Eric Frohnapple, P.E.
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6111 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 543-5336
Fax (925) 543-2324
ericf@chevron.com

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

Re: Former Chevron Service Station No. 30-7233
2259 First Street
Livermore, California

I accept the **Fourth Quarter 2010 Groundwater Monitoring and Sampling Report and Annual Summary** dated January 27, 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 **Fourth Quarter 2010 Groundwater Monitoring and Sampling Report and Annual Summary** 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, P.E.
Project Manager

Attachment: **Fourth Quarter 2010 Groundwater Monitoring and Sampling Report and Annual Summary**

CONESTOGA-ROVERS
& ASSOCIATES

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

January 27, 2011 Reference No. 312264

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

Re: Fourth Quarter 2010 Groundwater Monitoring and Sampling Report
and Annual Summary
Former Chevron Service Station 30-7233
2259 First Street
Livermore, California
Agency Case No. RO2908

Dear Mr. Jerry Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Fourth Quarter 2010 Groundwater Monitoring and Sampling Report and Annual Summary* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc. (G-R) of Dublin, California. G-R's December 23, 2010 *Groundwater Monitoring and Sampling Package* is presented as Attachment A. Current and historical groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' January 7, 2011 *Analytical Results* is presented as Attachment B.

RESULTS OF 2010 SAMPLING EVENTS

On May 27, 2010, September 3, 2010 and December 20, 2010, G-R monitored and sampled the site wells per the established schedule. The second and third quarter 2010 groundwater monitoring and sampling events were previously submitted to Geotracker and the Alameda County Environmental Health (ACEH) database.

Results of the current monitoring event indicate the following:

Shallow Zone (Figure 2)

- Groundwater Flow Direction — Southwest
- Hydraulic Gradient — 0.10
- Depth to Water — 27.96 to 31.60 feet below grade (fbg)

Deep Zone (Figure 3)

- Groundwater Flow Direction West-Northwest
- Hydraulic Gradient 0.009
- Depth to Water 32.24 to 33.80 fbg

Results of the fourth quarter sampling event are presented below in Table A and all 2010 groundwater data is summarized in Table 1.

TABLE A: FOURTH QUARTER 2010 GROUNDWATER ANALYTICAL DATA

Well ID	*TPHd (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*
ESLs[1]	***100***	***100***	***1***	***40***	***30***	***20***
	Deep Wells					
MW-1	79	<50	<0.5	<0.5	<0.5	<0.5
MW-2	52	<50	<0.5	<0.5	<0.5	<0.5
MW-3	97	<50	<0.5	<0.5	<0.5	<0.5
MW-4	**180**	<50	<0.5	<0.5	<0.5	<0.5
MW-5	74	<50	<0.5	<0.5	<0.5	<0.5
MW-6	**140**	<50	<0.5	<0.5	<0.5	<0.5
	Shallow Wells					
MW-7	**6,200**	**15,000**	**2,800**	**59**	**450**	**530**
MW-8	**750**	**4,000**	0.8	0.7	19	3
MW-9	56	<50	<0.5	<0.5	<0.5	<0.5

[1] Potential drinking water resource Environmental Screening Levels (Table A) from the San Francisco Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final November 2007 (Revised May 2008)

CONCLUSIONS AND RECOMMENDATIONS

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

Shallow Zone

- Dissolved hydrocarbon concentrations are centered on well MW-7 and defined crossgradient to the northwest by MW-9 (Figure 2).
- During the third quarter sampling event, elevated total petroleum hydrocarbons as diesel (TPHd) concentrations were detected in well MW-7 and MW-9; however, TPHd concentrations one to two orders of magnitude lower were detected during the second and fourth quarters. We recommend continued sampling to establish and monitor hydrocarbon concentration trends.

Deep Zone

- TPHd concentrations in all deep zone wells are near or below the drinking water Environmental Screening Level (ESL) of 100 micrograms per liter (µg/L).
- No total petroleum hydrocarbons as gasoline (TPHg), or benzene, toluene, ethylbenzene, and xylenes (BTEX) have been detected since the initial sampling event in May 2010.
- Dissolved hydrocarbon concentrations are vertically defined by deep zone wells MW-1 through MW-6.

