y) / N very strong
Approx. Flow Rate: gpm. Sediment Description: none
Did well de-water? no If yes, Time: Volume: gal. DTW @ Sampling: 25.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1150	1.5	6.59	496	16.2	PRE: 0.2	PRE: -49
1155	3	6.62	487	16.7		
1202	4.5	6.67	481	16.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS: Sheen in sampled water.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **385876**
Site Address: **2259 First Street** Event Date: 6-6-11 (inclusive)
City: **Livermore, CA** Sampler: FC

Well ID MW-8 Date Monitored: 6-6-11
Well Diameter 2 in.
Total Depth 39.40 ft.
Depth to Water 27.38 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

12.02 xVF .17 = 2.04 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 29.78

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0900 Weather Conditions: CLOUDY
Sample Time/Date: 0940 / 6-6-11 Water Color: LT. GRY. Odor: (Y) / N MODERATE
Approx. Flow Rate: — gpm. Sediment Description: S-SILTY
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 28.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0906	2.0	7.10	452	18.6	PRE: .90	PRE: -75
0912	4.0	7.06	461	18.9		
0918	6.0	7.03	470	19.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **385876**

Site Address: **2259 First Street** Event Date: 6-6-11 (inclusive)

City: **Livermore, CA** Sampler: Joe

Well ID **MW-9** Date Monitored: 6-6-11

Well Diameter **2** in.

Total Depth 39.65 ft.

Depth to Water 24.67 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

14.98 xVF 0.17 = 2.55 x3 case volume = Estimated Purge Volume: 8 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.66

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1000 Weather Conditions: cloudy

Sample Time/Date: 1030 / 6-6-11 Water Color: clear Odor: Y / N

Approx. Flow Rate: — gpm. Sediment Description: none

Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 25.24

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - @)	Temperature (@ / F)	D.O. (mg/L)	ORP (mV)
1007	3	7.31	897	17.2	PRE: 1.9	PRE: 78
1013	5	7.36	910	17.1		
1020	8	7.33	904	17.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. #: ______ Sample # ______ Group #: 006410

Facility #: SS#307233-OML G-R#385876 Global ID#T0600196622

Site Address: 2259 FIRST STREET, LIVERMORE, CA

Chevron PM: TB Lead Consultant: CRADG Gruna

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: JOE AJEMIAN / F.T

Analyses Requested / **Preservation Codes**: H, H (BTEX + MTBE, TPH 8015 MOD GRO)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☒ Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA	—	—	✓			✓		2	✓	✓					
MW-1	6-6-11	1030	↓			↓		8	✓	✓	✓				
MW-2	↓	0830	↓			↓		8	✓	✓	✓				
MW-3	↓	1120	↓			↓		8	✓	✓	✓				
MW-4	↓	0900	↓			↓		8	✓	✓	✓				
MW-5	↓	1130	↓			↓		8	✓	✓	✓				
MW-6	↓	0943	↓			↓		8	✓	✓	✓				
MW-7	↓	1215	↓			↓		8	✓	✓	✓				
MW-8	↓	0940	↓			↓		8	✓	✓	✓				
MW-9	↓	1030	↓			↓		8	✓	✓	✓				

Matrix: ☐ Potable ☐ NPDES

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R

Turnaround Time Requested (TAT) (please circle)

STD. TAT (circled) 72 hour 48 hour
~~24 hour~~ 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full EDF/EDD
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6-7-11	1415	[signature]	6/7/11	1415
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other ______			Received by:	Date	Time
Temperature Upon Receipt ______ C°			Custody Seals Intact? Yes No		

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. #: _____ Sample # _____ Group #: 006409

Facility #: SS#307233-OML G-R#385876 Global ID#T0600196622

Site Address: 2259 FIRST STREET, LIVERMORE, CA

Chevron PM: TB Lead Consultant: CRADG Gruna

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: JOE AJEMIAN / FT

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ____ Method	Total Lead ____ Method	Dissolved Lead ____ Method	Nitrate Sulfate (EPA 300.0)	Ferrous Iron (SM20 3500Fe B)	#
MW-1	6-6-11	1030	✓			✓		3								K	K	
MW-2		0930						3								✓	✓	
MW-3		1120						3								✓	✓	
MW-4		0900						3								✓	✓	
MW-5		1130						3								✓	✓	
MW-6		0943						3								✓	✓	
MW-7		1215						3								✓	✓	
MW-8		0940						3								✓	✓	
MW-9		1030						3								✓	✓	

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full EDF/EDD
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time	Received by:	Date	Time
Relinquished by:	6-6-11	1600			
Relinquished by:					
Relinquished by:					
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:		
Temperature Upon Receipt ____ C°			Custody Seals Intact? Yes No		

GETTLER-RYAN INC.

