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Alameda County

Environmental Health

Mike Bauer Project Manager Marketing Business Unit Chevron Environmental Management Company 145 S. State College Blvd Brea, CA 92821 Tel (714) 671-3200 Fax (714) 671-3440 mbauer@chevron.com

January 21, 2011

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

Re: Former Signal Oil Marine Storage and Distribution Facility

(Former Chevron Bulk Plant 20-6127)

2301-2311 Blanding Avenue

Alameda, California LOP Case RO0002466

Dear Mr. Wickham:

The purpose of this letter is to verify that as a representative for Chevron Environmental Management Company (Chevron), I reviewed, and concur with, the comments in the *Fourth Quarter 2010 Groundwater Monitoring and Sampling Report* for the referenced facility, prepared on behalf of Chevron by Conestoga-Rovers & Associates. I declare under penalty of perjury that the foregoing is true and correct.

Please feel free to contact me at (714) 671-3207 if you have any questions.

Sincerely,

Mike Bauer Project Manager

NS Bauer



10969 Trade Center Drive Rancho Cordova, California 95670

Telephone: (916) 889-8900 Fax: (916) 889-8999

http://www.craworld.com

January 20, 2011

Reference No. 631916

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

Re: Fourth Quarter 2010

Groundwater Monitoring and Sampling Report

Former Signal Oil Marine Storage and Distribution Facility

(Chevron Bulk Plant 20-6127) 2301-2311 Blanding Avenue

Alameda, California

ACEH Case No. RO0002466

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Fourth Quarter 2010 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by Gettler-Ryan, Inc., of Dublin, California. G-R's October 28, 2010 and November 2, 2010 *Fourth Quarter Event, Well Development Event, and Special Event* reports are presented as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and well construction details are summarized in Table 2. Lancaster Laboratories' November 5, 2010 *Analytical Results* is presented as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF FOURTH QUARTER EVENT

On October 22, 2010, G-R monitored and sampled the site wells per the established schedule. Newly installed wells MW-1RA, MW-1RB, and MW-6 were developed on October 25, 2010 and monitored and sampled for the first time on October 28, 2010 (MW-2 through MW-5 were also monitored). Wells MW-1RA and MW-1RB replace former well MW-1. Well MW-1RA is screened within a shallow perched zone and wells MW-1RB and MW-6 are screened within the same silty sand layer as wells MW-2 through MW-5. Monitoring data related to this event is included in G-R's monitoring data package (Attachment A).

Equal Employment Opportunity Employer



January 20, 2011 Reference No. 631916

Results of the current monitoring event indicate the following:

Groundwater Flow Direction Northerly
 Hydraulic Gradient 0.014

Depth to Water
 3.65 to 9.23 feet below grade

Results of the current sampling event are presented below in Table A:

	TABLE A GROUNDWATER ANALYTICAL DATA											
Well ID	TPHd (µg/L)	TPHg (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (µg/L)						
ESLs	100	100	1	40	30	20						
MW-1RA*	4,000	6400	830	22	65	20						
MW-1RB*	1,600	650	3	<0.5	0.8	<0.5						
MW-2	58	<50	<0.5	<0.5	<0.5	<0.5						
MW-3	570	73	<0.5	<0.5	<0.5	<0.5						
MW-4	91	<50	<0.5	<0.5	<0.5	<0.5						
MW-5	1,500	830	47	<0.5	1	<0.5						
MW-6*	300	620	7	< 0.5	1	2						

Notes:

ESL Environmental screening level

CONCLUSIONS AND RECOMMENDATIONS

Results of this current quarterly monitoring and sampling of wells MW-2 through MW-5 are consistent with the past four quarters. Wells MW-1RA, MW-1RB and MW-6 were sampled for the first time during this quarter. The sampling results indicate the following:

- The highest TPHd, TPHg, and benzene concentrations in groundwater are in the area of the former fuel pumps, and north of the former aboveground storage tanks (Figures 3 through 5).
- Concentrations are generally decreasing in site wells (excluding the newly installed wells) where concentrations are detected above groundwater ESLs.

^{*} Wells MW-1RA, MW-1RB and MW-6 were installed on August 4, 2010, developed on October 25, 2010, and sampled initially in October 28. 2010



January 20, 2011

Reference No. 631916

CRA recommends continuing quarterly monitoring and sampling of current wells and newly installed wells MW-1RA, MW-1RB, and MW-6 to verify concentration trends over time.

- 3 -

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

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

Additional Activity

CRA completed a second indoor air sampling event in November 2010 and is currently preparing a summary report. The summary report will be submitted to ACEH by February 28, 2011.

Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

an Silva Greg Barclay, PG 6260

AA/aa/17 Encl.



January 20, 2011 Reference No. 631916

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Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour Map - October 28, 2010
Figure 3	TPHd Concentrations in Groundwater - October 22, 2010
Figure 4	TPHg Concentrations in Groundwater - October 22, 2010
Figure 5	Benzene Concentrations in Groundwater – October 22, 2010
Table 1	Groundwater Monitoring and Sampling Data
Table 2	Well Construction Specifications
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

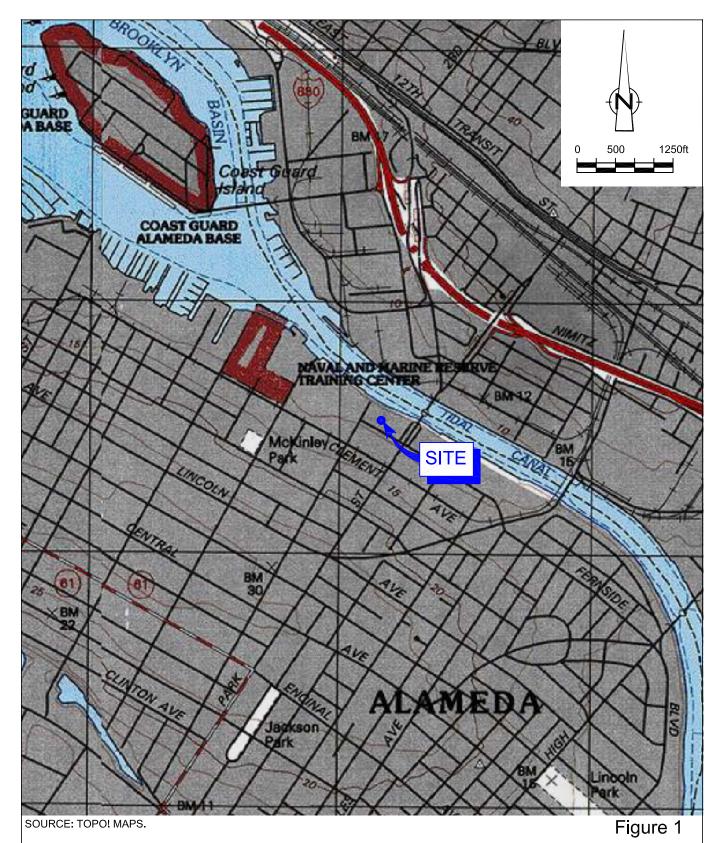
cc: Mr. Mike Bauer, Chevron (electronic only)

Ms. Julie Beck Ball

Mr. Peter Reinhold Beck Mr. Monroe Wingate

Mr. Tom Foley

FIGURES

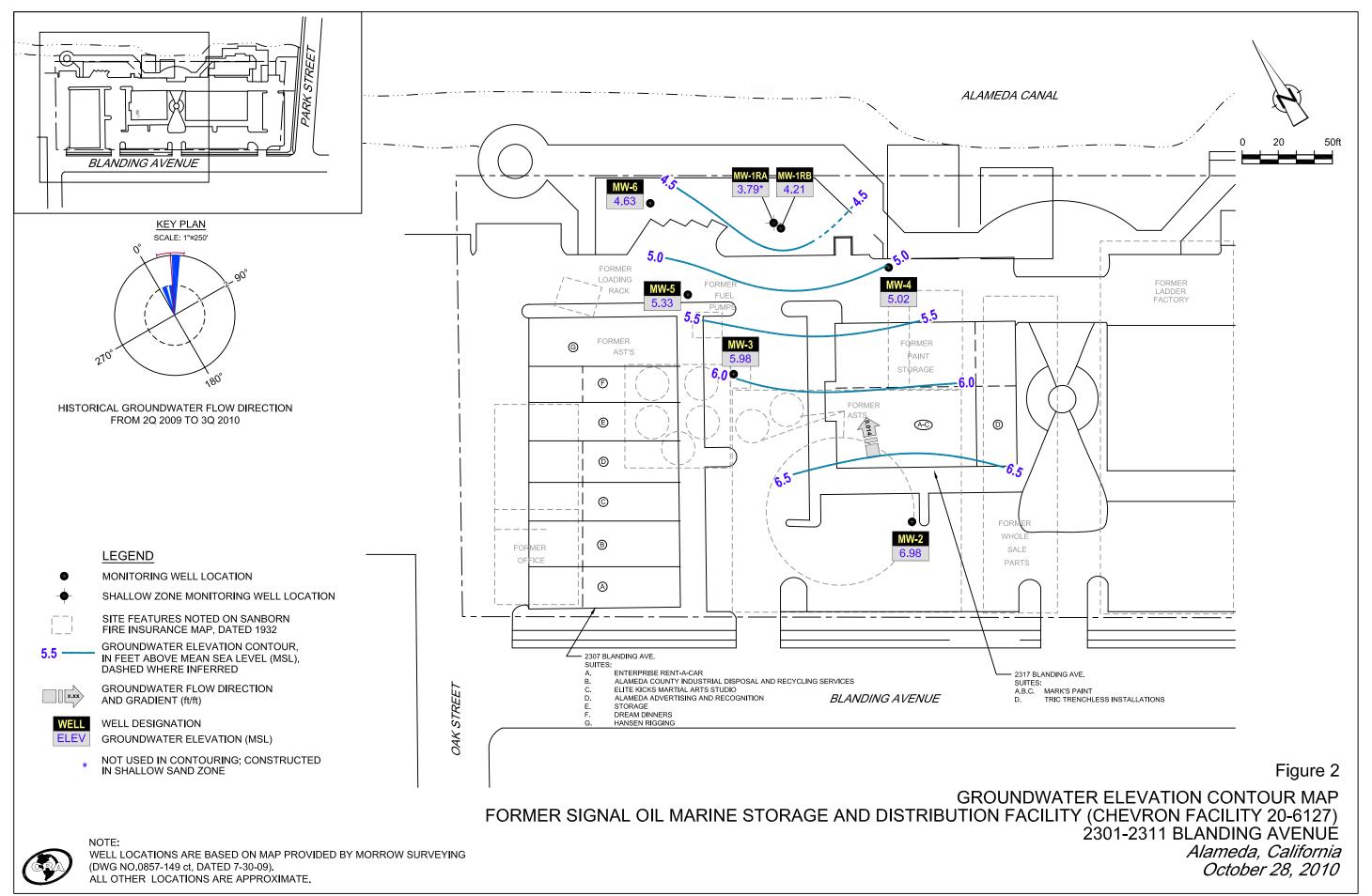


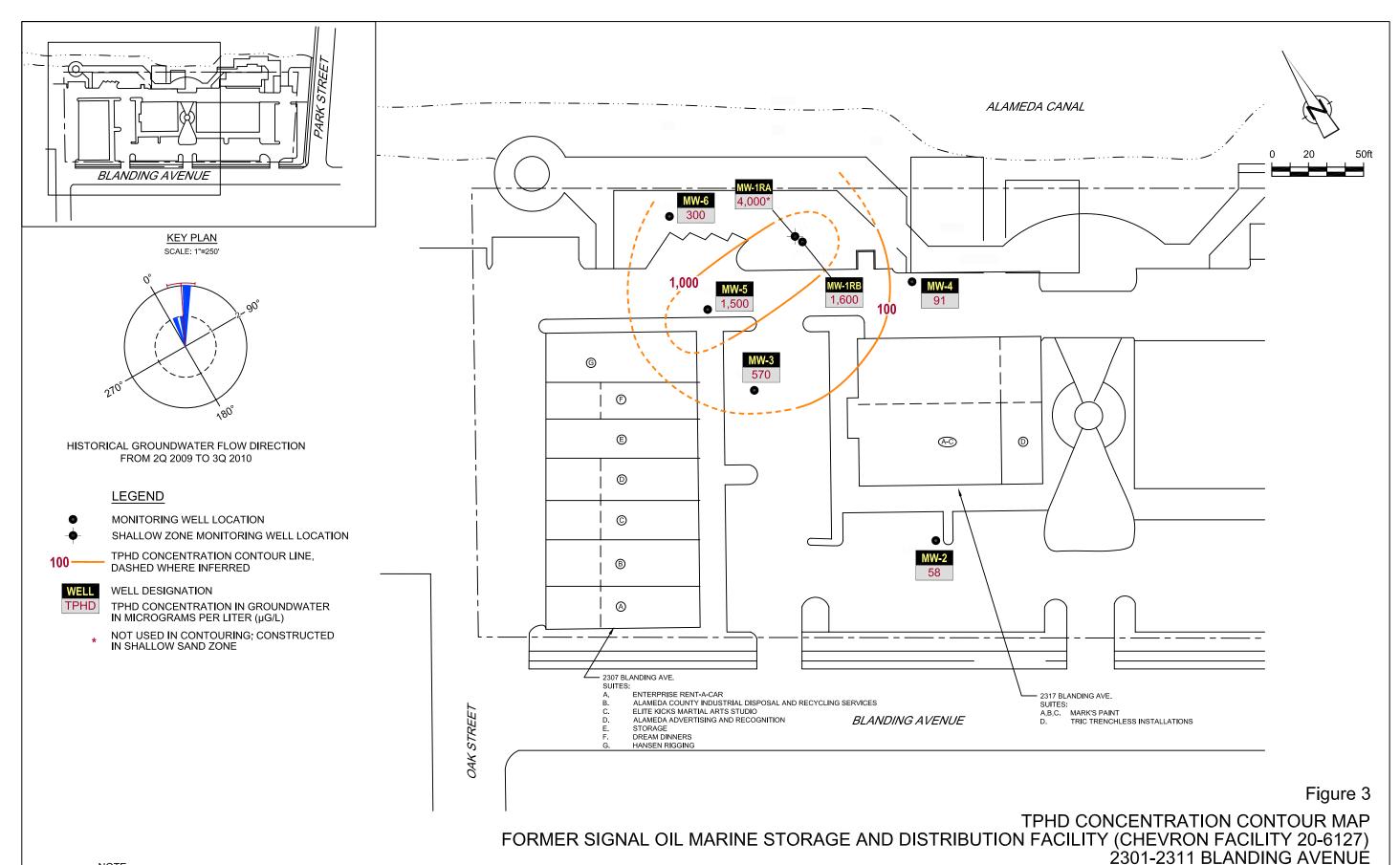
VICINITY MAP FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY

