CONESTOGA-ROVERS
& ASSOCIATES

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

October 30, 2009

Reference No. 060058

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

Re: Third Quarter 2009 Groundwater Monitoring and Sampling Report
Former Texaco Service Station 21-1253
930 Springtown Boulevard
Livermore, California
Fuel Leak Case No. RO000189

Dear Mr. Wickham:

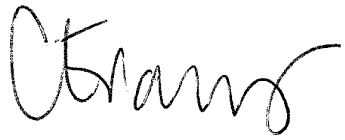
Conestoga-Rovers & Associates is submitting the attached *Groundwater Monitoring and Sampling Report* for the site referenced above on behalf of Chevron Environmental Management Company (Chevron). The report prepared by Gettler-Ryan Inc. (G-R) and dated August 20, 2009 presents the results of the Third Quarter 2009 sampling and monitoring event. Also attached are Figure 1 (Vicinity Map), Figure 2 (Concentration Map) and Figure 3 (Potentiometric Map) presenting the Third Quarter 2009 analytical results and groundwater flow direction data. A perjury letter from Chevron and Professional Geologist stamp are included within the G-R report.

CONESTOGA-ROVERS & ASSOCIATES

Please contact Charlotte Evans at (510) 420-3351 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



Charlotte Evans

IH/doh/5

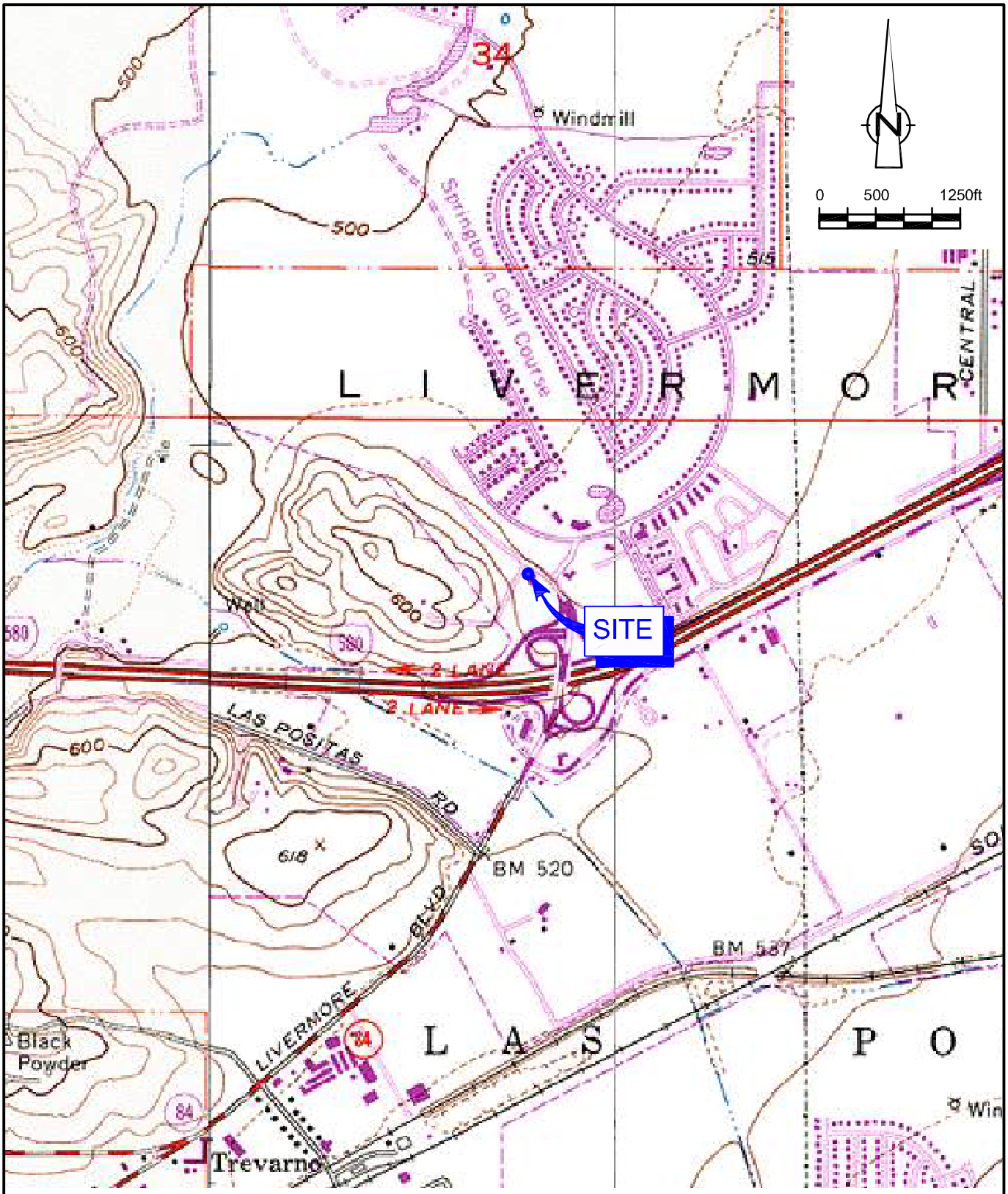
Enc.