After the first quarter 2011 sampling event, CRA recommends decreasing monitoring and sampling frequency to semi-annual during the first and third quarters to align with the State Water Resource Control Board's Resolution No. 2009-0081. CRA also recommends adding bioparameters to the first quarter's analysis suite to evaluate natural attenuation processes.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

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

Additional Activity

As requested by the ACEH in a letter dated November 15, 2010, CRA will submit a Corrective Action Plan by May 3, 2010.

CONESTOGA-ROVERS & ASSOCIATES

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

PROFESSIONAL GEOLOGIST BRANDON S. WILKEN No. 7564 STATE OF CALIFORNIA

Kiersten Hoey Brandon S. Wilken, PG 7564

AA/aa/9
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 Package
Attachment B	Laboratory Analytical Report

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

FIGURES

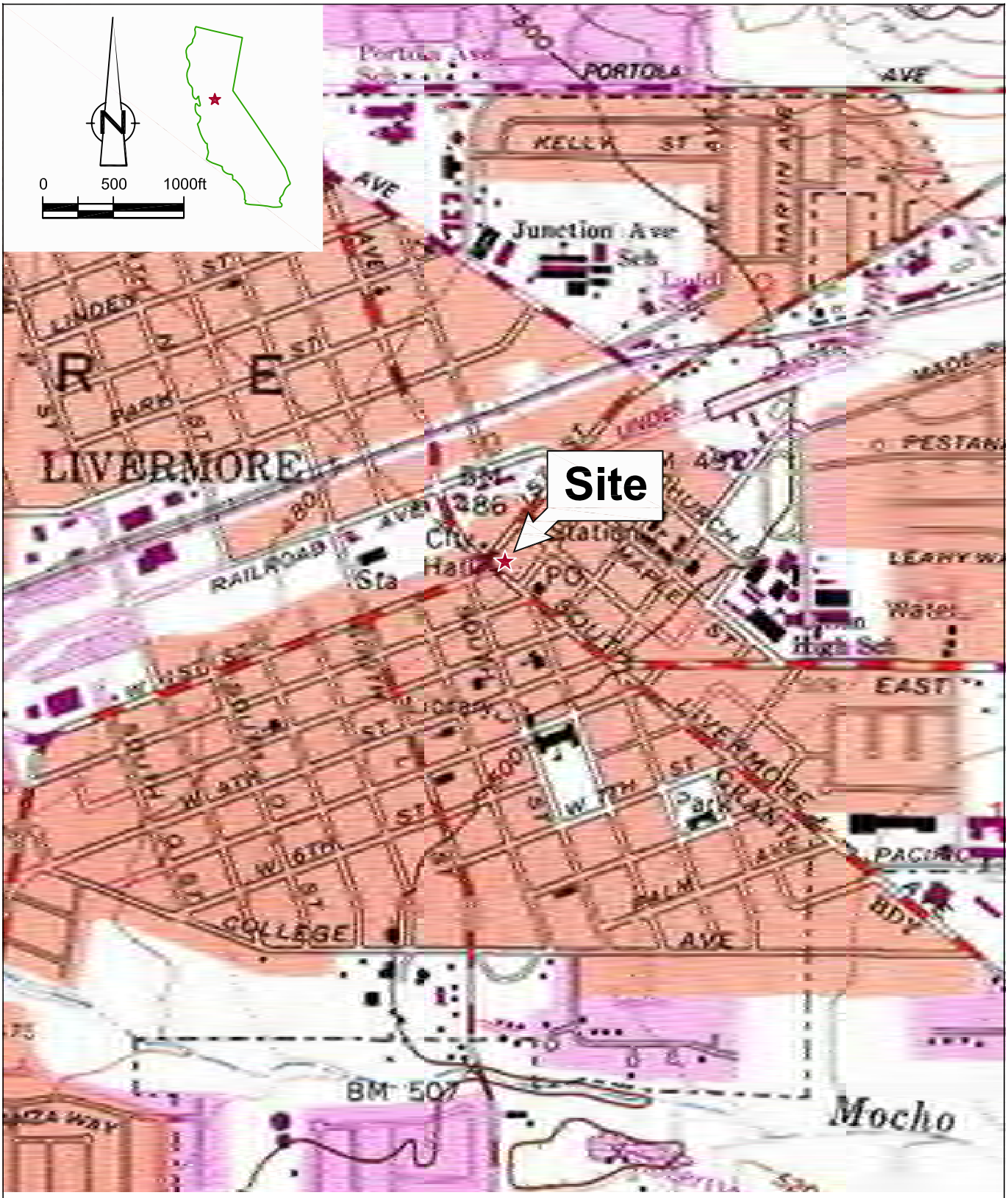

Figure 1

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

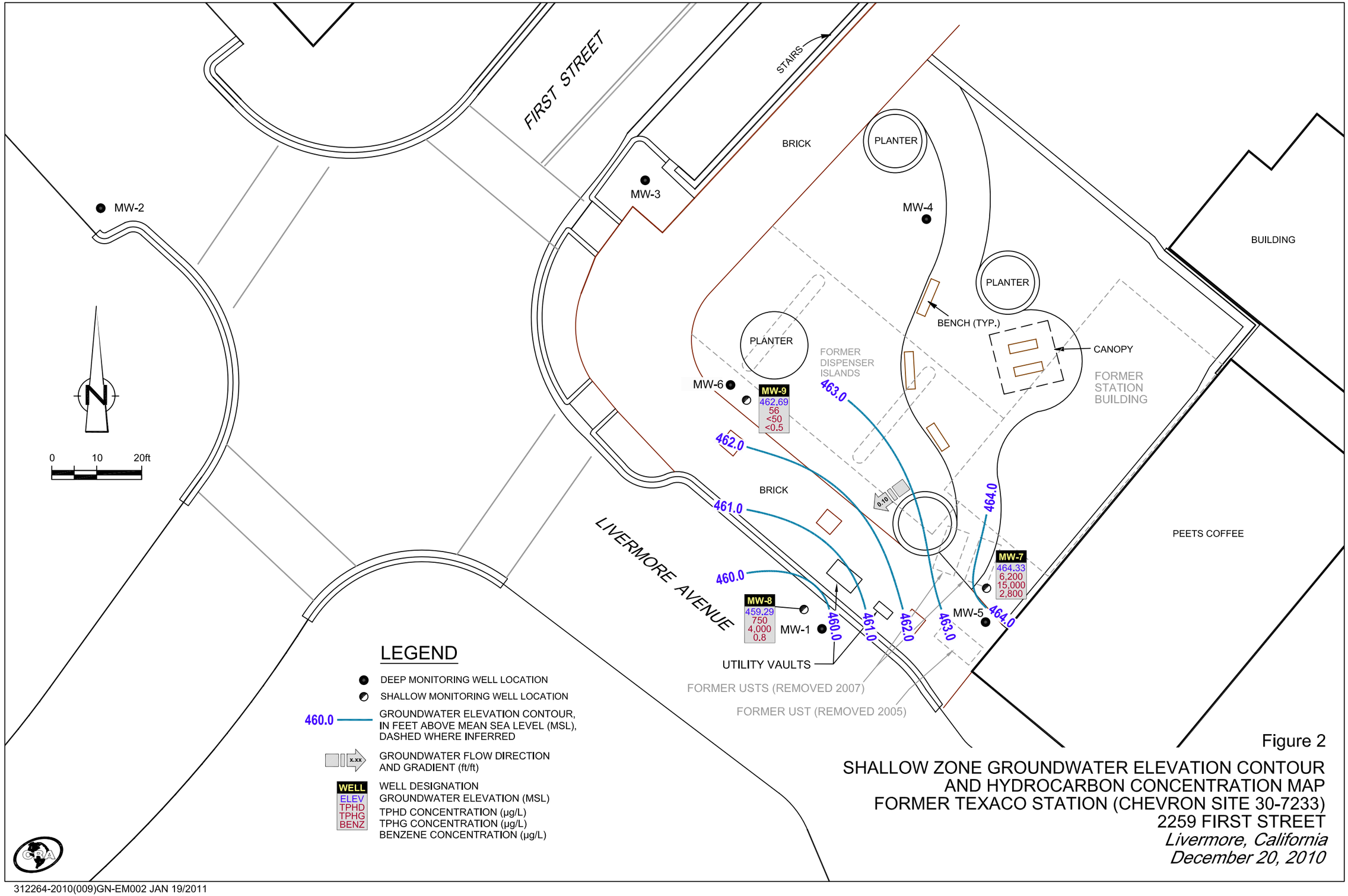

Figure 2

SHALLOW ZONE GROUNDWATER ELEVATION CONTOUR
AND HYDROCARBON CONCENTRATION MAP
FORMER TEXACO STATION (CHEVRON SITE 30-7233)
2259 FIRST STREET
Livermore, California
December 20, 2010