(CHEVRON FACILITY 20-6127) 2301-2311 BLANDING AVENUE

Alameda, California

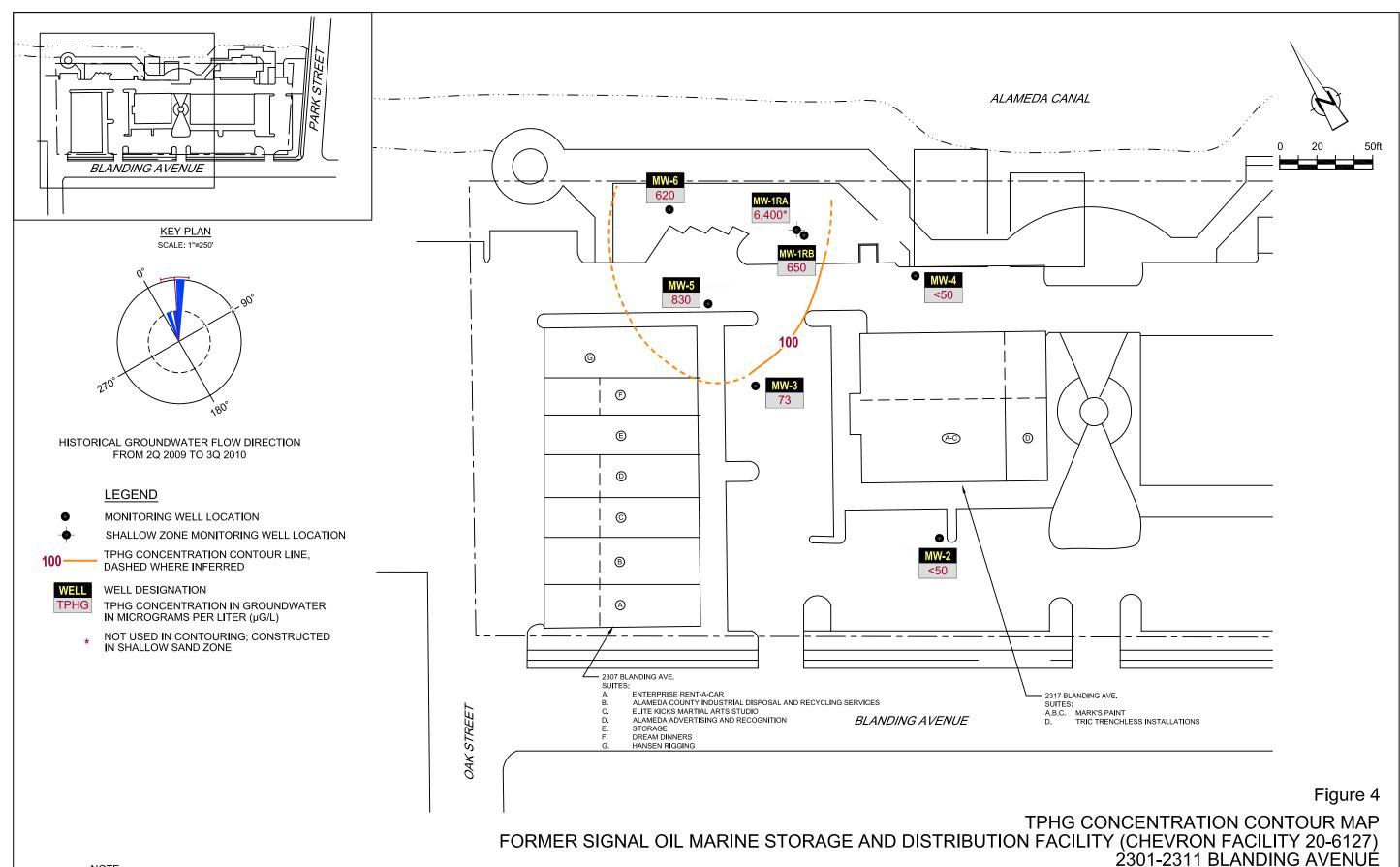






WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
ALL OTHER LOCATIONS ARE APPROXIMATE.

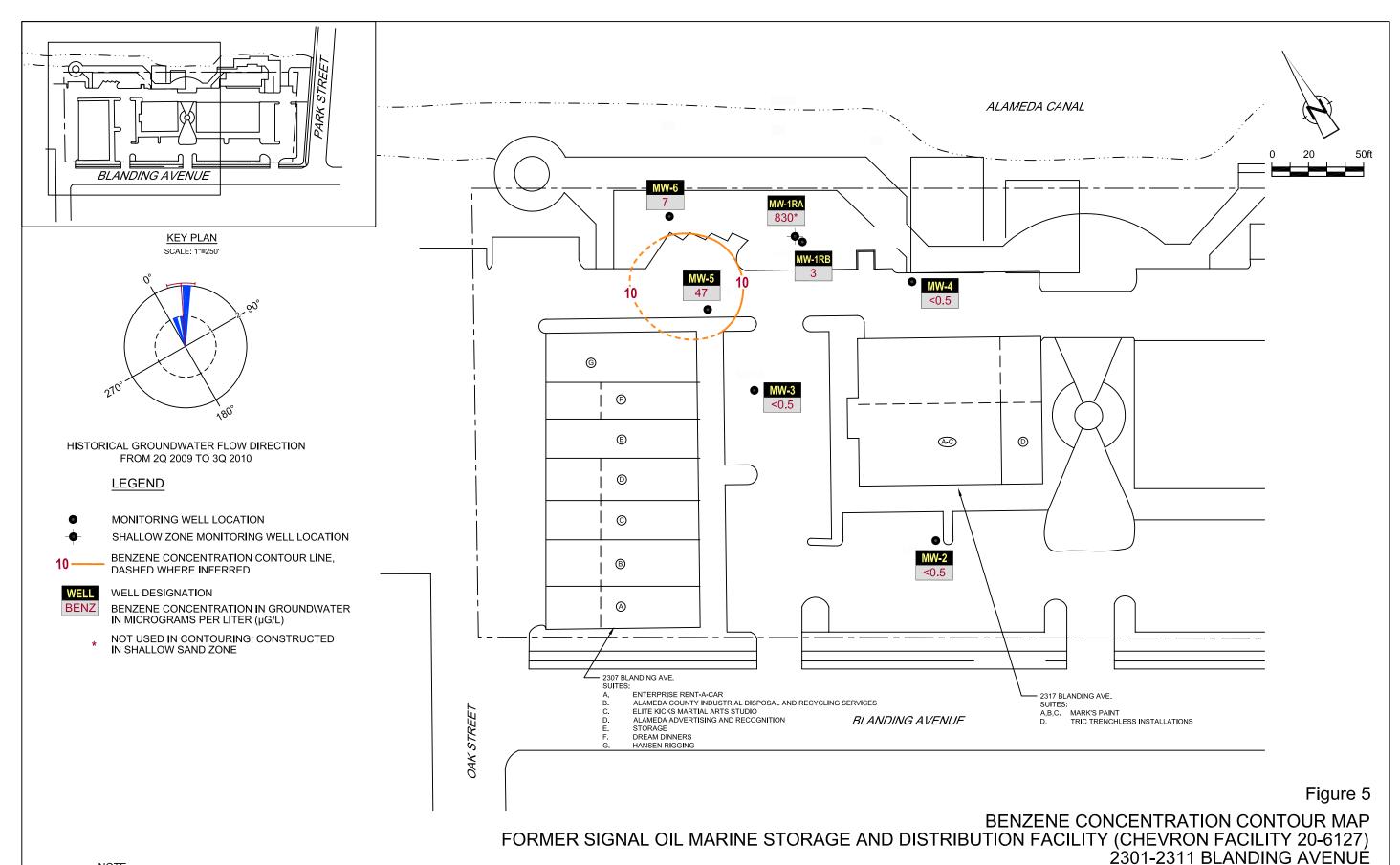
Alameda, California October 28, 2010



NOTE:

WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
ALL OTHER LOCATIONS ARE APPROXIMATE.

Alameda, California October 28, 2010



CRA)

WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
ALL OTHER LOCATIONS ARE APPROXIMATE.

Alameda, California October 28, 2010 **TABLES**

TABLE 1 Page 1 of 3

GROUNDWATER MONITORING AND SAMPLING DATA FORMER CHEVRON FACILITY 20-6127 2307 BLANDING AVENUE ALAMEDA, CALIFORNIA

					Н	YDROCARBON	NS			PRIMA	RY VOCS	
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	тРн-ско	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1 MW-1	07/21/2010 10/22/2010 ¹	13.49 13.49	9.47 -	4.02	440	-	65 J -	<0.5 -	<0.5 -	<0.5 -	<0.5 -	<0.5 -
MW-1RA	10/28/2010	13.02	9.23	3.79	-	4,000	6,400	830	22	65	20	-
MW-1RB	10/28/2010	13.21	9.00	4.21	-	1,600	650	3	<0.5	0.8	<0.5	-
MW-2	07/21/2010	10.63	4.12	6.51	65 J	-	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	10/22/2010	10.63	4.31	6.32	-	58	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	10/28/2010 ²	10.63	3.65	6.98	-	-	-	-	-	-	-	-
MW-3	07/21/2010	10.72	5.09	5.63	640	-	65 J	0.6 J	<0.5	<0.5	<0.5	-
MW-3	10/22/2010	10.72	5.32	5.40	-	570	73	<0.5	<0.5	<0.5	<0.5	-
MW-3	10/28/2010 ²	10.72	4.74	5.98	-	-	-	-	-	-	-	-
MW-4	07/21/2010	11.40	6.72	4.68	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	10/22/2010	11.40	6.87	4.53	-	91	<50	<0.5	<0.5	< 0.5	<0.5	-
MW-4	10/28/2010 ²	11.40	6.38	5.02	-	-	-	-	-	-	-	-

TABLE 1 Page 2 of 3

GROUNDWATER MONITORING AND SAMPLING DATA FORMER CHEVRON FACILITY 20-6127 2307 BLANDING AVENUE ALAMEDA, CALIFORNIA

					Н	YDROCARBON	IS			PRIMA	RY VOCS	
Location	Date	тос	DTW	GWE	TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg/L	μg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-5	07/21/2010	10.50	5.76	4.74	2,000	-	1,500	80	2	1	2	-
MW-5	10/22/2010	10.50	5.94	4.56	-	1,500	830	47	< 0.5	1	< 0.5	-
MW-5	10/28/2010 ²	10.50	5.17	5.33	-	-	-	-	-	-	-	-
MW-6	10/28/2010	12.98	8.35	4.63	-	300	620	7	<0.5	1	2	-
QA	07/21/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/22/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/28/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

 μ g/L = Micrograms per Liter

TABLE 1 Page 3 of 3

GROUNDWATER MONITORING AND SAMPLING DATA FORMER CHEVRON FACILITY 20-6127 2307 BLANDING AVENUE ALAMEDA, CALIFORNIA

					Н	YDROCARBON	NS			PRIMA	RY VOCS	
Location	Date	тос	DTW	GWE	ТРН-БКО	TPH-DRO w/ Si Gel	TPH-GRO	В	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	μg/L	µg/L	µg/L

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert butyl ether

-- = Not available / not applicable

x = Not detected above laboratory method detection limit

- * TOC elevations for all wells were surveyed on July 30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations. TOC elevations were surveyed on January 25, 2001, by Virgil Chacez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).
- Destroyed and re-installed as MW-1RB.
- Monitored only for the 10/28/10 Special Event

TABLE 2 Page 1 of 1

WELL CONSTRUCTION SPECIFICATIONS FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON BULK PLANT 20-6127) 2301-2311 BLANDING AVENUE ALAMEDA, CALIFORNIA

Well ID Monitoring	Date Installed Wells	тос	Total Depth (fbg)	Casing Diameter ¹ (inches)	Slot Size (inches)	Screen Interval (fbg)	Filter Pack (fbg)	Status
MW-1	8/15/1990	13.49	19.5	2	0.020	4-19	3-19.5	Replaced w/MW-1RB
MW-1RA	8/4/2010	13.02	13	2	0.020	8-13	7-13	Active
MW-1RB	8/4/2010	13.21	20	2	0.020	16.5-20	15.5-20	Active
MW-2	6/19/2009	10.63	18	2	0.020	10.5-15.5	10-16	Active
MW-3	6/19/2009	10.72	18.5	2	0.020	13.5-18.5	12.5-18.5	Active
MW-4	6/19/2009	11.40	20.5	2	0.020	15.5-20.5	14.5-20.5	Active
MW-5	6/23/2009	10.50	18	2	0.020	13-18	12-18	Active
MW-6	8/4/2010	12.98	20	2	0.020	16.5-20	15.5-20	Active
Vapor Well	<u>s</u>							
VP-1	7/9/2008	NS	4.25	1	0.020	3.75-4.25	3.5-4.5	Vapor only
VP-2	7/9/2008	NS	4.75	1	0.020	4.25-4.75	4-5	Vapor only
VP-3	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-4	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-5	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-6	7/9/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
Sub-Slab V	apor Probes							
VP-7	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-8	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-9	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-10	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-11	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-12	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-13	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only

Abbreviations / Notes

TOC = Top of casing elevation (feet above mean sea level)

fbg = Feet below grade

NA = Not applicable

NS = Not surveyed

¹ = Schedule 40 PVC casing material

ATTACHMENT A

MONITORING DATA PACKAGE



TRANSMITTAL

October 28, 2010 G-R #386498

TO:

Mr. Brian Silva

Conestoga-Rovers & Associates 10969 Trade Center Drive, Suite 107 Rancho Cordova, California 95670

FROM:

Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6747 Sierra Court, Suite J

Dublin, California 94568

RE: Chevron #206127

2301-2337 Blanding Avenue

Alameda, California

(Former Signal Oil Marine Terminal)

WE HAVE ENCLOSED THE FOLLOWING:

DESCRIPTION
Groundwater Monitoring and Sampling Data Package Fourth Quarter Event of October 22, 2010

COMMENTS:

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

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

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

trans/206127

WELL CONDITION STATUS SHEET

Client/Facility #:	Chevron #206127	Job#	386498
Site Address:	2301-2337 Blanding Avenue	Event Date:	10-22-10
City:	Alameda, CA	Sampler:	

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bott Flanges B= Broken S= Stripped R=Retap	APRON Condition C≃Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
mw-1		Asan	doned	and re	place	d by	2 04	her u	rells		
mw-2	O.K	o.k	ode	0.le	0.16	o.k	o.k	M.	N	12" EMCO/2	NO
mw-3							- 1	\	1	4	11
mw-4										1/	1/
MW5	\bigvee	V	V	V				V	\bigvee	1/	1/
										•	
						_					
					,,,,						
							_	=			
					-						

