

2023 Post-Injection Quarterly Groundwater Monitoring and Sampling Workplan



Leonard's Conoco

FID #29084 RID #755
1633 Historic Route 66
Santa Rosa, New Mexico

April 27, 2023
Envirotech Project #22104-0003
Contract ID No. 22 667 3200 0015

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GROUNDWATER MONITORING REPORT

FOR:

**LEONARD'S CONOCO
FID #29084 RID #755
1633 HISTORIC ROUTE 66
SANTA ROSA, NEW MEXICO 88435**

SUBMITTED TO:

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PROJECT NO. 22104-0003

APRIL 2023

**2023 QUARTERLY GROUNDWATER MONITORING REPORT
LEONARD'S CONOCO
SANTA ROSA, NEW MEXICO**

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INTRODUCTION

Envirotech, Inc. (Envirotech) presents this report to the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) to summarize groundwater monitoring activities and analytical results for the subject property Leonard's Conoco located at 1633 Historic Route 66 in Santa Rosa, New Mexico. This report is presented in accordance with the New Mexico Petroleum Storage Tank Regulations (PSTRs), Title 20, Chapter 5, Part 12 New Mexico Administrative Code (20.5.12.1223 NMAC) and the requirements of the Workplan approved on February 23rd, 2023. This is the 2023 1st quarterly groundwater monitoring event under the current approved Workplan. The Site is currently the location of the Santa Rosa Magistrate Court. *Figure 1, Vicinity Map* illustrates the topography in the surrounding area of the Site.

BACKGROUND

The following site history has been summarized from the DBS&A *Final Remediation Plan* dated May 25, 2022:

- The site has been active since 1991 when the initial UST release was confirmed.
- Four groundwater monitor wells were previously completed (MW-1, MW-2, MW-3, and MW-4).
- In 2001, MW-1 and MW-2 were replaced by wells MW-1A and MW-2A.
- MW-4 located at the far northwest corner of the property has since been destroyed.
- Groundwater monitoring and reporting has been ongoing since the 1990's with only three (3) current monitoring wells on-site (MW-1A, MW-2A and MW-3).
- The last groundwater monitoring sampling event occurred in March 2022. All groundwater monitoring analytical results reported below New Mexico Water Quality Control Commission (NMWQCC) regulation limits except for MW-1A which resulted a benzene concentration of 94 Micrograms per liter ($\mu\text{g/L}$).
- On August 30, 2022, DBS&A and Vista injected a material referred to as PetroFix; which is a micron-scale activated carbon emulsion that removes dissolved-phase hydrocarbon contaminants by absorption to the carbon media, combined with inorganic electron acceptors (nitrate and sulfate) to facilitate anaerobic biodegradation (DBS&A).
- The amendment injection event used a total of 6 borings for application of PetroFix. 1,496 gallons of amendment slurry (PetroFix, electron acceptor, and water mixture) was used per bore.

- All injection points were plugged with bentonite chips and the surface was restored with concrete to match the surrounding surface material.

METHODOLOGY

The groundwater monitoring wells were provided sufficient time for the static water level to stabilize/equilibrate once each well is exposed to atmospheric conditions, prior to collecting a measurement. Depth-to-water was recorded from the top-of-casing (TOC) and utilized to calculate groundwater elevations and the volume of water in the well. The oil-water interface probe and groundwater-exposed measurement tape were decontaminated with an Alconox/tap water solution followed by a tap water rinse between each water level measurement to prevent cross-contamination.

All groundwater samples were analyzed for volatile organic compounds (VOCs) including BTEX, MTBE, and total naphthalene's per EPA Method 8260B. Dissolved phase iron and manganese per EPA Method 200.7. Sulfate and nitrate per EPA Method 300.0. Total dissolved solids (TDS) per SM2540C. Chemical oxygen demand (COD) per EPA Method 410.4 in MW-1A only. Biological oxygen demand (BOD) per EPA Method SM5210B in MW-1A only as well.

Samples were collected using a new polyvinyl chloride (PVC) disposable bailer. Temperature, specific conductance (SpC), dissolved oxygen (DO), oxidation-reduction potential (ORP) and pH were measured and recorded following stabilization using a YSI ProDDS. Groundwater samples were collected into laboratory supplied 40-milliliter (mL) hydrochloric acid preserved (HCl) glass volatile organic analysis (VOA) vials and capped headspace free with Teflon™ seals and 250-mL nitric acid (HNO₃) preserved polyethylene containers. The groundwater samples were equipped with labels identifying sample location, date/time of sample collection, requested analysis, preservative, and sampler name then placed on ice for hand delivery to a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory for the analysis listed above.

RESULTS

Groundwater Potentiometric Data

During the 2023 annual Groundwater Monitor Event, the groundwater gradient was calculated to be 0.00518 feet/foot with an approximate northwest flow direction, which is consistent with previous groundwater monitoring events. Groundwater elevation decreased an average of 0.145 feet relative to the previous monitoring event conducted in 2022. Groundwater elevations are summarized in **Table 1, Groundwater Elevation** and depicted on **Figure 3, Potentiometric Map**.