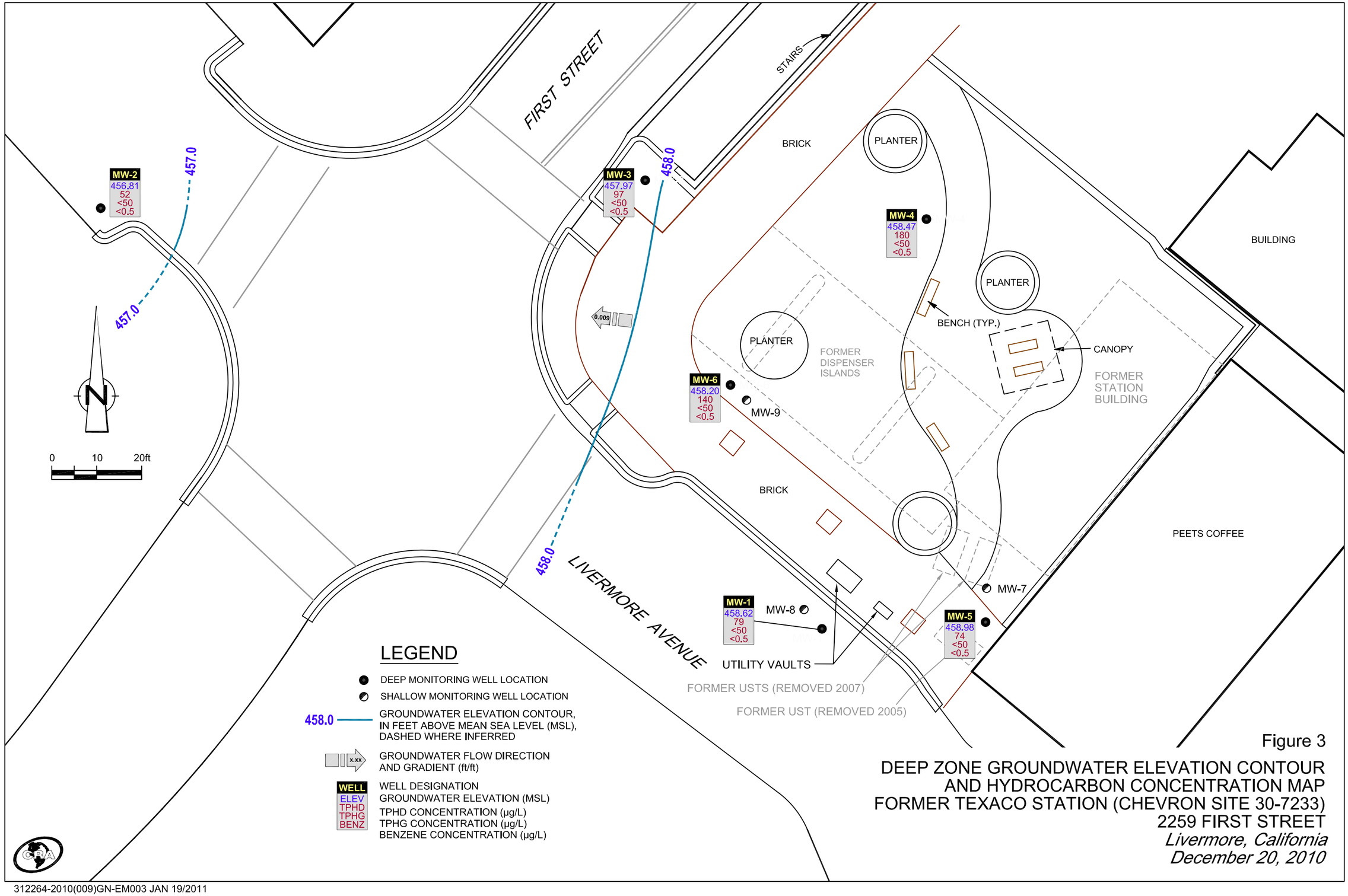

Figure 3

DEEP ZONE GROUNDWATER ELEVATION CONTOUR
AND HYDROCARBON CONCENTRATION MAP
FORMER TEXACO STATION (CHEVRON SITE 30-7233)
2259 FIRST STREET
Livermore, California
December 20, 2010

TABLE

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*
	Units	*ft*	*ft*	*ft-amsl*	*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-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-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-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-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

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
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-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-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-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-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**

TABLE 1

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

					HYDROCARBONS			*PRIMARY VOCS*			
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
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**

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

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.