Comments		

STANDARD OPERATING PROCEDURE -GROUNDWATER SAMPLING

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

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

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

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

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

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

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



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #20	06127		Job N	umber:	386498			
Site Address:	2301-2337 B	landing	Avenue	Event	Date:	10-	22-1	0	(inclusive)
City:	Alameda, CA	Samp	ler:	Toe			(,		
Well ID	mw-1			D-4- M-					
Well Diameter	2 in	_	_	Date Mor	nitorea:				•
Total Depth		-		Volume Factor (VF)	3/4"= 0.02 4"= 0.66		2"= 0.17	3"= 0.38	
Depth to Water	ft.	77					6"= 1.50	12"= 5.80	}
Deptil to water	п.	-	Check if water co				ie Volume:		mal
Depth to Water	w/ 80% Recharge	(Height of	Water Column x 0	.20) + DTW]; _	VOIGING - I				
D Facilities		_				Time Sta	nrted:		(2400 hrs) (2400 hrs)
Purge Equipment:			Sampling Equipm	ent:		Depth to	Product:		(2400 M/s) ft
Disposable Bailer			Disposable Bailer			Depth to	Water:		ft
Stainless Steel Baile			Pressure Bailer			Hydroca	bon Thickne	ss:	ft
Stack Pump			Discrete Bailer	-	/	Visual Co	onfirmation/D	escription:	
Suction Pump	-		Peristaltic Pump			Skimmor	/ Absorbant	Čask (simila	
Grundfos			QED Bladder Pump	P		Amt Rem	noved from S	oock (circle kimmer:	one) gal
Peristaltic Pump		C	Other:			Amt Rem	noved from W	/ell:	gal
QED Bladder Pump	<u>-,</u>					Water Re	emoved:		
Other:						Product 1	Fransferred to):	
Start Time (purge Sample Time/Da	e): te: /			Conditions:		Odor: Y /	N		
Approx. Flow Rat	te:	gpm.	Sedimen	t Description):				
Did well de-water		yes, Time	/	/olume:	_	al. DTW @	Sampling		
Time (2400 hr.)	Volume (gal.)	p#1	Conductivity (µmhos/cm - µS			D.O. (mg/L))RP nV)	
			I ADODATOD					10	
SAMPLE ID	(#) CONTAINER	REFRIG.	LABORATOR' PRESERV. TY	Y INFORMA PE LABOR		<u> </u>	ANIALVO	\	
orum bb IV	x voa vial	YES	HCL	LANCA		TPH-GRO(801	ANALYS		
	x voa viai	YES	HCL	LANCA		TPH-GRO(801:			
1	x 500ml ambers	YES	NP	LANCA		PH-DRO w/sg	<u> </u>		
								<u>. </u>	
OMMENTS:	This we	11 has	been	replace	ed to	ite z	o the	er w	ells.
Add/Replaced L	ock:	Add/	Replaced Plug		-	Add/Replace	ed Bolt		
•					_ ′				-



WELL MONITORING/SAMPLING FIELD DATA SHEET

_	15.61 ft 4.31 ft 11.30	XVF S	Volun Facto Check if water colum 17 = 1, 9 2	r (VF) 4"= 0.6 nn is less then 0.5 x3 case volume =	02 1"= 0.04 2"= 0.17 3"= 0.38 66 5"= 1.02 6"= 1.50 12"= 5.86 0 ft. = Estimated Purge Volume:	
Well ID Well Diameter Total Depth Depth to Water Depth to Water w/ Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	MW-2 2 in 15.61 ft 4.31 ft	xVF Ø (Height of V	Volun Facto Check if water colum 17 = 1 9 2 Vater Column x 0.20)	Date Monitored: ne 3/4"= 0.0 r (VF) 4"= 0.6 nn is less then 0.5 x3 case volume =	Toe 10 -7 2 -10	B D
Well Diameter Total Depth Depth to Water Depth to Water w/ Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	2 ii 15.61 ft 4.31 ft 11.30	xVF _ Ø ·	Volun Facto Check if water colum 17 = 1 9 2 Vater Column x 0.20)	ne 3/4"= 0.0 4"= 0.6 nn is less then 0.5 x3 case volume =	02 1"= 0.04 2"= 0.17 3"= 0.38 66 5"= 1.02 6"= 1.50 12"= 5.86 0 ft. = Estimated Purge Volume:	
Total Depth Depth to Water Depth to Water w/ Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	15.61 ft 4.31 ft 11.30	xVF _ Ø ·	Volun Facto Check if water colum 17 = 1 9 2 Vater Column x 0.20)	ne 3/4"= 0.0 4"= 0.6 nn is less then 0.5 x3 case volume =	02 1"= 0.04 2"= 0.17 3"= 0.38 66 5"= 1.02 6"= 1.50 12"= 5.86 0 ft. = Estimated Purge Volume:	
Depth to Water w/ Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	4.31 #	xVF <u>Ø</u> ·	Facto Check if water column $17 = 1.92$ Nater Column x 0.20)	r (VF) 4"= 0.6 nn is less then 0.5 x3 case volume =	66 5"= 1.02 6"= 1.50 12"= 5.80 Oft. Estimated Purge Volume:	
Depth to Water w/ Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	4.31 #	xVF Ø	$\frac{17}{\text{Vater Column}} = \frac{1}{1!} \frac{9}{9} \frac{2}{2}$	x3 case volume =	Estimated Purge Volume: 6	
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	11.3 0 / 80% Recharge	xVF Ø ·	$\frac{17}{\text{Vater Column}} = \frac{1}{1!} \frac{9}{9} \frac{2}{2}$	x3 case volume =	Estimated Purge Volume: 6	
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	/ 80% Recharge	∃ [(Height of \ S	Water Column x 0.20)	+ DTW]: 6.57	7	gal.
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump		S				gai.
Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump			ampling Equipment:		Time Started:	(2400 hrs)
Stainless Steel Bailer Stack Pump Suction Pump		Γ			Time Completed:	(2400 hrs)
Stack Pump Suction Pump			isposable Bailer		Depth to Product: Depth to Water:	ft
Suction Pump			ressure Bailer		Hydrocarbon Thickness:	ft
,			iscrete Bailer eristaltic Pump		Visual Confirmation/Description	:
			ED Bladder Pump		Skimmer / Absorbant Søck (circ	le one)
Peristaltic Pump			ther:		Amt Removed from Skimmer:_ Amt Removed from Well:	gal
QED Bladder Pump					Water Removed:	gai
Other:					Product Transferred to:	
Approx. Flow Rate: Did well de-water? Time (2400 hr.) 12 35 12 40 11 45		gpm. yes, Time: pH 6.85 6.80	Sediment De Volur Conductivity (µmhos/cm - (9)) 2009 1985		gal. DTW @ Sampling: 4.4 D.O. ORP (mg/L) (mV)	49
			ABORATORY IN	FORMATION		
	#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES	
MW- 2	x voa vial	YES YES	HCL		TPH-GRO(8015)/BTEX+MTBE(8260)	
2	x 500ml ambers	YES	HCL NP	LANCASTER LANCASTER	TPH-GRO(8015)/BTEX(8260) TPH-DRO w/sg (8015)	
				BINOXOTER	11 11 21 (0 110)	
COMMENTS:						
Add/Replaced Loc			Replaced Plug:		Add/Replaced Bolt:	



WELL MONITORING/SAMPLING FIELD DATA SHEET

	Chevron #2	206127		Job Number:	386498	
Site Address:	2301-2337	Blanding	Avenue	Event Date:		(e)
City:	Alameda, C			Sampler:	Joe	,,,
Well ID	$_{\text{MW-}3}$		1	Date Monitored:	10-22-10	
Well Diameter	2 i	n.	Volum	ne 3/4"= 0.0		
Total Depth	17.89 1	t.	Facto			
Depth to Water	5.32 f		Check if water colum	n is less then 0.5	O ft.	
	12.57	xVF_O.	17 = 2.14	x3 case volume =	Estimated Purge Volume: 6 , 5 gal.	
Depth to Water v	v/ 80% Recharg	e [(Height of	Water Column x 0.20)	+ DTWJ: <u>7.8</u> 4	_	
Purge Equipment:			Sampling Equipment:		Time Started:	
Disposable Bailer			Disposable Bailer		Time Completed: (2400 Depth to Product:	hrs) ft
Stainless Steel Bailer			Pressure Bailer		Depth to Water:	ft l
Stack Pump.			Piscrete Bailer	0.5	Hydrocarbon Thickness:	ft
Suction Pump			Peristaltic Pump		Visual Confirmation/Description:	
Grundfos			ED Bladder Pump		Skimmer / Absorbant Spck (circle one)	-
Peristattic Pump			ther:		Amt Removed from Skimmer:	
QED Bladder Pump					Amt Removed from Well:	jal
Other:					Product Transferred to:	_
Start Time (purge)	: 1448		Weather Cor	aditions:	loudy	
		10.22	/o Water Color:			
Approx. Flow Rate						
• •	*****	_gpm.	Sediment De		none	
Did well de-water	? <u>~~</u> !	yes, rime	Volur	ne:	gal. DTW @ Sampling: 5 4 9	_
Time	Volume (gal.)	рН	Conductivity	Temperature	D.O. ORP	
					0.0	
(2400 hr.)	_	11-	(μmhos/cm -ŪS)	(0 / F)	(mg/L) (mV)	
1453	2	6.62	(μmhos/cm -(μS)			
1453	_	6.62	1296 1318			
1458	_	6-62 6-68 6-73	1296 1318 1315			
1453	_	6.62 6.68 6-73	1296 1318 1315			
1458	_	6.62	1296 1318 1318	18,5 18,5 18.4 18.4		
1453 1458 1503 SAMPLE ID	_	6.62 6.68 6.73 REFRIG.	1296 1318 1315 ABORATORY IN PRESERV. TYPE	18,5 18,5 18,4 18,1 FORMATION LABORATORY		7
1453	(#) CONTAINER x voa vial	YES	ABORATORY IN PRESERV. TYPE HCL	FORMATION LABORATORY LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial	YES	ABORATORY IN PRESERV. TYPE HCL	FORMATION LABORATORY LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	
1453 1458 1503 SAMPLE ID MW-2	(#) CONTAINER x voa vial x voa vial	YES YES	ABORATORY IN PRESERV. TYPE HCL HCL	FORMATION LABORATORY LANCASTER LANCASTER	(mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260) TPH-GRO(8015)/BTEX(8260)	



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #2	06127		Job Number:	386498					
Site Address:	2301-2337	Blanding	Avenue	Event Date:	10-22-10 (inclusive					
City:	Alameda, C	A		Sampler:	Joe	()				
				•		-				
Well ID	MW- 4	<u></u>		Date Monitored:	10-22-10					
Well Diameter	2 i	<u>n.</u>	Volu	me 3/4"= 0.0	02 1"= 0.04 2"= 0.17 3"= 0.3					
Total Depth	20.22 1	t	Facto	or (VF) 4"= 0.6						
Depth to Water			Check if water colur							
Depth to Water	13.35 w/ 80% Rechard	xVF xVF	Water Column x 0.20)	x3 case volume =	Estimated Purge Volume:	gal.				
	00 /0 / 100/, 4.19	e (i loight of	VValor Goldinii x 0.20)	. DIW	Time Started:	(2400 hrs)				
Purge Equipment:		\$	Sampling Equipment	:	Time Completed:	(2400 hrs)				
Disposable Bailer			Disposable Bailer		Depth to Product:	ft				
Stainless Steel Baile	er	F	Pressure Bailer		Depth to Water: Hydrocarbon Thickness:	ft				
Stack Pump			Discrete Bailer		Visual Confirmation/Description	(
Suction Pump			Peristaltic Pump		Skimmer / Absorbant Sock/(circ	1				
Grundfos			NED Bladder Pump		Amt Removed from Skimmer:	gal				
Peristaltic Pump		C	Other:		Amt Removed from Well:	gal				
QED Bladder Pump Other:					Water Removed: Product Transferred to:					
Ouler										
Start Time (purge Sample Time/Da Approx. Flow Ra Did well de-water (2400 hr.)	te: 1350 / te:	_gpm.	Weather Co Water Color Sediment Do Conductivity (µmhos/cm - (S)) 1907 1943	:clean escription:	Odor: Y / (N) None gal. DTW @ Sampling: 7./ D.O. ORP (mg/L) (mV)	0				
			LABORATORY IN	IFORMATION						
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES					
MW- Z	x voa vial		HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)					
	x voa vial x 500ml ambers	YES YES	HCL NP	LANCASTER LANCASTER	TPH-GRO(8015)/BTEX(8260) TPH-DRO w/sg (8015)					
				DANGAGIEK	11 11-21(2 W/sg (0013)					
 				ļ						
COMMENTS:										
						· · · · · · · · · · · · · · · · · · ·				
Add/Replaced L	ock:	Add/l	Replaced Plug:		Add/Replaced Bolt:	_				



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #2061	127	Job Number:	386498	
Site Address:	2301-2337 Blau	nding Avenue	Event Date:	10-22-10	— (inclusive)
City:	Alameda, CA		Sampler:	Joe	
Well ID Well Diameter Total Depth Depth to Water	MW-5 2 in. 17.92 ft. 5.94 ft. 11.98 xv v/ 80% Recharge [(H	Check if water of	Date Monitored: Volume 3/4"= 0.0 Factor (VF) 4"= 0.6 column is less then 0.5 x3 case volume = 0.20) + DTWJ: 8 3		gal. (2400 hrs) (2400 hrs) ft ft ft n: cle one) gal
QED Bladder Pump Other:		Other		Amt Removed from Well: Water Removed: Product Transferred to:	gal
Start Time (purge) Sample Time/Date Approx. Flow Rate Did well de-water Time (2400 hr.) 1542 1547	e: gpi ? If yes Volume (gal.)	m. Sedimen	t Description: /olume:	Odor: OIN Strong None gal. DTW @ Sampling: 6, (mg/L) (mV)	7
		LABORATOR	Y INFORMATION		
SAMPLE ID MW-	x voa vial	FRIG. PRESERV. TY YES HCL YES HCL YES NP		ANALYSES TPH-GRO(8015)/BTEX+MTBE(8260 TPH-GRO(8015)/BTEX(8260) TPH-DRO w/sg (8015))
COMMENTS:	Removed "h.	aic' like ro	ets from	well with steel	baile
Add/Replaced Lo	ock:	Add/Replaced Plug	j:	Add/Replaced Bolt:	

