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10:14 am, Oct 22, 2010

Alameda County Environmental Health **Eric Frohnapple**, **P.E.** Project Manager Marketing Business Unit Chevron Environmental Management Company 6111 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 543-5336 Fax (925) 543-2324 ericf@chevron.com

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

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

I accept the Third Quarter 2010 Groundwater Monitoring Report dated October 21, 2010.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This **Third Quarter 2010 Groundwater Monitoring Report** was prepared by Conestoga Rovers & Associates, upon whose assistance and advice I have relied.

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

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

Sincerely,

Eric Inchapple

Eric Frohnapple, P.E. Project Manager

Attachment: Third Quarter 2010 Groundwater Monitoring Report



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

Fax: (510) 420-9170

October 21, 2010

Reference No. 312264

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

Re: Third Quarter 2010 Groundwater Monitoring Report Former Texaco Service Station 30-7233 2259 First Street Livermore, California ACEH Case #RO2908

Dear Mr. Jerry Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Third 2010 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc. (G-R) of Dublin, California. G-R's September 17, 2010 *Groundwater Monitoring and Sampling Data Package* is presented as Attachment A. Historical and current groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' September 27, 2010 *Analytical Results* are included as Attachment B.

> Equal Employment Opportunity Employer



October 21, 2010

Reference No. 312264

- 2 -

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

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Branch Atville

Brandon S. Wilken, PG 7564

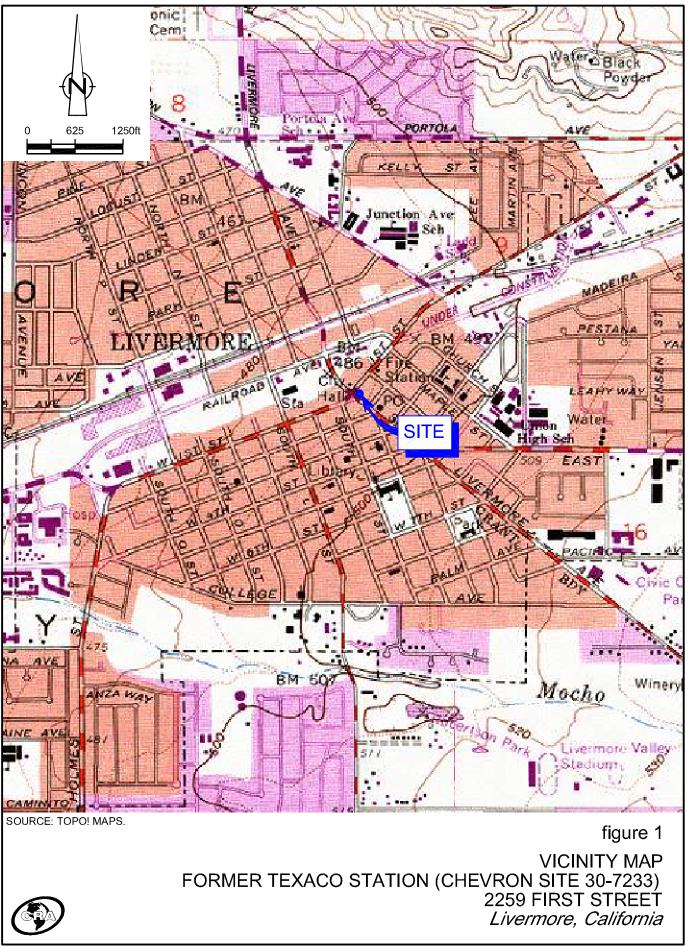


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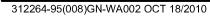
Kiersten Hoey

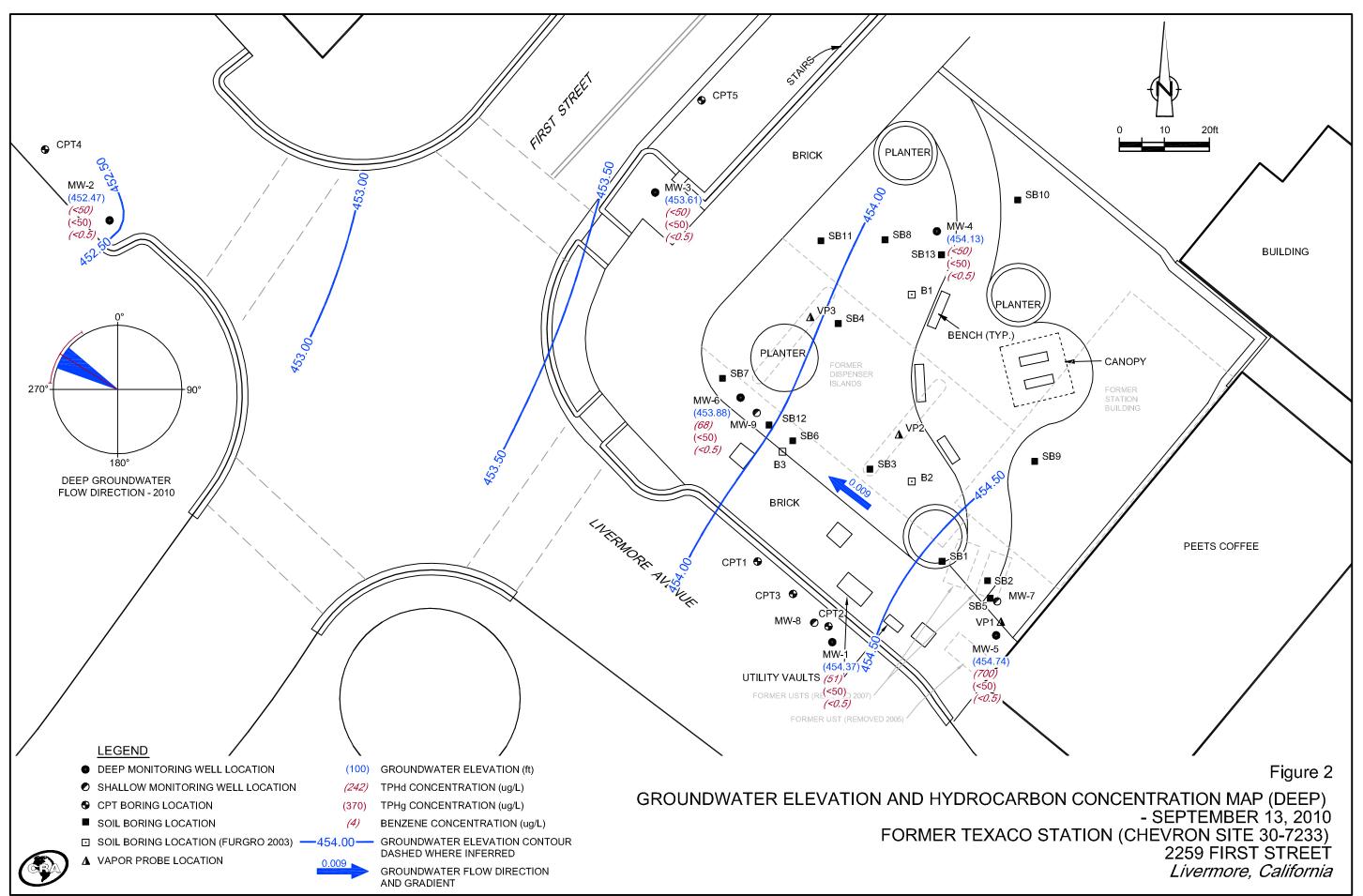
Figure 1 Figure 2 Figure 3	Vicinity Map Groundwater Elevation and Hydrocarbon Concentration Map (Deep) – September 13, 2010 Groundwater Elevation and Hydrocarbon Concentration Map (Shallow) – September 13, 2010
Table 1	Groundwater Monitoring and Sampling Data
Attachment A Attachment B	Monitoring Data Package Laboratory Analytical Report

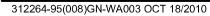
cc: Mr. Eric Frohnapple, Chevron Mr. Eric Uranaga, City of Livermore Economic Development FIGURES