TRANSMITTAL

July 1, 2011
G-R #385876

TO: Ms. Kiersten Hoey
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Former Chevron Service Station
#307233
2259 First Street
Livermore, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Special Event of June 22, 2011**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-0271

6747 Sierra Court, Suite J • **Dublin**, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317

WELL CONDITION STATUS SHEET

Client/Facility #: **Chevron #307233**
Site Address: **2259 First Street**
City: **Livermore, CA**

Job #: **385876**
Event Date: 6/22/11
Sampler: HAIG KEVORK

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
MW-5	OK						OK	N	N	EMCO - 12" / 2	NO
MW-7	OK						OK	N	N	MORRISON - 7" / 2	NO

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #307233** Job Number: **385876**

Site Address: **2259 First Street** Event Date: 6/22/11 (inclusive)

City: **Livermore, CA** Sampler: HAIG K.

Well ID **MW-5** Date Monitored: 6/22/11

Well Diameter **2**

Total Depth 58.85 ft.

Depth to Water 28.90 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

29.95 xVF 0.17 = 5 x3 case volume = Estimated Purge Volume: 15 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 34.89

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: ~~0~~ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____

Start Time (purge): 1105 Weather Conditions: SUNNY

Sample Time/Date: 1200 / 6/22/11 Water Color: CLEAR Odor: Y / (N)

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 30.24

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1118	5	7.58	762	24.1		
1131	10	7.55	754	24.3		
1145	15	7.51	756	24.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #307233 | Job Number: 385876
Site Address: 2259 First Street | Event Date: 6/22/11 (inclusive)
City: Livermore, CA | Sampler: HAIG K.

Well ID: MW-7 | Date Monitored: 6/22/11
Well Diameter: 2
Total Depth: 32.83 ft.
Depth to Water: 26.71 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

6.12 xVF 0.17 = 1 x3 case volume = Estimated Purge Volume: 3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.93

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: ~~0~~ ft
Visual Confirmation/Description: ~~/~~
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____

Start Time (purge): 1223 | Weather Conditions: SUNNY
Sample Time/Date: 1245 / 6/22/11 | Water Color: CLEAR | Odor: (Y) / N STRONG
Approx. Flow Rate: _____ gpm. | Sediment Description: _____
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 27.31

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1226	1	7.08	983	24.5		
1229	2	7.05	996	24.3		
1233	3	7.03	992	24.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. #: _____ Sample # _____ Group #: 006474

Facility #: SS#307233-OML G-R#385876 Global ID#T0600196622

Site Address: 2259 FIRST STREET, LIVERMORE, CA

Chevron PM: TB Lead Consultant: CRAHK Hoey

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: HAIG KEVORK

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ____	Total Lead ____ Method	Dissolved Lead ____ Method
QA	6/22/11		X			X		2	X	X					
MW-5	↓	1200	X			X		6	X	X					
MW-7	↓	1245	X			X		6	X	X					

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)

~~STD. TAT~~	72 hour	48 hour
~~24 hour~~	4 day	5 day

Data Package Options (please circle if required)

QC Summary Type I - Full EDF/EDD
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	6/22/11	1330	Received by:		
Relinquished by:	6.24.11	1130	Received by:	6.24.11	1130
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other ____			Received by:		
Temperature Upon Receipt ____ C°			Custody Seals Intact? Yes No		

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

June 15, 2011

Project: 307233

Submittal Date: 06/07/2011
Group Number: 1250138
PO Number: 0015075227
Release Number: FROHNAPPLE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
MW-1-W-110606 Grab Water	6308008
MW-2-W-110606 Grab Water	6308009
MW-3-W-110606 Grab Water	6308010
MW-4-W-110606 Grab Water	6308011
MW-5-W-110606 Grab Water	6308012
MW-6-W-110606 Grab Water	6308013
MW-7-W-110606 Grab Water	6308014
MW-8-W-110606 Grab Water	6308015
MW-9-W-110606 Grab Water	6308016

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

ELECTRONIC COPY TO	CRA c/o Gettler-Ryan	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: David Grunat

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

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

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-1-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-1

LLI Sample # WW 6308008
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 10:30 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	7,000	250	5
00228	Sulfate		14808-79-8	71,000	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	N.D.	10	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 16:16	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 16:16	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-2-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-2

LLI Sample # WW 6308009
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 08:30 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	2,900	250	5
00228	Sulfate		14808-79-8	43,600	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	N.D.	10	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 17:27	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 17:27	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-3-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-3

LLI Sample # WW 6308010
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 11:20 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	3,900	250	5
00228	Sulfate		14808-79-8	66,400	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	17	10	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 17:41	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 17:41	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **MW-4-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-4

LLI Sample # WW 6308011
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 09:00 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	7,500	250	5
00228	Sulfate		14808-79-8	67,700	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	N.D.	10	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 17:55	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 17:55	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	1