Chevron California Region Analysis Request/Chain of Custody

For Lancaster Laboratories use only



Laboratories						Acct. #: Sample # Group #:						<u>nta</u>	983									
v. Laboratories	\$\$#206127.(MI C. P#296409 Clabal ID#T060107447											-		_		sted						
Facility #:S\$#206127-OML G-R#38649	8 Global ID#	10601974	4728		Matrix	K					Pr	rese	rva	tion	Co	des		2107		Preserva	tive Cod	des
2301-2337 BLANDING AVENU	E, ALAMED	A, CA		1				H	1		\dashv	-			#					H = HCI	T = Thio	
Site Address: MB	Silva	-	1					anup							1			$N = HNO_3$ $S = H_2SO_4$	B = NaC $O = Other$			
Chevron PM: Lead G-R, Inc., 6747 Sierra Cou	94568		<u>Φ</u> Ω		ers S			90			\parallel						ŀ	☐ J value report				
Consultant/Office: Deanna L. Harding (deanna@grinc.com)					Potable NPDES		tain	8021		Silica Gel Cleanup					0					* Must meet lov	west detec	tion limits
Consultant Prj. Mgr.: 925-551-7555 Consultant Phone #:	000	FF4 7000		-			Containers) 						9	260		1			possible for 8	260 comp	ounds
Consultant Phone #:	Fax #: 925-	551-7899					ō	8260×K	83			S	Method	Method	20					8021 MTBE Cor		
Sampler: TOE A JEM!	AN		9	2			nbe		00	8	5	anate	Σ		J					☐ Confirm highe		- 1
				3		Į.	N	+ MTE	15 M	15 M	88 =	Oxygenates	ead	ed Le						☐ Confirm all hit ☐ Run oxy		
Sample Identification	Date Collected	Time Collected	Grab	Soil	Water	Ö	Total Number	BTEX + MTBE	TPH 8015 MOD GRO	TPH 8015 MOD DROK	8260 full scan		Total Lead	Dissolved Lead	100					☐ Run oxy		
Q A	Collected	Collected		0	<u>></u>		2	8	5	-	80	+	F			+	+	+	┪	Comments / F		
	10-22-10	1300			ı		8			1/			\top		/		+	\top	7		Ciliaiko	
MW-3		1518				П	8		1	V			\top	\neg	1		1		٦			
		1350					8		1	V					V				٦	Please forwar		
mw-5	V	1605	V		V		8		1	V				,	/			,	nh 2	directly to the	Lead Cons	sultant
				_		Ш					\perp	\perp	\perp	\perp				\perp				Î
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				-																		
Turnaround Time Requested (TAT) (please cit	cle)	Relingu	ished by	<i>y</i> :							ate	Tin				ed by:					Date	Time
STD. TAT 72 hour 48 hou	r	Relingu	labad by			- 1	1	_	_									146	20	FRIDGE 10	-35-17	D'Hay
24 hour 4 day 5 day		Leillich.	ISLIBU D	14/	74	hanner.		117	10-0	5-1	ate (d)	Tin	ne R	He	Celv	ed by:	راند. مستوندا	11	<i>f</i>	7	Date	Time
Data Package Options (please circle if required)		Relinqui	ished by	/:	y			1/	6-	Da	ate	Tin	ne	Re	ceiy	ed by:		and the		9	Date	Time
	EDF/EDD/	Dell'a				10			1000					-								
Type VI (Raw Data) Coelt Deliverable not nee		Relinqui		Com			rier: Other							Re	ceiv	ed by:					Date	Time
WIP (RWQCB) Disk	-x	Tempera	_	-					100				- C°			h. C	la la	4==40		V N-		
DISK		remper	ature Of	OII R	aceiht_		-			- 10				Cu	STOO	y Sea	is in	tact?		Yes No		



TRANSMITTAL

November 2, 2010 G-R #386498

TO: M

Mr. Brian Silva

Conestoga-Rovers & Associates 10969 Trade Center Drive, Suite 107 Rancho Cordova, California 95670

FROM:

Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568 **RE: Chevron #206127**

2301-2337 Blanding Avenue

Alameda, California

(Former Signal Oil Marine Terminal)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Well Development Event of October 25, 2010 and Special Event of October 28, 2010

COMMENTS:

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

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

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

trans/206127

WELL CONDITION STATUS SUFER

					AAETT (CONDITIO	ON STATUS	SHEE	Ţ		
Client/Facility #:		n #206127				_	Job #:	386498			
Site Address:			ng Avenue			_	Event Date:	10	- 25	7 - 10	-
City:	Alamed	a, CA					Sampler:		TAIG	- KEVORK	-
WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N		Pictures Taken Yes / No
MW-IRA	OK -						> OK	YES	N	MORRISON - 8" /2	NO
MW-IRB	OK-						> OK	465	N	140(00000000000000000000000000000000000	140
MW-6	oK -						>01	YES	N		
			<u> </u>			-					
			···								
Comments											
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WELL CONDITION STATUS SHEET

					**=== '	CONDING)IT 3	A103) OI	166	1							
Client/Facility #:	Chevror	1 #206127			_	_	Job #:		386	498								
Site Address:	2301-23	37 Blandiı	ng Avenue			-	Event	Date:	T	0 -	2	8	-10			_		
City:	Alameda	a, CA				_	Sampl	ler:		HA	71(3	KEVO	RK		_		
WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Boit Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	'	dition ts tight	LO	LACE OCK / N	REPL CA Y/	P		WELL VAULT facture/Size/ # of E	Bolts	-	ictu Take	en
MW-IRA							>	οK	1	1	N		MORR	150N-8"	12		N	n
MW-IRB							>	91	Ì					1301-8"		+	7	<u></u>
MW-2	0K -						>	OK						0-12"		+	+	
MW-3							>	OK							1		\dashv	
MW-4	oK -						\	oK								+	+	
MW-5	OK -						→	OK						/		+-	+	
MW-6	OK -						>	OK				/	MORR	150N-8	4 1 6	3	1	
														0		1	<u> </u>	
		**														+		
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Comments											-All-	0.00					-	-

CHEVRON #206127 (Former Signal Oil Marine Terminal) Alameda, CA

WELL DEVELOPMENT EVENT OF October 25, 2010

STANDARD OPERATING PROCEDURE –WELL DEVELOPMENT 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 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, 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.



WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#: Chevron #206127	Job Number:	386498
Site Address: 2301-2337 Blanding Ave	enue Event Date:	10 - 25 - 10 (inclusive)
City: Alameda, CA	Sampler:	HAIG K.
Well ID Well Diameter Initial Total Depth Final Total Depth Depth to Water Depth to Water w/ 80% Recharge [(Height of Water) Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump MW- IRA in. Check A VF O IT Check Check Sampl Disposable Pressure Disposable Pressure Stack Pump Suction Pump	Date Monitored: Volume 3/Factor (VF)	10-25-10 14"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80 ft.
Time Volume (2400 hr.) (gal.) PH (μπ	Sediment Description:	SUMMY Odor: (Y) N MODERATE al. DTW @ Sampling:
SAMPLE ID (#) CONTAINER REFRIG. PR	EX=0ppm, 0XY=2	1 %, H25=0.0ppm, c0=0 ppm,
	aced Plug:	Add/Replaced Bolt:



WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#:	Chevron #206127		Job Number:	386498	
Site Address:	2301-2337 Bland	ing Avenue	Event Date:	10 - 25 - 10 (inclusive)	
City:	Alameda, CA		Sampler:	HAICH	
				111116	
Well ID	MW-1RE	3 ,	Date Monitored:	10-25-10	
Well Diameter	2 in.		Jate Montored.	10-23-10	
Initial Total Dept	A 10		Volume	3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38	
Final Total Dept			Factor (VF)	4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80	
Depth to Water		Charle if water and wa	- i- i	2.4	
Depth to water	11.08 XVE	Check if water colum		4 (3	
Denth to Water	w/ 80% Recharge [(Heigh	bt of Mator Column v 0 30)		Estimated Purge Volume: gal.	-
Deptil to Water	W/ 00 /0 INECITATIVE ((Heigi	nt of water Column x 0.20)	· DIVVJ. 1774 (1	Time Started:(2400 hrs)	
Purge Equipment:		Sampling Equipment:	NIA	Time Completed: (2400 hrs)	
Disposable Bailer		Disposable Bailer	10/14	Depth to Product:ft	
Stainless Steel Baile	1/	Pressure Bailer		Depth to Water:ft Hydrocarbon Thickness:ft	
Stack Pump Suction Pump	1	Discrete Bailer		Visual Confirmation/Description:	
Grundfos		Peristaltic Pump QED Bladder Pump		Skimmer / Absorbant Sock (circle one)	
Peristaltic Pump		Other:		Amt Removed from Skimmer: gal	
QED Bladder Pump	-			Amt Removed from Well:gal Water Removed:	
Other:	· · · · · · · · · · · · · · · · · · ·			Product Transferred to:	
					
Start Time (purge): 1105	Weather Cor	nditions:	SUMNY	
Sample Time/Da	te: N/A /	Water Color:	CLOUDY	Odor: WIN MODERATE	
Approx. Flow Ra	te:gpm.	Sediment De	scription: G	RAY SAND	
Did well de-water	? <u>YES</u> If yes, T	4 80	ne:	gal. DTW @ Sampling:	
Time	Volume	1252 Conductivity	Temperature 0,	12 D.07 ORP	
(2400 hr.)	(gal.) pH	(μmhos/cm - μS)	(C) F)	(mg/L) (mV)	
1113	2 7.3	>8 > 3999	78.4		
1115	4 7.2	5 OUT OF RANG			ρΔ
1000	- 3 8	OUT OF RANG	~ 5LOW	RECOVERY-MOVED TOMW-1	RIT,
1952	O N.3		19:1	SLOW BECOVERY	
1410	12 13	0 11	18.9	VERY SLOW RECOVERY	
		·			
		And a second			
SAMPLE ID	(#) CONTAINER REFF	LABORATORY IN RIG. PRESERV. TYPE	FORMATION LABORATORY	ANALYSES	
SAMPLEID	(#) CONTAINER REF	do. PRESERV. TIPE	LABORATORT	ANALYSES	
 					
COMMENTS:	INITIAL CGLEEAD	ING. HEX = DO	DM. MYY	=21 % H75=0.000m C0=04	M
FETER PUR	GING 12 GAL.	AND DEMATE	RIAGUT	=21 %, H25=0.0 ppm, C0=01 IMES IN 3 HAS NOT BNOW	
DEVELOP ONLY	RECOVE	RY UNTIL 1	515	MILLY HANDING	-10
Add Replaced L	•	Add/Replaced Plug:	· · · · · · · · · · · · · · · · · · ·	Add/Replaced Bolt:	
	·				

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility#:	Chevron #206127		Job Number:	386498
Site Address:	2301-2337 Blandin	g Avenue	Event Date:	$10-25-10 \qquad \text{(inclusive)}$
City:	Alameda, CA		Sampler:	HAIG K.
Well ID Well Diameter Initial Total Dept	MW- 6 2 in. h 19.58 ft.		Date Monitored:	10-25-10 1/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38
Final Total Depti Depth to Water	20.02 ft.	Check if water colum	Factor (VF)	4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80
Depth to Water v	xVF 0 w/ 80% Recharge [(Height	17 = 2	x10 case volume	Estimated Purge Volume:gal.
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:	N/A	Time Started:
Start Time (purge Sample Time/Dat Approx. Flow Rat Did well de-water	e: gpm.	Weather Colors Water Colors Sediment De	CLOWD 7	SUNNY Odor(Y) N SUGHT SRAY SAND gal. DTW @ Sampling: N/A
Time (2400 hr.) 1030 1032 1036 1038 1040 1040	Volume (gal.) PH	Conductivity (µmhos/cpr-µS)	Temperature (C) F) (G) F) (D.O ORI (mV)
SAMPLE ID	(#) CONTAINER REFRIG		LABORATORY	ANALYSES
		+//		
	NITIAL CGI READIN	ig: 1+6x=(ppm, o	XY=20.9%, H25=0.0 PPM
DEVELOP ONLY				
Add/Replaced L	ock: Ad	d/Replaced Plug:		Add/Replaced Bolt:

CHEVRON #206127 (Former Signal Oil Marine Terminal) Alameda, CA

SPECIAL EVENT OF October 28, 2010



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Cnevron #206127		Job Number:	386498
Site Address:	2301-2337 Blandir	ng Avenue	Event Date:	10 - 28 - 10 (inclusive)
City:	Alameda, CA		Sampler:	HAIG K.
Well ID Well Diameter Total Depth Depth to Water	3.46 xVF	Check if water colu	x3 case volume	02 1"= 0.04 2"= 0.17 3"= 0.38 66 5"= 1.02 6"= 1.50 12"= 5.80
Depth to Water	w/ 80% Recharge [(Height	of Water Column x 0.2	0) + DTW]:	0
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:	nt:	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 Sample Time/Da Approx. Flow Rat Did well de-water	te: 200/10/2 te:gpm.	Sediment	Description: lume: Temperature C F)	PARTLY SUNNY Odor (V) N MODERATE gal. DTW @ Sampling: 9.80 ORP (prig/L) ORP
		LABORATORY	INFORMATION	
SAMPLE ID MW-\RA	(#) CONTAINER REFRI	G. PRESERV. TYP	E LABORATORY	ANALYSES TPH-GRO(8015)/BTEX(8260) TPH-DRO w/sgc (8015)
COMMENTS:				
Add/Replaced L	ock: A	dd/Replaced Plug:		Add/Replaced Bolt:



Client/Facility#: Chevron #206127	Job Number: <u>386498</u>
Site Address: 2301-2337 Blanding Avenue	Event Date: $10-28-10$ (inclusive)
City: Alameda, CA	Sampler: HAIG K.
Well ID MW-IRB	Date Monitored: 10 - 28 - 10
	ume 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38
	tor (VF) 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80
Depth to Water Off. Check if water column Average Check if water c	mn is less then 0.50 ft.
Ponth to Water w/ 90% Penharra (Vivi de Vivi d	x3 case volume = Estimated Purge Volume: gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20	
Purge Equipment: Sampling Equipmer	t: Time Started:(2400 hrs) Time Completed:(2400 hrs)
Disposable Bailer Disposable Bailer	Depth to Product:ft
Stainless Steel Bailer Pressure Bailer	Depth to Water:ft Hydrocarbon Thickness: ft
Stack Pump Discrete Bailer	Visual Confirmation/Description:
Suction Pump Peristaltic Pump	Skimmer / Absorbant Sock (circle one)
Grundfos QED Bladder Pump Peristaltic Pump Other:	Amt Removed from Skimmer: gal
Peristaltic Pump Other: QED Bladder Pump	Amt Removed from Well: gal Water Removed:
Other:	Product Transferred to:
Start Time (purge): 1105 Weather C	
	OF CLEAR Odor (V) N MODERATE
	Description:
Did well de-water? If yes, Time: 123 Vol	ume: 6 gal. DTW @ Sampling: 120
Time Volume (gal.) pH Conductivity (2400 hr.) (μmhos/cpr - μS)-	Temperature D.O OB
1110 2 1799 >2009	183
H 18 01 TA	
1123 G HILL BANGE	183
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPI	
MW-IRB x voa vial YES HCL	LANCASTER TPH-GRO(8015)/BTEX(8260)
2 x 500ml ambers YES NP	LANCASTER TPH-DRO w/sgc (8015)
	17.15.50
COMMENTS: 510W KECOVERY	- BXTRA TIME SPENT
PRIOR TO SAMPLING.	-
Add/Replaced Lock: Add/Replaced Plug:	Add/Replaced Bolt:



Client/Facility#:	Chevron #20	06127		Job Number:	386498				
Site Address:	2301-2337 B	landing	Avenue	Event Date:	10 - 28 - 10 (inclusive)				
City:	Alameda, CA	4		Sampler:	HAIG K.	,			
				_	1000				
Well ID	MW- 2	_		Date Monitored:	10-28-10				
Well Diameter	2 in	_	Volum						
Total Depth	15.6 ft		Factor						
Depth to Water	3.65th	_	Check if water colum) ft. Estimated Purge Volume:gal.				
Depth to Water			Water Column x 0.20)		A gai.				
Purge Equipment:		s	ampling Equipment:	• •	Time Started: (2400 hrs Time Completed: (2400 hrs				
Disposable Bailer			isposable Bailer		Depth to Product:ff	. 11			
Stainless Steel Baile	г	Р	ressure Bailer		Depth to Water:ft Hydrocarbon Thickness: ft				
Stack Pump		_	iscrete Bailer		Visual Confirmation/Description				
Suction Pump			eristaltic Pump		Skimmer / Absorbant Sock (circle one)	1			
Grundfos Peristaltic Pump			ED Bladder Pump		Amt Removed from Skimmer: ga				
QED Bladder Pump	/	O	ther:	/	Amt Removed from Well:ga Water Removed:	·			
Other:			M/n		Product Transferred to:				
Start Time (purge)· · ·		Weather Cor	ditions: 0	PARTLY SUNNY				
						-			
Sample Time/Date: / / Water Color:Odor: Y / N									
Approx Flow Ra	10 /	anm				-			
Approx. Flow Ra		gpm.	Sediment De	scription:		-			
Approx. Flow Ra Did well de-water			Sediment De	scription:	gal. DTW @ Sampling:	- - -			
Did well de-water	? If	yes, Time:	Sediment De Volur Conductivity	scription:	gal. DTW @ Sampling:	-			
Did well de-water			Sediment De	scription:	gal. DTW @ Sampling:	-			
Did well de-water	? If	yes, Time:	Sediment De Volur Conductivity	scription:	gal. DTW @ Sampling:	-			
Did well de-water	? If	yes, Time:	Sediment De Volur Conductivity	scription:	gal. DTW @ Sampling:	-			
Did well de-water	? If	yes, Time:	Sediment De Volur Conductivity	scription:	gal. DTW @ Sampling:	-			
Did well de-water	? If	yes, Time:	Sediment De Volur Conductivity	scription:	gal. DTW @ Sampling:	-			
Did well de-water	? If	yes, Time:	Sediment De Volur Conductivity	Scription: ne:	gal. DTW @ Sampling:	-			
Did well de-water	Volume (gal.) (#) CONTAINER	yes, Time:	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY	D.O. ORP (mg/L) (mV) ANALYSES	- - -			
Did well de-water	Volume (gal.) (#) CONTAINER x voa vial	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)	-			
Did well de-water Time (2400 hr.)	Volume (gal.) (#) CONTAINER	yes, Time:	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY	D.O. ORP (mg/L) (mV) ANALYSES	-			
Did well de-water Time (2400 hr.)	Volume (gal.) (#) CONTAINER x voa vial	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				
Did well de-water Time (2400 hr.)	Volume (gal.) (#) CONTAINER x voa vial	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				
Did well de-water Time (2400 hr.)	Volume (gal.) (#) CONTAINER x voa vial	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				
Did well de-water Time (2400 hr.)	Volume (gal.) (#) CONTAINER x voa vial	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				
Did well de-water Time (2400 hr.)	Volume (gal.) (#) CONTAINER x voa vial	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				
Did well de-water Time (2400 hr.) SAMPLE ID MW-	// Volume (gal.) (#) CONTAINER x voa vial x 500ml ambers	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				
Did well de-water Time (2400 hr.)	Volume (gal.) (#) CONTAINER x voa vial	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				
Did well de-water Time (2400 hr.) SAMPLE ID MW-	// Volume (gal.) (#) CONTAINER x voa vial x 500ml ambers	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				
Did well de-water Time (2400 hr.) SAMPLE ID MW-	// Volume (gal.) (#) CONTAINER x voa vial x 500ml ambers	yes, Time: pH REFRIG. YES	Sediment De Volur Conductivity (µmhos/em - µS) ABORATORY IN PRESERV. TYPE	Temperature (C / F) FORMATION LABORATORY LANCASTER	D.O. ORP (mg/L) (mV) ANALYSES TPH-GRO(8015)/BTEX(8260)				



Client/Facility#:	Chevron #20	J6127		Job Number:	386498				
Site Address:	2301-2337 B	landing	Avenue	Event Date:	10 - 28 - 10 (inclusive)				
City:	Alameda, CA	4		Sampler:	HAIG K.				
Well ID Well Diameter Total Depth Depth to Water	13.15		Check if water colu	or (VF) 4"= 0.6 mn is less then 0.50 x3 case volume =	6 5"= 1.02 6"= 1.50 12"= 5.80				
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:		, C F C P	Sampling Equipment Disposable Bailer Pressure Bailer Discrete Bailer Peristaltic Pump DED Bladder Pump Dther:		Time Started:				
Start Time (purge Sample Time/Da Approx. Flow Rat Did well de-water Time (2400 hr.)	te:	gpm. yes, Time	Weather Co Water Color Sediment D :Volu Conductivity (µmhos/onf - µS)	r: escription:	Odor: Y / N gal. DTW @ Sampling: D.O. ORP (mg/L) (mV)				
			APODATODY	NEODMATION					
SAMPLE ID MW-	(#) CONTAINER x voa vial x 500ml ambers	REFRIG.		LABORATORY	ANALYSES TPH-GRO(8015)/BTEX(8260) TPH-DRO W/sgc (8015)				
COMMENTO		/ 6							
Add/Replaced L	ock:	Add/	Replaced Plug: _	3	Add/Replaced Bolt:				



Client/Facility#:	Chevron #20	06127		Job Number:	386498				
Site Address:	2301-2337 B	landing	Avenue	Event Date: 10-28-10 (inclus					
City:	Alameda, CA	4		Sampler:	HAIG K.				
	1.								
Well ID	MW-4	_	[Date Monitored:	10-28-10				
Well Diameter	2 in	_	Volum	ne 3/4"= 0.0	2 1"= 0.04 2"= 0.17 3"= 0.38				
Total Depth	20.22ft	<u>. </u>	Factor	(VF) 4"= 0.6					
Depth to Water	6.38ft	Taxasaru 4.	Check if water colum						
Depth to Water	w/ 80% Recharge	_xVF [(Height of '	= Water Column x 0.20) -	x3 case volume = + DTW]:	Estimated Purge Volume: gal.				
Purge Equipment:			Sampling Equipment:	* - ()	Time Started: (2400 hrs)				
Disposable Bailer			Disposable Bailer	,	Time Completed:(2400 hrs) Depth to Product:ft				
Stainless Steel Bailer	r ——/		Pressure Bailer		Depth to Water:ft				
Stack Pump			Discrete Bailer		Hydrocarbon Thickness: ft Visual Confirmation/Descriptiop:				
Suction Pump		F	Peristaltic Pump						
Grundfos		C	ED Bladder Pump		Skimmer / Absorbant Sock (circle one) Amt Removed from Skimmer: gal				
Peristaltic Pump		C	Other:	<u> </u>	Amt Removed from Well:gal				
QED Bladder Pump Other:	/		$\Lambda \Lambda / \Omega$		Water Removed: Product Transferred to:				
Other			10(10						
Start Time (purge	N: - 4		Weather Cor		PARTLY SUNNY				
Sample Time/Da			Water Color:		PARTLY SUNNY Odor: Y/N				
Approx. Flow Rat		anm			Oddi. 17 N				
Did well de-water		gpm.	Sediment De		gal. DTW @ Sampling:				
Dia Well de-Water		yes, mile	Volui	ne	gai. DTW @ Sampling.				
Time	Volume (gal.)	рН	Conductivity	Temperature	D.O. ORP				
(2400 hr.)	(3=,		(μ m hos/cm - μS)	(C / F)	(mg/L) (mV)				
	/								
			LABORATORY IN						
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV-TYPE	LABORATORY	ANALYSES				
MW-	x voa vial x 500ml ambers	YES YES	HCL NP	LANCASTER LANCASTER	TPH-GRO(801 5)/BTEX (8260) TPH-DRO w/sgc (8015)				
				2,110,02	IN THE Wings (corts)				
	-								
COMMENTS:	M	0							
	1.0								
Add/Replaced L	.ock:	Add/	Replaced Plug:		Add/Replaced Bolt:				



Client/Facility#:	Chevron #2	06127		Job Number:	386498				
Site Address:	2301-2337 E	Blanding	Avenue	Event Date: 10 - 28 - 10 (inclusi					
City:	Alameda, C	A		Sampler:	HAIR K				
Well ID	Mw- 5			Date Monitored:	10-28-10				
Well Diameter	2 ir	_ 1.	Volui	me 3/4"= 0.0					
Total Depth	17, 92	-		or (VF) 4"= 0.6					
Depth to Water	5.17 ft		Check if water colur	nn is less then 0.5	0 ft.				
	12,75				Estimated Purge Volume:gal.				
Depth to Water	w/ 80% Recharge	(Height of	Water Column x 0.20)	+ DTW]:	Article				
Burns Fault				• /	Time Started: (2400 hrs)				
Purge Equipment:			Sampling Equipment		Time Completed: (2400 hrs) Depth to Product: ft				
Disposable Bailer Stainless Steel Bailer			Disposable Bailer Pressure Bailer		Depth to Product:ft Depth to Water:ft				
Stack Pump	'/		Piscrete Bailer		Hydrocarbon Thickness: ft				
Suction Pump			eristaltic Pump		Visual Confirmation/Description.				
Grundfos			ED Bladder Pump		Skimmer / Absorbant Sock (circle one)				
Peristaltic Pump		C	Other:		Amt Removed from Skimmer: gal Amt Removed from Well: gal				
QED Bladder Pump			A A		Water Removed: Product Transferred to:				
Other:			IVI / 0)	Troduct Transferred to				
Sample Time/Dai Approx. Flow Rai Did well de-water Time (2400 hr.)	te:	gpm. yes, Time	Water Color Sediment De Volu Conductivity (µmhos/em - µS)	escription: me: Temperature	gal. DTW @ Sampling: D.O. ORP (mg/L) (mV)				
			LABORATORY IN	FORMATION					
SAMPLE ID MW-	(#) CONTAINER x voa vial	YES	PRESERV. TYPE	LANCASTER	ANALYSES TPH-GRO(8015)/BTEX(8260)				
10100-	x 500ml ambers	YES	NP.	LANCASTER	TPH-DRO W/sgc (8015)				
			Ш						
				 					
COMMENTS:	M	0							
Add/Replaced L	ock:	Add/	Replaced Plug: _		Add/Replaced Bolt:				



	Client/Facility#:	Chevron #20	6127		Job I	Number:	386498				
	Site Address:	2301-2337 Blanding Avenue				t Date:	ate: $10-28-10$ (inclusive)				
	City:	Alameda, CA			Samı	oler:	HAL	3- K.	_		
	Well ID Well Diameter Total Depth	MW-6 2 in. 20.02 ft.			Date Mo	onitored: 3/4"= 0.02 4"= 0.66		2"= 0.17 3"= 0.3 6"= 1.50 12"= 5.8	38		
	Depth to Water Depth to Water v	/ 80% Recharge	xVF O	eck if water c	X3 cas	e volume =	Estimated Purge	Volume: 6	gal.		
	Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:		Sal Dis Pre Dis Per QE	mpling Equipm posable Bailer essure Bailer crete Bailer ristaltic Pump D Bladder Pum er:	p		Time Start Time Com, Depth to P Depth to W Hydrocarb Visual Con Skimmer / Amt Remo Water Rem	pleted:	rcle one)		
	Start Time (purge Sample Time/Dat Approx. Flow Rat Did well de-water (2400 hr.)	e: 045/10	gpm. /es, Time:	D Water C	nt Descriptio	AR in:	Odor A N gal. DTW @ S	MODER	MNY ATE 1.79	a	
_			L	ABORATOR	Y INFORM	ATION			7		
	SAMPLE ID MW-	(#) CONTAINER x voa vial x 500ml ambers	YES YES	PRESERV. TO HCL NP	YPE LABO	RATORY CASTER	TPH-GRO(8015 TPH-DRO w/sgo				
	COMMENTS:										
_	Add/Replaced L	ock:	Add/R	eplaced Plug	g:		Add/Replace	d Bolt:			

Chevron California Region Analysis Request/Chain of Custody



1962	8	19	- Ø	2
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-819-92		For Lancaster Laboratories use only		000070
0 /	Acct. #:	_ Sample #	_ Group #:	020073