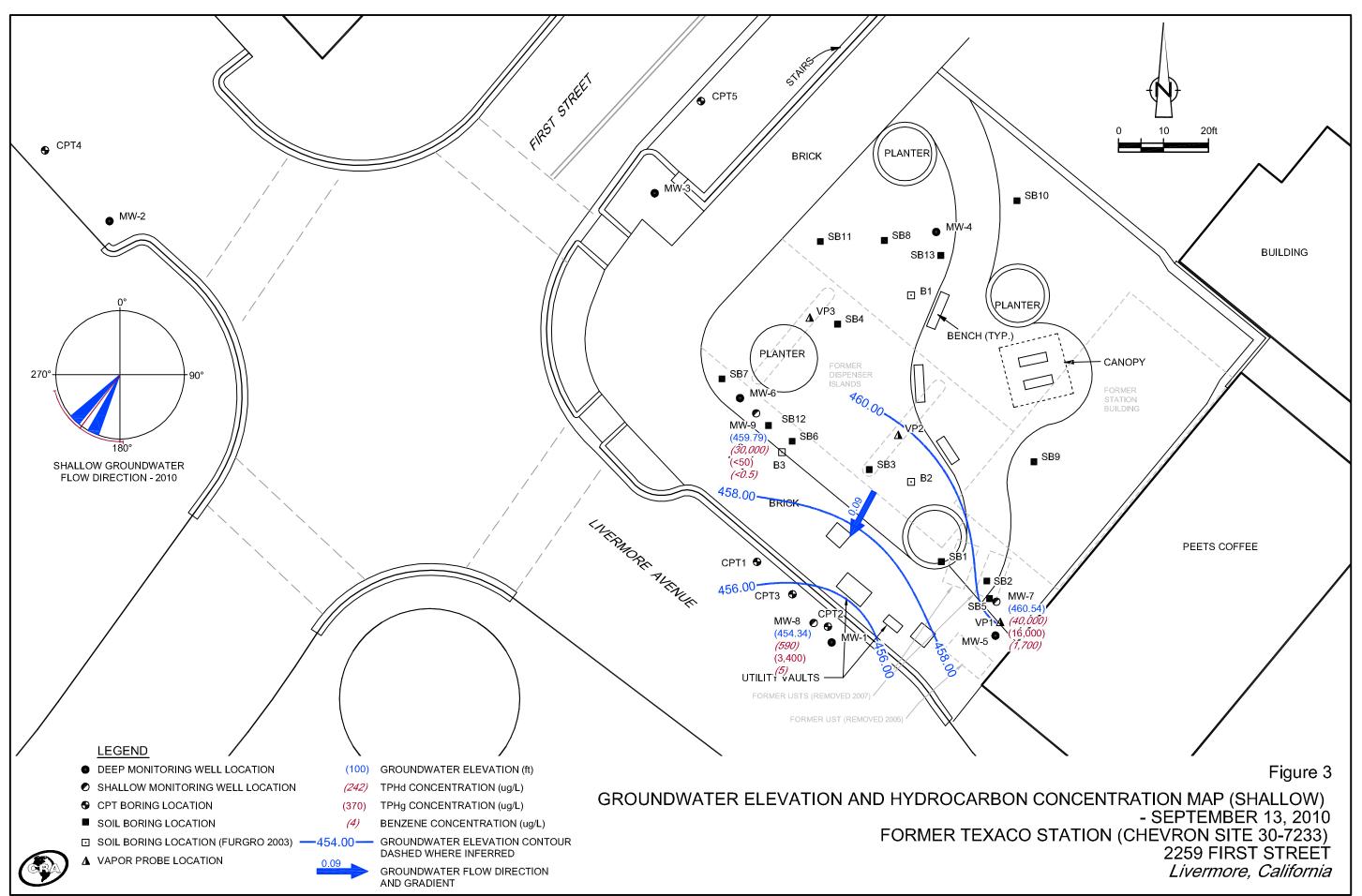


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TABLE

# TABLE 1 GROUNDWATER MONITORING AND SAMPLING DATA FORMER CHEVRON SERVICE STATION 30-7233 2259 FIRST STREET, LIVERMORE, CALIFORNIA

					HYDROC	ARBONS	P	PRIMARY VOCS			
Location	Date	тос	DTW	GWE	IPH-DRO	IPH-GRO	В	Т	Е	X	
	Units	ft	ft	ft-amsl	μg/L	μg/L	µg∕L	µg∕L	µg∕L	µg∕L	
	1										
MW-1	05/25/2010 <sup>1</sup>	490.86	30.62	460.24							
	05/27/2010	490.86	30.65	460.21	<50	<50	<0.5	<0.5	<0.5	<0.5	
	09/13/2010	490.86	36.49	454.37	51	<50	<0.5	<0.5	<0.5	<0.5	
MW-2	05/25/2010 <sup>1</sup>	489.43	31.18	458.25							
	05/27/2010	489.43	31.11	458.32	<50	<50	<0.5	<0.5	<0.5	<0.5	
	09/13/2010	489.43	36.96	452.47	<50	<50	<0.5	<0.5	<0.5	<0.5	
MW-3	05/25/2010 <sup>1</sup>	490.38	30.17	460.21							
	05/27/2010	490.38	30.98	459.40	610	2,100	2	<0.5	<0.5	0.9	
	09/13/2010	490.38	36.77	453.61	<50	<50	<0.5	<0.5	<0.5	<0.5	
	a <b>- /a- /a</b> aka1										
MW-4	05/25/2010 <sup>1</sup>	492.27	32.21	460.06							
	05/27/2010	492.27	32.26	460.01	230	1,800	1	<0.5	<0.5	0.7	
	09/13/2010	492.27	38.14	454.13	<50	<50	<0.5	<0.5	<0.5	<0.5	
MW-5	05/25/2010 <sup>1</sup>	491.99	31.39	460.60							
	05/27/2010	491.99	31.42	460.57	120	420	2	<0.5	<0.5	1	
	09/13/2010	491.99	37.25	454.74	700	<50	<0.5	<0.5	<0.5	<0.5	
MW-6	05/25/2010 <sup>1</sup>	491.52	31.63	459.89							
	05/27/2010	491.52	31.79	459.73	1,000	3,700	4	<0.5	<0.5	1	
	09/13/2010	491.52	37.64	453.88	68	<50	<0.5	<0.5	<0.5	<0.5	
MW-7	05/25/2010 <sup>1</sup>	492.29	28.69	463.60							
10100-7	05/27/2010	492.29	28.61	463.68	 2,800	 14,000	 1,800	 35	 320	 660	
	09/13/2010	492.29	31.75	460.54	40,000	16,000	1,700	33	460	600	
	03/20/2020	1,11,1	0100	100001	10,000	20,000	1,700	00	100		
MW-8	05/25/2010 <sup>1</sup>	490.89	30.62	460.27							
	05/27/2010	490.89	30.78	460.11	750	3,100	36	3	<0.5	2	
	09/13/2010	490.89	36.55	454.34	590	3,400	5	2	<0.5	1	
	-										
MW-9	05/25/2010 <sup>1</sup>	491.64	29.23	462.41							
	05/27/2010	491.64	28.96	462.68	<50	<50	<0.5	<0.5	<0.5	<0.5	
	09/13/2010	491.64	31.85	459.79	30,000	<50	<0.5	<0.5	<0.5	<0.5	

# TABLE 1 GROUNDWATER MONITORING AND SAMPLING DATA FORMER CHEVRON SERVICE STATION 30-7233 2259 FIRST STREET, LIVERMORE, CALIFORNIA

					HYDROC	ARBONS	PRIMARY VOCS			
Location	Date	тос	DTW	GWE	TPH-DRO	OH-GRO	В	Т	Ε	X
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg∕L	µg∕L	µg∕L	µg∕L
QA	05/27/2010 09/13/2010		 -			<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5

## Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Product

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

 $\mu$ g/L = Micrograms per Liter

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

1

-- = Not available / not applicable

< x = Not detected above laboratory method detection limit

Well development performed.

# ATTACHMENT A

# MONITORING DATA PACKAGE



# TRANSMITTAL

September 17, 2010 G-R #385876

- TO: Ms. Kiersten Hoey Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608
- FROM: Deanna L. Harding Project Coordinator Gettler-Ryan Inc. 6747 Sierra Court, Suite J Dublin, California 94568

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

# WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
VIA PDF		Groundwater Monitoring and Sampling Data Package <b>Third Quarter Event of September 13, 2010</b>

# COMMENTS:

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

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

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

# WELL CONDITION STATUS SHEET

Client/Facility #:		n #307233					Job #:	3858	876					
Site Address:	2259 Fir	st Street				•	Event Date:				9	listio	2	_
City:	Livermo	ore, CA					Sampler:					1.5/1.0 3/1		_
WELL ID	Vauit Frame Condition	Gasket/ O-Ring (M)mlssing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	<b>Grout Seal</b> (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPL LOC Y/	ж	REPLA CAP Y / N	CE	WELL VAU Manufacture/Size/		Pictures Taken Yes / No
MW-2	ok-							L	イ	J.	7	12"emes	2	N
MW-1	ok						>	1		-+		1	1	4
MW-8	ok						4		+					
MW-S	ok						2		-+					+ +
MWJ	ok						9		_			6" MORRISUL	2	
mw-6	ok										1	]		
Mw-4	ok						->			-				
MW-7	olc									-				
mw-9	uk							1	1	1	オ			
										V	1		<b>v</b>	
											1			
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Comments	<u> </u>		·	·									<u> </u>	L]