ATTACHMENT A

MONITORING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

December 23, 2010
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 **Fourth Quarter Event of December 20, 2010**

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: 12/20/10
Sampler: JH, JA

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/c							N	N	12" emco	N
MW-2	o/c										
MW-5	o/c										
MW-8	o/c										
MW-3	o/c									6" Morrison	
MW-4	o/c										
MW-6	o/c										
MW-7	o/c										
MW-9	o/c										

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: 12-20-10 (inclusive)

City: **Livermore, CA** Sampler: JA / JH

Well ID **MW-1** Date Monitored: 12-20-10

Well Diameter 2 in.

Total Depth 58.82 ft.

Depth to Water 32.24 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.

26.58 xVF 0.17 = 4.51 x3 case volume = Estimated Purge Volume: 13.55 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 37.55

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 1035 Weather Conditions: Cloudy

Sample Time/Date: 1110 12-20-10 Water Color: clear Odor: Y / N

Approx. Flow Rate: 2 gpm. Sediment Description: slight

Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 35.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1037	4	7.64	886	17.0		
1039	8	7.43	901	16.9		
1042	14	7.38	917	16.7		

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)

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: 12-20-10 (inclusive)
City: Livermore, CA | Sampler: JA/JH

Well ID: MW-2 | Date Monitored: 12-20-10
Well Diameter: 2 in.
Total Depth: 58.64 ft.
Depth to Water: 32.62 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.

26.02 xVF 0.17 = 4.42 x3 case volume = Estimated Purge Volume: 13.27 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 37.82

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 0949 | Weather Conditions: Cloudy
Sample Time/Date: 1015 / 12-20-10 | Water Color: clear | Odor: Y / (N)
Approx. Flow Rate: 2 gpm. | Sediment Description: none
Did well de-water? NO | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 35.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0951	4	7.68	651	17.2		
0953	8	7.61	667	17.0		
0956	14	7.49	694	16.7		

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)

COMMENTS: 12" emco

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: 12-20-10 (inclusive)
City: Livermore, CA | Sampler: JA/JH

Well ID: MW-3 | Date Monitored: 12-20-10
Well Diameter: 2 in.
Total Depth: 59.38 ft.
Depth to Water: 32.41 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.

26.97 xVF 0.17 = 4.58 x3 case volume = Estimated Purge Volume: 13.75 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 37.80

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 1125 | Weather Conditions: Cloudy
Sample Time/Date: 1145 / 12-20-10 | Water Color: Clear | Odor: Y (N)
Approx. Flow Rate: 2 gpm. | Sediment Description: none
Did well de-water? No | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 34.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1127	4	7.23	842	17.0		
1139	8	7.20	864	16.8		
1132	14	7.13	870	16.8		

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)

COMMENTS: 6" Morrison

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: 12-20-10 (inclusive)
City: Livermore, CA Sampler: JA / JH

Well ID MW-4 Date Monitored: 12-20-10
Well Diameter 2 in.
Total Depth 58.93 ft.
Depth to Water 33.80 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.

25.13 xVF 0.17 = 4.27 x3 case volume = Estimated Purge Volume: 12.81 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 38.82

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

Sampling Equipment:
Disposable Bailer X
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): 1155 Weather Conditions: Cloudy
Sample Time/Date: 1220 / 12-20-10 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 2 gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 36.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (US))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1157	4	7.25	934	17.5		
1159	8	7.20	951	17.2		
1202	13	7.09	970	17.0		

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)

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: 12-20-10 (inclusive)
City: Livermore, CA | Sampler: Joe

Well ID: MW-5 | Date Monitored: 12-20-10
Well Diameter: 2 in.
Total Depth: 58.88 ft.
Depth to Water: 33.01 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

25.87 xVF 0.17 = 4.39 x3 case volume = Estimated Purge Volume: 13.19 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 38.18

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): 1230 | Weather Conditions: Cloudy
Sample Time/Date: 1300 / 12-20-10 | Water Color: cloudy | Odor: Y / (N)
Approx. Flow Rate: 2 gpm. | Sediment Description: Light
Did well de-water? No | If yes, Time: ____ Volume: ____ gal. | DTW @ Sampling: 36.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1232	4	7.38	918	17.1		
1234	8	7.31	944	16.9		
1237	12	7.26	960	16.8		

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)

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: 12-20-10 (inclusive)
City: Livermore, CA | Sampler: JA/JH

Well ID: MW-6 | Date Monitored: 12-20-10
Well Diameter: 2 in.
Total Depth: 59.01 ft.
Depth to Water: 33.32 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.