Groundwater Parameters

Temperature readings ranged from 16.8° degrees Celsius (°C) in MW-1A to 17.8°C in MW-1. SpC readings ranged from 3035 milli siemens (μS) in MW-1A to 2882 (μS) in MW-2A. DO readings ranged from 0.71 milligrams per liter (mg/L) in MW-1A to 2.90 mg/L in MW-3. PH readings ranged from 6.55 standard units in MW-1A to 6.96 standard units in MW-2A. ORP readings ranged from -182.6 millivolts (mV) in MW-1A to 8.4 mV in MW-3. Full field notes can be found in *Appendix A, Field Notes*.

Groundwater Analytical Results

The laboratory analytical report is included as *Appendix B, Laboratory Analytical Report*, and summarized in *Table 2, Groundwater Analytical Results*.

- Benzene levels were well above NMWQCC regulations of 5 $\mu\text{g/L}$ in MW-1A at 73 $\mu\text{g/L}$. All other wells were below standard regulations for benzene.
- Manganese levels were above NMWQCC regulations of 200 $\mu\text{g/L}$ in MW-1A at 800 $\mu\text{g/L}$ and MW-2A at 310 $\mu\text{g/L}$. *Table 2, Groundwater Analytical Results*

DISCUSSION

Dissolved-phase contaminants-of-concern (COC) appear to include Benzene in MW-1A specifically. The other two wells resulted in levels below NMWQCC regulatory standards for benzene. All other VOCs were below NMWQCC regulatory standards. Groundwater samples were analyzed for dissolved iron and manganese during the 2023 1st Quarterly Groundwater Monitoring Event; all monitoring wells have levels of manganese above the 0.2mg/L standard. All monitoring wells have dissolved iron levels below regulatory limits. Total dissolved solids were above regulatory limits in all three wells. Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) were analyzed for MW-1A only during the 1st quarterly groundwater monitoring event, all levels resulted below regulatory limits for both BOD and COD. Nitrate and Sulfate were also analyzed for all three wells during the 1st quarterly event. Nitrate levels were below regulatory limits in all three wells; however, sulfate levels were above regulatory limits in all three wells.

Based on historical and current groundwater gradient, it does not appear that the plume is contained. Benzene concentrations do seem to be trending in the right direction. To determine if the PetroFix injection was successful, continued sampling and monitoring is recommended. For injection to be deemed successful, a decreasing trend of benzene will need to be observed in subsequent sampling events. Envirotech recommends the installation of an additional monitor well downgradient of MW-1A to the Northwest.

CONCLUSION

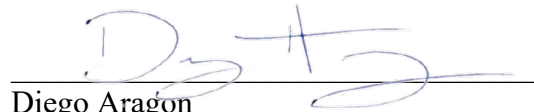
On March 27th, 2023, three (3) groundwater monitor wells (MW-1A, MW-2A, MW-3) were monitored, and groundwater samples were collected for laboratory analysis. Water levels, temperature, SpC, DO, ORP, and pH were measured prior to sample collection. Groundwater samples were analyzed by Envirotech Analytical Laboratory of Farmington, New Mexico, for VOCs by EPA Method 8260B and dissolved iron and manganese by EPA Method 200.7. Groundwater samples collected from all wells except for MW-1 exhibited concentrations below the 20.6.2.3103 NMAC standard for Benzene. Dissolved metals analysis resulted in all monitor wells having manganese concentrations above NMWQCC standards. Iron concentrations were below NMWQCC standards in all monitoring wells.

Envirotech recommends the continued groundwater monitoring of all monitoring wells to gather additional information and determine natural attenuation. Groundwater sample collection is recommended until laboratory analytical results indicate concentrations are in-compliance with 20.6.2.3103 NMQCC standards for eight (8) consecutive quarterly monitoring events.

Envirotech appreciates the opportunity to provide environmental consulting services on behalf of NMED. Please contact our office at (505) 632-0615 should you have any questions or require additional information.

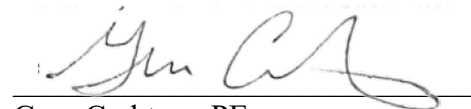
Respectfully Submitted,

ENVIROTECH, INC.