# 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.

N;\California\forms\chevron-SOP-Sept. 2009



Client/Facility#:	Chevron #307233	Job Number:	385876			
Site Address:	2259 First Street	Event Date:	9/13/10	 (inclusive)		
City:	Livermore, CA	Sampler:	317	_ (		
Well ID	MW- ]	Date Monitored:	9/13/10			
Well Diameter	<b>2</b> in.					
Total Depth	58.82 ft.	Volume         3/4"= 0.02           Factor (VF)         4"= 0.66	1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80			
Depth to Water	36. 49 ft. Check if wate	r column is less then 0.50 f				
			stimated Purge Volume: 11-38	gal.		
Depth to Water w	// 80% Recharge [(Height of Water Column	x 0.20) + DTWJ: 40.95				
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	Sampling Equi Disposable Bail Pressure Bailer Discrete Bailer Peristaltic Pump QED Bladder Pu Other:	ipment: ×	Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (circ Amt Removed from Skimmer: Amt Removed from Well: Water Removed: Product Transferred to:	ftftftftftftftftftftftfgalgalgalgalgalgalgal		
Start Time (purge)	: // 06 Weath	ner Conditions:	Clean			
Sample Time/Date			Ddor: Y / N	<u> </u>		
Approx. Flow Rate		ent Description:	Listly			
Did well de-water?		-	I. DTW @ Sampling: 38	.n.		
Time (2400 hr.) リーペイ リーン リーン	Volume (gal.)         pH         Conductiv (μmhos/cm-           4         7.70         968           5         7.62         973           12         7.49         980	ity Temperature	D.O. ORP (mg/L) (mV)	¢		

2	LABORATORY INFORMATION												
L	SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE		ANALYSES							
	MW-	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)							
		2 x 500ml ambers	YES	NP		TPH-DRO w/sgc (8015)							
L													
L													
L				ări -									
L													
L													
L													

## COMMENTS:

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug:	
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Client/Facility#:	Chevron #307233		Job Number:	385876		
Site Address:	2259 First Street		- Event Date:	9/13/10	 /i	nclusive)
City:	Livermore, CA		Sampler:	317	(*	
Well ID	MW- 2		Date Monitored:	9/3/10		
Well Diameter	<b>2</b> in.	Vol	ume 3/4"= 0.02		3"= 0.38	7
Total Depth	58.64 ft.	Fac	tor (VF) 4"= 0.66			
Depth to Water	<u>36,96 ft.</u> 21.68′ xVF		imn is less then 0.50	1 N N	11.05	
Depth to Water v				Estimated Purge Volume:	<u>[[.85</u> _gi	al.
Purge Equipment:		Sampling Equipmen	֥	Time Started: Time Completed:		_(2400 hrs)
Disposable Bailer		Disposable Bailer	$\mathbf{x}$	Depth to Product:		_(2400 hrs) ft
Stainless Steel Bailer	<u> </u>	Pressure Bailer		Depth to Water:		ft
Stack Pump	×	Discrete Bailer		Hydrocarbon Thickn Visual Confirmation		ft
Suction Pump		Peristaltic Pump		1		
Grundfos		QED Bladder Pump		Skimmer / Absorban Amt Removed from	t Sock (circle or	ie)
Peristaltic Pump		Other:		Amt Removed from	Well:	gai
QED Bladder Pump				Water Removed:		
Other:				Product Transferred	10:	
Start Time (purge)	1000	Weather C	onditions:	clouly		
Sample Time/Dat	e: 1030 1 9/13/10	Water Colo	r: Clean	Odor: Y / N		
Approx. Flow Rat	e: t gpm.	Sediment D	Description:	None		*
Did well de-water	? No If yes, Ti	me: Vol	ume: g	al. DTW @ Samplin	ig: <u>37.5</u> 3	
Time (2400 hr.)	Volume (gal.) pH	Conductivity (μmhos/cm - μ <b>5</b> )	Temperature	D.O. (mg/L)	ORP (mV)	
1004	3.5 7.93	632	20.0			
1008	7.0 7.89	691	20.1			
1011	11 7.82	683	20.1			

_	LABORATORY INFORMATION												
	SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES							
	MW- 2-	🕻 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)							
···		2_ x 500ml ambers	YES	NP		TPH-DRO w/sgc (8015)							
		ų.											
L													
				с. 									
L	-												
L													

# COMMENTS:

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug:	
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Client/Facility#:	Chevron #307233	}	Job	Number:	385876			
Site Address:	2259 First Street		Ever	nt Date:	9/1	110		- (inclusive)
City:	Livermore, CA		Sam	pler:	HC			-
Well ID	MW-3		Date M	onitored:	9/12	110		
Well Diameter	<b>2</b> in.	Γ.	Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38	·
Total Depth	59.38 ft.		Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80	
Depth to Water	<u>36.77</u> ft.	Check if water o						1
	22.61xVF	17 = 3.89	x3 cas	e volume = E	stimated Purg	ge Volume:	11.53	_gal.
Depth to Water v	// 80% Recharge [(Height and the interval and the inte	nt of Water Column x 0	).20) + DTW]:	41.29	_			
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump	×	Sampling Equipn Disposable Bailer Pressure Bailer Discrete Bailer Peristaltic Pump QED Bladder Pum Other:			Depth to Depth to Hydrocar Visual Co Skimmer Amt Rem	mpleted: Product: Water: bon Thickne onfirmation/E / Absorbant oved from S oved from W	ess: Description: Sock (circle kimmer:	ft ftft ft ftft ft
Other:					Product 1	ransferred to	0:	
Start Time (purge) Sample Time/Date Approx. Flow Rate Did well de-water?	e: 1335 / 9/13/10 e:gpm.	Water C Sedimen me: V Conductivity	Tempe	ean( n:ga erature	Ddor: Y /( <i>N64</i> C al. DTW @ D.O.	Sampling	ORP	<u> </u>
(2400 hr.) /259 /303 /807	<u>- 4</u> <u>7.29</u> <u>- 8</u> <u>7.20</u> <u>- 7.10</u> <u>- 7.10</u>	928	(\$ / 20 20.	3	(mg/L)	( 	(mV)	
				ATION				

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	) x 500ml ambers	YES	NP		TPH-DRO w/sgc (8015)
····					
				>	
				11	

# COMMENTS:

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Client/Facility#:	Chevron #307233	Job Number:	385876	
Site Address:	2259 First Street	Event Date:	9/13/10	- (inclusive)
City:	Livermore, CA	Sampler:	H	
				-
Well ID	<u>MW- 7</u>	Date Monitored:	9/13/10	_
Well Diameter	<b>2</b> in.	Volume 3/4"= 0.02	1"= 0.04 2"= 0.17 3"= 0.38	
Total Depth	58.93 ft.	Factor (VF) 4"= 0.66	5"= 1.02 6"= 1.50 12"= 5.80	
Depth to Water		r column is less then 0.50		
	20.79 XVF 17 = 3.	x3 case volume = E	Estimated Purge Volume: 10.60	_gal.
Depth to Water v	v/ 80% Recharge [(Height of Water Column	x 0.20) + DTW]: <u>42.29</u>	_	
Purge Equipment:	Sampling Equi	nment:	Time Started: Time Completed:	(2400 hrs) (2400 hrs)
Disposable Bailer	Camping Equi		Depth to Product:	(2400 fills)
Stainless Steel Bailer			Depth to Water:	ft
Stack Pump	Discrete Bailer		Hydrocarbon Thickness: Visual Confirmation/Description:	ft
Suction Pump	Peristaltic Pump		Skimmer / Absorbant Sock (circl	1
Grundfos Peristaltic Pump	QED Bladder Pu	· · · · · · · · · · · · · · · · · · ·	Amt Removed from Skimmer:	gal
QED Bladder Pump	Other:	<u> </u>	Amt Removed from Well: Water Removed:	gal
Other:		8	Product Transferred to:	
Start Time (purge)	: <b>1720</b> Weath	er Conditions:	Clarky	
Sample Time/Dat			Odor: Y / N	
Approx. Flow Rat		ent Description:	LisHt	
Did well de-water	? If yes, Time:	_ Volume: ga	al. DTW @ Sampling:	./6
Time (2400 hr.) 1727 1733 1740	Volume (gal.)         pH         Conductiv (µmhos/cm-           3.5         7.38         1027           7.0         7.32         1048           10.5         7.30         1077	ityTemperature	D.O. ORP (mg/L) (mV)	
		······ ····· ····· ·····		

LABORATORY INFORMATION SAMPLE ID (#) CONTAINER   REFRIG.   PRESERV. TYPE   LABORATORY   ANALYSES												
MW- 4	K voa viał	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)							
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)							
· · · · ·												
		·										
		l			1							
MMENTS:	Not ab	le to	access well	with sa	moke truck							