								Analyses Requested												
Facility #: SS#206127-OML G-R#38649	8 Global ID#T	0601974	4728		Matrix		7	111	110	70	Pres	erva	tion	Coc	les			Preser	vative Cod	des
Site Address: 301-2337 BLANDING AVENU	E, ALAMEDA	. CA					ŀ	#		-				-		-		H = HCl N = HNO ₃	T = Thio B = NaC	
Chevron PM: MB	Consultant: CR	ASB	Silva	\vdash		\dashv			- Coo								1	$S = H_2SO_4$		
Chevron PM: MB Lead Consultant/Office: G-R, Inc., 6747 Sierra Cou	irt, Suite J, Dul	olin, CA	94568		ble		ners		ام	8					1			☐ J value repo	orting needs	ed
Consultant Prj. Mgr.: Deanna L. Harding (de	anna@grinc.c	om)		-	Potable NPDES		Containers	8021	TPH 8015 MOD DBO To Silva Gal Classin									Must meet possible for	owest detec	ction limits
Consultant Phone #925-551-7555				1			ပ္ရွိ ြ	属				В	Pg Eg					8021 MTBE C		ourius
Sampler: HAIG KEVORK		1 7000	T	1			Ser C	8260			ates	Method	Me					☐ Confirm hig		3260
oumpion.			Grab			Ą	Total Number of	BTEX + WILLIAM 8260	M M	Scan	Oxygenates	-	Dissolved Lead Method					☐ Confirm all		
	Date	Time	ap di	_	Water	I.O	Tall I	*+ X	8 8	8260 full scan	Ô	Total Lead	olved						Run oxy's on highest hit	
Sample Identification		Collected	Grab	Soil	Š	Ö,	P		Ė	828		Total	Öiss			_		☐ Run o	ky's on all h	its
MW-IRA	10/38/10	200	X	-		15	3	\Re	\mathbf{k}	-		_		+	_	-	+	Comments	Remarks	
MW-IRB		245	♦		\Diamond		0	X	X	-		_	_	+	_	-		-		*
		045	\Diamond	+-		,	욼	\mathbb{K}	\mathbb{X}	-			\dashv	-		-	+	-		
		4 4 7					4					-	_		+	-		Please forward the lab re directly to the Lead Cons		
	1.								\top	1		_	\dashv	+	+	+	+		cc. G-R.	
																		1		
				_		_	_	\perp		\perp										
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						_	+	+	-	-		\dashv	\dashv	+	-	+	-			
						+	\dashv					-	\dashv	+	+	+	+	-		
							1					+		+	+	+				
Turnaround Time Requested (TAT) (please circ	cle)	Relinqui	shed by	01	011	1)	11	12-	3 .	Date	T	ime	Re	ceive	d by:	1		ic 28	Date	Time
STD. TAT 72 hour 48 hour		Relinqui	shod by	The T	1-1/	L	12		7 11		F 1 241						eze	1 4	100114	
24 hour 4 day 5 day		Heimqui	- Uy	•						Date		ime	He	Ceive	ed by:				Date	Time
Data Package Options (please circle if required)		Relinqui	shed by:							Date	Ti	ime	Re	ceive	d by:			Alle	Date	Time
QC Summary Type I - Full	EDF/EDD	Relinquia	shad by	Comi	moroial	Corri	OF:			-			 		4.1.	100				
Type VI (Raw Data)	led	UPS		edEx			er: her_			4 =			He	Celve	d by:				Date	Time
WIP (RWQCB) Disk		Tempera	ture Up	on Re	eceipt							C°	Cu	stody	Seal	s Inte	act?	Yes No		
											100		100			J 11116		163 140		

ATTACHMENT B

LABORATORY ANALYTICAL REPORT



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

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

November 05, 2010

Project: 206127

Submittal Date: 10/26/2010 Group Number: 1217949 PO Number: 0015060859 Release Number: BAUER State of Sample Origin: CA

Client Sample Description	<u>Lancaster Labs (LLI) #</u>
QA-T-101022 NA Water	6121816
MW-2-W-101022 Grab Water	6121817
MW-3-W-101022 Grab Water	6121818
MW-4-W-101022 Grab Water	6121819
MW-5-W-101022 Grab Water	6121820

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	Chevron c/o CRA	Attn: Report Contact
COPY TO ELECTRONIC	CRA	Attn: Brian Silva
COPY TO ELECTRONIC	Chevron	Attn: Anna Avina
COPY TO		



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

Respectfully Submitted,

Robin C. Runkle Senior Specialist



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Page 1 of 1

Sample Description: QA-T-101022 NA Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 QA

LLI Group # 1217949

Account # 10904

LLI Sample # WW 6121816

Project Name: 206127

Collected: 10/22/2010 Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/26/2010 09:40 Reported: 11/05/2010 10:18

BAQA-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles SW-84	6 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	Methyl Tertiary Butyl Ethe	r 1634-04-4	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-84	6 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	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D103013AA	10/28/2010 22:21	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103013AA	10/28/2010 22:21	Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10301B20A	10/28/2010 14:52	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10301B20A	10/28/2010 14:52	Carrie E Miller	1



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Page 1 of 1

Sample Description: MW-2-W-101022 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-2

LLI Group # 1217949

LLI Sample # WW 6121817

Account # 10904

Project Name: 206127

Collected: 10/22/2010 13:00 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/26/2010 09:40 Reported: 11/05/2010 10:18

BAMW2

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	ractable TPH	SW-846	8015B	ug/l	ug/l					
06610	TPH-DRO CA C10-C28	,		58	50	1				
	DRO was detected in the method blank at a concentration of 48 ug/l . Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract.									

The DRO result for the reextract is ND.

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	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D103062AA	11/02/2010 15:	00 Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103062AA	11/02/2010 15:	00 Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10301A07A	10/28/2010 17:	26 Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10301A07A	10/28/2010 17:	26 Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si	SW-846 8015B	1	102990025A	10/28/2010 09:	04 Melissa McDermott	1
	Gel						
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102990025A	10/27/2010 10:	50 Roza S Goslawska	1



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Sample Description: MW-3-W-101022 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-3

LLI Sample # WW 6121818 LLI Group # 1217949 Account # 10904

Project Name: 206127

Collected: 10/22/2010 15:18 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/26/2010 09:40 Reported: 11/05/2010 10:18

BAMW3

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	atiles	SW-846	8015B	ug/l	ug/l	
01728	$\operatorname{TPH-GRO}$ N. CA water	C6-C12	n.a.	73	50	1
GC Ext		SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 t	w/ Si Gel	n.a.	570	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	D103062AA	11/02/2010 15:23	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103062AA	11/02/2010 15:23	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10301A07A	10/28/2010 17:52	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10301A07A	10/28/2010 17:52	Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102990025A	10/28/2010 09:32	Glorines Suarez- Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102990025A	10/27/2010 10:50	Roza S Goslawska	1



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Sample Description: MW-4-W-101022 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-4

LLI Group # 1217949

LLI Sample # WW 6121819

Account # 10904

Project Name: 206127

Collected: 10/22/2010 13:50 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/26/2010 09:40 Reported: 11/05/2010 10:18

BAMW4

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			
GC Extractable TPH SW-846 8015B ug/l ug/l w/Si Gel									
06610	TPH-DRO CA C10-C28	w/ Si Gel	n.a.	91	50	1			
	DRO was detected in the method blank at a concentration of $48~\mathrm{ug/l}$. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract.								

The DRO result for the reextract is ND.

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	9	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D103021AA	10/29/2010 1	2:45	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103021AA	10/29/2010 1	2:45	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10301A07A	10/28/2010 1	18:18	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10301A07A	10/28/2010 1	18:18	Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si	SW-846 8015B	1	102990025A	10/28/2010 0	9:59	Melissa McDermott	1
	Gel							
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102990025A	10/27/2010 1	10:50	Roza S Goslawska	1



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Sample Description: MW-5-W-101022 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-5

LLI Group # 1217949

LLI Sample # WW 6121820

Account # 10904

Project Name: 206127

Collected: 10/22/2010 16:05 by JA Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/26/2010 09:40 Reported: 11/05/2010 10:18

BAMW5

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	47	0.5	1
10943	Ethylbenzene		100-41-4	1	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 TPH-GRO N. CA water	SW-846 C6-C12	8015B	ug/1 830	ug/1 50	1
GC Ext		SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28 v	w/ Si Gel	n.a.	1,500	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.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D103021AA	10/29/2010 13	3:08 Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103021AA	10/29/2010 13	3:08 Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10301A07A	10/28/2010 18	3:44 Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10301A07A	10/28/2010 18	3:44 Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si	SW-846 8015B	1	102990025A	10/28/2010 10		1
	Gel					Rivera	
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102990025A	10/27/2010 10):50 Roza S Goslawska	1



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Quality Control Summary

Client Name: Chevron Group Number: 1217949

Reported: 11/05/10 at 10:18 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: D103013AA Benzene Ethylbenzene Methyl Tertiary Butyl Ether Toluene Xylene (Total)	Sample number N.D. N.D. N.D. N.D. N.D. N.D. N.D.	er(s): 612 0.5 0.5 0.5 0.5 0.5	21816 ug/l ug/l ug/l ug/l ug/l	93 93 95 94 95		79-120 79-120 76-120 79-120 80-120		
Batch number: D103021AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number N.D. N.D. N.D. N.D. N.D.	er(s): 612 0.5 0.5 0.5 0.5	21819-6121 ug/l ug/l ug/l ug/l	820 93 98 99 99		79-120 79-120 79-120 80-120		
Batch number: D103062AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number N.D. N.D. N.D. N.D. N.D.	er(s): 612 0.5 0.5 0.5 0.5	21817-6121 ug/l ug/l ug/l ug/l	818 94 97 99 102		79-120 79-120 79-120 80-120		
Batch number: 10301A07A TPH-GRO N. CA water C6-C12	Sample numbe	er(s): 612 50.	21817-6121 ug/l	820 118	118	75-135	0	30
Batch number: 10301B20A TPH-GRO N. CA water C6-C12	Sample numbe	er(s): 612 50.	21816 ug/l	118	118	75-135	0	30
Batch number: 102990025A TPH-DRO CA C10-C28 w/ Si Gel	Sample numbe	er(s): 612 32.	21817-6121 ug/l	820 89	94	52-126	5	20

Sample Matrix Quality Control

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

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD Max
Batch number: D103013AA	Sample	number(s)	: 6121816	UNSPK:	P1210	74			
Benzene	107	105	80-126	2	30				
Ethylbenzene	110	108	71-134	2	30				
Methyl Tertiary Butyl Ether	101	102	72-126	1	30				
Toluene	111	109	80-125	1	30				
Xylene (Total)	110	109	79-125	1	30				
Batch number: D103021AA	Sample	number(s)	: 6121819	-612182	0 UNSP	K: 612182	0		

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



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Page 2 of 3

Quality Control Summary

Client Name: Chevron Group Number: 1217949

Reported: 11/05/10 at 10:18 AM

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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
Benzene	94	92	80-126	1	30				
Ethylbenzene	99	97	71-134	2	30				
Toluene	99	99	80-125	1	30				
Xylene (Total)	99	98	79-125	1	30				
Batch number: D103062AA	Sample	number(s	s): 6121817	7-61218	18 UNSI	PK: P123596			
Benzene	102	98	80-126	4	30				
Ethylbenzene	103	101	71-134	2	30				
Toluene	107	103	80-125	4	30				
Xylene (Total)	108	105	79-125	3	30				
Batch number: 10301A07A TPH-GRO N. CA water C6-C12	Sample 118	number(s	s): 6121817 63-154	7-61218	20 UNSE	PK: P122360			
Batch number: 10301B20A TPH-GRO N. CA water C6-C12	Sample	number(s	s): 6121816 63-154	5 UNSPK	: P1218	358			

Surrogate Quality Control

4 Promofluorobonzono

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

1.2 Dichloroothano d4

Analysis Name: UST VOCs by 8260B - Water

Batch	number:	D103013AA
	Dibron	nofluoromothano

	Dibromoliuoromethane	1,2-Dichioroethane-04	roluene-a8	4-Bromoliuorobenzene	
6121816	96	94	101	104	
Blank	97	95	101	102	
LCS	97	99	100	102	
MS	95	98	101	103	
MSD	96	98	101	103	
Limits:	80-116	77-113	80-113	78-113	
Analysis	Name: UST VOCs by	y 8260B - Water			
	Name: UST VOCs by	y 8260B - Water			
		y 8260B - Water 1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
Batch nu	mber: D103021AA		Toluene-d8	4-Bromofluorobenzene	
Batch nu 6121819	mber: D103021AA Dibromofluoromethane	1,2-Dichloroethane-d4			
Batch nu 6121819 6121820	mber: D103021AA Dibromofluoromethane	1,2-Dichloroethane-d4	103	103	
Batch nu 6121819 6121820 Blank	mber: D103021AA Dibromofluoromethane	1,2-Dichloroethane-d4	103 103	103 104	
Batch nu 6121819 6121820 Blank LCS	mber: D103021AA Dibromofluoromethane	1,2-Dichloroethane-d4 95 95 94	103 103 103	103 104 101	
	mber: D103021AA Dibromofluoromethane 94 95 92 93	1,2-Dichloroethane-d4 95 95 94 97	103 103 103 104	103 104 101 101	

Toluono do

Analysis Name: UST VOCs by 8260B - Water

Batch number: D103062AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

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



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Quality Control Summary

Client Name: Chevron Group Number: 1217949

Reported: 11/05/10 at 10:18 AM

Surrogate Quality Control

6121817	92	96	99	94	
6121818	92	97	99	96	
Blank	92	96	100	95	
LCS	93	99	99	97	
MS	93	98	99	96	
MSD	94	99	99	97	
Limits:	80-116	77-113	80-113	78-113	

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

Batch number: 10301A07A

Trifluorotoluene-F

6121817 95 6121818 94 6121819 97 6121820 120 Blank 96 LCS 104 LCSD 104 MS105

Limits: 63-135

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

Batch number: 10301B20A Trifluorotoluene-F

6121816 88 Blank 87 LCS 120 LCSD 118 MS 124

Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel

Batch number: 102990025A

Orthoterphenyl

6121817 88 6121818 86 6121819 87 6121820 85 Blank 89 LCS 104 LCSD 109

Limits: 59-131

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

Chevron California Region Analysis Request/Chain of Custody



102510-03

For l	ancaster Laboratories use only		010000
Acct. #: 10904 Sample #	6121816-20	Group #:	019983

										Analyses Requested] Grp#	1217	949	
Facility #: SS#206127-OML G-R#386498	Global ID#	T0601974	4728	8 Matrix					-		P	rese	rva		Çod	es			Preservative Codes		
Site Address: 2301-2337 BLANDING AVENUE, ALAMEDA, CA								H	TT.	dnu			+	┪	T	_	╁.	1	H = HCI N = HNO ₃	T = Thio B = NaC)H
Chevron PM: MB Lead G-R, Inc., 6747 Sierra Cou	Consultant: C rt, Suite J. D	NASB Oublin, CAS	Silva 94568	-	 e :::		ers		,	Silica Gel Cleanup									S = H ₂ SO ₄ ☐ J value repor	O = Other	
Consultant/Office:				1	Potable NPDES		Containers	8260 🛭 8021		Silica					9				Must meet lo		
Consultant Phone #925-551-7555	Fax #: 925-	551-7899					o C	[X]	ဓ္ဓ	DRO X			Method	Method	682	İ			8021 MTBE Co	•	
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Explanation of Symbols and Abbreviations

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

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level 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)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	I	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 ≥ 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.