Figure 1	Site Vicinity Map
Figure 2	Hydrocarbon Concentrations in Groundwater
Figure 3	Potentiometric Map

Attachment A August 20, 2009 G-R *Groundwater Monitoring and Sampling Repor*t

cc: Mr. Ian Robb, Chevron Environmental Management Company
Mr. Joe Zadik

FIGURES



SOURCE: TOPO! MAPS.

Figure 1

VICINITY MAP
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
Livermore, California

60058-2009(004)GN-WA001 JUL 28/2009

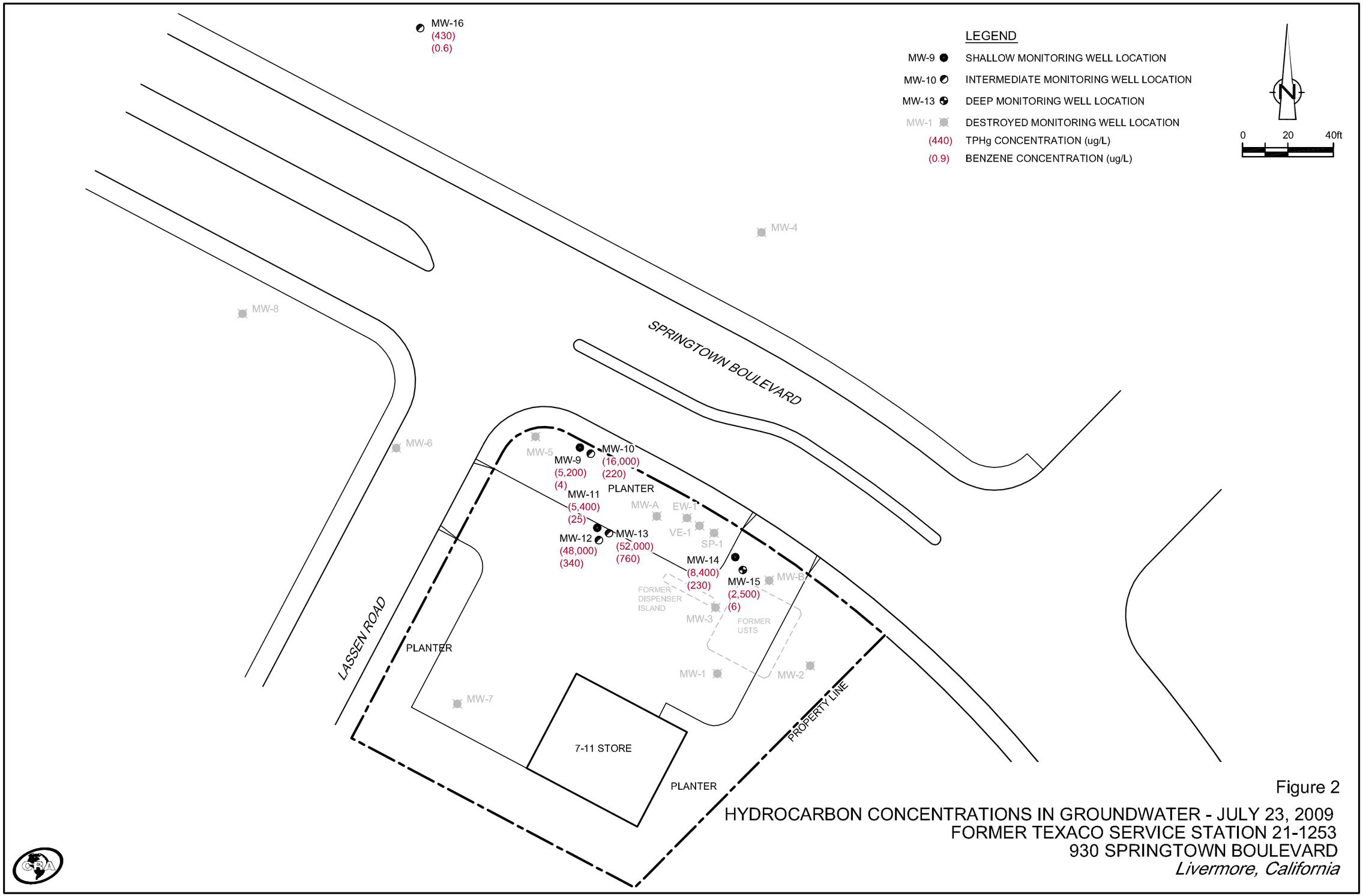


Figure 2

HYDROCARBON CONCENTRATIONS IN GROUNDWATER - JULY 23, 2009
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
Livermore, California

60058-2009(WICK001)GN-WA001 AUG 24/2009

LEGEND

MW-9 ● SHALLOW MONITORING WELL LOCATION

MW-10 ◐ INTERMEDIATE MONITORING WELL LOCATION

MW-13 ◒ DEEP MONITORING WELL LOCATION

MW-1 DESTROYED MONITORING WELL LOCATION

510.10 GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED

(510.14) GROUNDWATER ELEVATION (MSL)