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_



Client/Facility#:	Chevron #3	07233		Jo	b Number	: 38587	76		
Site Address:	2259 First S	Street		Ev	ent Date:	- 9	113/10		- (inclusive)
City:	Livermore,	CA		Sa	mpler:		311		_ (e.a.e.e.e) -
Well ID	<u>MW- S</u>			Date	Monitored	:	113/10		
Well Diameter		<u>n.</u>		Volume	3/4"= 0.	02 1"= 0.0	04 2"= 0.17	3"= 0.38	
Total Depth		<u>t.                                    </u>		Factor (VF)	4"= 0.	66 5"= 1.0			
Depth to Water			Check if water						
	21.63	_xVF1	7	<u>/</u> x3 c	ase volume	= Estimated	Purge Volume	11.03	_ gal.
Depth to Water	w/80% Recharg	e [(Height of	Water Column >	( 0.20) + DTV	n: <u>41.5</u>				
Purge Equipment:			Sampling Equip	oment:			e Started: e Completed:		(2400 hrs)
Disposable Bailer	$\succ$		Disposable Baile		×		h to Product:		(2400 hrs) ft
Stainless Steel Bailer			Pressure Bailer				h to Water:		ft
Stack Pump	34	I	Discrete Bailer			Hydr	ocarbon Thickr al Confirmation	ness:	ft
Suction Pump		ł	Peristaltic Pump						
Grundfos		(	ED Bladder Pu	mp		Skim	mer / Absorbai	nt Sock (circle	e one)
Peristaltic Pump		C	Other:			Amt	Removed from Removed from	Well:	gal
QED Bladder Pump						Wate	r Removed:		gui
Other:						Prod	uct Transferred	to:	
		····	·····						
Start Time (purge	the second se		Weath	er Conditio	ns:	C	lean		
Sample Time/Dat	te: <u>1445</u> /	9/3/10	Water	Color: (	clark, -	Odor: Y	100		
Approx. Flow Rat	e: -	gpm.	Sedime	ent Descrip	tion:		slfg -		
Did well de-water	?						/ @ Samplir	ng: 39.0	66
Time			Conductivit			- 			
(2400 hr.)	Volume (gal.)	рН	(µmhos/cm -	·	perature	D.O. (mg/L		ORP (mV)	
1406	3.5	7.61	" <i> 0</i> 17		20.4	(	,	(117)	
1412	7.0	7.53	1032		20.2				
1419	11	7.46	1050		20.1		<u> </u>	,	
	<u> </u>							,	
SAMPLE ID	(#) CONTAINER	REFRIG.	LABORATO		MATION ORATORY	1		Vere	
MW- 5	6 x voa vial	YES	HCL		VCASTER	TPH-GRO	ANAL 8015)/BTEX(82		
	2 x 500ml ambers	YES	NP		VCASTER		w/sgc (8015)		
							(		

								I
COMMENTS:	Not	aBle	10	Access	well	w.th	sample	+ Puck

Add/Replaced Lock: \_\_\_\_

Add/Replaced	Plug: _
--------------	---------

Add/Replaced Bolt: \_\_\_\_\_

•



Client/Facility#:	Chevron #:	307233			Job N	umber:	385876			
Site Address:	2259 First	Street			Event	Date:	9/1	3/10		- (inclusive)
City:	Livermore,	CA			Samp	ler:	]		······	- (
Well ID	мw-6			C	Date Mor	nitored:	9/13	110		
Well Diameter		in.		Volum	e	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38	
Total Depth	59.01	ft.		Factor		4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80	
Depth to Water	37.64	ft.	Check if water	r columi	n is less t	hen 0.50 t	t.			
	21.37	xVF_	17 = 3.	63	x3 case	volume = E	stimated Purg	ae Volume: 4	10.89	qai.
Depth to Water w	/ 80% Recharg	Je [(Height of								_ gun
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos	<u>×</u>		Sampling Equip Disposable Baile Pressure Bailer Discrete Bailer Peristaltic Pump QED Bladder Pu	er			Depth to Depth to Hydrocar Visual Co	Inted: Product: Water: bon Thickne onfirmation/[ / Absorbant	ess: Description:	ft ft ft
Peristaltic Pump			Other:	•		<del></del>	Amt Rem	loved from S	kimmer:	gal
QED Bladder Pump							Water Re	oved from V moved:	veii:	gai
Other:							Product 1	ransferred t	0:	
							L			
Start Time (purge)	: 1625		Weath	er Con	ditions:		Clea			
Sample Time/Date		9/13/10			Clo	uder (	Odor: Y /(			
Approx. Flow Rate	e:	gpm.			scription		Light		· · · · · · · · · · · · · · · · · · ·	
Did well de-water	NO		e:		-		I. DTW @		1 38.	77
Time (2400 hr.) /632 /639 /646	Volume (gal.) 3.5 7.0	рн <u>7.39</u> <u>7.33</u> <u>7.25</u>	Conductivi (µmhos/cm - // 26 // 38 // 57	ty	Tempera (© / 19. 19.	ature F) 2	D.O. (mg/L)		ORP (mV)	<u>//</u>

_			L	ABORATORY IN	FORMATION		
	SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES	
	MW- 6	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)	
Ľ		2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)	
L							
L	×						
L							

