

Mark Horne Project Manager Marketing Business Unit Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 790-3964 markhorne@chevron.com

RECEIVED By Alameda County Environmental Health 9:02 am, Feb 08, 2016

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

Re: Former Texaco Service Station No. 359766 2700 23rd Avenue Oakland, CA

I have reviewed the attached report titled Fourth Quarter 2015 Groundwater Monitoring and Sampling Report

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

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

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

Sincerely,

May E Ham

Mark Horne Project Manager

Attachment: Fourth Quarter 2015 Groundwater Monitoring and Sampling Report

GHD

February 4, 2016

Reference No. 062086

Ms. Karel Detterman Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Fourth Quarter 2015 Groundwater Monitoring and Sampling Report Former Texaco Service Station 359766 2700 23rd Avenue Oakland, California ACEH Case RO0003098

Dear Ms. Detterman:

GHD Services Inc. (GHD) is submitting this *Fourth Quarter 2015 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California. Blaine Tech's *Fourth Quarter 2015 Groundwater Monitoring* data package is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and current data are shown on Figure 2. Eurofins Lancaster Laboratory Environmental, LLCs' of Lancaster, Pennsylvania *Analytical Results* report is included as Attachment B. Please contact Nathan Lee (925) 849-1003 if you have any questions or require additional information.

Cordially,

GHD

g. GL

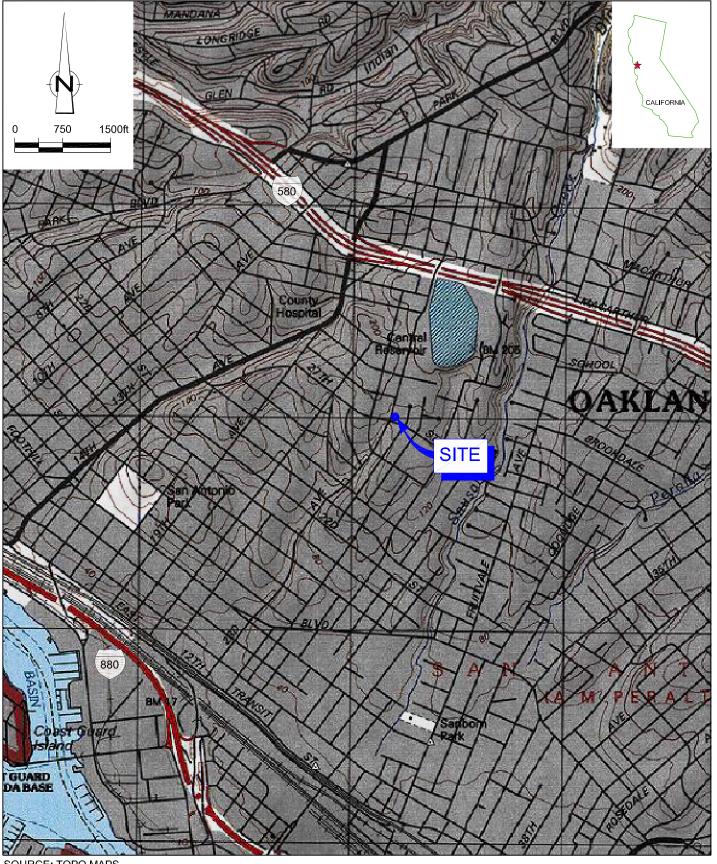


Greg Barclay, PG 6260

CH/mws/7 Encl.

Figure 1 Figure 2	Vicinity Map Groundwater Elevation Contour and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
	Monitoring Data Package Laboratory Analytical Report
	k Horne, Chevron <i>(electronic copy)</i> Ind Maria Pulildo, Property Owner