0.002 GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)

N

0 20 40ft

MW-16 (509.87)

509.90

510.00

510.10

510.20

510.30

510.40

510.50

MW-4

MW-8

MW-6

MW-5

MW-9 (510.14)

MW-10 (510.17)

MW-11 (510.20)

MW-12 (510.41)

MW-13 (510.37)

MW-14 (510.48)

MW-15 (510.54)

MW-A

EW-1

VE-1

SP-1

MW-B

MW-3

MW-1

MW-2

MW-7

FORMER DISPENSER ISLAND

FORMER USTS

PLANTER

PLANTER

PLANTER

SPRINGTOWN BOULEVARD

LASSEN ROAD

PROPERTY LINE

7-11 STORE

Figure 3

POTENTIOMETRIC SURFACE MAP - JULY 23, 2009
FORMER TEXACO SERVICE STATION 21-1253
930 SPRINGTOWN BOULEVARD
Livermore, California

60058-2009(WICK001)GN-WA002 AUG 25/2009

ATTACHMENT A

AUGUST 20, 2009 G-R *GROUNDWATER MONITORING AND SAMPLING REPOR*T

GETTLER-RYAN INC.

TRANSMITTAL

August 20, 2009
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	August 19, 2009	Groundwater Monitoring and Sampling Report **Third Quarter Event of July 23, 2009**

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

Ian Robb
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-9496
Fax (925) 842-8370
ianrobb@chevron.com

August 20, 2009

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

RE: Chevron Service Station # 211253

Address 930 Springtown Blvd., Livermore, California

I have reviewed the attached routine groundwater monitoring report dated August 20, 2009.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan Inc., upon whose assistance and advice I have relied.

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

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Ian Robb

Attachment: Report

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #211253
Site Address: 930 Springtown Blvd.
City: Livermore, CA

Job # 385867
Event Date: 7/23/09
Sampler: SR AW

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

Comments

GETTLER-RYAN INC.

August 19, 2009
G-R Job #385867

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

RE: Third Quarter Event of July 23, 2009
Groundwater Monitoring & Sampling Report
Former Texaco Service Station #211253
930 Springtown Boulevard
Livermore, California

Dear Mr. Robb:

This report documents the well development and 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

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

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

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

EXPLANATION

- Groundwater monitoring well (Shallow)
- Groundwater monitoring well (Intermediate)
- Groundwater monitoring well (Deep)
- Destroyed well
- *99.99* Groundwater elevation in feet referenced to Mean Sea Level
- --99.99-- Groundwater elevation contour, dashed where inferred
- *[99.99]* Not used in contouring
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons

MW-16 *[509.87]*

MW-4

MW-8

SPRINGTOWN BOULEVARD

Approximate groundwater flow direction at a gradient of 0.004 Ft./Ft.

MW-6

MW-5 *510.14*

MW-9

510.20

510.30

[510.17]

MW-10

Planter

510.20

MW-11

MW-A

EW-1

SP-1

MW-13

VE-1

510.48

MW-14

MW-12

[510.41^]

[510.37]

Former Dispenser Islands

510.40

MW-15

[510.54]

MW-B

MW-3

Former USTS

MW-1

MW-2

MW-7

7-11

Planter

Approximate Property Line

LASSEN ROAD

BLUEBELL DRIVE

0 40

Scale in Feet

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

FIGURE 1

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

DATE
July 23, 2009

REVISED DATE

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

PROJECT NUMBER
385867

REVIEWED BY

FILE NAME: P:\Enviro\Texaco\211253\009-211253.dwg | Layout Tab: Pot3

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
MW-10 07/23/09[1]	522.76	12.59	510.17	0.00	0.00	16,000	220	440	440	660
MW-11 07/23/09[1]	523.25	13.05	510.20	0.00	0.00	5,400	25	28	62	66
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
MW-13 07/23/09[1]	523.12	12.75	510.37	0.00	0.00	52,000	760	6,200	980	13,000
MW-14 07/23/09[1]	520.88	10.40	510.48	0.00	0.00	8,400	230	460	180	670
MW-15 07/23/09[1]	520.87	10.33	510.54	0.00	0.00	2,500	6	17	16	320
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

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)
QA										
07/23/09	–	–	–	–	–	<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.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

Prior to well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

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

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

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

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

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

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

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7/23/09 (inclusive)
City: Livermore, CA | Sampler: ~~JH~~ SR

Well ID: MW-9 | Date Monitored: 7/23/09
Well Diameter: 4 in.
Initial Total Depth: 14.78 ft.
Final Total Depth: 14.86 ft.
Depth to Water: 13.00 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

1.78 xVF .66 = 1.1 x10 case volume = Estimated Purge Volume: 11 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.35

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): 1050 | Weather Conditions: Sunny
Sample Time/Date: 1135 / 7/23/09 | Water Color: gray | Odor: Y (N)
Approx. Flow Rate: — gpm. | Sediment Description: silty
Did well de-water? N | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 13.09