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Figures

Figure 1, Vicinity Map

Figure 2, Site Map

Figure 3, Potentiometric Map

Figure 4, Manganese Concentration Map

Figure 5, Benzene Concentration Map



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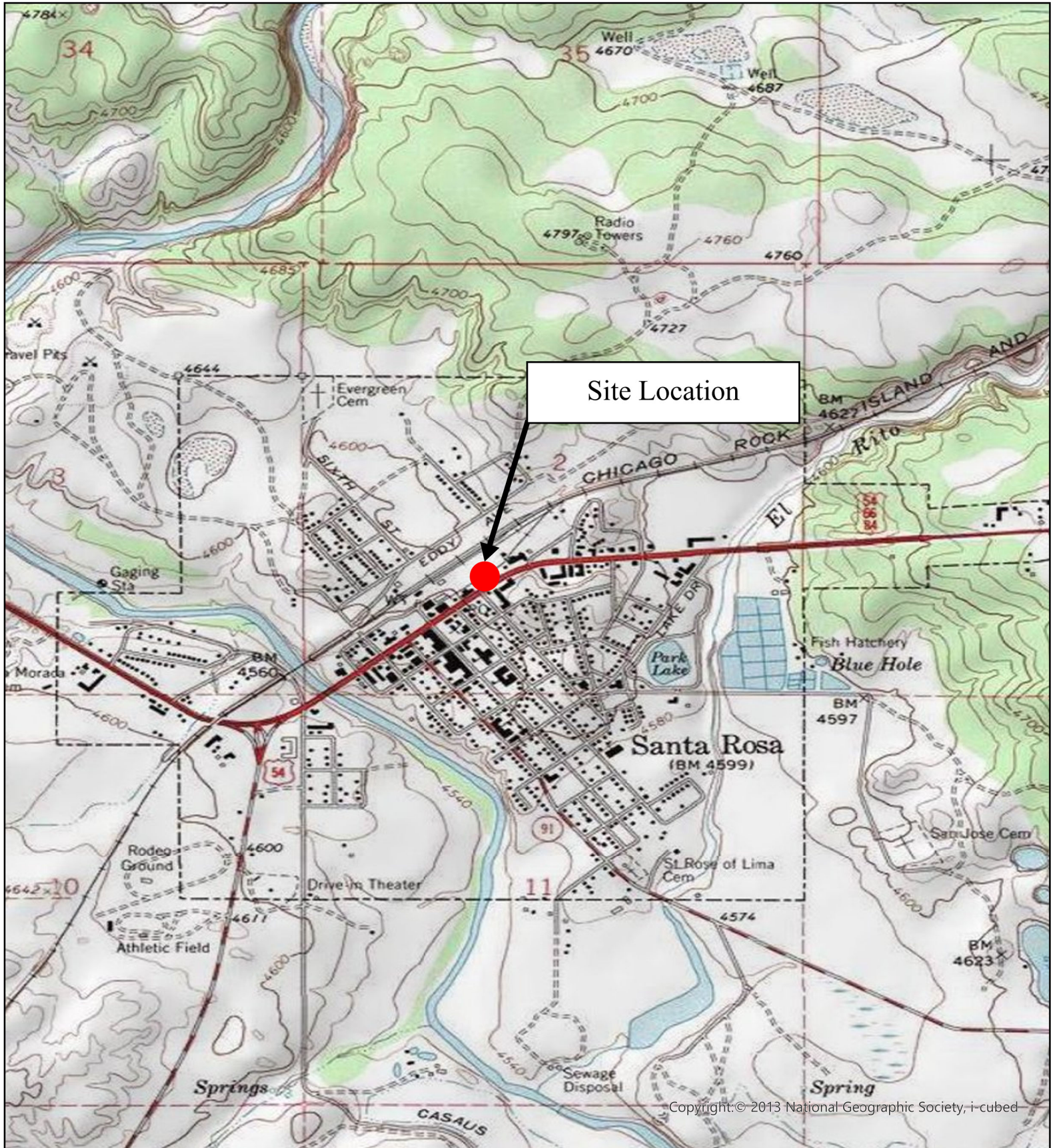


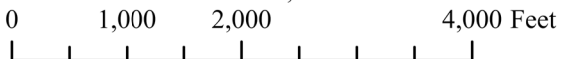
Figure 1, Vicinity Map

NMED PSTB
 Leonard's Conoco
 Section 2, Township 8N Range 21 E
 1633 U.S. Route 66
 Santa Rosa, New Mexico
 Facility #: 29084, Release ID#: 755
 Project#: 22104-0003

Legend



1:20,000



Environmental Scientists and Engineers
 5796 U.S Highway 64
 Farmington, New Mexico 87401
 505.632.0615
 Date Drawn: 04/11/2023
 Drawn by: P. Mesa





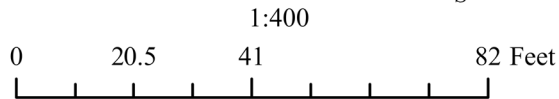
Maxar, Microsoft

Figure 2, Site Map

NMED PSTB
 Leonard's Conoco
 Section 2, Township 8N Range 21 E
 1633 U.S. Route 66
 Santa Rosa, New Mexico
 Facility #: 29084, Release ID#: 755
 Project#: 22104-0003

Legend

-  Monitoring Well Location
-  Electric Overhead Line



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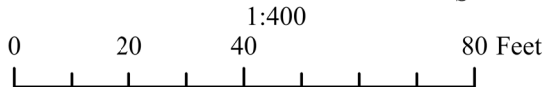
Maxar, Microsoft

Figure 3, Potentiometric Groundwater Map

NMED PSTB
 Leonard's Conoco
 Section 2, Township 8N Range 21 E
 1633 U.S. Route 66
 Santa Rosa, New Mexico
 Facility #: 29084, Release ID#: 755
 Project#: 22104-0003

Legend

-  Monitoring Well Location
-  Potentiometric Contours
-  Electric Overhead Line
-  Ground Water Gradient