Figures



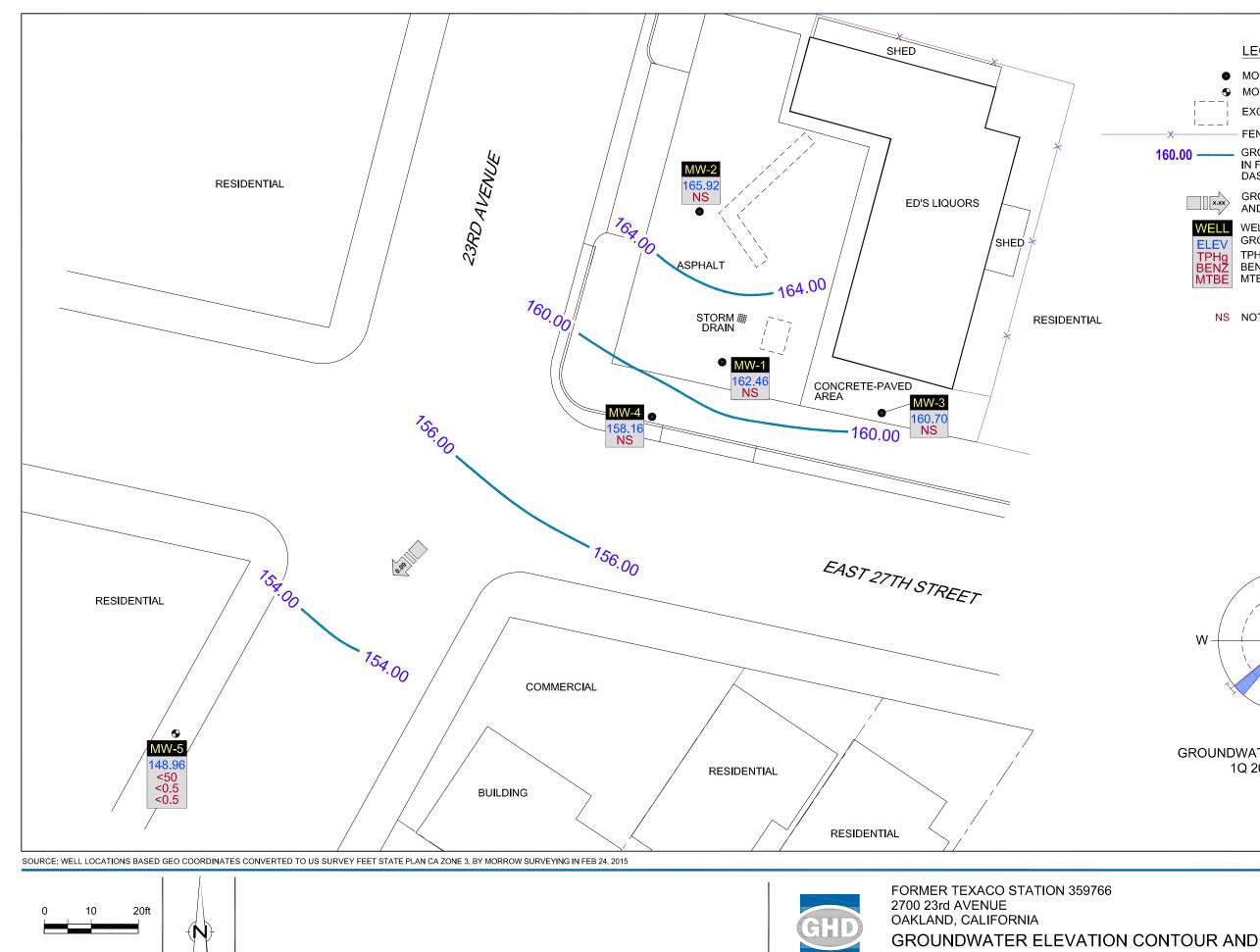
SOURCE: TOPO MAPS



FORMER TEXACO STATION 359766 2700 23rd AVENUE OAKLAND, CALIFORNIA 062086-95 Jan 20, 2016



FIGURE 1



CAD File: I:\Chevron\0620--\062086 35-9766 Oak|and\062086-FIGURES\062086-RPTs\062086 RPT-007\062086-95(007)GN-EM002.dwg

LEGEND



MONITORING WELL LOCATION (NON-EMC, 2010) MONITORING WELL LOCATION (EMC, 2015)

EXCAVATION AREAS

160.00 —

FENCE LINE

GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL), DASHED WHERE INFERRED

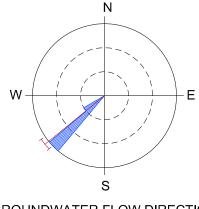


GROUNDWATER FLOW DIRECTION AND GRADIENT



WELL DESIGNATION GROUNDWATER ELEVATION (FT MSL) TPHg CONCENTRATION (µg/L) BENZ MTBE CONCENTRATION (µg/L) MTBE CONCENTRATION (µg/L)

NS NOT SAMPLED



GROUNDWATER FLOW DIRECTION 1Q 2015 to 4Q 2015

062086-95 Jan 29, 2016

HYDROCARBON CONCENTRATION MAP - DECEMBER 22, 2015



Table

Table 1

Groundwater Monitoring and Sampling Data Former Texaco Service Station 359766 (Ed's Liquors) 2700 23rd Avenue Oakland, California