Lancaster Laboratories

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Analysis Report

Sample Description: **MW-5-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-5

LLI Sample # WW 6308012
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 11:30 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	2,700	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	11	10	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 18:09	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 18:09	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	1

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Analysis Report

Sample Description: **MW-6-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-6

LLI Sample # WW 6308013
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 09:43 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	5,300	250	5
00228	Sulfate		14808-79-8	54,000	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	N.D.	10	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 18:24	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 18:24	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	1

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Analysis Report

Sample Description: **MW-7-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-7

LLI Sample # WW 6308014
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 12:15 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	8,000	250	5
00228	Sulfate		14808-79-8	70,300	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	4,300	100	10

General Sample Comments

State of California Lab Certification No. 2501

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 18:38	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 18:38	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	10

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Analysis Report

Sample Description: **MW-8-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-8

LLI Sample # WW 6308015
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 09:40 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	2,400	1,500	5
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	2,000	50	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 18:52	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/07/2011 18:52	Ashley M Adams	5
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	5

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Analysis Report

Sample Description: **MW-9-W-110606 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-9

LLI Sample # WW 6308016
LLI Group # 1250138
Account # 10904

Project Name: 307233

Collected: 06/06/2011 10:30 by JA

Submitted: 06/07/2011 10:15
Reported: 06/15/2011 16:13

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen		14797-55-8	N.D.	250	5
00228	Sulfate		14808-79-8	228,000	6,000	20
		SM20 3500 Fe B modified		**ug/l**	**ug/l**	
08344	Ferrous Iron		n.a.	N.D.	10	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	11158196904A	06/07/2011 19:06	Ashley M Adams	5
00228	Sulfate	EPA 300.0	1	11158196904A	06/14/2011 22:35	Ashley M Adams	20
08344	Ferrous Iron	SM20 3500 Fe B modified	1	11158834401A	06/07/2011 20:50	Daniel S Smith	1

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1250138
Reported: 06/15/11 at 04:13 PM

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 method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11158196904A	Sample number(s): 6308008-6308016							
Nitrate Nitrogen	N.D.	50.	ug/l	99		90-110		
Sulfate	N.D.	300.	ug/l	103		90-110		
Batch number: 11158834401A	Sample number(s): 6308008-6308016							
Ferrous Iron	N.D.	10.	ug/l	98		92-105		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11158196904A	Sample number(s): 6308008-6308016 UNSPK: 6308008 BKG: 6308008								
Nitrate Nitrogen	103		90-110			7,000	7,000	1	20
Sulfate	136*		90-110			71,000	71,000	0	20
Batch number: 11158834401A	Sample number(s): 6308008-6308016 UNSPK: 6308014 BKG: 6308014								
Ferrous Iron	101	95	83-108	4	6	4,300	4,200	3 (1)	5

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. #: 10904 Sample # 6308008-16 Group #: 006409

1250138

Facility #: SS#307233-OML G-R#385876 Global ID#T0600196622

Site Address: 2259 FIRST STREET, LIVERMORE, CA

Chevron PM: TB Lead Consultant: CRADG Gruna

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: JOE AJEMIAN / FT

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Potable	Matrix: NPDES	Matrix: Air	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup ☐	8260 full scan	Oxygenates	Total Lead	Dissolved Lead Method	Nitrate (EPA 300.0)	Ferrous Iron (SM20 3500Fe B)
MW-1	6-6-11	1030	✓			✓					3								✓	✓
MW-2		0830									3								✓	✓
MW-3		1120									3								✓	✓
MW-4		0900									3								✓	✓
MW-5		1130									3								✓	✓
MW-6		0943									3								✓	✓
MW-7		1215									3								✓	✓
MW-8		0940									3								✓	✓
MW-9	↓	1030	↓			↓					3								✓	✓

Analyses Requested

Preservation Codes

Preservative Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed

☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

☐ Confirm highest hit by 8260

☐ Confirm all hits by 8260

☐ Run ____ oxy's on highest hit

☐ Run ____ oxy's on all hits

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full **EDF/EDD**
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	6-6-11	1600	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by:	6/7/11	1015
Temperature Upon Receipt 1.0 C°			Custody Seals Intact? Yes No		

Explanation of Symbols and Abbreviations

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

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

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

July 05, 2011

Project: 307233

Submittal Date: 06/25/2011
Group Number: 1253438
PO Number: 0015075227
Release Number: FROHNAPPLE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-110622 NA Water	6328403
MW-5-W-110622 Grab Water	6328404
MW-7-W-110622 Grab Water	6328405

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

ELECTRONIC COPY TO	CRA c/o Gettler-Ryan	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	CRA	Attn: Kiersten Hoey

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Analysis Report

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

Respectfully Submitted,

Lawrence M. Taylor
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **QA-T-110622 NA Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 QA