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1053	1	7.41	986	22.2		
1056	2	7.35	980	22.3		
1059	3	7.32	979	22.5		
1102	4	7.36	977	21.9		
1105	5	7.30	975	22.0		
1108	6	7.29	976	22.2		
1111	7	7.34	971	22.4		
1114	8	7.27	973	22.1		
1117	9	7.23	970	22.0		
1122	11	7.22	974	22.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)

COMMENTS: new well developed & sampled

Add/Replaced Lock: X | Add/Replaced Plug: X (4") | Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7/23/09 (inclusive)
City: Livermore, CA | Sampler: SR

Well ID: MW-10 | Date Monitored: 7/23/09
Well Diameter: 4 in.
Initial Total Depth: 26.16 ft.
Final Total Depth: 26.29 ft.
Depth to Water: 12.59 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

13.57 xVF .66 = 8.9 x10 case volume = Estimated Purge Volume: 89 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.30

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): 1305 | Weather Conditions: sunny
Sample Time/Date: 1355 7/23/09 | Water Color: lt. brown Odor Y / N weak
Approx. Flow Rate: ≈3 gpm. | Sediment Description: cloudy
Did well de-water? N If yes, Time: ——— Volume: ——— gal. DTW @ Sampling: 13.12

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1308	9	7.16	985	22.8		
1311	18	7.14	940	22.9		
1314	27	7.10	935	22.9		
1317	36	7.12	928	23.0		
1320	45	7.09	922	23.2		
1323	54	7.11	917	23.1		
1326	63	7.06	931	22.8		
1329	72	7.00	939	22.9		
1332	81	6.98	944	22.5		
1334.5	89	6.91	940	22.5		

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: new well developed & sampled

Add/Replaced Lock: X Add/Replaced Plug: X (4") Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7/23/09 (inclusive)
City: Livermore, CA | Sampler: SR

Well ID: MW-11 | Date Monitored: 7/23/09
Well Diameter: 4 in.
Initial Total Depth: 14.68 ft.
Final Total Depth: 14.79 ft.
Depth to Water: 13.09 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

1.63 xVF .66 = 1.0 x10 case volume = Estimated Purge Volume: 10 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.37

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): 0850 | Weather Conditions: Sunny
Sample Time/Date: 0935 / 7/23/09 | Water Color: gray | Odor: Y (N)
Approx. Flow Rate: — gpm. | Sediment Description: cloudy
Did well de-water? N | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 13.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0853	1	7.73	1014	18.7		
0856	2	7.69	1055	19.1		
0859	3	7.62	1020	19.6		
[redacted] 0902	4	7.54	1009	20.0		
[redacted] 0905	5	7.47	1001	20.2		
0908	6	7.43	996	20.4		
0911	7	7.40	987	20.5		
0914	8	7.37	991	20.8		
0917	9	7.38	994	20.7		
0920	10	7.36	989	20.8		

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: New well developed & sampled

Add/Replaced Lock: X | Add/Replaced Plug: X (4") | Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7/23/09 (inclusive)
City: Livermore, CA | Sampler: SR

Well ID: MW-12 | Date Monitored: 7/23/09
Well Diameter: 4 in.
Initial Total Depth: 26.67 ft.
Final Total Depth: 26.71 ft.
Depth to Water: 13.03 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

13.64 xVF .66 = 9.0 x10 case volume = Estimated Purge Volume: 90 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.75

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer ✓
Stack Pump ✓
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other: 3 absorbent pads

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

Time Started: 1010 (2400 hrs)
Time Completed: 1025 (2400 hrs)
Depth to Product: 13.01 ft
Depth to Water: 13.03 ft
Hydrocarbon Thickness: .02 ft
Visual Confirmation/Description: clear/oily
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: 50mL
Water Removed: 5 gal
Product Transferred to: 5gr yard

Start Time (purge): 1410
Sample Time/Date: 1515 / 7/23/09
Approx. Flow Rate: ≈3 gpm.
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 13.18

Weather Conditions: sunny
Water Color: lt. grey Odor: (Y) / N strong
Sediment Description: cloudy

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C) F	D.O. (mg/L)	ORP (mV)
1413	9	7.01	951	24.4		
1416	18	6.96	956	24.2		
1419	27	6.92	958	24.1		
1422	36	6.94	964	24.3		
1425	45	6.89	970	24.4		
1428	54	6.84	979	24.4		
1431	63	6.82	990	24.2		
1434	72	6.85	981	24.2		
1437	81	6.80	986	24.4		
1440	90	6.81	984	24.4		

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: 5 gallons of water was hand-bailed to attempt to remove product, after 2 hours the well was re-gauged & no product was found so the well was then developed & sampled, new well

Add/Replaced Lock: X Add/Replaced Plug: X (4") Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7/23/09 (inclusive)
City: Livermore, CA | Sampler: SR

Well ID: MW-13 | Date Monitored: 7/23/09
Well Diameter: 4 in.
Initial Total Depth: 36.67 ft.
Final Total Depth: 36.75 ft.
Depth to Water: 12.75 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