# COMMENTS:



Site Address:       2259 First Street       Event Date: $9/13$ ho       (inclusive)         City:       Livermore, CA       Sampler: $3lk$ Well ID       MW-7       Date Monitored: $9/13$ ho         Well Diameter       2       in.       Yourne $3lk$ Depth to Water $3l.75$ ft.       Check if water column is less then 0.50 ft.       Yourne $5l = 1.02$ for $1.2 = 5.80$ Depth to Water $3l.75$ ft.       Check if water column is less then 0.50 ft.       Time Started:       (2400 hrs)         Depth to Water w/ 80% Recharge ((Height of Water Colum x 0.20) + DTWJ: $3l.75$ ft.       gal.         Depth to Water w/ 80% Recharge (Cheight of Water Colum x 0.20) + DTWJ: $3l.75$ ft.       gal.         Disposable Bailer       X       Disposable Bailer       X       Pressure Bailer       Pressure Bailer         Stark Pump       Discrete Bailer       X       Discrete Bailer       Starmet/ Absorbant Sock (Gride one)       Ant Renoved from Skimmer.       gal         Other.       Other.       Water Color:       Clean       Odor: (Clean       Start Time (purge):       J5 for 3       J Water Monved from Skimmer.       gal         Diff.       Water Color:       Clean       (Clean	Client/Facility#:	Chevron #30	)7233		Job Number	385876	<i>t</i> 's		
City:       Livermore, CA       Sampler: $\exists k$ Well ID       MW-7       Date Monitored: $f(1)$ $f(1)$ Well Diameter $3k$ $a$ $b$ $f(1)$ $b$ Yell Diameter $3k$ $f(1)$ $b$ $f(1)$ $b$ Total Depth $3k$ $f(1)$ $b$ $f(1)$ $b$ $f(1)$ $b$ <	Site Address:	2259 First St	treet		Event Date:	9/13/10 (inclu			
Well DiameterIn.During the interviewIn.Total Depth $32.\$'$ ft. $34"=0.02$ $2"=0.17$ $3"=0.38$ Depth to Water $31.75$ ft.Check if water column is less then 0.50 ft. $1.60$ $32"=0.38$ Depth to Water w/ 80% Recharge ([Height of Water Column x 0.20] + DTW; $31.57$ $31.57$ $31.57$ Purge Equipment:Sampling Equipment:Disposable Bailer $X$ Disposable Bailer $X$ Disposable BailerNotacity and the product:ft $1100$ $22"=0.17$ $3"=0.38$ Suction PumpDisposable BailerDiscrete Bailer $X$ Discrete Bailer $X$ Depth to Water w/ 80% Recharge (Height of Water Column x 0.20) + DTW; $31.57$ Time Started:(2400 hrs)Disposable BailerXDiscrete Bailer $X$ Discrete Bailer $X$ Discrete BailerDiscrete BailerDiscrete Bailer $X$ Starter: $Starter:$ Depth to Water: $15.50$ / $91.50$ $90.50$ $1000$ $1000$ QED Bladder PumpOther: $31.57$ $1000$ $1000$ $1000$ Other: $900$ $15.50$ $900$ $1000$ $1000$ $1000$ Did well de-water? $M0$ If yes, Time:Volume:gal. DTW @ Sampling: $11.50^{-1}$ Did well de-water? $M0$ If yes, Time:Volume: $10.0$ $000$ $1000^{-1}$ $1000$ hr.Volume (gal.) $pH$ ConductivityTegperature $0.0$ $000^{-1}$ $1000$ hr. $1000^$	City:	Livermore, C	A		Sampler:	Sampler: 3 <sup>1</sup>			
Volume <th <<="" colspan="2" td=""><td>Well ID</td><td>MW- 7</td><td>_</td><td></td><td>Date Monitored</td><td>· 9/13/10</td><td></td></th>	<td>Well ID</td> <td>MW- 7</td> <td>_</td> <td></td> <td>Date Monitored</td> <td>· 9/13/10</td> <td></td>		Well ID	MW- 7	_		Date Monitored	· 9/13/10	
Total Depth Depth I of Water32. & ft. I is the image of th	Well Diameter	<b>2</b> in.			olume 3/4"= 0	02 1"= 0.04 2"= 0	17 3"= 0.39		
I.IOxVFI7=.18x3 case volume = Estimated Purge Volume:.15gal.Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTWJ: 31.57Time Starled: (2400 hrs)Time Starled: (2400 hrs)Disposable BailerXDisposable BailerXDisposable BailerXDiscrete BailerPeristatic PumpOther:Peristatic PumpOther:QED Bladder PumpOther:CleanOther:CleanOdor: CleanOdor: C			_		actor (VF) 4"= 0.				
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.57         Purge Equipment:         Disposable Bailer         Stanless Steel Bailer         Stack Pump         Bisorable Bailer         Stack Pump         Disposable Bailer         Stack Pump         Disposable Bailer         Pressure Bailer         Pressure Bailer         Disposable Bailer         Stack Pump         Suction Pump         Peristaltic Pump         QED Bladder Pump         Other:         QED Bladder Pump         Other:         QED Bladder Pump         Other:         Start Time (purge):         JS 0       / 9 [D lo         Water Color:       C lee_         Odor:       Starber (Stimmer, Parent Internation)         Start Time (purge):       JS 0         JS 0       / 9 [D lo         Water Color:       C lee_         Odor:       Starber (Stimmer, Parent Internation)         JDid well de-water?       Me         Mol e-water?       Me         Mol e-water?       Me         Starber (2400 hr.)       PH         (Starber (Starber (Starber (St	Depth to Water		to the second			50 ft.	_/		
Purge Equipment:         Sampling Equipment::         Time Started:         (2400 hrs)           Disposable Bailer         X         Disposable Bailer         X           Stainless Steel Bailer         N         Disposable Bailer         X           Stainless Steel Bailer         Pressure Bailer         Disposable Bailer         X           Stack Pump         Discrete Bailer         Discrete Bailer         Presstatic Pump           Grundfos         QED Bladder Pump         Other:         Skimmer/Absorbant Sock (dircle one)           Amt Removed from Well:         gal           QED Bladder Pump         Other:         gal           Maprox. Flow Rate:         gpm.         Sediment Description:         L : 5HY           Did well de-water?         M         If yes, Time:         Volume:         gal           Time         (2400 hr.)         PH         Conductivity         Ce-w           Socian et al.         M         If yes, Time:         Volume:         gal           Did well de-water?         M         If yes, Time:         Volume:         gal         D.O.         ORP           (2400 hr.)         Volume (gal.)         PH         Conductivity         Temperature         D.O.         ORP           (150 - 1.50 <td></td> <td></td> <td></td> <td></td> <td></td> <td>= Estimated Purge Volum</td> <td>ie:gal.</td>						= Estimated Purge Volum	ie:gal.		
Purge Equipment:         Sampling Equipment:         Time Completed:         (2400 hrs)           Disposable Bailer         X         Disposable Bailer         X         Disposable Bailer         X           Stanless Steel Bailer         Pressure Bailer         X         Disposable Bailer         X           Stanless Steel Bailer         Pressure Bailer         X         Depth to Waterft           Suction Pump         QED Bladder Pump         Ant Removed from Skimmergal         Ant Removed from Skimmergal           Gendfos         QED Bladder Pump         Other:         Other:gal         Matter Removed from Skimmergal           Other:         Other:         Water Color:         C lea_         Odor: (*) 1.65         Stant Removed from Skimmergal           Approx. Flow Rate:         gpm.         Sediment Description:         L i SHY         Stant Set (*) Kimp           Id well de-water?         Mu         If yes, Time:         Volume:         gal. DTW @ Sampling:         31. \$5'           15 0         .15         6 .53         1/10%         20 .2	Depth to Water w	v/ 80% Recharge	(Height of	Water Column x 0.	20) + DTWJ: <u>31.97</u>				
Disposable Bailer       X       Disposable Bailer       X       Depth to Product:       It         Stainless Steel Bailer       Disposable Bailer       X       Depth to Product:       It         Stack Pump       Discrete Bailer       Discrete Bailer       Th         Suction Pump       Peristaltic Pump       Discrete Bailer       N'sual Confirmation/Description:         Skimmer / Absorbant Sock (circle one)       Ant Removed from Skimmer.       gal         QED Bladder Pump       Other.       Skimmer / Absorbant Sock (circle one)         Ant Removed from Skimmer.       gal         Water Removed from Skimmer.       gal         Matter Removed from Skimmer.       gal         Matter Removed from Skimmer.       gal         Water Color:       Clear         Sample Time/Date:       15 30       9 10 10         Matter Color:       Volume:       gal.         Did well de-water?       M       If yes, Time:       Volume:       gal.         Did well de-water?       M       If yes, Time:       Volume:       gal.       D.O.       ORP         (2400 hr.)       Volume (gal.)       pH       Conductivity       Temperature       D.O.       ORP         15 07       .30       C. 60       <	Purge Equipment			Semalia a Faula a					
Stainless Steel Bailer		~							
Stack Pump				•		Depth to Water:			
Suction Pump       Peristaltic Pump       Start Continuent Continuent Control (Control (C						Hydrocarbon Thic	kness: ft		
Grundfos       QED Bladder Pump       Ant Removed from Skimmer.       gal         Peristaltic Pump       Other:       gal         QED Bladder Pump       Other:       gal         Other:       Water Removed from Well:       gal         Start Time (purge):       1500       Weather Conditions:       Clear         Sample Time/Date:       1530       19010       Water Color:       Clear         Approx. Flow Rate:       gpm.       Sediment Description:       L 15147         Did well de-water?       M       If yes, Time:       Volume:       gal.         Time       (2400 hr.)       Volume (gal.)       pH       Conductivity       Temperature       D.O.       ORP         1507       .30       L.60       14/27       20.2	•					Visual Confirmation	on/Description:		
Peristatic Pump	•			•		Skimmer / Absorb	ant Sock (circle one)		
QED Bladder Pump						Amt Removed fro	m Skimmer: dat		
Other:       Product Transferred to:         Start Time (purge):       1500       Weather Conditions:       Clear         Sample Time/Date:       1530       19010       Water Color:       Clear         Approx. Flow Rate:       gpm.       Sediment Description:       Lisht         Did well de-water?       M       If yes, Time:       Volume:       gal. DTW @ Sampling:       31.85         Time (2400 hr.)       Volume (gal.)       pH       Conductivity (umhos/cm - 15)       Temperature (C) / F )       D.O.       ORP (mV)         1507       .30       .450       1405       20.4	•					Water Removed fro	m vveli:gai		
Start Time (purge):       /500       Weather Conditions:       C lea         Start Time (purge):       /500       Weather Conditions:       C lea         Start Time (purge):       / 9 10 10         Approx. Flow Rate:       gpm.         Did well de-water?       Model If yes, Time:       Volume:       gal. DTW @ Sampling:       31. 88         Time (2400 hr.)       Volume (gal.)       pH       Conductivity Temperature (purhos/cm - 16)       D.O.       ORP         1/5 07       .15       6 6 83       ///08       20 2         LABORATORY INFORMATION         SAMPLE ID       (#) CONTAINER       REFRIG.       PRESERV. TYPE       LABORATORY       ANALYSES         MW- 7       6       x voa vial       YES       HCL       LANCASTER       TPH-GRO(8015)/BTEX(8260)						Product Transferm	ed to:		
Sample Time/Date: 15:30 / 9 0/10       Water Color: Clew Odor: 0 / 0 Strong         Approx. Flow Rate:      gpm.       Sediment Description:      U         Did well de-water?       M       If yes, Time:      Volume:       gal. DTW @ Sampling: 31.8%         Time (2400 hr.)       Volume (gal.)       pH       Conductivity (µmhos/cm - 10)       Temperature (C) / F )       D.O.       ORP (mg/L)         //sog       .15       6.83       //08       20.4									
Sample Time/Date: 15:30 / 9 0/10       Water Color: Clew Odor: 0 / 0 Strong         Approx. Flow Rate:      gpm.       Sediment Description:      U         Did well de-water?       M       If yes, Time:      Volume:       gal. DTW @ Sampling: 31.8%         Time (2400 hr.)       Volume (gal.)       pH       Conductivity (µmhos/cm - 10)       Temperature (C) / F )       D.O.       ORP (mg/L)         //sog       .15       6.83       //08       20.4	Start Time (purge)	: 1500		Weather	Conditions:	Clean			
Approx. Flow Rate:      gpm.       Sediment Description:       L i 5Hr         Did well de-water?       M       If yes, Time:      Volume:       gal. DTW @ Sampling:       31.87         Time (2400 hr.)       Volume (gal.)       pH       Conductivity (µmhos/cm - 19)       Temperature (C) / F )       D.O.       ORP (mV)         1507       .15       6.83       1408       20.4			9 m ha		/ -		540		
Did well de-water?       If yes, Time:       Volume:       gal. DTW @ Sampling:       31.88         Time (2400 hr.)       Volume (gal.)       pH       Conductivity (µmhos/cm - 10)       Temperature ( C) / F )       D.O.       ORP (mg/L)         1503       .15       6.83       1408       20.4	•						S/ Kong		
Time (2400 hr.)       Volume (gal.)       pH       Conductivity (µmhos/cm - 10)       Temperature ( C) / F )       D.O.       ORP (mg/L)         1507       .15       6.83       1408       20.4	· · · · · · · · · · · · · · · · · · ·				· -	and the second	7/90		
(2400 hr.)       Volume (gal.)       pH       (µmhos/cm - 15)       ( C / F )       (mg/L)       (mV)         1507       .15       6.83       1408       20.4		()	yes, mile	· V(		gai. DTW @ Samp	ling: 31,08		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Volume (gal.)	nН			D.O.	ORP		
1507       .30       L.80       1427       20.2         1511       .50       6.78       1431       20.2         LABORATORY INFORMATION		(gail)		(µmhos/cm - S	) ( <b>((</b> )/F)	(mg/L)	(mV)		
ISIN       .50       I/ISIN       20.2         LABORATORY INFORMATION         SAMPLE ID       (#) CONTAINER       REFRIG.       PRESERV. TYPE       LABORATORY       ANALYSES         MW-7       G       x voa vial       YES       HCL       LANCASTER       TPH-GRO(8015)/BTEX(8260)	1503	.15	6.83	1408	20.4				
LABORATORY INFORMATION         SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES         MW-7       6       x voa vial       YES       HCL       LANCASTER       TPH-GRO(8015)/BTEX(8260)	1507	.30	6.80	1427	20.2				
SAMPLE ID         (#) CONTAINER         REFRIG.         PRESERV. TYPE         LABORATORY         ANALYSES           MW-7         6         x voa vial         YES         HCL         LANCASTER         TPH-GRO(8015)/BTEX(8260)	1511	.50	6.78	1931					
SAMPLE ID         (#) CONTAINER         REFRIG.         PRESERV. TYPE         LABORATORY         ANALYSES           MW-7         6         x voa vial         YES         HCL         LANCASTER         TPH-GRO(8015)/BTEX(8260)		<u> </u>							
MW- 7 6 x voa vial YES HCL LANCASTER TPH-GRO(8015)/BTEX(8260)						·····			
		2 x ooonn ambers			LANCASTER	TPH-DRO w/sgc (8015)			
	(*)				_				
			<u></u>						
OMMENTS: Not able to access well with sample truck slow Recover	OMMENTS: Slow Recor	Not able	to	access we	ell with s	ample truck			
		/			·	<u>-</u>			
Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:	Add/Replaced Lo	ock:	Add/	Replaced Plug:		Add/Replaced Bolt:			



