GETTLER-RYAN INC.

TRANSMITTAL

March 24, 2010
G-R #385867

TO: Ms. Charlotte Evans
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
(VIA PDF)

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

RE: Former Texaco Service Station
930 Springtown Blvd.
Livermore, California
(Site #211253)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 16, 2010	Groundwater Monitoring and Sampling Report **First Quarter Event of February 22, 2010**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced report for **your use and distribution to the following:**

Mr. Ian Robb, Chevron EMC, 6111 Bollinger Canyon Road, Room 3612, San Ramon, CA 94583 **(NO COPY)**
Mr. Jerry Wickham, Alameda County Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 **(Distributed by CRA via PDF)**
Mr. Ken Hilliard, Environmental Services, 7-Eleven, Inc., One Arts Plaza, 1722 Routh St., Suite 1000, Dallas, TX 75201
Mr. Wyman Hong, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551

Enclosures

Trans/211253-IR

GETTLER-RYAN INC.

March 16, 2010
G-R Job #385867

Mr. Ian Robb
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3612
San Ramon, CA 94583

RE: First Quarter Event of February 22, 2010
Groundwater Monitoring & Sampling Report
Former Texaco Service Station #211253
930 Springtown Boulevard
Livermore, California

Dear Mr. Robb:

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

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

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

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

Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, P.G. No. 6882

PROFESSIONAL GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

WELL CONDITION STATUS SHEET

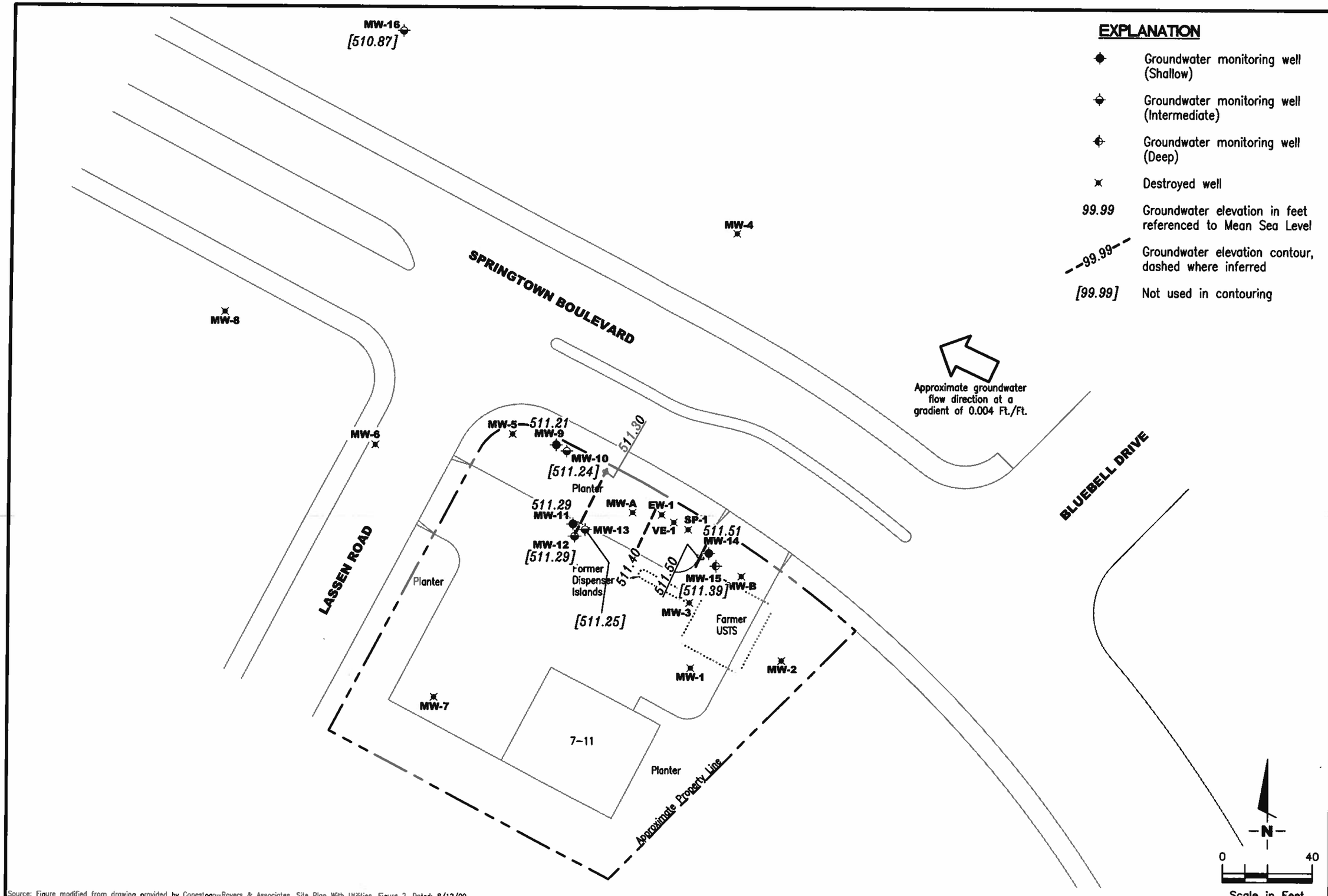
Client/Facility #: Chevron #211253 Job # 385867