					HY	DROCARB	ONS								VOCS					
												ATBE by SW8260	llene							DNAL
Location	Date	TOC ^a	DTW	GWE	TPH-MO	трн-рко	TPH-GRO	В	т	E	х	MTBE by	Naphthalene	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	ADDITIONAL
	Units	ft	ft	ft-amsl	µg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	µg/L	μg/L	μg/L	µg/L	µg/L	μg/L	µg/L	μg/L	μg/L
MW-1	11/18/2010 ¹	168.84	7.93	160.91	<250	<50						1.3	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	02/14/2012 ¹ 03/13/2015	168.84 168.90	7.31 12.11	161.53 156.79		<50	<50 	<0.50	<0.50 	<0.50	<0.50	1.2								
	06/19/2015	168.90	11.31	157.59											-					
	09/29/2015	168.90	10.83	157.59																
	12/22/2015	168.90	6.44	162.46																
MW-2	11/18/2010 ¹	170.33	7.52	162.81	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	ND
	02/14/2012 ¹	170.33	6.37	163.96		<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50								
	03/13/2015	170.41	8.10	162.31																
	06/19/2015	170.41	6.92	163.49																
	09/29/2015	170.41	7.95	162.46																
	12/22/2015	170.41	4.49	165.92																
MW-3	11/18/2010 ¹	168.67	5.14	161.15	<250	2,100	3,700	<0.5	<0.5	<0.5	0.84	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	3.0 ⁹ 0.68 ^d 2.0 ^e 2.2 ^h 6.6 ^f
	02/14/2012 ¹	168.67	4.98	163.69		<1,500	3,400	<0.50	<0.50	1.2	<0.50	<0.50								
	03/13/2015	168.71	6.50	162.21																
	06/19/2015	168.71	5.93	162.78																
	09/29/2015	168.71	6.98	161.73																
	12/22/2015	168.71	8.01	160.70																
		400.40			050	0.000	00.000	0.000	4 500	550	0.400	0.5	040	000	50	50	50	50	50	
MW-4	11/18/2010 ¹ 02/14/2012 ¹	168.40			<250	2,800	26,000	2,800	1,500	550	3,100	<0.5	210	<200	<50	<50	<50	<50	<50	790 ⁱ 210 ⁱ
	02/14/2012	168.40 168.47	6.45 10.70	161.95 157.77		<3,000	27,000 	1,500 	660 	520 	1,500 	<5.0 								
	06/19/2015	168.47	9.63	158.84																
	09/29/2015	168.47	9.63 11.04	158.84																
	12/22/2015	168.47	10.31	158.16																

Page 2 of 2

Table 1

Groundwater Monitoring and Sampling Data Former Texaco Service Station 359766 (Ed's Liquors) 2700 23rd Avenue Oakland, California

					HYD	ROCARB	ONS		VOCS											
Location	Date	TOC ^a	DTW	GWE	трн-мо	TPH-DRO	TPH-GRO	В	т	ш	x	MTBE by SW8260	Naphthalene	ТВА	DIPE	ETBE	TAME	1,2-DCA	EDB	ADDITIONAL
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	μg/L
MW-5	02/26/2015 ²	162.42	17.81	144.61			<50	<0.5	<0.5	<0.5	<0.5	<0.5								
	03/13/2015	162.42	16.48	145.94																
	06/19/2015	162.42	10.92	151.50			<50	<0.5	<0.5	<0.5	<0.5	<0.5								
	09/29/2015	162.42	12.29	150.13			<50	<0.5	<0.5	<0.5	<0.5	<0.5								
	12/22/2015	162.42	13.46	148.96			<50	<0.5	<0.5	<0.5	<0.5	<0.5								

Abbreviations and Notes:

-- = Not analyzed

<x and ND = Not detected above the method detection limit x.

Total purgeable petroleum hydrocarbons (TPPH) by EPA Method 8260B

Total petroleum hydrocarbons as motor oil (TPHmo), TPH as diesel (TPHd), and TPH as gasoline (TPHg) by modified EPA Method 8015B

Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8260B

Methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), 1,2 dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), tertiary butyl alcohol (TBA), naphthalene by EPA Method 8260B

Volatile organic copmounds (VOCs) by EPA Method 8260B

a = Top of casing elevation was surveyed by Morrow Surveying on February 24, 2015; coordinates are California State Plan Zone 3, from GPS observation using CSDS virtual survey network, coordinate datum is NAD 83, reference geoid is GEOID03, and vertical datus is NAVD 88 from GPS observations. Prior to 2015, a survey was completed by licensed surveyor Ty Hawkins on December 20, 2010; based on California Coordinate System NAD 83, Zone III (2002.00), and elevations based on NAVD 88.