Client/Facility#:	Chevron #3	07233			Job Number	385876		
Site Address:	2259 First S	Street			Event Date:	91	01/10	(inclusive)
City:	Livermore,	CA			Sampler:			(110/03/46)
_				``				· <u> </u>
Well ID	MW- 8			Dat	e Monitored	: 91	12/11	
Well Diameter		<u>n.</u>		Volume	3/4"= 0.	02 1"= 0.04	2"= 0.17 3"= 0	1.38
Total Depth		<u>t.                                    </u>		Factor (VF	F) 4"= 0.	66 5"= 1.02	6"= 1.50 12"= 5	
Depth to Water			Check if water				1 ///	
<b>.</b>	2.87						ge Volume: 1.96	gal.
Depth to Water	w/ 80% Recharg	e [(Height of	Water Column x	( 0.20) + D	rwj: <u>57-12</u>	<u> </u>		
Purge Equipment:			Sampling Equip	mont		Time Sta		(2400 hrs)
Disposable Bailer	$\succ$		Disposable Baile		×		mpleted: Product:	
Stainless Steel Baile		Pressure Bailer				Depth to	Water:	ft
Stack Pump			Discrete Bailer	_		Hydrocar Visual C	bon Thickness: onfirmation/Descripti	ft
Suction Pump		F	Peristaltic Pump					
Grundfos		C	QED Bladder Pu	mp		Skimmer	/ Absorbant Sock (conved from Skimmer	ircle one)
Peristaltic Pump		C	Other:			Amt Rem	oved from Well:	gal
QED Bladder Pump						Water Re	moved:	
Other:						Floduct	ransieneu to:	
Start Time (purge				er Condit	—	cle		
Sample Time/Da					clary	-		
Approx. Flow Rat		_gpm.		ent Descr	-	Heavy	silt	
Did well de-water	? <u>///</u>	f yes, Time	:	Volume:		gal. DTW @	Sampling: <u>3</u>	7.00
Time	Volume (gal.)	pН	Conductivit		emperature	D.O.	ORP	
(2400 hr.)	_		(µmhos/cm -	μs) (	<b>(</b> /F)	(mg/L)	(mV)	
//44	.5	7.18	868		20.7			
1149	1.0	7.17	870		20.9			
11.0	<u>[·)</u>	<u></u>	874		21.2			_
		·····					<u> </u>	
			LABORATO	RY INFO	RMATION			
	(#) CONTAINER		PRESERV. 1		ABORATORY		ANALYSES	
	C x voa vial	YES	HCL		ANCASTER	TPH-GRO(801		
	2 x 500ml ambers	YES	NP	<u> </u>	ANCASTER	TPH-DRO w/sg	c (8015)	
~ ~						<u> </u>		
			<u> </u>			<u> </u>		
1			1					

COMMENTS:

Slow Recovery

Add/Replaced Lock: \_\_\_\_\_

-



Client/Facility#:	Chevron #3	07233		J	ob Number:	385876			
Site Address:	2259 First S	treet		E	vent Date:	91	13/10		- (inclusive)
City:	Livermore,	CA		S	ampler:		514		- (
Well ID	MW- 9			Date	Monitored:	9/1	3/10		
Well Diameter		<u>n.</u>		Volume	3/4"= 0.0		2"= 0.17	3"= 0.38	
Total Depth	<b>39.69</b> f	t		Factor (VF)			6"= 1.50	12"≍ 5.80	
Depth to Water	31.85 f	t. 🛄	Check if water	column is	less then 0.5	0 ft.	;		
	7.79	xVF 1	7 = 1.3	2 x3	case volume =	Estimated Pur	ae Volume:	3.96	gal.
Depth to Water w	// 80% Recharg	E [(Height of	Water Column x	0.20) + DT\	M: 33.40		<u></u>		_ 901.
Purge Equipment:			Sampling Equip			Time Sta	arted:		(2400 hrs) (2400 hrs)
Disposable Bailer	<u>×</u>		Disposable Baile	г	$\boldsymbol{\times}$	Depth to	Product:		
Stainless Steel Bailer			Pressure Bailer				Water:		ft
Stack Pump			Discrete Bailer			Visual C	rbon Thickne onfirmation/E	ess: Description:	ft
Suction Pump			Peristaltic Pump						
Grundfos		I	QED Bladder Pur	mp		Amt Ren	/ Absorbant	Sock (circle kimmer:	e one) gal
Peristaltic Pump			Other:		<u> </u>	Amt Ren	noved from V	Vell:	gal
QED Bladder Pump							emoved: Transferred t	0.	
Other:						. TOGUCK	indialence (		
Start Time (purge)			Weathe	er Conditio	ons:	Cle	ar		
Sample Time/Date	e: <u>1615 1</u>	9/13/10	Water (	Color:	clard,	Odor: Y /	ß		
Approx. Flow Rate	:	gpm.	Sedime	nt Descrij	otion:	Heary			
Did well de-water?	NO If	yes, Time	):	Volume:		gal. DTW @	Sampling	: 33.	0
				-			,		<u> </u>
Time (2400 hr.)	Volume (gal.)	pН	Conductivity (µmhos/cm -		mperature / F )	D.O.		ORP	
	1.0	712				(mg/L)	(	(mV)	
1543	1.3	7.62	1358		18.8				
1547	2.5	7.59	1410		18.9				
1551	4.0	7.28	1417		19.0				

_		LABORATORY INFORMATION												
	SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES								
	MW- 9	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)								
		2 x 500ml ambers	YES	NP		TPH-DRO w/sgc (8015)								
$\vdash$		+												

# COMMENTS:

Add/Replaced Bolt:

	Chevro	on Co	alifo	m	ia R	eg	<b>ii</b> O	n,	An	nal	lysi:	s R	eq	ue	est/	Chain o	f Cu	stoc	J
Lancaster Laboratories		Þ	19	15	1 Acc	у ( t. #:	1			_				_	es use	only Group #:	018	660	_
										An	alyses	s Req	ueste	d					
Facility #:	6 Global ID#	T0600196	622		Matrix				_	Pr	eserva	ation	Codes	8		Preserva			
2259 FIRST STREET, LIVERI Site Address:							14	<u> </u>	9	-							T = Thios B = NaO		
Chevron PM: IR Lead G-R, Inc., 6747 Sierra Col	CF Consultant:	RAHK	Hoey						Cleanup							$S = H_2SO_4$			
G-R, Inc., 6747 Sterra Col Consultant/Office:	urt, Suite J, Di	ublin, CA	94568		ble ES	ner			Gel							J value report	ng neede	b	1
Consultant/Office:	eanna@grinc.	com)	_		Potable	Containers	8021 🗆		Silica							Must meet low possible for 82			
Consultant Prj. Mgr.: Consultant Phone #: Sampler:	925-5	551-7899				U S					8	poq				8021 MTBE Con		Junus	
Constituint Phone #.	гах #					er o	8260	GRO	BRO		Method	Method				Confirm highe		260	
Sampler:	11CICICON		site		-	Total Number of	+ABBE	8015 MOD GRO	8015 MOD DRO	can	Oxygenates ead Met	Dissolved Lead				Confirm all hit		200	
	Date	Time	Grab Composite				₩ ¥	8015	8015	8260 full scan	Total Lead	plved				Run oxy		est hit	
Sample Identification	Collected	Collected	Grab Com	Soil	Water	1 of	BTEX	TPH	HAT	8260	Total	Disse				Run oxy	s on all hi	ts	
QA	9/10/10		X		×	2	×	×								Comments / R	emarks		
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		1030	X		$\ge$	8	X	M	X		_					_			
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M~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1225	$\mathbf{X}$		$\mathbf{X}$	8	$\ge$	$\square$	X										
mu-9	4 /	1615	$\times$		$\ge$	8	$\succ$	$[\lambda]$	X				_			_			
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		Relinqui	shed by:		Art		1	1-1-	Da	<u>(17</u> ate	Time	Red	ceived	by:	Chart:	a. 15	Epiø Date	11/5 Time	
Data Package Options (please circle if required)           QC Summary         Type I - Full	EDF/EDD																- 410		
Type VI (Raw Data) Coelt Deliverable not needed												Red	ceived	by:			Date	Time	
WIP (RWQCB)		UPS		edEx		Other	·												
Disk		Tempera	ature Upo	on Re	ceipt						C <sup>c</sup>	Cus	stody S	ieals I	ntact?	Yes No			

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4804.01 (north) Rev. 10/12/06

# ATTACHMENT B

# LABORATORY ANALYTICAL REPORT





## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Prepared for:

Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

September 27, 2010

Project: 307233

Submittal Date: 09/16/2010 Group Number: 1212063 PO Number: 0015060774 Release Number: ROBB State of Sample Origin: CA

Client Sample Description QA-T-100913 NA Water MW-1-W-100913 Grab Water MW-2-W-100913 Grab Water MW-3-W-100913 Grab Water MW-5-W-100913 Grab Water MW-6-W-100913 Grab Water MW-7-W-100913 Grab Water MW-8-W-100913 Grab Water MW-9-W-100913 Grab Water

## Lancaster Labs (LLI) #

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

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





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

Respectfully Submitted,

Ausan M Goshert

Susan M. Goshert Group Leader





Page 1 of 1

## Sample Description: QA-T-100913 NA Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 QA

## LLI Sample # WW 6086367 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected: 09/13/2010

Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLQA

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Vo	latiles	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/19/2010 19:33	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/19/2010 19:33	Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260B20A	09/17/2010 16:31	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10260B20A	09/17/2010 16:31	Marie D John	1





Page 1 of 1

## Sample Description: MW-1-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-1

## LLI Sample # WW 6086368 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected:	09	/13	/2010	11:30	by JH
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Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM1

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS V	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Vola	atiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	1
GC Ext w/Si Ge		SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w	w/ Si Gel	n.a.	51	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/19/2010 23	3:40 Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/19/2010 23	3:40 Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260B20A	09/17/2010 20	):31 Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10260B20A	09/17/2010 20	):31 Marie D John	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102590012A	09/17/2010 16	5:30 Melissa McDermott	: 1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102590012A	09/16/2010 22	2:15 Elaine F Stoltzfu	ıs 1





Page 1 of 1

## Sample Description: MW-2-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-2

## LLI Sample # WW 6086369 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected:	09	/13	/2010	10:30	by	JH
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Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM2

CAT No. Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846	8260B	ug/l	ug/l	
10943 Benzene		71-43-2	N.D.	0.5	1
10943 Ethylbenzene		100-41-4	N.D.	0.5	1
10943 Toluene		108-88-3	N.D.	0.5	1
10943 Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Volatiles	SW-846	8015B	ug/l	ug/l	
01728 TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	1
GC Extractable TPH w/Si Gel	SW-846	8015B	ug/l	ug/l	
06610 TPH-DRO CA C10-C28	w/ Si Gel	n.a.	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	le	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010	00:02	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/20/2010	00:02	Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260B20A	09/17/2010	20:53	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10260B20A	09/17/2010	20:53	Marie D John	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102590012A	09/17/2010	16:51	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102590012A	09/16/2010	22:15	Elaine F Stoltzfus	1





Page 1 of 1

## Sample Description: MW-3-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-3

## LLI Sample # WW 6086370 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected:	09	/13	/2010	13:35	by JH
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Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM3

CAT No. Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846	8260B	ug/l	ug/l	
10943 Benzene		71-43-2	N.D.	0.5	1
10943 Ethylbenzene		100-41-4	N.D.	0.5	1
10943 Toluene		108-88-3	N.D.	0.5	1
10943 Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Volatiles	SW-846	8015B	ug/l	ug/l	
01728 TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	1
GC Extractable TPH w/Si Gel	SW-846	8015B	ug/l	ug/l	
06610 TPH-DRO CA C10-C28	w/ Si Gel	n.a.	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010 00:2	5 Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/20/2010 00:2	5 Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260C20A	09/18/2010 15:0	5 Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10260C20A	09/18/2010 15:0	5 Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102590012A	09/17/2010 17:1	3 Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102590012A	09/16/2010 22:1	5 Elaine F Stoltzfus	3 1





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## Sample Description: MW-4-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-4

## LLI Sample # WW 6086371 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected: 09/13/2010 1	T8:00	by	JH
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Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM4

CAT No. Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846	8260B	ug/l	ug/l	
10943 Benzene		71-43-2	N.D.	0.5	1
10943 Ethylbenzene		100-41-4	N.D.	0.5	1
10943 Toluene		108-88-3	N.D.	0.5	1
10943 Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Volatiles	SW-846	8015B	ug/l	ug/l	
01728 TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	1
GC Extractable TPH w/Si Gel	SW-846	8015B	ug/l	ug/l	
06610 TPH-DRO CA C10-C28	w/ Si Gel	n.a.	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010 00	47 Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/20/2010 00	47 Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260C20A	09/18/2010 15	27 Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10260C20A	09/18/2010 15	27 Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102590012A	09/17/2010 17	34 Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102590012A	09/16/2010 22	15 Elaine F Stoltzfu	s 1





Page 1 of 1

## Sample Description: MW-5-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-5

## LLI Sample # WW 6086372 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected:	09	/13	/2010	14:45	by JH
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Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM5

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	1
GC Ext w/Si (		SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 v	v/ Si Gel	n.a.	700	170	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010 01:1	0 Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/20/2010 01:3	0 Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260C20A	09/18/2010 15:4	9 Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10260C20A	09/18/2010 15:4	9 Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102600012A	09/22/2010 09:5	8 Melissa McDermott	5
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102600012A	09/18/2010 08:3	5 Karen R Rettew	1





Page 1 of 1

## Sample Description: MW-6-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-6

## LLI Sample # WW 6086373 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected:	09	/13	/2010	17:10	by JH
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Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM6

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles S	W-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Vol	latiles S	W-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water Ce	6-C12	n.a.	N.D.	50	1
GC Ext w/Si (		W-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/	Si Gel	n.a.	68	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010 01:3	3 Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/20/2010 01:3	3 Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260C20A	09/18/2010 16:1	1 Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10260C20A	09/18/2010 16:1	1 Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102600012A	09/21/2010 18:5	3 Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102600012A	09/18/2010 08:1	5 Karen R Rettew	1





Page 1 of 1

## Sample Description: MW-7-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-7

## LLI Sample # WW 6086374 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected:	09	/13	/2010	15:30	by JH
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Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM7

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	1,700	5	10
10943	Ethylbenzene		100-41-4	460	5	10
10943	Toluene		108-88-3	33	0.5	1
10943	Xylene (Total)		1330-20-7	600	5	10
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	16,000	250	5
GC Ext w/Si (		SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w	v/ Si Gel	n.a.	40,000	880	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	e	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010	01:56	Florida A Cimino	1
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010	02:18	Florida A Cimino	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/20/2010	01:56	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D102622AA	09/20/2010	02:18	Florida A Cimino	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260C20B	09/20/2010	10:32	Carrie E Miller	5
01146	GC VOA Water Prep	SW-846 5030B	1	10260C20B	09/20/2010	10:32	Carrie E Miller	5
06610	TPH-DRO CA C10-C28 w/ Si	SW-846 8015B	1	102600012A	09/22/2010	10:41	Melissa McDermott	25
	Gel							
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102600012A	09/18/2010	08:15	Karen R Rettew	1