Site Address: 930 Springtown Blvd. Event Date: 2/22/10

City: Livermore, CA Sampler: JR

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-9	ok							N	N	12"/Emco/2	N
MW-10	ok							N	N	12"/Emco/2	
MW-11	ok							N	N	12"/Emco/2	
MW-12	ok							N	N	12"/Emco/2	
MW-13	ok							N	N	12"/Emco/2	
MW-14	ok							N	N	12"/Emco/2	
MW-15	ok							N	N	12"/Emco/2	
MW-16	ok					48"	ok	N	N	12"/Emco/2	

Comments



Source: Figure modified from drawing provided by Conestoga-Rovers & Associates, Site Plan With Utilities, Figure 2, Dated: 8/12/09.

POTENTIOMETRIC MAP
Former Texaco Service Station #211253
930 Springtown Boulevard
Livermore, California

FIGURE 1

GETTLER-RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568
(925) 551-7555

PROJECT NUMBER 385867
REVIEWED BY
DATE February 22, 2010
REVISED DATE

FILE NAME: P:\Enviro\Texaco\211253\Q10-211253.dwg | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-9										
07/23/09[1]	523.14	13.00	510.14	0.00	0.00	5,200	4	5	310	100
11/09/09	523.14	12.70	510.44	0.00	0.00	240	4	4	2	5
02/22/10	**523.14**	**11.93**	**511.21**	**0.00**	**0.00**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-10										
07/23/09[1]	522.76	12.59	510.17	0.00	0.00	16,000	220	440	440	660
11/09/09	522.76	12.30	510.46	0.00	0.00	2,800	1	2[3]	30	30
02/22/10	**522.76**	**11.52**	**511.24**	**0.00**	**0.00**	**3,600**	**9**	**2**	**61**	**10**
MW-11										
07/23/09[1]	523.25	13.05	510.20	0.00	0.00	5,400	25	28	62	66
11/09/09	523.25	12.73	510.52	0.00	0.00	1,100	3	0.6[3]	2	2
02/22/10	**523.25**	**11.96**	**511.29**	**0.00**	**0.00**	**1,400**	**2**	**<0.5**	**5**	**0.9**
MW-12										
07/23/09[1]	523.42	13.03	510.41**	0.02	5.01[2]	48,000	340	3,100	1,300	7,600
11/09/09	523.42	12.78	510.64	0.00	0.00	18,000	290	560	22	3,100
02/22/10	**523.42**	**12.13**	**511.29**	**0.00**	**0.00**	**14,000**	**190**	**590**	**310**	**1,400**
MW-13										
07/23/09[1]	523.12	12.75	510.37	0.00	0.00	52,000	760	6,200	980	13,000
11/09/09	523.12	12.51	510.61	0.00	0.00	12,000	340	1,300	16	1,700
02/22/10	**523.12**	**11.87**	**511.25**	**0.00**	**0.00**	**13,000**	**630**	**600**	**22**	**960**
MW-14										
07/23/09[1]	520.88	10.40	510.48	0.00	0.00	8,400	230	460	180	670
11/09/09	520.88	10.11	510.77	0.00	0.00	23,000	1,800	1,900	750	2,600
02/22/10	**520.88**	**9.37**	**511.51**	**0.00**	**0.00**	**48,000**	**3,600**	**7,900**	**2,100**	**9,400**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-15										
07/23/09[1]	520.87	10.33	510.54	0.00	0.00	2,500	6	17	16	320
11/09/09	520.87	10.18	510.69	0.00	0.00	20,000	110	590	370	4,900
02/22/10	**520.87**	**9.48**	**511.39**	**0.00**	**0.00**	**66**	**<0.5**	**3**	**1**	**6**
MW-16										
07/23/09[1]	520.50	10.63	509.87	0.00	0.00	430	0.6	<0.5	<0.5	<0.5
11/09/09	520.50	10.31	510.19	0.00	0.00	180	<0.5	<0.5	<0.5	<0.5
02/22/10	**520.50**	**9.63**	**510.87**	**0.00**	**0.00**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
QA										
07/23/09	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
11/09/09	--	--	--	--	--	<50	<0.5	1[4]	<0.5	<0.5
02/22/10	**--**	**--**	**--**	**--**	**--**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253
930 Springtown Boulevard
Livermore, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
SPHT = Separate Phase Hydrocarbon Thickness
(msl) = Mean Sea Level
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
(µg/L) = Micrograms per liter