23.92 xVF .66 = 15.7 x10 case volume = Estimated Purge Volume: 157 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.53

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): 0950 | Weather Conditions: Sunny
Sample Time/Date: 1245 7/23/09 | Water Color: lt. brown Odor (Y) / N Moderate
Approx. Flow Rate: ≈3 gpm. | Sediment Description: cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 13.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)
0955	15	7.72	912	21.7		
1000	30	7.63	925	22.0		
1150	45	7.48	923	22.3		
1155	60	7.41	921	22.5		
1200	75	7.38	931	22.5		
1205	90	7.31	940	22.3		
1210	105	7.29	942	22.7		
1215	120	7.24	948	22.6		
1220	135	7.18	946	22.5		
1227.5	157	7.20	950	22.6		

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: Had to stop after 2 case volumes b/c I was having battery problems & was unable to pump, a new battery was brought & pumping continued at 1145 new well developed & sampled

Add/Replaced Lock: X | Add/Replaced Plug: X (4") | Add/Replaced Bolt: —

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7/23/09 (inclusive)
City: Livermore, CA | Sampler: SR

Well ID: MW-14 | Date Monitored: 7/23/09
Well Diameter: 4 in.
Initial Total Depth: 14.42 ft.
Final Total Depth: 14.49 ft.
Depth to Water: 10.70 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

4.02 xVF .66 = 2.6 x10 case volume = Estimated Purge Volume: 26 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.20

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): 0740 | Weather Conditions: cloudy
Sample Time/Date: 0825 / 7/23/09 | Water Color: H. gray | Odor: (Y) / N weak
Approx. Flow Rate: ≈ 1 gpm. | Sediment Description: cloudy
Did well de-water? N | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 10.46

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C F)	D.O. (mg/L)	ORP (mV)
0743	3	7.02	1058	18.1		
0746	6	7.20	1104	18.8		
0749	9	7.45	1114	19.2		
0752	12	7.51	1120	19.4		
0755	15	7.56	1125	19.6		
0758	18	7.60	1119	20.2		
0800	20	7.62	1127	20.3		
0802	22	7.61	1131	20.4		
0804	24	7.65	1134	20.4		
0806	26	7.60	1130	20.3		

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: new well developed & sampled

Add/Replaced Lock: X | Add/Replaced Plug: X (4") | Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7/23/09 (inclusive)
City: Livermore, CA | Sampler: SR

Well ID: MW-15 | Date Monitored: 7/23/09
Well Diameter: 4 in.
Initial Total Depth: 45.40 ft.
Final Total Depth: 45.94 ft.
Depth to Water: 10.33 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

35.07 xVF .66 = 23.1 x10 case volume = Estimated Purge Volume: 231 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ~~28.44~~ 17.74

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): 1355 | Weather Conditions: Sunny
Sample Time/Date: 1555 / 7-23-09 | Water Color: Clear | Odor: Y / (N)
Approx. Flow Rate: 2-3 gpm. | Sediment Description: Clear
Did well de-water? N | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 15.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1406	23	8.35	1592	21.6		
1417	46	8.28	1620	20.7		
1428	69	8.25	1633	20.7		
1439	92	8.24	1619	20.4		
1450	115	8.24	1634	20.4		
1501	138	8.20	1636	20.3		
1512	161	8.21	1637	20.2		
1523	184	8.21	1637	20.2		
1534	207	8.20	1636	20.3		
1545	231	8.20	1637	20.3		

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: New well, developed & sampled. Barco 12"/2 - OK

Add/Replaced Lock: N | Add/Replaced Plug: X (4") | Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #211253 | Job Number: 385867
Site Address: 930 Springtown Blvd. | Event Date: 7-23-09 (inclusive)
City: Livermore, CA | Sampler: AW

Well ID: MW-16 | Date Monitored: 7-23-09
Well Diameter: 4 in.
Initial Total Depth: 29.19 ft.
Final Total Depth: ~~29.20~~ 29.20 ft.
Depth to Water: 10.63 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

18.56 xVF .66 = 12.25 x10 case volume = Estimated Purge Volume: 122.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.34

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): 1220 | Weather Conditions: Sunny
Sample Time/Date: 1335 / 7-23-09 | Water Color: Clear | Odor: Y / N moderate
Approx. Flow Rate: 20 gpm. | Sediment Description: Clear
Did well de-water? N | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 10.75

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1226	12.0	8.19	1362	22.7		
1232	24.0	8.21	1373	22.0		
1238	36.0	8.22	1386	21.6		
1244	48.0	8.22	1391	21.3		
1250	60.0	8.22	1396	21.0		
1256	72.0	8.23	1390	21.1		
1302	84.0	8.23	1392	21.2		
1308	96.0	8.23	1387	21.2		
1314	104.0	8.23	1389	21.2		
1320	122.5	8.22	1398	20.9		

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: New well development & Sample.
Bentonite/12"/2 sack grout 48'