LLI Sample # WW 6328403
LLI Group # 1253438
Account # 10904

Project Name: 307233

Collected: 06/22/2011

Submitted: 06/25/2011 09:00
Reported: 07/05/2011 12:57

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QALVM

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P111794AA	06/28/2011 23:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P111794AA	06/28/2011 23:18	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11180B07A	06/30/2011 11:42	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11180B07A	06/30/2011 11:42	Laura M Krieger	1

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Analysis Report

Sample Description: **MW-5-W-110622 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-5

LLI Sample # WW 6328404
LLI Group # 1253438
Account # 10904

Project Name: 307233

Collected: 06/22/2011 12:00 by HK

Submitted: 06/25/2011 09:00
Reported: 07/05/2011 12:57

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

LVMM5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P111794AA	06/29/2011 03:31	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P111794AA	06/29/2011 03:31	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11180B07A	06/30/2011 16:51	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11180B07A	06/30/2011 16:51	Laura M Krieger	1

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Analysis Report

Sample Description: **MW-7-W-110622 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-7

LLI Sample # WW 6328405
LLI Group # 1253438
Account # 10904

Project Name: 307233

Collected: 06/22/2011 12:45 by HK

Submitted: 06/25/2011 09:00
Reported: 07/05/2011 12:57

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

LVMM7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	1,800	5	10
10943	Ethylbenzene	100-41-4	490	5	10
10943	Toluene	108-88-3	47	5	10
10943	Xylene (Total)	1330-20-7	2,200	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	19,000	250	5

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D111831AA	07/02/2011 07:08	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D111831AA	07/02/2011 07:08	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11180B07A	06/30/2011 19:00	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	11180B07A	06/30/2011 19:00	Laura M Krieger	5

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1253438
Reported: 07/05/11 at 12:57 PM

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 method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D111831AA	Sample number(s): 6328405							
Benzene	N.D.	0.5	ug/l	94		79-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Toluene	N.D.	0.5	ug/l	95		79-120		
Xylene (Total)	N.D.	0.5	ug/l	92		80-120		
Batch number: P111794AA	Sample number(s): 6328403-6328404							
Benzene	N.D.	0.5	ug/l	88	87	79-120	1	30
Ethylbenzene	N.D.	0.5	ug/l	92	92	79-120	0	30
Toluene	N.D.	0.5	ug/l	93	94	79-120	1	30
Xylene (Total)	N.D.	0.5	ug/l	93	94	80-120	0	30
Batch number: 11180B07A	Sample number(s): 6328403-6328405							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D111831AA	Sample number(s): 6328405 UNSPK: P328401								
Benzene	97	92	80-126	5	30				
Ethylbenzene	98	96	71-134	3	30				
Toluene	100	96	80-125	3	30				
Xylene (Total)	97	94	79-125	3	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: D111831AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6328405	94	91	103	99
Blank	99	103	101	92
LCS	96	101	101	101

*- 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.

Quality Control Summary

Client Name: Chevron Group Number: 1253438
Reported: 07/05/11 at 12:57 PM

Surrogate Quality Control

MS	96	102	100	99
MSD	97	100	101	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P111794AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6328403	97	96	101	97
6328404	98	95	100	98
Blank	98	94	101	98
LCS	98	97	101	99
LCSD	97	95	102	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11180B07A

	Trifluorotoluene-F
6328403	96
6328404	97
6328405	146*
Blank	99
LCS	109
LCSD	105
Limits:	63-135

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

062411-01

For Lancaster Laboratories use only

Acct. #: 10904 Sample # 6328403-05 Group #: 006474

GT# 1253438

Facility #: SS#307233-OML G-R#385876 Global ID#T0600196622

Site Address: 2259 FIRST STREET, LIVERMORE, CA

Chevron PM: TB Lead Consultant: CRAHK Hoey

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: HAIG KEVORK

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Matrix: Potable	Matrix: NPDES	Total Number of Containers	BTEX 8260 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA	6/22/11		X			X					2	X	X						
MW-5	↓	1200	X			X					6	X	X						
MW-7	↓	1245	X			X					6	X	X						

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)

STD. TAT | 72 hour | 48 hour
24 hour | 4 day | 5 day

Data Package Options (please circle if required)

QC Summary | Type I - Full | **EDF/EDD**
Type VI (Raw Data) | ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	6/22/11	1330	Received by: GETTLER RYAN/KRIDGE	06-22-11	1330
Relinquished by:	6.24.11	1130	Received by:	6.24.11	1130
Relinquished by:	6/24/11	1400	Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by:	6/25/11	0960
Temperature Upon Receipt 1.9-3.1 C°			Custody Seals Intact? Yes (No)		

Explanation of Symbols and Abbreviations

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

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

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.