b = n-butyl benzene

c = 4-isopropyl toluene

d = Sec-butyl benzene

e = Isopropylbenzene

f = n-propyl benzene

g = 2-butanone

h = 4-methyl-2-pentanone

i = 1,2,4-trimethylbenzene

j = 1,3,5-trimethylbenzene

1 = Sampled by previous consultant

2 = Well development

Attachment A Monitoring Data Package



January 8, 2016

Chevron Environmental Management Company Mark Horne 6101 Bollinger Canyon Rd. San Ramon, CA 94583

> Fourth Quarter 2015 Monitoring at Former Chevron Service Station 359766 2700 23rd Avenue Oakland, CA

Monitoring performed on December 22, 2015

Blaine Tech Services, Inc. Groundwater Monitoring Event 151222-KD2

This submission covers the routine monitoring of groundwater wells conducted on December 22, 2015 at this location. Five monitoring well was measured for depth to groundwater (DTW). One monitoring well was sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

Water levels measurements were collected using an electronic slope indicator. All sampled wells were purged using low flow methodology until water temperature, pH, conductivity, dissolved oxygen and oxidation reduction potential were stabilized. Purging was accomplished using Geotech Peri Pumps. Subsequent sample collection and sample handling was performed in accordance with EPA protocols. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

Samples were delivered under chain-of-custody to Lancaster Laboratories, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to Blaine Tech of San Jose, California.

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Sincerely,

ABG

Dustin Becker Blaine Tech Services, Inc. Senior Project Manager

attachments:	SOP
	Well Gauging Sheet
	Individual Well Monitoring Data Sheets
	Wellhead Inspection Form
	Bill of Lading
	Calibration Log

cc: Stantec Attn: Nathan Lee 2300 Clayton Rd., Suite 920 Concord, CA 94520

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT CHEVRON SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Chevron comply with Chevron's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Chevron site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. GeoTech). No samples are collected from a well containing product.

TRADITIONAL PURGING & SAMPLING

Evacuation

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

Standard Methods & Procedures Chevron EMC Page 1

Parameter Stabilization

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

Sample Collection

All samples are collected using disposable bailers.

Sample Containers

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

Dewatered Wells

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewaters and does not immediately recharge.

Measuring Recharge

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed approximately 2 hours to recharge prior to sampling or will be sampled at site departure. All wells requiring off-site traffic control in the public right-of-way, the 80% recharge rule may be disregarded in the interests of Health and Safety. The sample may be collected as soon as there is sufficient water. The water level at time of sampling will be noted.

Dissolved Oxygen Measurements

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 550) or HACH field test kits.

The YSI meters are able to collect accurate in-situ readings. The probe allows downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated

Standard Methods & Procedures

as per the instructions in the operating manual. The probe is lowered into the water column and the reading is allowed to stabilize prior to collection.

Oxidation Reduction Potential Measurements (ORP)

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

LOW FLOW SAMPLING USING SAMPLE-PRO BLADDER PUMP

Calibration

Calibrate YSI Flow Cell as per manufacturer's specifications. Thoroughly rinse probe and cup between parameters. Calibration order as follows:

- 1. pH (use 3-point calibration of 7, 4, 10)
- 2. Oxygen Reduction Potential (ORP)
- 3. Specific Conductance
- 4. Dissolved Oxygen (DO) (calibrate simulating 100% oxygen saturation)

Purging & Sampling Collection

- 1. Insert new bladder into Sample-Pro pump housing.
- 2. Remove dedicated PE tubing from the well or start with new PE tubing cut to the required length.
- 3. Attach the PE tubing to the Sample-Pro Bladder Pump.
- 4. Gently lower the Sample-Pro Bladder Pump, and PE tubing into the well, placing the Sample-Pro Bladder Pump intake at the center of the screened interval. Take care to minimize disturbance to the water column.
- 5. Direct effluent line into YSI 556 Flow Cell.
- 6. Set Sample-Pro Bladder Pump speed at 100 500 ml/min.
- 7. Collect water quality parameter measurements for temperature, pH, conductivity, turbidity, DO and ORP every 3-5 minutes.
- 8. Monitor drawdown during purging with electronic water level meter. Record water level with each parameter measurement. MAXIMUM DRAWDOWN IS 0.33 FEET.
- 9. Collect parameter measurements until stability is achieved. Stability is defined as three consecutive measurements where:

Temp	± 1° Celsius
рН	± 0.1
Conductivity	± 3%
Turbidity	± 10% NTU
DO	± 0.3 mg/l
ORP	± 10 Mv

- 10. Sample may be collected once stability is achieved and at least one system volume of water removed from the well.
- 11. Disconnect effluent line from YSI 556 Flow Cell.
- 12. Sample through effluent line while maintaining constant flow rate.
- 13. Remove Sample-Pro Bladder Pump, and PE tubing from well.
- 14. Detach and reinstall dedicated PE tubing in well.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous Waste Manifest to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility

TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Duplicates, if requested, may be collected at a site.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label. Field documentation is contemporaneous.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment such as hose reels, pumps and bailers is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is detuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

WELL GAUGING DATA

Project #_151222-402

Date 12 72/15

Client Churry

22ad Ave, Oaklan Site 2700

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)		Immiscibles Removed	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or	Notes
MW-1	1229	2					6.44	19.63		
MW-2	1225	Z					4.49	19,60		
mw.3	1235	2	odor				8.01	19,68		
Mu-4 Mu-S	1232	2	odor				10:31	19.61		
mus	1239	2					13.46	19.25	1	
							1			
				en Street Street						

			ا بر ا						· · · ·	

					1. N. A.	1 A.		-			
- .3					•		ander Maria	-			
		LOWI	FLOW WE	ELL MON	ITORING	G DATA	SHEET				
Project #	1: 15122	2-1672		Client:	Chinron	Ŧ.	•				
Sampler	•	160	. ,	Start Date: 12/22/15							
Well I.D	.: mw	-5	· · · · · · · · · · · · · · · · · · ·	Well Diameter: (2) 3 4 6 8							
Total We	ell Depth:	19.25		Depth to V	Water	Pre: 17	۶.۹۶ Post:	13.69.			
Depth to	Free Prod	uct:		Thickness	of Free P	roduct (fe	eet):				
Referenc	ed to:	RVC)	Grade	Flow Cell	Type:	YSI Pr	> Play	······			
Purge Meth Sampling M Flow Rate:	lethod:	2" Grundf Dedicated	Tubing	Peristaltic Pump Bladder Pump New Tubing Other Pump Depth: 105							
Time	Temp. (°C or °F)	pH	Cond. (mS or (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations			
1251	20.3	7.03	1605	29.5.	0.69	-172.0	300	13.50			
1254	70.0	7.24	1535	23.3	0,50	-181.8	900	13.54			
1257	20.7	7.32	1471	12.4	0,34	-183.7	1500	13.58			
1300	2018	7.39	1402	9.8	0,38	-181.3	2100	(3.61			
1203	20.8	7,45	1348	6.9	0,50	-160.5	272	13.64			
1306	20,8	7,51	1321	6.6	०.४५	-157,4	3321	13.67			
1309	70,9	7,52	1319	6.5	୭. ୫ଟ	-154.1	3900	13.69			
Did well c	lewater?	Yes .	No')		Amount :	actually e	vacuated:	900			
Sampling	Time:	DIS			Sampling	, Date: 1	2/22/15	- -			
Sample I.I	D.: Mu	15			Laborato	ry: La	raster				
Analyzed	for:	छ-सम्र	ETER ME	È TPH-D	,	Other:					
	t Blank I.I		Time		Duplicate	e I.D.:					