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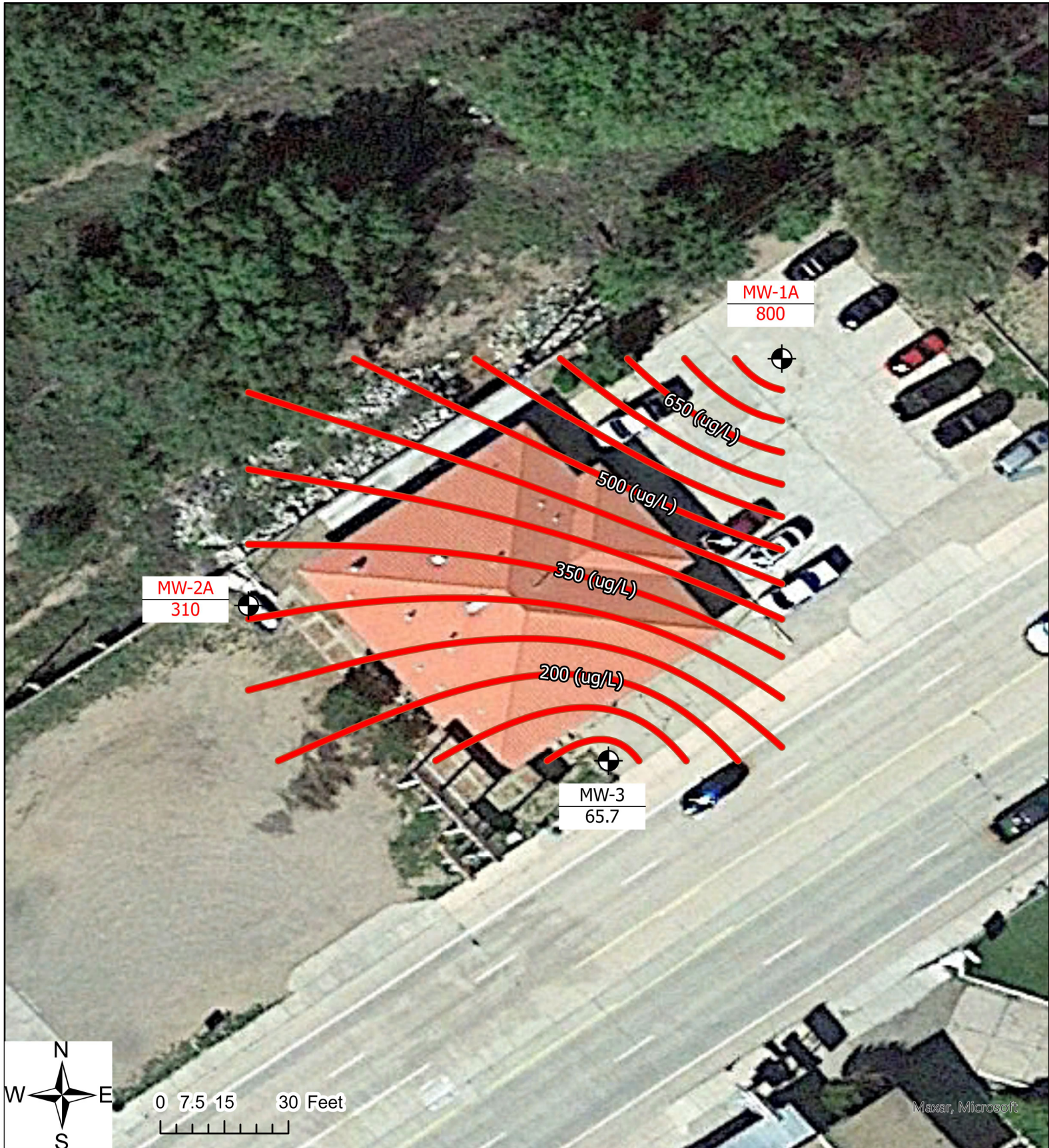


Figure #4, Manganese Concentration map

NMED PSTB
 Leonard's Conoco
 1633 U.S. Route 66
 Santa Rosa, New Mexico
 Facility #: 29084, Release ID#: 755
 Project#: 22104-0003

Legend

- Manganese Contours
- Monitoring Wells

*Regulatory limits for Manganese are <math><200 \mu\text{g}/\text{L}</math>
 *NS = Not Sampled