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE has been corrected due to the presence of SPH; correction factor: [(TOC - DTW) + (SPHT x 0.80)].

ANALYTICAL METHODS:

TPH-GRO analyzed by EPA Method 8015
BTEX analyzed by EPA Method 8260

1 Well development preformed.

2 Product + water removed.

3 The Laboratory report indicates the result reported for toluene in this sample may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. The trip blank associated with this sample had a trace toluene detection of 1 ug/l. Please refer to the letter accompanying the lab report for further explanation.

4 The Laboratory report indicates the result reported for toluene in this trip blank may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. Please refer to the letter accompanying the lab report for further explanation.

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 #211253** Job Number: **385867**
Site Address: **930 Springtown Blvd.** Event Date: 2/22/10 (inclusive)
City: **Livermore, CA** Sampler: SR

Well ID: MW-9 Date Monitored: 2/22/10
Well Diameter: 4 in.
Total Depth: 14.79 ft.
Depth to Water: 11.93 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

2.86 xVF .66 = 1.8 x3 case volume = Estimated Purge Volume: 5.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.50

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
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): 1215 Weather Conditions: Sunny
Sample Time/Date: 1240 12/22/10 Water Color: brown Odor Y / N weak
Approx. Flow Rate: gpm. Sediment Description: heavy silt/sand
Did well de-water? N If yes, Time: Volume: gal. DTW @ Sampling: 12.07

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1220	2	7.57	797	18.6		
1225	4	7.51	809	18.8		
1229	5.5	7.42	818	18.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/22/10 (inclusive)
City: Livermore, CA Sampler: SR

Well ID MW-10 Date Monitored: 2/22/10
Well Diameter 4 in.
Total Depth 26.51 ft.
Depth to Water 11.52 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	t2"= 5.80

☐ Check if water column is less then 0.50 ft.