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## Sample Description: MW-8-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-8

## LLI Sample # WW 6086375 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

COTTCCCCCCC O ) / T ) / Z O T O T Z O Z O D V O T	Collected:	09/13	/2010	12:25	by	$_{\rm JH}$
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Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM8

CAT No. Ana	lysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Vol	latiles	SW-846	8260B	ug/l	ug/l	
10943 Ben	zene		71-43-2	5	0.5	1
10943 Eth	ylbenzene		100-41-4	N.D.	0.5	1
10943 Tol	uene		108-88-3	2	0.5	1
10943 Xyl	ene (Total)		1330-20-7	1	0.5	1
GC Volati	lles	SW-846	8015B	ug/l	ug/l	
01728 TPH	-GRO N. CA water	C6-C12	n.a.	3,400	250	5
GC Extrac w/Si Gel	table TPH	SW-846	8015B	ug/l	ug/l	
06610 TPH	-DRO CA C10-C28 v	v/ Si Gel	n.a.	590	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010 02:4	1 Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/20/2010 02:4	1 Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260C20B	09/20/2010 10:	4 Carrie E Miller	5
01146	GC VOA Water Prep	SW-846 5030B	1	10260C20B	09/20/2010 10:	4 Carrie E Miller	5
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102600012A	09/22/2010 13:	5 Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102600012A	09/18/2010 08:	5 Karen R Rettew	1





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## Sample Description: MW-9-W-100913 Grab Water Facility# 307233 Job# 385876 GRD 2259 First St-Livermore T0600196622 MW-9

## LLI Sample # WW 6086376 LLI Group # 1212063 Account # 10904

#### Project Name: 307233

Collected:	09	/13	/2010	16:15	by JH
------------	----	-----	-------	-------	-------

Submitted: 09/16/2010 09:10 Reported: 09/27/2010 13:21 Discard: 10/28/2010 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FSLM9

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Vol	latiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	1
GC Ext w/Si (		SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w	v/ Si Gel	n.a.	30,000	670	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D102622AA	09/20/2010 03:	)4 Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D102622AA	09/20/2010 03:	)4 Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10260C20A	09/18/2010 16:	2 Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10260C20A	09/18/2010 16:	2 Tyler O Griffin	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102600012A	09/22/2010 10:	9 Melissa McDermott	20
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102600012A	09/18/2010 08:	5 Karen R Rettew	1



# Analysis Report

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# Quality Control Summary

Client Name: Chevron Reported: 09/27/10 at 01:21 PM Group Number: 1212063

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: D102622AA Benzene	Sample numb N.D. N.D.	0.5	ug/l	376 82 92		79-120 79-120		
Ethylbenzene Toluene Xylene (Total)	N.D. N.D. N.D.	0.5 0.5 0.5	ug/l ug/l ug/l	92 92 93		79-120 79-120 80-120		
Batch number: 10260B20A TPH-GRO N. CA water C6-C12	Sample numb N.D.	er(s): 608 50.	86367-6086 ug/l	369 118	118	75-135	0	30
Batch number: 10260C20A TPH-GRO N. CA water C6-C12	Sample numb N.D.	er(s): 608 50.	86370-6086 ug/l	373,60863 118	76 118	75-135	0	30
Batch number: 10260C20B TPH-GRO N. CA water C6-C12	Sample numb N.D.	er(s): 608 50.	86374-6086 ug/l	375 118	118	75-135	0	30
Batch number: 102590012A TPH-DRO CA C10-C28 w/ Si Gel	Sample numb N.D.	er(s): 608 32.	86368-6086 uq/l	371 83	85	52-126	3	20
Batch number: 102600012A TPH-DRO CA C10-C28 w/ Si Gel	Sample numb N.D.	er(s): 608 32.	- 86372-6086 ug/l	376 91	84	52-126	9	20

# Sample Matrix Quality Control

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

Analysis Name	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
Batch number: D102622AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample 95 106 106 107	number(s) 97 108 108 109	: 6086367 80-126 71-134 80-125 79-125	2-60863 2 2 1 2	76 UNSP 30 30 30 30 30	PK: P086360			
Batch number: 10260B20A TPH-GRO N. CA water C6-C12	Sample 127	number(s)	: 6086367 63-154	-60863	69 UNSP	PK: P084094			
Batch number: 10260C20A TPH-GRO N. CA water C6-C12	Sample 118	number(s)	: 6086370 63-154	-60863	73,6086	376 UNSPK:	6086372		
Batch number: 10260C20B TPH-GRO N. CA water C6-C12	Sample 118	number(s)	: 6086374 63-154	-60863	75 UNSP	PK: 6086372			

\*- 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.



# Analysis Report

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# Quality Control Summary

Client Name: Chevron Reported: 09/27/10 at 01:21 PM Group Number: 1212063

# 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 Batch nu	Name: UST VOCs b mber: D102622AA	y 8260B - Water			
Daten nu	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
6086367	96	97	104	94	
6086368	94	96	103	95	
6086369	97	97	102	96	
6086370	96	96	103	97	
6086371	97	98	102	94	
6086372	96	96	105	96	
6086372	96	96	103	95	
	95				
6086374		105	104	103	
6086375	93	93	104	103	
6086376	98	96	104	97	
Blank	96	99	104	95	
LCS	95	97	104	98	
MS	95	102	104	98	
MSD	95	100	103	96	
Limits:	80-116	77-113	80-113	78-113	
	Name: TPH-GRO N. mber: 10260B20A Trifluorotoluene-F	CA water C6-C12			
6086367 6086368 6086369 Blank LCS LCSD MS	89 90 90 89 122 118 127				
Limits:	63-135				
	Name: TPH-GRO N. mber: 10260C20A Trifluorotoluene-F	CA water C6-C12			
6086370	88				
6086371	84				
6086372	88				
6086373	84				
6086376	88				
Blank	87				
LCS	115				
LCSD MS	117 121				
GII					

Limits: 63-135

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

\*- 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.



# **Analysis Report**

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# Quality Control Summary

Client Name: Chevron Reported: 09/27/10 at 01:21 PM Group Number: 1212063

# Surrogate Quality Control

Batch number: 10260C20B Trifluorotoluene-F

6086374	132
6086375	104
Blank	86
LCS	115
LCSD	117
MS	121
Limits:	63-135
Analvsis	Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch nur	nber: 102590012A
Dacon na	Orthoterphenyl
	Ontoterprienty
6086368	76
6086369	77
6086370	87
6086371	81
Blank	81
LCS	95
LCSD	96
Limits:	59-131
Analysis	Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch nur	nber: 102600012A
	Orthoterphenyl
6086372	94
6086373	84
6086374	204*
6086375	78
6086376	168*
Blank	69
LCS	95
LCSD	86
Limits:	59-131
штштс <b>р</b> ;	57 151

\*- 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.



Disk----

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories						Γ						Requ					nly Group #: Grρ-# 12			
Sample Identification QA Mw-1	MORE, CA d Consultant burt, Suite J leanna@gri	CRAHK Dublin, CA nc.com) 25-551-7899 Time Collected	Hoe 9456	Composite	Water Potable			015 MOD GRO	TPH 8015 MOD DRO 🕱 Silica Gel Cleanup	8260 full scan	genates	Total Lead Method	Dissolved Lead Method		S			<b>Preservat</b> H = HCl N = HNO <sub>3</sub> I	tive Cod T = Thio: B = NaO O = Other and needed rest detect 60 composition at hit by 82 a by 8260 s on higher s on all hi	es sulfate H r ion limits unds 260 st hit
МШ-2 МШ-3 МШ-4 МШ-5 МШ-5 МШ-8 МШ-9	XXXXXXXX		XXXXXXXX													Please forward directly to the Li and cc	ead Cons			
Turnaround Time Requested (TAT) (please of the second s	UPS	ished t	Ny: Ny: Ny: Ny: Federate	mmercia X	Oth	er	<b>()</b> 15	9/ 2/5- 5/5/	Date	Tin	00 ne (5 ne	Rec Rec Rec	eived	by:	-Ri	er F	1	Date Date ECIO Date Date	Time Time Time Time Time	

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4804.01 (north) Rev. 10/12/06

Kes No

Custody Seals Intact?/

C°

Temperature Upon Receipt

Explanation of Symbols and Abbreviations

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

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

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is  $\geq$  the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight<br/>basisResults printed under this heading have been adjusted for moisture content. This increases the analyte weight<br/>concentration to approximate the value present in a similar sample without moisture. All other results are reported<br/>on an as-received basis.

# U.S. EPA CLP Data Qualifiers:

# **Organic Qualifiers**

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

# **Inorganic Qualifiers**

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

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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

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