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 Drawn by: D. Aragon

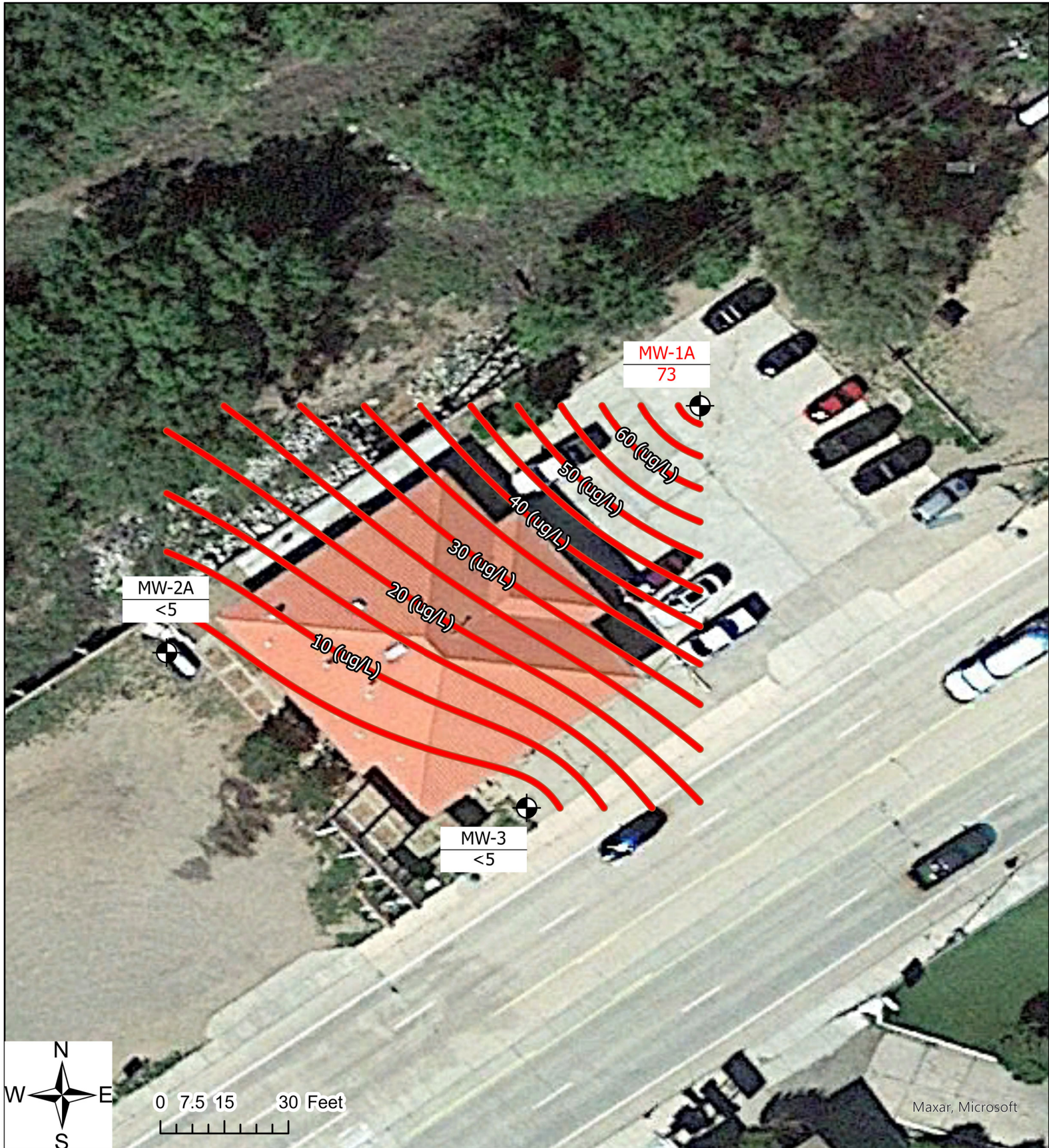




Figure #5, Benzene Concentration Map

NMED PSTB
 Leonard's Conoco
 1633 U.S. Route 66
 Santa Rosa, New Mexico
 Facility #: 29084, Release ID#: 755
 Project#: 22104-0003

Legend

-  Monitoring Well Location
-  Benzene Contours
- *Regulatory limits for Benzene are <math><5 \mu\text{g/L}</math>
- *NS = Not Sampled



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 Farmington, New Mexico 87401
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 Date Drawn: 04/26/2023
 Drawn by: D. Aragon

Tables

Table 1, Groundwater Elevation
Table 2, Groundwater Analytical
Results



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Site Name:	Leonard's Conoco
Date:	4/5/2023
Project #:	22104-0003

Table 1

Water Level Measurements

Well No.	Date of Measurement	Top of Casing Elevation (ft)	Depth to Water (ft)	Water Elevation (ft)	Change from Previous Event (ft)
MW-1A	01/26/17	4,615.84	14.76	4,601.08	----
	12/12/17	4,615.84	14.54	4,601.30	-0.22
	04/26/19	4,615.84	14.80	4,601.04	0.26
	05/05/21	4,615.84	15.07	4,600.77	0.27
	03/15/22	4,615.84	15.00	4,600.84	0.07
	03/27/23	4,615.84	16.40	4,599.44	-1.4
MW-2A	01/26/17	4,613.53	13.12	4,600.41	----
	12/12/17	4,613.53	13.05	4,600.48	-0.07
	04/26/19	4,613.53	13.54	4,599.99	0.49
	05/05/21	4,613.53	13.16	4,600.37	-0.38
	03/15/22	4,613.53	13.47	4,600.06	-0.31
	03/27/23	4,613.53	14.70	4,598.83	-1.23
MW-3	01/26/17	4,615.00	14.03	4,600.97	----
	12/12/17	4,615.00	13.27	4,601.73	-0.76
	04/26/19	4,615.00	13.59	4,601.41	0.32
	05/05/21	4,615.00	13.68	4,601.32	0.09
	3/15/2022	4,615.00	13.88	4,601.12	-0.2
	03/27/23	4,615.00	14.80	4,600.20	-0.92

Table 2
Groundwater Analytical Results
Leonard's Conoco
Santa Rosa, New Mexico
Project # 22104-0003