Increasie Ovelifiere

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
Ε	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

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

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

Ormania Ovalitiana

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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ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

November 05, 2010

Project: 206127

Submittal Date: 10/29/2010 Group Number: 1218745 PO Number: 0015060859 Release Number: BAUER State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-101028 NA Water	6126514
MW-1RA-W-101028 Grab Water	6126515
MW-1RB-W-101028 Grab Water	6126516
MW-6-W-101028 Grab Water	6126517

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

ELECTRONIC	CRA c/o Gettler-Ryan	Attn: Rachelle Munoz

COPY TO

ELECTRONIC Chevron c/o CRA Attn: Report Contact

COPY TO

ELECTRONIC CRA Attn: Brian Silva

COPY TO

ELECTRONIC Chevron Attn: Anna Avina

COPY TO



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

Respectfully Submitted,

Valerie L. Tomayko Group Leader



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Sample Description: QA-T-101028 NA Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 QA

LLI Group # 1218745 Account # 10904

LLI Sample # WW 6126514

Project Name: 206127

Collected: 10/28/2010 Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/29/2010 08:50 Reported: 11/05/2010 14:55

BLAQA

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	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10943	BTEX 8260B Water	SW-846 8260B	1	D103073AA	11/04/2010 03:40	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103073AA	11/04/2010 03:40	Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10305A20A	11/01/2010 19:58	Katrina T	1
						Longenecker	
01146	GC VOA Water Prep	SW-846 5030B	1	10305A20A	11/01/2010 19:58	Katrina T	1
						Longenecker	



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Page 1 of 1

Sample Description: MW-1RA-W-101028 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-1RA

LLI Sample # WW 6126515 LLI Group # 1218745 Account # 10904

Project Name: 206127

Collected: 10/28/2010 12:00 by HK Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/29/2010 08:50 Reported: 11/05/2010 14:55

BLARA

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	830	10	20
10943	Ethylbenzene		100-41-4	65	1	2
10943	Toluene		108-88-3	22	1	2
10943	Xylene (Total)		1330-20-7	20	1	2
	atiles	SW-846		ug/l	ug/l	_
01728	TPH-GRO N. CA water	C6-C12	n.a.	6,400	250	5
GC Ext	ractable TPH Gel	SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28	w/ Si Gel	n.a.	4,000	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	D103073AA	11/04/2010 04:03	Florida A Cimino	2
10943	BTEX 8260B Water	SW-846 8260B	1	D103073AA	11/04/2010 04:26	Florida A Cimino	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103073AA	11/04/2010 04:03	Florida A Cimino	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D103073AA	11/04/2010 04:26	Florida A Cimino	20
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10305A20A	11/02/2010 14:43	Katrina T Longenecker	5
01146	GC VOA Water Prep	SW-846 5030B	1	10305A20A	11/02/2010 14:43	Katrina T Longenecker	5
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103030006A	11/02/2010 12:49	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103030006A	10/31/2010 10:30	Olivia I Santiago	1



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Page 1 of 1

Sample Description: MW-1RB-W-101028 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-1RB

LLI Sample # WW 6126516 LLI Group # 1218745

Account # 10904

Project Name: 206127

Collected: 10/28/2010 12:45 by HK Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/29/2010 08:50 Reported: 11/05/2010 14:55

BLARB

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	3	0.5	1
10943	Ethylbenzene		100-41-4	0.8	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.	650	50	1
GC Ext	ractable TPH	SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28	w/ Si Gel	n.a.	1,600	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	D103073AA	11/04/2010 04:49	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103073AA	11/04/2010 04:49	Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10305A20A	11/02/2010 14:21	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10305A20A	11/02/2010 14:21	Katrina T Longenecker	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103030006A	11/02/2010 12:27	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103030006A	10/31/2010 10:30	Olivia I Santiago	1



Account

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Page 1 of 1

Sample Description: MW-6-W-101028 Grab Water

Facility# 206127 Job# 386498 GRD

2301-2337 Blanding-Alameda T06019744728 MW-6

LLI Sample # WW 6126517 LLI Group # 1218745

10904

Project Name: 206127

Collected: 10/28/2010 10:45 by HK Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Submitted: 10/29/2010 08:50 Reported: 11/05/2010 14:55

BLA06

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	7	0.5	1
10943	Ethylbenzene		100-41-4	1	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	2	0.5	1
	L atiles TPH-GRO N. CA water	SW-846	8015B	ug/l 620	ug/1 50	1
01/20	IPH-GRO N. CA Water	C6-C12	II.a.	620	50	1
GC Ext	cractable TPH Gel	SW-846	8015B	ug/l	ug/l	
06610	TPH-DRO CA C10-C28	w/ Si Gel	n.a.	300	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	D103073AA	11/04/2010 05:11	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103073AA	11/04/2010 05:11	Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10305D20A	11/02/2010 21:10	Butch A Sokolowsk:	i 1
01146	GC VOA Water Prep	SW-846 5030B	1	10305D20A	11/02/2010 21:10	Butch A Sokolowsk	i 1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	103030006A	11/02/2010 12:05	Melissa McDermott	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	103030006A	10/31/2010 10:30	Olivia I Santiago	1



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Quality Control Summary

Client Name: Chevron Group Number: 1218745

Reported: 11/05/10 at 02:55 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: D103073AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample number N.D. N.D. N.D. N.D. N.D.	er(s): 612 0.5 0.5 0.5 0.5	6514-6126 ug/l ug/l ug/l ug/l	517 86 88 91 91		79-120 79-120 79-120 80-120		
Batch number: 10305A20A TPH-GRO N. CA water C6-C12	Sample number N.D.	er(s): 612 50.	6514-6126 ug/l	516 109	118	75-135	8	30
Batch number: 10305D20A TPH-GRO N. CA water C6-C12	Sample numbe	er(s): 612 50.	6517 ug/l	118	109	75-135	8	30
Batch number: 103030006A TPH-DRO CA C10-C28 w/ Si Gel	Sample number N.D.	er(s): 612 32.	6515-6126 ug/l	517 88	90	52-126	3	20

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D103073AA Benzene Ethylbenzene Toluene Xylene (Total)	Sample 87 91 92 94	number(s) 96 100 101 103	: 6126514 80-126 71-134 80-125 79-125	-61265 9 10 9 9	17 UNSP 30 30 30 30 30	K: P125063			
Batch number: 10305A20A TPH-GRO N. CA water C6-C12	Sample 118	number(s)	: 6126514 63-154	-61265	16 UNSP	K: P127876			
Batch number: 10305D20A TPH-GRO N. CA water C6-C12	Sample 127	number(s)	: 6126517 63-154	UNSPK	: P1265	26			

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water Batch number: D103073AA

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



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Quality Control Summary

Client Name: Chevron Group Number: 1218745

Reported: 11/05/10 at 02:55 PM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
6126514	89	94	100	93	
6126515	88	93	100	99	
6126516	88	93	99	98	
6126517	88	93	100	99	
Blank	90	95	99	95	
LCS	90	96	100	97	
MS	90	97	99	96	
MSD	90	97	100	97	
Limits:	80-116	77-113	80-113	78-113	

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

Batch number: 10305A20A

Trifluorotoluene-F

6126514 87 6126515 102 6126516 106 Blank 87 LCS 120 LCSD 117 MS 120

63-135 Limits:

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

Batch number: 10305D20A Trifluorotoluene-F

6126517 107 Blank 87 120 LCS LCSD 112 MS 119

63-135 Limits:

Analysis Name: TPH-DRO CA C10-C28 $\ensuremath{\text{w}/\text{ Si}}$ Gel Batch number: 103030006A

Orthoterphenyl

6126515 90 6126516 83 6126517 88 83 LCS 93 LCSD

Limits: 59-131

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

Chevron California Region Analysis Request/Chain of Custody



1\$2814-\$2

Acct. #: 10904

For Lancaster Laboratories use only Sample # 6126514-17

Group #: 020073

											Α	naly	ses	Req	uest	ed			G# 13	21874	7
Facility #: SS#206127-OML G-R#38649	8 Global iD#	T0601974	4728	ı	Matrix			••			P	rese	erva	tion	Code	8			Pres	ervative C	odes
Site Address:2301-2337 BLANDING AVENU							ł	Ħ	#	đ			\dashv	+		+			H = HCI N = HNO ₃	B = N	niosulfate aOH
Chevron PM: MB Lead	RASB	Silva				ړ			Sea			Ш						S = H ₂ SO ₄	0 = 0	ther	
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Consultant Prj. Mgr.:	eanna@grind	.com)					ğ	8021		Š	,								possible f	or 8260 co	npounds
Consultant Phone #925-551-7555	Fax #:925-	551-7899						8260	8	핥			Method	etho					8021 MTBE	Confirmation	on .
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Sample Identification	Date Collected	Time Collected	Grab Composite	Soil	Water	□ iōl.	Total Number of	BTEX +	TPH 8015 MOD GRO	PH 80	8260 full scan		Total Lead	Dissolved Lead Method					☐ Run ☐ Run		
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MW-IRB	1245	X		X		8	X	\mathbf{X}	X												
MW-6	V	1045 X 8 X X								Please for	ward the la	b results									
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Turnaround Time Requested (TAT) (please ci	rcle)	Relingui	shed by:	24	2(),		M.		3	וא	Pate 28	Ti	me 134	Re	ceive	d by:	ly	/	1	8 OCIL	Time 1340
STD. TAT 72 hour 48 hou 24 hour 4 day 5 day	r	Relinqui		/ /			ص			1 4		7		Re	ceive	d by:	t	1-		Date	
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Data Package Options (please circle if required)		Relinqui	shed by:		,	and the second of the second o					Date	Ti	me	Re	COIVE	hy:	-		Ma ₂ ,	Date	Time
QC Summary Type I - Full Type VI (Raw Data) □ Coelt Deliverable not nee	EDF/EDD	Relinqui	shed by	Com	mercial	Carr	rier:			<u>-!</u>	•	٠		Re	ceive	v:		#		Date	Time
Type VI (Raw Data) ☐ Coelt Deliverable not nee WIP (RWQCB)	ded	UPS	F	69Ex	P		ther_						_			Mü	W	V		[ાર્ગિથી	4 0850
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Explanation of Symbols and Abbreviations

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

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level 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)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	I	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 ≥ 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.

Increasie Ovelifiere

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
Ε	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

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

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

Ormania Ovalitiana

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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ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1 Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/	TOC*	DTW	GWE	TPH-DRO	TPH-GRO	В	T	E	X	MTBE
DATE	(fl.)	(fL)	(msl)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)
MW-1										
01/23/01		7.16		$1,100^{2,3}$	5,210 ⁴	868	<50.0	<50.0	<50.0	<250
04/09/01	10.62	8.12	2.50	1,200 ⁶	3,000 ⁵	920	<20	<20	<20	<100
07/30/01	10.62	9.15	1.47	550 ^{3,8}	2,0007	730	13	<5.0	<5.0	<25
10/08/01	10.62	7.86	2.76	2,200°	1,200	120	2.4	5.9	6.4	<2.5
01/13/02	10.62	7.02	3.60	3,300 ³	930	320	0.78	0.87	3.8	<2.5
04/08/02	10.62	9.60	1.02	1,200 ³	960	50	1.4	2.6	9.0	<2.5
07/31/02	10.62	9.27	1.35	$2,800^3$	930	64	1.4	1.9	11	<5.0
10/15/02	10.62	8.00	2.62	1,000 ³	620	25	0.78	1.4	4.3	<2.5
01/14/03	10.62	7.05	3.57	960 ³	1,600	20	1.3	1.3	<1.5	<2.5
04/15/03	10.62	8.02	2.60	920 ³	870	56	1	1.4	3.1	<2.5
07/16/03 ¹⁰	10.62	10.08	0.54	1,400 ³	780	85	1	0.8	0.7	<0.5
10/18/03 ¹⁰	10.62	8.51	2.11	1,200 ³	640	42	0.8	<0.5	0.5	<0.5
01/22/04 ¹⁰	10.62	8.95	1.67	1,500 ³	440	18	<0.5	<0.5	<0.5	<0.5
04/23/04 ¹⁰	10.62	8.95	1.67	2,200 ³	410	10	<0.5	<0.5	<0.5	<0.5
07/23/04 ¹⁰	10.62	9.21	1.41	1,800 ³	400	6	<0.5	<0.5	<0.5	<0.5
10/22/04 ¹⁰	10.62	8.36	2.26	$2,200^3$	150	2	<0.5	<0.5	<0.5	<0.5
01/28/05 ¹⁰	10.62	7.09	3.53	1,200 ³	55	8	<0.5	<0.5	<0.5	<0.5
04/26/05 ¹⁰	10.62	7.84	2.78	480 ³	<50	5	<0.5	<0.5	<0.5	<0.5
07/1 <i>5</i> /05 ¹⁰	10.62	8.12	2.50	610 ^{3,11}	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05 ¹⁰	10.62	8.07	2.55	9203,12	<50	10	<0.5	<0.5	<0.5	<0.5
01/12/06 ¹⁰	10.62	6.98	3.64	9603,12	<50	6	<0.5	<0.5	<0.5	<0.5
04/13/06 ¹⁰	10.62	7.04	3.58	$1,200^3$	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ¹⁰	10.62	7.13	3.49	1,200 ³	92	14	<0.5	<0.5	<0.5	<0.5
10/17/06 ¹⁰	10.62	7.64	2.98	990 ³	<50	3	<0.5	<0.5	<0.5	<0.5
01/16/0710	10.62	7.09	3.53	840 ³	83	4	<0.5	<0.5	<0.5	<0.5
04/17/07 ¹⁰	10.62	7.11	3.51	1,200 ³	57	<0.5	<0.5	<0.5	<0.5	<0.5
)7/17/07 ¹⁰	10.62	7.41	3.21	1,100 ³	120	8	<0.5	<0.5	<0.5	<0.5
10/16/07 ¹⁰	10.62	7.55	3.07	750 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08 ¹⁰	10.62	6.98	3.64	1,700 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08 ¹⁰	10.62	7.36	3.26	1,100 ³	62	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08 ¹⁰	10.62	7.89	2.73	580 ³	93	3	<0.5	<0.5	<0.5	<0.5
10/15/08 ¹⁰	10.62	7.46	3.16	740 ³	56	0.7	<0.5	<0.5	0.8	<0.5

Table 1 Groundwater Monitoring Data and Analytical Results Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue Alameda, California