14.99 xVF .66 = 9.8 x3 case volume = Estimated Purge Volume: 30 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.51

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): 1250 Weather Conditions: Sunny
Sample Time/Date: 1320 12/22/10 Water Color: Clear Odor Y / N Moderate
Approx. Flow Rate: ≈2 gpm. Sediment Description:
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 12.31

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1255	10	7.33	821	18.6		
1300	20	7.21	842	19.1		
1305	30	7.16	855	19.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/22/10 (inclusive)
City: Livermore, CA Sampler: SR

Well ID MW-11 Date Monitored: 2/22/10
Well Diameter 4 in.
Total Depth 14.65 ft.
Depth to Water 11.96 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

2.69 xVF .66 = 1.7 x3 case volume = Estimated Purge Volume: 5.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.49

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
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): 1100 Weather Conditions: cloudy
Sample Time/Date: 1125 12/22/10 Water Color: gray Odor: Y / N Moderate
Approx. Flow Rate: — gpm. Sediment Description: silty
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 12.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1105	2	7.42	1175	18.2		
1110	4	7.37	1206	18.4		
1114	5.5	7.34	1218	18.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	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 #211253** Job Number: **385867**

Site Address: **930 Springtown Blvd.** Event Date: 2/22/10 (inclusive)

City: **Livermore, CA** Sampler: SR

Well ID **MW-12** Date Monitored: 2/22/10

Well Diameter 4 in.

Total Depth 26.61 ft.

Depth to Water 12.13 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	t2"= 5.80

14.48 xVF .66 = 9.5 x3 case volume = Estimated Purge Volume: 29 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.02

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): 1135 Weather Conditions: sunny

Sample Time/Date: 1205 / 2/22/10 Water Color: clear Odor (Y) N strong

Approx. Flow Rate: x2 gpm. Sediment Description: —

Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 12.89

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C) F	D.O. (mg/L)	ORP (mV)
1140	10	7.19	989	19.5		
1145	20	7.14	976	19.8		
1149.5	29	7.03	960	19.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/22/10 (inclusive)
City: Livermore, CA Sampler: SZ

Well ID MW-13 Date Monitored: 2/22/10
Well Diameter 4 in.
Total Depth 36.66 ft.
Depth to Water 11.87 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

24.79 xVF .66 = 16.3 x3 case volume = Estimated Purge Volume: 49 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.82

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): 1010 Weather Conditions: cloudy
Sample Time/Date: 1050 12/22/10 Water Color: clear Odor: Y / N moderate → strong
Approx. Flow Rate: ≈2 gpm. Sediment Description: —
Did well de-water? n If yes, Time: — Volume: — gal. DTW @ Sampling: 13.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm or µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1018	16	7.30	946	18.1		
1026	32	7.29	963	18.7		
1034.5	49	7.22	991	19.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-13	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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/22/10 (inclusive)
City: Livermore, CA Sampler: SR

Well ID MW-14 Date Monitored: 2/22/10
Well Diameter 4 in.
Total Depth 14.44 ft.
Depth to Water 9.37 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.

5.07 xVF .66 = 3.3 x3 case volume = Estimated Purge Volume: 10 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.38

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): 0935 Weather Conditions: cloudy
Sample Time/Date: 1000 12/22/10 Water Color: lt. gray Odor: (Y) / N very strong
Approx. Flow Rate: ≈1 gpm. Sediment Description: cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 9.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0938	3	7.28	1026	15.9		
0941	6	7.14	1041	16.1		
0945	10	7.09	1057	16.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-14	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: sheen

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/22/10 (inclusive)
City: Livermore, CA Sampler: SR

Well ID MW-15 Date Monitored: 2/22/10
Well Diameter 4 in.
Total Depth 45.95 ft.
Depth to Water 9.48 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	t2"= 5.80

☐ Check if water column is less then 0.50 ft.

36.47 xVF .66 = 24.0 x3 case volume = Estimated Purge Volume: 72 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.77

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): 0845 Weather Conditions: cloudy
Sample Time/Date: 0925 12/22/10 Water Color: clear Odor: Y (N)
Approx. Flow Rate: ≈3 gpm. Sediment Description:
Did well de-water? N If yes, Time: Volume: gal. DTW @ Sampling: 14.31

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0853	24	7.61	1026	16.1		
0901	48	7.49	1078	16.8		
0909	72	7.37	1104	17.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-15	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 #211253 Job Number: 385867
Site Address: 930 Springtown Blvd. Event Date: 2/22/10 (inclusive)
City: Livermore, CA Sampler: SR

Well ID MW-16 Date Monitored: 2/22/10
Well Diameter 4 in.
Total Depth 29.12 ft.
Depth to Water 9.63 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.