BLAINE TECH SEDVICES INC OAN KOOP

_						USTODY FOR		~	-			~ 4	~ * *	00		~~	~	1			
Chevron Site Number	hevron	Environ	mental Mana	agement Compar		linger Canyon	Rd.	i Sa	n Ka	ame	on, (JA ANAI	945 _YSE	S RE	OUI	CO RED	<u> </u>	<u></u>			
Chevron Site Global I		004040																Preservation Codes			
				Address: 2300 Clav	/ton Rd., Site 920, C	oncord, CA												H=HCL T=			
Chevron Site Address	5: <u>2700 23</u> *	ⁱ Ave., Oaklar	nd, CA	Consultant Contac	et: <u>Nathan Lee</u>									SE []				Thiosulfate			
Chevron PM: Dave Pa	illen			Consultant Phone	No. <u>925-849-1003</u>							LINI		GREASE				N =HNO3 B = NaOH			
Chevron PM Phone N	io.: <u>(925) 7</u> 9	00-3964		Consultant Project No. 15 1222-140 2-				S S				ALKALINITY		OIL&O		******		S = H₂SO₄ O = Other			
Retail and Termina		Unit (RTBU)) Job	Sampling Compar	IV: Blaine Tech Se	rvices		오			stlc 🛛	1 A		413.1 C							
☑ Construction/Retai	22 CONSTITCTION (CEAR DOD			Sampled By (Print			NAT				STL	1310.1		41:							
				Sampler Signature:			OVYGENATESE	ORO			тьс П	EPA		EPA							
NWRTB (WBS ELEMENTS:	SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L			Lancaster Laboratories	Other Lab	Temp. Blank Check Time Temp.	1			Na			ИТҮ			***		Special Instructions Must meet towest detection limits possible			
SITE MONITORING: OML	SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1 THIS IS A LEGAL DOCUMENT. <u>ALL</u> FIELDS MUST BE FILLED OL			I Lancaster, PA Lab Contact: Nicole Maljovec			MTREST	n ni	MTBE	Mg, Mn, Na	5 22 MET/		ONDUCTI		or	o		for 8260 cmpounds.			
CORRE	CORRECTLY AND COMPLETELY.		2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300			EPA 8260B/GC/MS TPH_C C1 RTEY 58	5B GRO	18 BTEX D	EPA 6010 Ca, Fe, K,	EPA6010/7000 TITLE 22 METALS	1 PH []	SM2510B SPECIFIC CONDUCTIVITY	J TRPH D) ETHANOL	0-HdL						
	SAMPLE ID						826	EPA 8015B	Н-G П А 8015	A 801	A 8021B	A 8021	601	3010	150.	510	418	3260	801		
Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA TDH	EPA	EPA	EPA	EPA(EPA150.1	SM2	EPA 418.1	EPA 8260	EPA 8015		Notes/Comment s			
MW-5	W		151222	13.5	ં	HC1 VOR	X	X										•			
· QA	7		151222	1220	2	·	×-	X													
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Relinquished By	Comp		Date/Time	Relinquished To	Company	Date/Time					Integ			sk by	lab (on arri	val)				
			*****				Inta	ct:		On I	ce:			mp:							
Relinquished By Company Date/Time				Relinquished To	Company	Date/Time								(coc	#					

WELLHEAD INSPECTION CHECKLIST Page ____ of ____ Date 12/22/15 Client _____ Chevron Site Address 2700 23rd Ave., Oakland Job Number 151722 - KOZ Technician 40 WELL IS Well CLEARLY Other Water Weli Not WELL IS Inspected -Wellbox Repair MARKED WITH Action Bailed Cap Inspected SECURABLE Lock No Corrective THE WORDS Components Taken Order BY DESIGN From Replaced Replaced (explain Action "MONITORING Cleaned (explain Submitted Wellbox (12 or less) telow) Required WELL* below) Well ID (12"or less)

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MW-3

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MW

NOTES:

BLAINE TECH SERVICES, INC.

www.blainetech.com

CHEVRON-NORTHERN CALIFORNIA TYPE A BILL OF LADING

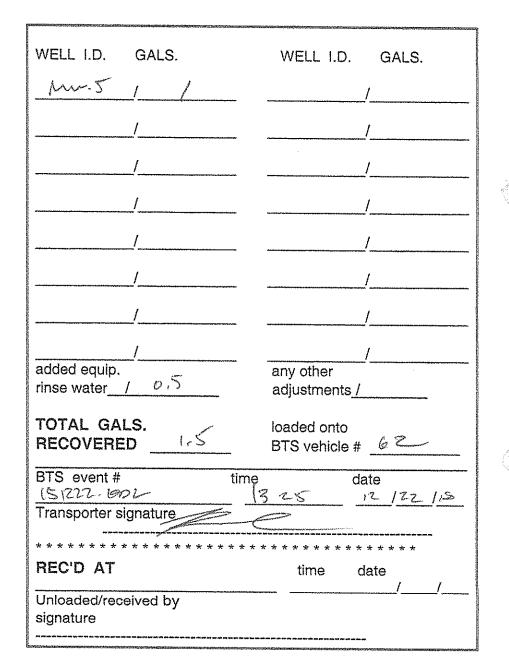
BILL OF LADING No.