	Thunesa, Camorna													
WELL ID/	TQC*	DTW	GWE	TPH-DRO	TPH-GRO	В	T	E	X	MTBE				
DATE	(fl.)	(ft.)	(msl)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)				
MW-1 (cont)										-5/5/7///				
01/21/0910	10.62	7.19	3.43	390 ³	<50	< 0.5	< 0.5	<0.5	<0.5	< 0.5				
04/15/09 ¹⁰	10.62	6.93	3.69	1,4003	80	0.7	<0.5	<0.5	<0.5	<0.5				
07/03/0910	13.49	8.08	5.41	1,3003	51	<0.5	<0.5	<0.5	<0.5	<0.5				
10/01/0910	13.49	9.52	3.97	1,5003	86	<0.5	<0.5	<0.5	<0.5	<0.5				
01/19/1010	13.49	7.64	5.85	3403,15	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
04/26/10 ¹⁰	13.49	9.20	4.29	8203	66	<0.5	<0.5	<0.5	<0.5	<0.5				
MW-2														
06/30/09 ¹	10.63	3.80	6.83	••						==				
07/03/09 ¹⁴	10.63	3.91	6.72	<50 ³	<50	<0.5	< 0.5	< 0.5	< 0.5					
10/01/09 ¹⁴	10.63	4.11	6.52	<50 ³	<50	<0.5	<0.5	< 0.5	<0.5	55 55				
01/19/10 ¹⁴	10.63	3.90	6.73	<50 ³	<50	<0.5	<0.5	< 0.5	<0.5	2.44				
04/26/10 ¹⁴	10.63	4.08	6.55	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	-				
MW-3														
06/30/09 ¹	10.72	4.61	6.11		80					-				
)7/03/09 ¹⁴	10.72	4.57	6.15	170 ³	310	1	< 0.5	2	< 0.5	-				
10/01/09 ¹⁴	10.72	5.22	5.50	$1,000^3$	52	< 0.5	< 0.5	<0.5	<0.5	120				
)1/19/10 ¹⁴	10.72	4.84	5.88	$1,800^3$	120	2	< 0.5	< 0.5	< 0.5	875				
)4/26/10 ¹⁴	10.72	4.86	5.86	1,700 ³	170	2	<0.5	<0.5	<0.5	: 				
MW-4														
	11.40													
6/30/09 ¹	11.40	6.02	5.38							722				
07/03/09 ¹⁴	11.40	5.85	5.55	<50 ³	<50	<0.5	<0.5	<0.5	< 0.5	**				
0/01/09 ¹⁴	11.40	6.95	4.45	370 ³	<50	<0.5	<0.5	<0.5	<0.5	-				
1/19/10 ¹⁴	11.40	6.22	5.18	1103	<50	<0.5	<0.5	<0.5	<0.5	**				
)4/26/10 ¹⁴	11.40	6.61	4.79	210 ^{5,17}	<50	<0.5	<0.5	< 0.5	<0.5	-				

Table 1 Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal) 2301-2337 Blanding Avenue Alameda, California

AT THE STATE OF TH	Alameta, Camorna													
WELL ID/	TQC*	DTW	GWE	TPH-DRO	TPH-GRO	B	T	E	X	МТВЕ				
DATE	(fi.)	(fl.)	(msl)	(µg/L)	(ng/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)				
MW-5									ī—					
06/30/091	10.50	5.20	5.30	***	***			-	82					
07/03/0914	10.50	5.17	5.33	110 ³	930	33	2	0.6	3					
10/01/0914	10.50	5.66	4.84	2,500 ³	1,800	57	3	0.9	5	970 G				
01/19/1014	10.50	5.48	5.02	$2,600^3$	2,200	74	4	1	5	===				
04/26/1014	10.50	5.91	4.59	1,7003	2,200	94	4	2	5	= /5				
CS-2														
07/30/01	(42)		_	140 ^{3,5}	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5				
10/08/01		(55.0)		53 ⁹	<50	<0.50	<0.50	<0.50	<1.5	<2.5				
01/13/02		***		<50 ³	<50	< 0.50	<0.50	<0.50	<1.5	<2.5				
04/08/02	**			77 ³	<50	< 0.50	<0.50	<0.50	<1.5	<2.5				
07/31/02	-	970		<50 ³	<50	< 0.50	< 0.50	<0.50	<1.5	<2.5				
10/15/02		***	-	<50 ³	<50	< 0.50	<0.50	<0.50	<1.5	<2.5				
01/14/03	**		144	<50 ³	<50	< 0.50	< 0.50	<0.50	<1.5	<2.5				
04/15/03	**	-	(77.0)	<50 ³	<50	< 0.5	<0.5	<0.5	<1.5	<2.5				
07/16/03 10	-	77.0	-	<50 ³	<50	< 0.5	0.7	<0.5	0.6	<0.5				
10/18/0310	-	11 8	**	<50 ³	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5				
01/22/0410	-	200	-	<50 ³	<50	< 0.5	<0.5	< 0.5	<0.5	<0.5				
04/23/0410		375.0	**	<50 ³	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5				
07/23/0410	-		**	<50 ³	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5				
10/22/0410			-	<50 ³	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5				
01/28/0510	-	754		<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
04/26/0510	111 1	***	***	<50 ³	<50	<0.5	< 0.5	<0.5	<0.5	<0.5				
07/15/0510	-	**	2500	<50 ³	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5				
10/14/0510	-	==	57 8	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
01/12/0610	-	-	##00	<50 ³	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5				
04/13/06 ¹⁰	21 24	22		<50 ³	<50	<0.5	< 0.5	<0.5	<0.5	<0.5				
07/13/0610			-	140 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5				
10/17/06 ¹⁰	558	3.44	**	<50 ³	<50	< 0.5	< 0.5	< 0.5	<0.5	<0.5				
01/16/07 ¹⁰	**	1044	255	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				
04/17/07 ¹⁰	25		-	<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5				

Table 1 Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

Alameda, California													
WELL ID/	TQC*	DTW	GWE	TPH-DRO	TPH-GRO	В	T	E	X	MTBE			
DATE	(fl.)	(ft.)	(msl)	(μg/ L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)			
CS-2 (cont)													
07/17/07 ¹⁰				<50 ³	<50	<0.5	< 0.5	< 0.5	< 0.5	< 0.5			
10/16/07 ¹⁰	••	••		<50 ³	<50	< 0.5	<0.5	<0.5	< 0.5	<0.5			
01/16/08 ¹⁰	••	••		85 ³	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5			
04/16/08 ¹⁰	••			<50 ³	<50	<0.5	< 0.5	< 0.5	< 0.5	<0.5			
07/16/08 ¹⁰				<50 ³	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5			
10/15/08 ¹⁰				<50 ³	<50	< 0.5	< 0.5	<0.5	< 0.5	<0.5			
)1/21/09 ¹⁰				<50 ³	<50	<0.5	<0.5	<0.5	< 0.5	<0.5			
04/15/09 ¹⁰	••	••		86 ³	<50	< 0.5	<0.5	<0.5	< 0.5	<0.5			
07/03/09 ¹⁰		••		<50 ³	<50	<0.5	<0.5	<0.5	<0.5	<0.5			
10/01/09 ¹⁰		••		<50 ³	<50	< 0.5	<0.5	<0.5	<0.5	<0.5			
01/19/10 ¹⁰				210 ^{3,16}	<50	< 0.5	<0.5	<0.5	<0.5	<0.5			
ГRIP BLANK ГВ-LВ													
TB-LB 01/23/01													
04/09/01	1575	150	8 77 3	200	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50			
07/30/01		_	122	**************************************	<50	<0.50	<0.50	<0.50	<0.50	<2.5			
QA				-	<50	< 0.50	<0.50	<0.50	< 0.50	<2.5			
0/08/01	0.000				-20								
1/13/02	-		_	1600V	<50	<0.50	<0.50	<0.50	<1.5	<2.5			
14/08/02	-			-	<50 <50	<0.50	<0.50	<0.50	<1.5	<2.5			
7/31/02		-	552	55 E	<50 <50	<0.50	<0.50	<0.50	<1.5	<2.5			
0/15/02		-	-	-	<50 <50	<0.50 <0.50	<0.50	<0.50	<1.5	<2.5			
1/14/03	**	-			<50		<0.50	<0.50	<1.5	<2.5			
4/15/03	(##)		(75) (**)	550 E	<50 <50	<0.50 <0.5	<0.50	<0.50	<1.5	<2.5			
7/16/03 ¹⁰	-	-775 0 1 110 0	-		<50 <50	<0.5 <0.5	<0.5	<0.5	<1.5	<2.5			
0/18/03 ¹⁰	722	_	_		<50 <50	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5			
1/22/04 ¹⁰		-		777.// 27 7	<50 <50	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5			
4/23/04 ¹⁰		**	***	=	<50	<0.5	<0.5	<0.5	<0.5	<0.5			
7/23/04 ¹⁰		228	4	2	<50 <50	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5			
0/22/04 ¹⁰	••		-		<50 <50	<0.5	<0.5	<0.5	<0.5	<0.5			
		55535	26.0	700	~30	~ U.J	~ 0.3	<0.5	< 0.5	< 0.5			

Table 1 Groundwater Monitoring Data and Analytical Results Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue Alameda, California

WELL ID/ DATE	TOC*	DTW (fl.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (ag/L)	В (µg/L)	Τ (μg/L)	E (pg/L)	X (µg/L)	MTBE (μg/L)
QA (cont)										
01/28/0510	••	••	**		<50	<0.5	<0.5	< 0.5	< 0.5	<0.5
4/26/0510		••		••	<50	<0.5	<0.5	<0.5	<0.5	<0.5
7/15/05 ¹⁰			••	-	<50	<0.5	< 0.5	<0.5	<0.5	<0.5
0/14/0510		••		••	<50	< 0.5	<0.5	<0.5	<0.5	<0.5
1/12/06 ¹⁰					<50	<0.5	<0.5	< 0.5	<0.5	<0.5
4/13/06 ¹⁰					<50	< 0.5	<0.5	< 0.5	<0.5	<0.5
7/13/06 ¹⁰					<50	< 0.5	<0.5	<0.5	<0.5	<0.5
0/17/06 ¹⁰			••		<50	< 0.5	<0.5	< 0.5	<0.5	<0.5
1/16/07 ¹⁰		••			<50	< 0.5	<0.5	<0.5	<0.5	< 0.5
4/17/07 ¹⁰					<50	< 0.5	<0.5	< 0.5	<0.5	< 0.5
7/17/07 ¹⁰			••	••	<50	< 0.5	<0.5	<0.5	<0.5	< 0.5
0/ 16/07¹⁰				••	<50	< 0.5	< 0.5	<0.5	<0.5	<0.5
1/16/0810			••		<50	<0.5	< 0.5	<0.5	<0.5	< 0.5
4/16/08 ¹⁰			••		<50	< 0.5	<0.5	<0.5	< 0.5	< 0.5
7/16/08 ¹⁰			••	**	<50	<0.5	<0.5	<0.5	<0.5	<0.5
0/15/08 ¹⁰	••				<50	< 0.5	< 0.5	<0.5	<0.5	< 0.5
1/21/09 ¹⁰	••				<50 ¹³	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
4/15/09 ¹⁰				••	<50	< 0.5	<0.5	< 0.5	<0.5	<0.5
7/03/09 ¹⁰	**	40.00			<50	< 0.5	<0.5	<0.5	<0.5	<0.5
0/01/09 ¹⁰	***	••		••	<50	< 0.5	<0.5	<0.5	<0.5	<0.5
1/19/10 ¹⁰	••				<50	<0.5	<0.5	<0.5	<0.5	< 0.5
4/2 6/10 ¹⁰				**	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal) 2301-2337 Blanding Avenue Alameda, California

EXPLANATIONS:

TOC = Top of Casing

DRO = Diesel Range Organics

MTBE = Methyl Tertiary Butyl Ether

(ft.) = Feet

GRO = Gasoline Range Organics

 $(\mu g/L)$ = Micrograms per liter

DTW = Depth to Water

B = Benzene

-- = Not Measured/Not Analyzed

GWE = Groundwater Elevation

T = Toluene

CS-2 = Creek Sample

(msl) = Mean sea level

E = Ethylbenzene

QA = Quality Assurance/Trip Blank

TPH = Total Petroleum Hydrocarbons

X = Xylenes

- * TOC elevations for all wells were surveyed on July 30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations.

 TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).
- Well development performed.
- Laboratory report indicates unidentified hydrocarbons <C16.</p>
- Analyzed with silica gel cleanup.
- Laboratory report indicates weathered gasoline C6-C12.
- 5 Laboratory report indicates discrete peaks.
- Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.</p>
- Laboratory report indicates gasoline C6-C12.
- Laboratory report indicates unidentified hydrocarbons C9-C24.
- Analysis performed without silica gel cleanup although was requested on the Chain of Custody.
- 10 BTEX and MTBE by EPA Method 8260.
- Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.
- Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
- Laboratory report indicates the original analysis was performed on an instrument where the ending calibration standard failed the method criteria. The sample was originally analyzed approximately 60 minutes after the LCS/LCSD. The LCS/LCSD showed good GRO recovery and the surrogate recovery for this sample was 85%. The sample was reanalyzed from a vial with headspace since only 1 vial was submitted. The results for the original and the reanalysis were similar. The reanalysis was reported.
- BTEX by EPA Method 8260.
- Laboratory report indicates DRO was detected in the method blank at a concentration of 38 μg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
- Laboratory report indicates DRO was detected in the method blank at a concentration of 38 μg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The DRO result for the reextract is 96 μg/L.
- Laboratory report indicates DRO was detected in the method blank at a concentration of 47 μg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Table 2

Groundwater Analytical Results - Metals

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

The second second	Timilous, Cultolitu																
WELL ID/ DATE	(Lg/L)	y Arsenic	Barrium (ng/L)	(7/80)	Codmins (1/84)	Chromium	(L/ga)	Copper	(Lead	Molybdenum	Nickel	Selenium (1/84)	Janiks (Jug/L)	(ng/L)	Vanadium	(1/84)	Mercary
MW-2 07/03/09	<9.7	<7.2	28.1	<1.4	<2.0	14.6	<2.1	<2.7	<6.9	<4.9	10.6	<8.9	<2.3	<14.0	12.6	11.6	<0.056
MW-3 07/03/09	<9.7	<7.2	143	<1.4	<2.0	8.5	<2.1	3.3	<6.9	<4.9	7.8	<8.9	<2.3	<14.0	13.8	18.8	<0.056
MW-4 07/03/09	<9.7	<7.2	83.5	<1.4	<2.0	10.0	<2.1	<2.7	<6.9	<4.9	4.5	<8.9	<2.3	<14.0	6.3	15.8	<0.056
MW-5 07/03/09	<9.7	32.7	148	<1.4	<2.0	<3.4	<2.1	3.1	<6.9	<4.9	3.6	<8.9	<2.3	<14.0	<2.5	19.2	<0.056

EXPLANATIONS

 $(\mu g/L)$ = Micrograms per liter

ANALYTICAL METHODS:

Metals analyzed by EPA Method SW-846 6010B Mercury analyzed by Method SW-7470A