19.49 xVF .66 = 12.8 x3 case volume = Estimated Purge Volume: 39 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.52

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): 1335 Weather Conditions: sunny
Sample Time/Date: 1405 12/22/10 Water Color: clear Odor: (Y) N weak
Approx. Flow Rate: ≈3 gpm. Sediment Description: —
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 10.47

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1339	12	7.62	943	21.9		
1343	24	7.40	969	21.7		
1348	39	7.29	986	21.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-16	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

022410-02 Acct. #: 10904 For Lancaster Laboratories use only Sample # 5914434-42 Group #: 017645

Grp #1183780

Facility #: SS#211253-OML G-R#385867 Global ID#T0600101353
Site Address: 930 SPRINGTOWN BLVD., LIVERMORE, CA
Chevron PM: JR Lead Consultant: CRACE
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: Steve Rice

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil / Air	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	2/22/10					X		2	X	X					
MW-9		1240	X			X		6	X	X					
MW-10		1320	X			X		6	X	X					
MW-11		1125	X			X		6	X	X					
MW-12		1205	X			X		6	X	X					
MW-13		1050	X			X		6	X	X					
MW-14		1000	X			X		6	X	X					
MW-15		0925	X			X		6	X	X					
MW-16		1405	X			X		6	X	X					

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

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:	2/22/10	1500	Received by: MW02	2/22/10	1500
Relinquished by: MW02	2/24/10	1000	Received by:	2/24/10	1200
Relinquished by:	2/24/10		Received by: Fed Ex	2/24/10	
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	2/25/10	0910
Temperature Upon Receipt 1.3-3.2 C°			Custody Seals Intact? Yes No		

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

March 04, 2010

Project: 211253

Samples arrived at the laboratory on Thursday, February 25, 2010. The PO# for this group is 0015058478 and the release number is ROBB. The group number for this submittal is 1183780.

Client Sample Description	Lancaster Labs (LLI) #
QA-T-100222 NA Water	5914434
MW-9-W-100222 Grab Water	5914435
MW-10-W-100222 Grab Water	5914436
MW-11-W-100222 Grab Water	5914437
MW-12-W-100222 Grab Water	5914438
MW-13-W-100222 Grab Water	5914439
MW-14-W-100222 Grab Water	5914440
MW-15-W-100222 Grab Water	5914441
MW-16-W-100222 Grab Water	5914442

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: Cheryl Hansen

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: QA-T-100222 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 QA

LLI Sample # WW 5914434
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010

Account Number: 10904

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLQA-

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	
06053	Benzene	71-43-2	N.D.	0.5	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1
06053	Toluene	108-88-3	N.D.	0.5	1
06053	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
06053	BTEX by 8260B	SW-846 8260B	1	Z100604AA	03/01/2010 22:17	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100604AA	03/01/2010 22:17	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10057C07A	03/02/2010 13:27	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10057C07A	03/02/2010 13:27	Marie D John	1

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Analysis Report

Sample Description: MW-9-W-100222 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-9

LLI Sample # WW 5914435
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010 12:40 by SR

Account Number: 10904

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLM9

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	
06053	Benzene	71-43-2	N.D.	0.5	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1
06053	Toluene	108-88-3	N.D.	0.5	1
06053	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
06053	BTEX by 8260B	SW-846 8260B	1	Z100604AA	03/01/2010 22:43	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100604AA	03/01/2010 22:43	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10057C07A	03/02/2010 17:01	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10057C07A	03/02/2010 17:01	Marie D John	1

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Analysis Report

Sample Description: MW-10-W-100222 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-10

LLI Sample # WW 5914436
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010 13:20 by SR