Add/Replaced Lock: X | Add/Replaced Plug: X (4") | Add/Replaced Bolt:

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

072409-03

For Lancaster Laboratories use only
Acct. #: 10904 Sample # 5732923-31 Group #: 017593

G# 1154946

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, Alexe Wong

Sample Identification	Date Collected	Time Collected	Matrix: Grab	Composite	Soil	Water	Oil	Air	Potable	NPDES	Total Number of Containers	BTEX + 8260	8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method
QA	7/23/09		X			X					2	X		X								
MW-9		1135	X			X					6	X		X								
MW-10		1355	X			X					6	X		X								
MW-11		0935	X			X					6	X		X								
MW-12		1515	X			X					6	X		X								
MW-13		1245	X			X					6	X		X								
MW-14		0825	X			X					6	X		X								
MW-15		1555	X			X					6	X		X								
MW-16		1335	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:		7/24/09	0930	Received by:		
Relinquished by:		7/24/09	1225	Received by:		
Relinquished by:		7/24/09	1515	Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other				Received by:	7/25/09	0930
Temperature Upon Receipt ____ 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

August 07, 2009

SAMPLE GROUP

The sample group for this submittal is 1154946. Samples arrived at the laboratory on Saturday, July 25, 2009. The PO# for this group is 0015039978 and the release number is ROBB.

Client Description	Lancaster Labs Number
QA-T-090723 NA Water	5732923
MW-9-W-090723 Grab Water	5732924
MW-10-W-090723 Grab Water	5732925
MW-11-W-090723 Grab Water	5732926
MW-12-W-090723 Grab Water	5732927
MW-13-W-090723 Grab Water	5732928
MW-14-W-090723 Grab Water	5732929
MW-15-W-090723 Grab Water	5732930
MW-16-W-090723 Grab Water	5732931

METHODOLOGY

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
ELECTRONIC COPY TO	CRA	Attn: Charlotte Evans

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Analysis Report

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

Respectfully Submitted,

Tracy A. Cole

Tracy A. Cole
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5732923

Group No. 1154946
CA

QA-T-090723 NA Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 QA

Collected: 07/23/2009

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBLQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detaction Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		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
SW-846 8015B	**GC Volatiles**		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	F092112AA	07/30/2009 12:55	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F092112AA	07/30/2009 12:55	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A08A	07/28/2009 12:57	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09209A08A	07/28/2009 12:57	Fanella S Zamcho	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5732924

Group No. 1154946
CA

MW-9-W-090723 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-9

Collected: 07/23/2009 11:35 by SR

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		ug/l	ug/l	
06053	Benzene	71-43-2	4	0.5	1
06053	Ethylbenzene	100-41-4	310	5	10
06053	Toluene	108-88-3	5	0.5	1
06053	Xylene (Total)	1330-20-7	100	0.5	1
SW-846 8015B	**GC Volatiles**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,200	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	F092151AA	08/03/2009 23:32	Kelly E Brickley	1
06053	BTEX by 8260B	SW-846 8260B	1	P092163AA	08/05/2009 07:58	Kelly E Brickley	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F092151AA	08/03/2009 23:32	Kelly E Brickley	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	P092163AA	08/05/2009 07:58	Kelly E Brickley	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A08A	07/28/2009 23:22	Panella S Zamcho	5
01146	GC VOA Water Prep	SW-846 5030B	1	09209A08A	07/28/2009 23:22	Panella S Zamcho	5

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5732925

Group No. 1154946
CA

MW-10-W-090723 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-10

Collected: 07/23/2009 13:55 by SR

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		ug/l	ug/l	
06053	Benzene	71-43-2	220	5	10
06053	Ethylbenzene	100-41-4	440	5	10
06053	Toluene	108-88-3	440	5	10
06053	Xylene (Total)	1330-20-7	660	5	10
SW-846 8015B	**GC Volatiles**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	16,000	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	F092151AA	08/04/2009 00:15	Kelly E Brickley	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F092151AA	08/04/2009 00:15	Kelly E Brickley	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A08A	07/28/2009 23:46	Fanella S Zamcho	10
01146	GC VOA Water Prep	SW-846 5030B	1	09209A08A	07/28/2009 23:46	Fanella S Zamcho	10

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Analysis Report

Lancaster Laboratories Sample No. WW 5732926

Group No. 1154946
CA

MW-11-W-090723 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-11

Collected: 07/23/2009 09:35 by SR

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		ug/l	ug/l	
06053	Benzene	71-43-2	25	0.5	1
06053	Ethylbenzene	100-41-4	62	0.5	1
06053	Toluene	108-88-3	28	0.5	1
06053	Xylene (Total)	1330-20-7	66	0.5	1
SW-846 8015B	**GC Volatiles**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,400	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	D092113AA	07/31/2009 03:15	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092113AA	07/31/2009 03:15	Michael A Ziegler	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A07A	07/30/2009 00:44	Fanella S Zamcho	5
01146	GC VOA Water Prep	SW-846 5030B	1	09209A07A	07/30/2009 00:44	Fanella S Zamcho	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5732927