SOURCE RECORD **BILL OF LADING** FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN SAN JOSE, CALIFORNIA FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

INC. (BLAINE TECH), 1680 Rogers Ave. San Jose CA (408) 573-0555). BLAINE TECH, is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

30-55-97	66	Mark Howe	
CHEVRON #		Chevron Engineer	
	735 Ave	Oaldand	CP
street number	street name	city	state



TEST EQUIPMENT CALIBRATION LOG

PROJECT NAM	VIE (herron	6 35-9766	,	PROJECT NUMBER 151222- KOZ							
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. "	INITIALS				
YSS Pro Plus	123101702	12/22/5	94 4.0 7.0 (00	4.0 7.0 10.0	Y	14.4 C	5				
			conductivity 3900 m	3900 25	7	IMB	67				
			D.0- 100 Z	leo s	7		Þ				
J		J	08-0 245	245	7	125	5				

Attachment B Laboratory Analytical Report





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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

January 06, 2016

Project: 359766

Submittal Date: 12/23/2015 Group Number: 1620017 PO Number: 0015166637 Release Number: HORNE State of Sample Origin: CA

Client Sample Description MW-5-W-151222 NA Water QA-T-151222 NA Water Lancaster Labs (LL) # 8188881 8188882

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <u>http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</u>.

CRA ELECTRONIC Attn: Nathan Lee COPY TO ELECTRONIC Chevron Attn: Anna Avina COPY TO ELECTRONIC Blaine Tech Services, Inc. Attn: Dustin Becker COPY TO ELECTRONIC Chevron Attn: Report Contact COPY TO





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Respectfully Submitted,

Amek Carts

Amek Carter Specialist

(717) 556-7252



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-5-W-151222 NA Water Facility# 359766 BTST 2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8188881 LL Group # 1620017 Account # 10991

Project Name: 359766

Collected:	12/22/	2015	13:15	by KA
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Submitted: 12/23/2015 11:15 Reported: 01/06/2016 18:42

230M5

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Volatiles SW-84	5 8260B	ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Vol	latiles SW-84	5 8015B	ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10945	BTEX/MTBE	SW-846 8260B	1	F160041AA	01/04/2016 16:1	5 Brett W Kenyon	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F160041AA	01/04/2016 16:1	5 Brett W Kenyon	1	
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15365D20A	01/01/2016 21:4	8 Jeremy C Giffin	1	
01146	GC VOA Water Prep	SW-846 5030B	1	15365D20A	01/01/2016 21:4	8 Jeremy C Giffin	1	

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: QA-T-151222 NA Water Facility# 359766 BTST 2700 23rd Ave-Oakland T10000004218

LL Sample # WW 8188882 LL Group # 1620017 Account # 10991

Project Name: 359766

Collected: 12/22/2015 12:20

Submitted: 12/23/2015 11:15 Reported: 01/06/2016 18:42

230QA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Volatiles SW-846	8260B	ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Vol	Latiles SW-846	8015B	ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10945	BTEX/MTBE	SW-846 8260B	1	F160041AA	01/04/2016 12:15	Brett W Kenyon	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F160041AA	01/04/2016 12:15	Brett W Kenyon	1	
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15365D20A	01/01/2016 18:06	Jeremy C Giffin	1	
01146	GC VOA Water Prep	SW-846 5030B	1	15365D20A	01/01/2016 18:06	Jeremy C Giffin	1	

*=This limit was used in the evaluation of the final result



Analysis Report

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Quality Control Summary

Client Name: Chevron Reported: 01/06/2016 18:42 Group Number: 1620017

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL**</u>	Blank <u>LOQ</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD <u>Max</u>
Batch number: F160041AA	Sample nu	umber(s): 8	188881-81	88882					
Benzene	N.D.	0.5	1	ug/l	87	84	78-120	3	30
Ethylbenzene	N.D.	0.5	1	ug/l	87	88	78-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	83	81	75-120	3	30
Toluene	N.D.	0.5	1	ug/l	83	86	80-120	4	30
Xylene (Total)	N.D.	0.5	1	ug/l	87	88	80-120	0	30
Batch number: 15365D20A	Sample nu	umber(s): 8	188881-81	88882					
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	84	91	71-138	8	30
Benzene Ethylbenzene Methyl Tertiary Butyl Ether Toluene Xylene (Total) Batch number: 15365D20A	N.D. N.D. N.D. N.D. N.D. Sample nu	0.5 0.5 0.5 0.5 0.5 0.5	1 1 1 1 1 1 1 3188881-81:	ug/l ug/l ug/l ug/l ug/l 88882	87 83 83 87	88 81 86 88	78-120 75-120 80-120 80-120	0	30 30 30 30

Surrogate Quality Control

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

Analysis Name: BTEX/MTBE Batch number: F160041AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene 8188881 97 94 98 91 95 8188882 98 99 94 Blank 98 97 100 93 LCS 98 101 99 96 98 LCSD 95 99 97 Limits: 80-116 77-113 80-113 78-113 Analysis Name: TPH-GRO N. CA water C6-C12 Batch number: 15365D20A Trifluorotoluene-F 8188881 89 8188882 89 Blank 92 LCS 94 LCSD 98 Limits: 63-135

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(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.