25.69 xVF 0.17 = 4.36 x3 case volume = Estimated Purge Volume: 13.10 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 38.45

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

Sampling Equipment:
- Disposable Bailer: X
- 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): 1315 | Weather Conditions: Cloudy
Sample Time/Date: 1350 / 12-20-10 | Water Color: Cloudy | Odor: (Y) / N | Slight HC
Approx. Flow Rate: 2 gpm. | Sediment Description: Slight HC
Did well de-water? No | If yes, Time: ____ | Volume: ____ gal. | DTW @ Sampling: 35.88

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1317	4	7.10	1035	17.1		
1319	8	7.04	1081	17.2		
1322	13	7.00	1112	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)

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: 12-20-10 (inclusive)
City: Livermore, CA Sampler: JA/JH

Well ID MW-7 Date Monitored: 12-20-10
Well Diameter 2 in.
Total Depth 32.85 ft.
Depth to Water 27.96 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

4.89 xVF 0.17 = .83 x3 case volume = Estimated Purge Volume: 2.49 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 28.93

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Discrete Bailer	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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): 1615 Weather Conditions: Rain
Sample Time/Date: 1715 / 12-20-10 Water Color: cloudy Odor: (Y) / N Strong
Approx. Flow Rate: gpm. Sediment Description: L, HC
Did well de-water? Yes If yes, Time: 1620 Volume: 1.25 gal. DTW @ Sampling: 28.55

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1619	1	6.52	903	17.0		
	—	—	—	—		

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)

COMMENTS: SHeen Detected in Bailer

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: 12-20-10 (inclusive)
City: Livermore, CA | Sampler: JA/JH

Well ID: MW-8 | Date Monitored: 12-20-10
Well Diameter: 2 in.
Total Depth: 39.42 ft.
Depth to Water: 31.60 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.

7.82 xVF 0.17 = 1.32 x3 case volume = Estimated Purge Volume: 3.98 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.16

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 1405 | Weather Conditions: Cloudy
Sample Time/Date: 1455 12-20-10 | Water Color: cloudy | Odor: (Y) / N Lt HC
Approx. Flow Rate: — gpm. | Sediment Description: Lt HC
Did well de-water? NO | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 33.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1410	1	7.26	411	17.3		
1416	2	7.20	438	17.2		
1423	4	7.12	457	17.1		

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)

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: 12-20-10 (inclusive)
City: Livermore, CA | Sampler: Jox

Well ID: MW-9 | Date Monitored: 12-20-10
Well Diameter: 2 in.
Total Depth: 39.64 ft.
Depth to Water: 28.95 ft.
10.69 xVF 0.17 = 1.81 x3 case volume = Estimated Purge Volume: 5.45 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.08

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.

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

Sampling Equipment:
Disposable Bailer: X
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): ~~1510~~ 1510 | Weather Conditions: Rain
Sample Time/Date: 1600 12-20-10 | Water Color: Cloudy | Odor (Y) / N Light
Approx. Flow Rate: — gpm. | Sediment Description: Heavy
Did well de-water? Yes | If yes, Time: | Volume: 2 gal. | DTW @ Sampling: 31.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
~~1520~~ 1521	2	6.94	1223	17.0		

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)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

12221Ø-Ø6

For Lancaster Laboratories use only

Acct. #: _____ Sample # _____ Group #: 020282

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

Site Address: 2259 FIRST STREET, LIVERMORE, CA

Chevron PM: EF 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: Jim Hoey

Matrix: ☐ Potable ☐ NPDES; Soil ☐ Water ☐ Oil ☐ Air

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	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 ____
										H	H					
QA	12/20/10		X			X			2	X	X					
MW-1		1110	X			X			8	X	X	X				
MW-2		1015	X			X			8	X	X	X				
MW-3		1145	X			X			8	X	X	X				
MW-4		1220	X			X			8	X	X	X				
MW-5		1300	X			X			8	X	X	X				
MW-6		1350	X			X			8	X	X	X				
MW-7		1715	X			X			8	X	X	X				
MW-8		1455	X			X			8	X	X	X				
MW-9		1600	X			X			8	X	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