Group No. 1154946
CA

MW-12-W-090723 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-12

Collected: 07/23/2009 15:15 by SR

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06053	Benzene	71-43-2	340	1	2
06053	Ethylbenzene	100-41-4	1,300	10	20
06053	Toluene	108-88-3	3,100	10	20
06053	Xylene (Total)	1330-20-7	7,600	100	200
SW-846 8015B	**GC Volatiles**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	48,000	1,000	20

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	D092113AA	07/31/2009 04:04	Michael A Ziegler	2
06053	BTEX by 8260B	SW-846 8260B	1	D092113AA	07/31/2009 04:29	Michael A Ziegler	20
06053	BTEX by 8260B	SW-846 8260B	1	Z092164AA	08/05/2009 01:17	Holly Berry	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092113AA	07/31/2009 04:04	Michael A Ziegler	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D092113AA	07/31/2009 04:29	Michael A Ziegler	20
01163	GC/MS VOA Water Prep	SW-846 5030B	3	Z092164AA	08/05/2009 01:17	Holly Berry	200
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A07A	07/30/2009 01:37	Fanella S Zamcho	20
01146	GC VOA Water Prep	SW-846 5030B	1	09209A07A	07/30/2009 01:37	Fanella S Zamcho	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5732928

Group No. 1154946
CA

MW-13-W-090723 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-13

Collected: 07/23/2009 12:45 by SR

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06053	Benzene	71-43-2	760	3	5
06053	Ethylbenzene	100-41-4	980	3	5
06053	Toluene	108-88-3	6,200	130	250
06053	Xylene (Total)	1330-20-7	13,000	13	25
SW-846 8015B	**GC Volatiles**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	52,000	1,000	20

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	D092113AA	07/31/2009 04:53	Michael A Ziegler	5
06053	BTEX by 8260B	SW-846 8260B	1	D092113AA	07/31/2009 05:18	Michael A Ziegler	25
06053	BTEX by 8260B	SW-846 8260B	1	Z092164AA	08/05/2009 01:42	Holly Berry	250
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092113AA	07/31/2009 04:53	Michael A Ziegler	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D092113AA	07/31/2009 05:18	Michael A Ziegler	25
01163	GC/MS VOA Water Prep	SW-846 5030B	3	Z092164AA	08/05/2009 01:42	Holly Berry	250
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A07A	07/30/2009 02:05	Fanella S Zamcho	20
01146	GC VOA Water Prep	SW-846 5030B	1	09209A07A	07/30/2009 02:05	Fanella S Zamcho	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5732929

Group No. 1154946
CA

MW-14-W-090723 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-14

Collected: 07/23/2009 08:25 by SR

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		ug/l	ug/l	
06053	Benzene	71-43-2	230	5	10
06053	Ethylbenzene	100-41-4	180	5	10
06053	Toluene	108-88-3	460	5	10
06053	Xylene (Total)	1330-20-7	670	5	10
SW-846 8015B	**GC Volatiles**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	8,400	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	Z092164AA	08/05/2009 02:07	Holly Berry	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z092164AA	08/05/2009 02:07	Holly Berry	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A07A	07/30/2009 01:11	Fanella S Zamcho	5
01146	GC VOA Water Prep	SW-846 5030B	1	09209A07A	07/30/2009 01:11	Fanella S Zamcho	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5732930

Group No. 1154946
CA

MW-15-W-090723 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-15

Collected: 07/23/2009 15:55 by SR

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		ug/l	ug/l	
06053	Benzene	71-43-2	6	0.5	1
06053	Ethylbenzene	100-41-4	16	0.5	1
06053	Toluene	108-88-3	17	0.5	1
06053	Xylene (Total)	1330-20-7	320	0.5	1
SW-846 8015B	**GC Volatiles**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,500	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	D092113AA	07/31/2009 06:08	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092113AA	07/31/2009 06:08	Michael A Ziegler	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A07A	07/30/2009 00:16	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09209A07A	07/30/2009 00:16	Fanella S Zamcho	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5732931

Group No. 1154946
CA

MW-16-W-090723 Grab Water
Facility# 211253 Job# 385867 GRD
930 Springtown-Livermore T0600101353 MW-16

Collected: 07/23/2009 13:35 by SR

Account Number: 10904

Submitted: 07/25/2009 09:30
Reported: 08/07/2009 at 15:19
Discard: 09/07/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SBL16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06053	Benzene	71-43-2	0.6	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
SW-846 8015B	**GC Volatiles**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	430	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	D092113AA	07/30/2009 21:31	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092113AA	07/30/2009 21:31	Michael A Ziegler	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09209A07A	07/29/2009 14:41	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09209A07A	07/29/2009 14:41	Fanella S Zamcho	1