20.6.2.3103 NMAC Standards		5 (µg/L)	1000 (µg/L)	700 (µg/L)	620 (µg/L)	100 (µg/L)	0.005 (µg/L)	30 (µg/L)	800 (µg/L)	200 (µg/L)	50,000 (µg/L)	2000(µg/L)	10,000 (µg/L)	2,500 (µg/L)	20,000 (µg/L)
Groundwater Monitoring Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	Napthalenes	Iron	Manganese	TDS	BOD	COD	NITRATE	SULFATE
		EPA Method 8260B						EPA Method 200.7		EPA Method SM2540C	EPA Method SM5210B	EPA Method 410.4	EPA Method 300.0		
MW-1A	1/26/2017	93	<1.00	58	<1.5	15	<1.0	<30	~	~	~	~	~	~	~
	12/12/2017	430	<1.00	310	<1.5	45	<1.0	207	~	~	~	~	~	~	~
	4/26/2019	250	<1.0	140	<1.5	46	<1.0	72	~	~	~	~	~	~	~
	5/5/2021	120	<1.0	110	<1.5	32	0.0092	30	~	~	~	~	~	~	~
	3/15/2022	94	<1.00	88	<1.5	45	<0.005	<30	<0.800	600	3140000	~	~	<2.5	1600000
	3/27/2023	73	<5.00	58.9	<5.00	21.7	<10.00	<25	<0.800	800	2940000	<2.0	17700	<2.5	1740000
MW-2A	1/26/2017	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<30	~	~	~	~	~	~	~
	12/12/2017	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<30	~	~	~	~	~	~	~
	4/26/2019	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<30	~	~	~	~	~	~	~
	5/5/2021	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<30	~	~	~	~	~	~	~
	3/15/2022	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<30	130	170	3970000	~	~	<2.5	1600000
	3/27/2023	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<25	<0.800	310	3020000	~	~	<2.5	1710000
MW-3	1/26/2017	<2.0	<2.0	<1.0	<1.5	<1.00	<1.00	<30	~	~	~	~	~	~	~
	12/12/2017	<2.0	<2.0	<1.0	<1.5	<1.00	<1.00	<30	~	~	~	~	~	~	~
	4/26/2019	<2.0	<2.0	<1.0	<1.5	<1.00	<1.00	<30	~	~	~	~	~	~	~
	5/5/2021	<2.0	<2.0	<1.0	<1.5	<1.00	0.0094	<30	~	~	~	~	~	~	~
	3/15/2022	<1.00	<1.00	<1.00	<1.5	<5.00	<1.00	<30	<0.800	<0.200	3890000	~	~	<2.5	1700000
	3/27/2023	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	<25	<0.800	65.7	4350000	~	~	<2.5	1920000

Bold - indicates the concentration exceeded the applicable Title 20, Chapter 6, Part 2 New Mexico Administrative Code standard
20.6.2.3103 NMAC - Title 20, Chapter 6, Part 2 New Mexico Administrative Code
< - below the laboratory reporting limit
µg/L - micrograms per liter
EDC - 1,2-Dichloroethane
EPA - United States Environmental Protection Agency
NS - not sampled
MTBE - methyl tert-butyl ether
Total Naphthalenes - the summation of the results for naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene
Recordings on dates 10/25/13 and 3/24/14 were determined by a different company.
Recordings on dates 04/26/19 and 05/05/21 were determined by a different company.

Appendix A

Field Notes



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MONITORING WELL DATA FORM

WELL ID: MW-1A

Location: 1633 US. Route 66
Project: LEONARDS CHEVRON
Sampling Technician: D. ARAGON

Project No.: 22104-0003
Date: 3/27/2023
Start/End Time: _____

Air Temp: _____

Purge Device: BAILER

Well Diameter (in): 2 in

Total Well Depth (ft): 18.26

Water Column (ft): 3.66

Initial D.T.W. (ft): 14.6 **Time:** 11:37 (taken at initial gauging of all wells)

Final D.T.W. (ft): 16.4 **Time:** 12:32 (taken after sample collection)

If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

Water Quality Parameters - Recorded During Well Purging

Time	Static Water Level	Temp (deg C)	Conductivity (µS/cm)	DO (mg/L)	pH (s.u.)	ORP (mV)	Purged Volume (see reverse for calc.)	Observations (sheen, odor, organic etc.)
<i>Stabilization Parameters</i>		2°C	3%	10%	1 s.u.	10 mV		
<i>See reverse for notes on purging and stabilization procedures</i>								
11:45		17.2	3094	0.91	6.54	-141.1	Initial	Clear, mild odor
12:05		16.8	3079	1.05	6.55	-152.6	1gal	Clear, no odor
12:15		16.9	3035	0.71	6.60	-150	2gal	Clear, no odor
12:25							* Sample	

Disposal of Purged Water: Evaporation Containertized

Collected Samples Stored on Ice in Cooler: Yes No

Chain of Custody Record Complete: Yes No

Analytical Laboratory: Envirotech, Hall (DOD)

Equipment Used During Sampling: 34.94368, -104.68508

Notes/Comments (use this area to document well condition and/or other site maintenance issues):



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Water quality parameters are considered stable when two (2) consecutive measurements meet the following: temperature is within 2°C; pH is within one (1) standard unit; specific conductance/conductivity is within 3%; dissolved oxygen (DO) is within 10%; and oxidation reduction potential (ORP) is within 10 mV.

The parameters should be recorded approximately every well volume when using a bailer and every 2 minutes when using a pump.

If it is necessary to calculate the volume of the monitoring well to determine what volume of groundwater will need to be purged from the well prior to collecting the samples, use the following equation:

$$\text{Well Volume} = (h)(cf)$$

where:

h = height of water column (feet)

cf = gallons/foot based on well diameter shown below

The gallons/foot for common size monitoring wells are as follows:

Well Diameter (inches)	2"	3"	4"	6"
Volume (gallons/foot)	0.1632	0.3672	0.6528	1.4688

The well volume is typically tripled to determine the volume to be purged.