	Relinquished by:	Date	Time	Received by:	Date	Time
1		12/20/10	0700	22DEC10	12/16	
2	Relinquished by:	Date	Time	Received by:	Date	Time
3	Relinquished by:	Date	Time	Received by:	Date	Time
4	Relinquished by Commercial Carrier: UPS FedEx Other ____			Received by:	Date	Time
	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

January 07, 2011

Project: 307233

Submittal Date: 12/23/2010
Group Number: 1226940
PO Number: 0015060774
Release Number: FROHNAPPLE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-101220 NA Water	6173240
MW-1-W-101220 Grab Water	6173241
MW-2-W-101220 Grab Water	6173242
MW-3-W-101220 Grab Water	6173243
MW-4-W-101220 Grab Water	6173244
MW-5-W-101220 Grab Water	6173245
MW-6-W-101220 Grab Water	6173246
MW-7-W-101220 Grab Water	6173247
MW-8-W-101220 Grab Water	6173248
MW-9-W-101220 Grab Water	6173249

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

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

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

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

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: **QA-T-101220 NA Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 QA

LLI Sample # WW 6173240
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSLQA

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	F103651AA	12/31/2010 12:39	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 12:39	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10362A53A	12/28/2010 14:04	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10362A53A	12/28/2010 14:04	Martha L Seidel	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-1-W-101220 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-1

LLI Sample # WW 6173241
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 11:10 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL01

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
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	79	54	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	F103651AA	12/31/2010 13:01	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 13:01	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10362A53A	12/28/2010 17:42	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10362A53A	12/28/2010 17:42	Martha L Seidel	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 00:55	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: **MW-2-W-101220 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-2

LLI Sample # WW 6173242
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 10:15 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL02

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
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	52	52	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	F103651AA	12/31/2010 13:22	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 13:22	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10362A53A	12/28/2010 18:07	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10362A53A	12/28/2010 18:07	Martha L Seidel	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 01:17	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: **MW-3-W-101220 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-3

LLI Sample # WW 6173243
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 11:45 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL03

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
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	97	54	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	F103651AA	12/31/2010 13:44	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 13:44	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10362A53A	12/28/2010 18:31	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10362A53A	12/28/2010 18:31	Martha L Seidel	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 01:39	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: MW-4-W-101220 Grab Water
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-4

LLI Sample # WW 6173244
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 12:20 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL04

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
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	180	53	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	F103651AA	12/31/2010 14:06	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 14:06	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10362A53A	12/28/2010 18:56	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10362A53A	12/28/2010 18:56	Martha L Seidel	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 02:01	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: **MW-5-W-101220 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-5

LLI Sample # WW 6173245
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 13:00 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL05

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
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	74	52	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	F103651AA	12/31/2010 14:28	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 14:28	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10364A07A	12/30/2010 20:44	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10364A07A	12/30/2010 20:44	Martha L Seidel	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 02:23	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: **MW-6-W-101220 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-6

LLI Sample # WW 6173246
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 13:50 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL06

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
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	140	53	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	F103651AA	12/31/2010 14:50	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 14:50	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10364A07A	12/30/2010 21:10	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10364A07A	12/30/2010 21:10	Martha L Seidel	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 02:45	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: MW-7-W-101220 Grab Water
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-7

LLI Sample # WW 6173247
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 17:15 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL07

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	2,800	25	50
10943	Ethylbenzene	100-41-4	450	3	5
10943	Toluene	108-88-3	59	3	5
10943	Xylene (Total)	1330-20-7	530	3	5
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	15,000	500	10
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	6,200	53	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	F103651AA	12/31/2010 15:11	Anita M Dale	5
10943	BTEX 8260B Water	SW-846 8260B	1	F103651AA	12/31/2010 15:33	Anita M Dale	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 15:11	Anita M Dale	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F103651AA	12/31/2010 15:33	Anita M Dale	50
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10364A07A	12/31/2010 02:39	Martha L Seidel	10
01146	GC VOA Water Prep	SW-846 5030B	1	10364A07A	12/31/2010 02:39	Martha L Seidel	10
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 09:48	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: **MW-8-W-101220 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-8

LLI Sample # WW 6173248
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 14:55 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL08

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	0.8	0.5	1
10943	Ethylbenzene	100-41-4	19	0.5	1
10943	Toluene	108-88-3	0.7	0.5	1
10943	Xylene (Total)	1330-20-7	3	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,000	50	1
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	750	54	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	F103651AA	12/31/2010 15:55	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 15:55	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10364A07A	12/31/2010 02:14	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10364A07A	12/31/2010 02:14	Martha L Seidel	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 03:07	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: **MW-9-W-101220 Grab Water**
Facility# 307233 Job# 385876 GRD
2259 First St-Livermore T0600196622 MW-9