Account Number: 10904

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLM10

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	
06053	Benzene	71-43-2	9	0.5	1
06053	Ethylbenzene	100-41-4	61	0.5	1
06053	Toluene	108-88-3	2	0.5	1
06053	Xylene (Total)	1330-20-7	10	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,600	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
06053	BTEX by 8260B	SW-846 8260B	1	Z100604AA	03/01/2010 23:08	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100604AA	03/01/2010 23:08	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10057C07A	03/02/2010 23:15	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	10057C07A	03/02/2010 23:15	Marie D John	5

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Analysis Report

Sample Description: MW-11-W-100222 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-11

LLI Sample # WW 5914437
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010 11:25 by SR

Account Number: 10904

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLM11

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	
06053	Benzene	71-43-2	2	0.5	1
06053	Ethylbenzene	100-41-4	5	0.5	1
06053	Toluene	108-88-3	N.D.	0.5	1
06053	Xylene (Total)	1330-20-7	0.9	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	1,400	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
06053	BTEX by 8260B	SW-846 8260B	1	Z100604AA	03/01/2010 23:59	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100604AA	03/01/2010 23:59	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10057C07A	03/02/2010 19:42	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10057C07A	03/02/2010 19:42	Marie D John	1

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Analysis Report

Sample Description: MW-12-W-100222 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-12

LLI Sample # WW 5914438
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010 12:05 by SR

Account Number: 10904

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLM12

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	
06053	Benzene	71-43-2	190	5	10
06053	Ethylbenzene	100-41-4	310	5	10
06053	Toluene	108-88-3	590	5	10
06053	Xylene (Total)	1330-20-7	1,400	5	10
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	14,000	500	10

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
06053	BTEX by 8260B	SW-846 8260B	1	Z100621AA	03/03/2010 15:14	Ginelle L Feister	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100621AA	03/03/2010 15:14	Ginelle L Feister	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10057C07A	03/02/2010 20:08	Marie D John	10
01146	GC VOA Water Prep	SW-846 5030B	1	10057C07A	03/02/2010 20:08	Marie D John	10

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Analysis Report

Sample Description: MW-13-W-100222 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-13

LLI Sample # WW 5914439
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010 10:50 by SR

Account Number: 10904

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLM13

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	
06053	Benzene	71-43-2	630	5	10
06053	Ethylbenzene	100-41-4	22	5	10
06053	Toluene	108-88-3	600	5	10
06053	Xylene (Total)	1330-20-7	960	5	10
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	13,000	500	10

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
06053	BTEX by 8260B	SW-846 8260B	1	Z100621AA	03/03/2010 16:04	Ginelle L Feister	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100621AA	03/03/2010 16:04	Ginelle L Feister	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10060A20A	03/01/2010 17:50	Marie D John	10
01146	GC VOA Water Prep	SW-846 5030B	1	10060A20A	03/01/2010 17:50	Marie D John	10

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Analysis Report

Sample Description: MW-14-W-100222 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-14

LLI Sample # WW 5914440
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010 10:00 by SR

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Account Number: 10904

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLM14

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	
06053	Benzene	71-43-2	3,600	50	100
06053	Ethylbenzene	100-41-4	2,100	50	100
06053	Toluene	108-88-3	7,900	50	100
06053	Xylene (Total)	1330-20-7	9,400	50	100
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	48,000	1,300	25

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
06053	BTEX by 8260B	SW-846 8260B	1	Z100621AA	03/03/2010 16:53	Ginelle L Feister	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100621AA	03/03/2010 16:53	Ginelle L Feister	100
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10060A20A	03/01/2010 18:12	Marie D John	25
01146	GC VOA Water Prep	SW-846 5030B	1	10060A20A	03/01/2010 18:12	Marie D John	25

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Analysis Report

Sample Description: MW-15-W-100222 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-15

LLI Sample # WW 5914441
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010 09:25 by SR

Account Number: 10904

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLM15

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	
06053	Benzene	71-43-2	N.D.	0.5	1
06053	Ethylbenzene	100-41-4	1	0.5	1
06053	Toluene	108-88-3	3	0.5	1
06053	Xylene (Total)	1330-20-7	6	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	66	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
06053	BTEX by 8260B	SW-846 8260B	1	Z100621AA	03/03/2010 17:18	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100621AA	03/03/2010 17:18	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10060A20A	03/01/2010 14:56	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10060A20A	03/01/2010 14:56	Marie D John	1