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 08/07/09 at 03:19 PM

Group Number: 1154946

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: D092113AA	Sample number(s): 5732926-5732928,5732930-5732931							
Benzene	N.D.	0.5	ug/l	110		80-116		
Ethylbenzene	N.D.	0.5	ug/l	107		80-113		
Toluene	N.D.	0.5	ug/l	109		80-115		
Xylene (Total)	N.D.	0.5	ug/l	109		81-114		
Batch number: F092112AA	Sample number(s): 5732923							
Benzene	N.D.	0.5	ug/l	96		80-116		
Ethylbenzene	N.D.	0.5	ug/l	95		80-113		
Toluene	N.D.	0.5	ug/l	97		80-115		
Xylene (Total)	N.D.	0.5	ug/l	96		81-114		
Batch number: F092151AA	Sample number(s): 5732924-5732925							
Benzene	N.D.	0.5	ug/l	93	93	80-116	1	30
Ethylbenzene	N.D.	0.5	ug/l	95	94	80-113	1	30
Toluene	N.D.	0.5	ug/l	93	92	80-115	0	30
Xylene (Total)	N.D.	0.5	ug/l	94	94	81-114	1	30
Batch number: P092163AA	Sample number(s): 5732924							
Ethylbenzene	N.D.	0.5	ug/l	93		80-113		
Batch number: Z092164AA	Sample number(s): 5732927-5732929							
Benzene	N.D.	0.5	ug/l	95	95	80-116	0	30
Ethylbenzene	N.D.	0.5	ug/l	95	95	80-113	0	30
Toluene	N.D.	0.5	ug/l	96	95	80-115	1	30
Xylene (Total)	N.D.	0.5	ug/l	95	96	81-114	1	30
Batch number: 09209A07A	Sample number(s): 5732926-5732931							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30
Batch number: 09209A08A	Sample number(s): 5732923-5732925							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	118	109	75-135	8	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: D092113AA	Sample number(s): 5732926-5732928,5732930-5732931 UNSPK: 5732931								
Benzene	110	102	80-126	7	30				
Ethylbenzene	105	102	77-125	3	30				

*- 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: 08/07/09 at 03:19 PM

Group Number: 1154946

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
Toluene	108	103	80-125	5	30				
Xylene (Total)	108	103	79-125	5	30				
Batch number: F092112AA	Sample number(s): 5732923 UNSPK: P731947								
Benzene	102	101	80-126	2	30				
Ethylbenzene	103	101	77-125	3	30				
Toluene	102	102	80-125	1	30				
Xylene (Total)	103	100	79-125	2	30				
Batch number: F092151AA	Sample number(s): 5732924-5732925 UNSPK: P734224								
Benzene	94		80-126						
Ethylbenzene	95		77-125						
Toluene	94		80-125						
Xylene (Total)	95		79-125						
Batch number: P092163AA	Sample number(s): 5732924 UNSPK: P737079								
Ethylbenzene	105	105	77-125	1	30				
Batch number: Z092164AA	Sample number(s): 5732927-5732929 UNSPK: P737323								
Benzene	103		80-126						
Ethylbenzene	101		77-125						
Toluene	100		80-125						
Xylene (Total)	101		79-125						
Batch number: 09209A07A	Sample number(s): 5732926-5732931 UNSPK: P732941								
TPH-GRO N. CA water C6-C12	77		63-154						
Batch number: 09209A08A	Sample number(s): 5732923-5732925 UNSPK: P731947								
TPH-GRO N. CA water C6-C12	110	83	63-154	19	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: BTEX by 8260B
Batch number: D092113AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5732926	105	102	98	110
5732927	105	103	95	113
5732928	107	103	97	109
5732930	105	101	97	100
5732931	106	101	99	103
Blank	108	105	97	99
LCS	108	102	99	104
MS	106	105	99	104
MSD	107	104	100	105
Limits:	80-116	77-113	80-113	78-113

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

Quality Control Summary

Client Name: Chevron
Reported: 08/07/09 at 03:19 PM

Group Number: 1154946

Surrogate Quality Control

Analysis Name: BTEX by 8260B
Batch number: F092112AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5732923	80	84	91	96
Blank	88	91	94	100
LCS	89	90	90	101
MS	90	92	89	101
MSD	89	88	87	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B
Batch number: F092151AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5732924	90	92	91	102
5732925	91	90	93	101
Blank	94	94	92	101
LCS	94	95	92	101
LCSD	95	94	91	102
MS	94	94	91	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B
Batch number: P092163AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	85	90	86	84
LCS	84	92	86	85
MS	84	91	87	85
MSD	85	90	86	86
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B
Batch number: Z092164AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5732929	109	105	110	99
Blank	109	105	110	96
LCS	108	105	108	98
LCSD	110	105	109	99
MS	111	106	108	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09209A07A

	Trifluorotoluene-F
5732926	122
5732927	132
5732928	124
5732929	124
5732930	113

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

Quality Control Summary

Client Name: Chevron
Reported: 08/07/09 at 03:19 PM

Group Number: 1154946

Surrogate Quality Control

5732931	116
Blank	100
LCS	113
LCSD	112
MS	106
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09209A08A
Trifluorotoluene-F

5732923	103
5732924	112
5732925	125
Blank	104
LCS	110
LCSD	109
MS	113
MSD	111
Limits:	63-135

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

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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