LLI Sample # WW 6173249
LLI Group # 1226940
Account # 10904

Project Name: 307233

Collected: 12/20/2010 16:00 by JH

Submitted: 12/23/2010 11:20
Reported: 01/07/2011 11:56

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FSL09

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
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	56	53	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	F103651AA	12/31/2010 16:17	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F103651AA	12/31/2010 16:17	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10364A07A	12/30/2010 21:35	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10364A07A	12/30/2010 21:35	Martha L Seidel	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103570026A	12/29/2010 09:26	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103570026A	12/27/2010 03:00	Sherry L Morrow	1

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1226940
Reported: 01/07/11 at 11:56 AM

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: F103651AA	Sample number(s): 6173240-6173249							
Benzene	N.D.	0.5	ug/l	98		79-120		
Ethylbenzene	N.D.	0.5	ug/l	99		79-120		
Toluene	N.D.	0.5	ug/l	100		79-120		
Xylene (Total)	N.D.	0.5	ug/l	100		80-120		
Batch number: 10362A53A	Sample number(s): 6173240-6173244							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	89	84	75-135	6	30
Batch number: 10364A07A	Sample number(s): 6173245-6173249							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: 103570026A	Sample number(s): 6173241-6173249							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	98	103	52-126	5	20

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F103651AA	Sample number(s): 6173240-6173249 UNSPK: P173506								
Benzene	102	99	80-126	2	30				
Ethylbenzene	101	102	71-134	0	30				
Toluene	103	99	80-125	4	30				
Xylene (Total)	103	103	79-125	0	30				

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: F103651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6173240	102	99	106	105
6173241	101	100	97	94
6173242	105	99	102	91

*- 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: 1226940
Reported: 01/07/11 at 11:56 AM

Surrogate Quality Control

6173243	103	101	97	92
6173244	105	102	97	91
6173245	105	102	97	94
6173246	105	100	97	94
6173247	106	101	98	97
6173248	104	97	99	99
6173249	106	104	97	94
Blank	100	101	97	94
LCS	100	100	98	98
MS	100	102	97	98
MSD	105	99	93	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10362A53A

	Trifluorotoluene-F
6173240	73
6173241	70
6173242	71
6173243	70
6173244	69
Blank	74
LCS	88
LCSD	88
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10364A07A

	Trifluorotoluene-F
6173245	99
6173246	96
6173247	117
6173248	145*
6173249	101
Blank	100
LCS	106
LCSD	106
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 103570026A

	Orthoterphenyl
6173241	94
6173242	90
6173243	94
6173244	89
6173245	86
6173246	94
6173247	125
6173248	98
6173249	73

*- 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
Group Number: 1226940
Reported: 01/07/11 at 11:56 AM

Surrogate Quality Control

Blank	82
LCS	112
LCSD	118
Limits:	59-131

*- 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

122216-06

For Lancaster Laboratories use only

Acct. #: 10904 Sample #: 6173240-49 Group #: 020282

G# 1226940

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

Site Address: 2259 FIRST STREET, LIVERMORE, CA

Chevron PM: EF 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: Jim Herrow

Matrix

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (Potable ☐ NPDES ☐)	Oil ☐ Air	Total Number of Containers
QA	12/20/10		X			X		2
MW-1		1110	X			X		8
MW-2		1015	X			X		8
MW-3		1145	X			X		8
MW-4		1220	X			X		8
MW-5		1300	X			X		8
MW-6		1350	X			X		8
MW-7		1715	X			X		8
MW-8		1455	X			X		8
MW-9		1600	X			X		8

Analyses Requested

Preservation Codes H

BTEX + 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☒ Silica Gel Cleanup	8260 full scan	Oxygenates ___ Method	Total Lead ___ Method	Dissolved Lead ___ Method
X	X	X				
X	X	X				
X	X	X				
X	X	X				
X	X	X				
X	X	X				
X	X	X				
X	X	X				
X	X	X				

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:	12/20/10	0700	Received by: A. Nelson 22DEC10	22DEC10	1216
Relinquished by: A. Nelson 22DEC10		1635	Received by: FEDEX		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	12/22/10	1100
Temperature Upon Receipt 1.0-2.4 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.