Show purge volume calculation below:

$$h = \text{Total Well Depth} - \text{Depth To Water} = 18.26 - 14.6 = 3.66$$

$$\text{Well Volume} = (h)(cf) = (3.66)(0.1632) = 0.6$$

$$\text{Total Purge Volume} = 3(\text{Well Volume}) = 1.79$$



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MONITORING WELL DATA FORM

WELL ID: MW-2A

Location: 1638 US Route 66
Project: Leonards Chevron
Sampling Technician: D. Aragon

Project No.: 22104-0003
Date: 3/27/2023
Start/End Time: _____

Air Temp: _____

Purge Device: Bailor

Well Diameter (in): 2 in

Total Well Depth (ft): 18.25

Water Column (ft): 3.55

Initial D.T.W. (ft): 14.70 **Time:** 12:40 (taken at initial gauging of all wells)

Final D.T.W. (ft): 15.56 **Time:** 13:38 (taken after sample collection)

If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

Water Quality Parameters - Recorded During Well Purging

Time	Static Water Level	Temp (deg C)	Conductivity (µS/cm)	DO (mg/L)	pH s.u.	ORP (mV)	Purged Volume (see reverse for calc.)	Observations (sheen, odor, organic etc.)
Stabilization Parameters		2°C	3%	10%	1 s.u.	10 mV		
See reverse for notes on purging and stabilization procedures								
12:46		16.4	2886	1.20	6.96	46.6	Initial	light brown
12:55		16.1	2882	1.39	6.91	43.6	1 gal	"
13:05		16.1	2883	1.25	6.91	18.3	2 gal	"
13:15		16.1	2886	1.30	6.92	5.6	3 gal	"
13:26							* Sample	"

Disposal of Purged Water: Evaporation Containerized

Collected Samples Stored on Ice in Cooler: Yes No

Chain of Custody Record Complete: Yes No

Analytical Laboratory: Envirotech, Hall (BOD)

Equipment Used During Sampling:
 34.94349, -104.68544

Notes/Comments (use this area to document well condition and/or other site maintenance issues):

Water quality parameters are considered stable when two (2) consecutive measurements meet the following: temperature is within 2°C; pH is within one (1) standard unit; specific conductance/conductivity is within 3%; dissolved oxygen (DO) is within 10%; and oxidation reduction potential (ORP) is within 10 mV.

The parameters should be recorded approximately every well volume when using a bailer and every 2 minutes when using a pump.

If it is necessary to calculate the volume of the monitoring well to determine what volume of groundwater will need to be purged from the well prior to collecting the samples, use the following equation:

$$\text{Well Volume} = (h)(cf)$$

where:

h = height of water column (feet)

cf = gallons/foot based on well diameter shown below

The gallons/foot for common size monitoring wells are as follows:

Well Diameter (inches)	2"	3"	4"	6"
Volume (gallons/foot)	0.1632	0.3672	0.6528	1.4688

The well volume is typically tripled to determine the volume to be purged.

Show purge volume calculation below:

$$h = \text{Total Well Depth} - \text{Depth To Water} = 18.25 - 14.7 = 3.55$$

$$\text{Well Volume} = (h)(cf) = (3.55)(0.1632) = 0.6$$

$$\text{Total Purge Volume} = 3(\text{Well Volume}) = 1.8$$



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MONITORING WELL DATA FORM

WELL ID: MW-3

Location: 1633 US Route 66

Project: Leonards Chevron

Sampling Technician: D. Aragon

Project No.: 22104-0003

Date: 3/27/2023

Start/End Time: _____

Air Temp: _____

Purge Device: Barler

Well Diameter (in): 2 in

Total Well Depth (ft): 18.5

Water Column (ft): 3.7

Initial D.T.W. (ft): 14.8 **Time:** 13:50 (taken at initial gauging of all wells)

Final D.T.W. (ft): 15.9 **Time:** 15:00 (taken after sample collection)

If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

Water Quality Parameters - Recorded During Well Purging

Time	Static Water Level	Temp (deg C)	Conductivity (µS/cm)	DO (mg/L)	pH s.u.	ORP (mV)	Purged Volume (see reverse for calc.)	Observations (sheen, odor, organic etc.)
Stabilization Parameters		2°C	3%	10%	1 s.u.	10 mV		
See reverse for notes on purging and stabilization procedures								
14:01		17.8	3287	2.90	6.8	7.4	Initial	Orange
14:14		17.6	3513	1.23	6.68	4.0	1gal	"
14:25		17.8	3505	1.31	6.67	8.4	2gal	"
14:32		17.81	3518	1.42	6.67	7.6	3gal	"
14:49							# sample	

Disposal of Purged Water: Evaporation Containerized

Collected Samples Stored on Ice in Cooler: Yes No

Chain of Custody Record Complete: Yes No

Analytical Laboratory: Envirotech, Hall (BOD)

Equipment Used During Sampling:
34.94338, -104.68519

Notes/Comments (use this area to document well condition and/or other site maintenance issues):

Water quality parameters are considered stable when two (2) consecutive measurements meet the following: temperature is within 2°C; pH is within one (1) standard unit; specific conductance/conductivity is within 3%; dissolved oxygen (DO) is within 10%; and oxidation reduction potential (ORP) is within 10 mV.

The parameters should be recorded approximately every well volume when using a bailer and every 2 minutes when using a pump.