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Analysis Report

Sample Description: MW-16-W-100222 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-16

LLI Sample # WW 5914442
LLI Group # 1183780
CA

Project Name: 211253

Collected: 02/22/2010 14:05 by SR

Account Number: 10904

Submitted: 02/25/2010 09:10
Reported: 03/04/2010 at 18:59
Discard: 04/04/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SLM16

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	
06053	Benzene	71-43-2	N.D.	0.5	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1
06053	Toluene	108-88-3	N.D.	0.5	1
06053	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
06053	BTEX by 8260B	SW-846 8260B	1	Z100621AA	03/03/2010 17:43	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100621AA	03/03/2010 17:43	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10060A20A	03/01/2010 15:18	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10060A20A	03/01/2010 15:18	Marie D John	1

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 03/04/10 at 06:59 PM

Group Number: 1183780

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: Z100604AA	Sample number(s): 5914434-5914437							
Benzene	N.D.	0.5	ug/l	96		79-120		
Ethylbenzene	N.D.	0.5	ug/l	96		79-120		
Toluene	N.D.	0.5	ug/l	94		79-120		
Xylene (Total)	N.D.	0.5	ug/l	98		80-120		
Batch number: Z100621AA	Sample number(s): 5914438-5914442							
Benzene	N.D.	0.5	ug/l	92		79-120		
Ethylbenzene	N.D.	0.5	ug/l	99		79-120		
Toluene	N.D.	0.5	ug/l	97		79-120		
Xylene (Total)	N.D.	0.5	ug/l	100		80-120		
Batch number: 10057C07A	Sample number(s): 5914434-5914438							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	100	75-135	9	30
Batch number: 10060A20A	Sample number(s): 5914439-5914442							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	109	75-135	9	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: Z100604AA	Sample number(s): 5914434-5914437 UNSPK: P910486								
Benzene	99	99	80-126	0	30				
Ethylbenzene	102	100	71-134	1	30				
Toluene	100	100	80-125	0	30				
Xylene (Total)	102	102	79-125	0	30				
Batch number: Z100621AA	Sample number(s): 5914438-5914442 UNSPK: P914455								
Benzene	99	100	80-126	1	30				
Ethylbenzene	104	105	71-134	1	30				
Toluene	101	102	80-125	1	30				
Xylene (Total)	105	106	79-125	2	30				
Batch number: 10057C07A	Sample number(s): 5914434-5914436 UNSPK: P913362								
TPH-GRO N. CA water C6-C12	83		63-154						
Batch number: 10060A20A	Sample number(s): 5914439-5914442 UNSPK: P914392								
TPH-GRO N. CA water C6-C12	100		63-154						

*- 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
Reported: 03/04/10 at 06:59 PM

Group Number: 1183780

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: BTEX by 8260B
Batch number: Z100604AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5914434	98	95	101	97
5914435	99	94	100	96
5914436	98	93	100	102
5914437	100	94	101	99
Blank	101	96	100	97
LCS	101	97	99	98
MS	100	95	100	99
MSD	101	95	99	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B
Batch number: Z100621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5914438	98	92	100	99
5914439	97	93	101	98
5914440	97	93	101	97
5914441	98	93	100	96
5914442	99	94	101	96
Blank	105	94	98	97
LCS	104	96	98	100
MS	105	93	98	100
MSD	103	95	98	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10057C07A

	Trifluorotoluene-F
5914434	103
5914435	100
5914436	114
5914437	134
5914438	134
Blank	103
LCS	113
LCSD	112
MS	113
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10060A20A

	Trifluorotoluene-F
5914439	121

*- 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
Reported: 03/04/10 at 06:59 PM

Group Number: 1183780

Surrogate Quality Control

5914440	106
5914441	79
5914442	93
Blank	85
LCS	120
LCSD	113
MS	113
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.

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

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

< 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

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

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

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 quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
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 amount 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 for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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