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.



Analysis Report

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Quality Control Summary

Client Name: Chevron Reported: 01/06/2016 18:42 Group Number: 1620017

Surrogate Quality Control

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(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.

P####### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

C	hevron	/ Environ	ר ∂רבן 5 - mental Mana	0Ч agement Compar	CHAIN OF C ny ∎ 6111 Bol	USTODY FOR linger Canyon	RM Rd.∎	Sai	n Ra	amo	on, C	CA	945	83	-	со)C _1	_of _/_			
Chevron Site Number	: <u>359766</u>			Chevron Consulta	nt: GHD							ANAL	YSE	S RE	QU	IRED					
Chevron Site Global I	D: <u>T060000</u>	004218		Address: 2300 Clav	yton Rd., Site 920, C	Concord, CA												Preservation Codes			
Chevron Site Address: 2700 23rd Ave., Oakland, CA			nd, CA	Consultant Contact: <u>Nathan Lee</u>														l =HCL T= hiosulfate			
Chevron PM: <u>Dave Patten</u> Chevron PM Phone No.: <u>(925) 790-3964</u>				Consultant Phone No. 925-849-1003											ALKALINITY		GREASE			N	I =HNO₃ B = NaOH
			Consultant Project No. 15 1222-160 2			f	SCREEN				KAL		৵				= H ₂ SO ₄ 0 = 0ther				
I Retail and Termina		Unit (RTBU)) Job	Sampling Compar	1y: <u>Blaine Tech Se</u>	ervices		오				.1 AI		3.1 OIL				0991			
⊠ Construction/Retail Job			Sampled By (Print			NATE		:		STLC	A 310.1		A 413.1				620017				
				Sampler Signature	e: <u>1</u> <u> </u>	2~	OXVGENATES	ORO				EPA		EPA			8	3188881-			
Charge Code: NWRTB-0098247-0-OML NWRTB 00SITE NUMBER-0-WBS (WBS ELEMENTS: SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L THIS IS A LEGAL DOCUMENT. <u>ALL</u> FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.		Lancaster Laboratories	Other Lab	Temp. Blank Check Time Temp.				Va			ТY					Special Instructions lust meet lowest etection limits possible					
		MONITORING: M1L	⊠ Lancaster, PA Lab Contact: Nicole Maljovec			TRAT	B.	MTBE	EPA 6010 Ca, Fe, K, Mg, Mn, Na	22 META		ONDUCTIV		5			or 8260 cmpounds.				
		2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300					EPA 8260B/GC/MS				EPA6010/7000 TITLE 22 METALS	EPA150.1 PH []	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH	ETHANOL						
	SAMPL	FID					200	j j	8021B	010	010	50.	10E	100	260	<u>õ</u>					
Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA 8	EPA 8015B	EPA 8	EPA 6	EPA6	EPA1	SM25	EPA 4	EPA 8260	EPA 8015	1	Notes/Commen s			
MW-5	W		151222	13:5	6	HCI VOR	X	x													
QA	T		151222	1220	2	J	×	x								 					
Relinquished By	Com BTS		Date/Time:	Relinquished To	Company	Date/Time			Sta	naroi ndaro urs⊡	Пр		L 24 Ho er⊡	⊔ urs⊡		48 hc	ours□	72			
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Relinquished By	Com	pany	Date/Time	Relinquished To	Company	Date/Time	115			-				(coc	;#					

🔅 eurofins

Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

RL N.D. TNTC IU umhos/cm C meq g µg mL mL m3	Reporting Limit none detected Too Numerous To Count International Units micromhos/cm degrees Celsius milliequivalents gram(s) microgram(s) milliliter(s) cubic meter(s)	BMQL MPN CP Units NTU ng F Ib. kg mg L μL pg/L	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units nanogram(s) degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s) picogram/liter
<	less than		
>	greater than		
ppm		e equivalent to milli	kilogram (mg/kg) or one gram per million grams. For grams per liter (mg/l), because one liter of water has a weight uivalent to one microliter per liter of gas.
ppb	parts per billion		
Dry weight basis			nisture content. This increases the analyte weight imple without moisture. All other results are reported on an

Laboratory Data Qualifiers:

- B Analyte detected in the blank
- C Result confirmed by reanalysis

as-received basis.

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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