If it is necessary to calculate the volume of the monitoring well to determine what volume of groundwater will need to be purged from the well prior to collecting the samples, use the following equation:

$$\text{Well Volume} = (h)(cf)$$

where:

h = height of water column (feet)
 cf = gallons/foot based on well diameter shown below

The gallons/foot for common size monitoring wells are as follows:

Well Diameter (inches)	2"	3"	4"	6"
Volume (gallons/foot)	0.1632	0.3672	0.6528	1.4688

The well volume is typically tripled to determine the volume to be purged.

Show purge volume calculation below:

$$h = \text{Total Well Depth} - \text{Depth To Water} = 16.5 - 14.8 = 3.7$$

$$\text{Well Volume} = (h)(cf) = (3.7)(0.1632) = 0.60$$

$$\text{Total Purge Volume} = 3(\text{Well Volume}) = 1.8$$



Practical Solutions for a Better Tomorrow

Appendix B

Laboratory Analytical Report



Practical Solutions for a Better Tomorrow

Report to:
Greg Crabtree



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

NMED

Project Name: Leonard's Chevron

Work Order: E303107

Job Number: 22104-0003

Received: 3/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/5/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/5/23



Greg Crabtree
3400 2nd Street NW
Albuquerque, NM -

Project Name: Leonard's Chevron
Workorder: E303107
Date Received: 3/28/2023 9:04:00AM

Greg Crabtree,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2023 9:04:00AM, under the Project Name: Leonard's Chevron.

The analytical test results summarized in this report with the Project Name: Leonard's Chevron apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

NMED
3400 2nd Street NW
Albuquerque NM, -

Project Name: Leonard's Chevron
Project Number: 22104-0003
Project Manager: Greg Crabtree

Reported:
04/05/23 16:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
MW-1A	E303107-01A	Aqueous	03/27/23	03/28/23	Poly 250mL
	E303107-01B	Aqueous	03/27/23	03/28/23	Poly 500mL
	E303107-01C	Aqueous	03/27/23	03/28/23	Poly 500mL; H2SO4
	E303107-01D	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
	E303107-01E	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
	E303107-01F	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
MW-2A	E303107-02A	Aqueous	03/27/23	03/28/23	Poly 250mL
	E303107-02B	Aqueous	03/27/23	03/28/23	Poly 500mL
	E303107-02C	Aqueous	03/27/23	03/28/23	Poly 500mL; H2SO4
	E303107-02D	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
	E303107-02E	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
	E303107-02F	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
MW-3	E303107-03A	Aqueous	03/27/23	03/28/23	Poly 250mL
	E303107-03B	Aqueous	03/27/23	03/28/23	Poly 500mL
	E303107-03C	Aqueous	03/27/23	03/28/23	Poly 500mL; H2SO4
	E303107-03D	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
	E303107-03E	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
	E303107-03F	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl
TRIP BLANK	E303107-04A	Aqueous	03/27/23	03/28/23	VOA Vial, 40mL; HCl



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-1A
E303107-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: IY		Batch: 2314011
Acetone	ND	200	5	04/03/23	04/03/23	
Benzene	73.0	5.00	5	04/03/23	04/03/23	
Bromobenzene	ND	5.00	5	04/03/23	04/03/23	
Bromochloromethane	ND	5.00	5	04/03/23	04/03/23	
Bromodichloromethane	ND	5.00	5	04/03/23	04/03/23	
Bromoform	ND	5.00	5	04/03/23	04/03/23	
Bromomethane	ND	10.0	5	04/03/23	04/03/23	
n-Butyl Benzene	ND	5.00	5	04/03/23	04/03/23	
sec-Butylbenzene	ND	5.00	5	04/03/23	04/03/23	
tert-Butylbenzene	ND	5.00	5	04/03/23	04/03/23	
Carbon Tetrachloride	ND	5.00	5	04/03/23	04/03/23	
Chlorobenzene	ND	5.00	5	04/03/23	04/03/23	
Chloroethane	ND	10.0	5	04/03/23	04/03/23	
Chloroform	ND	25.0	5	04/03/23	04/03/23	
Chloromethane	ND	10.0	5	04/03/23	04/03/23	
2-Chlorotoluene	ND	5.00	5	04/03/23	04/03/23	
4-Chlorotoluene	ND	5.00	5	04/03/23	04/03/23	
Dibromochloromethane	ND	5.00	5	04/03/23	04/03/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	25.0	5	04/03/23	04/03/23	
1,2-Dibromoethane (EDB)	ND	10.0	5	04/03/23	04/03/23	
Dibromomethane	ND	5.00	5	04/03/23	04/03/23	
1,2-Dichlorobenzene	ND	5.00	5	04/03/23	04/03/23	
1,3-Dichlorobenzene	ND	5.00	5	04/03/23	04/03/23	
1,4-Dichlorobenzene	ND	5.00	5	04/03/23	04/03/23	
Dichlorodifluoromethane (Freon-12)	ND	10.0	5	04/03/23	04/03/23	
1,1-Dichloroethane	ND	5.00	5	04/03/23	04/03/23	
1,2-Dichloroethane	ND	5.00	5	04/03/23	04/03/23	
1,1-Dichloroethene	ND	5.00	5	04/03/23	04/03/23	
cis-1,2-Dichloroethene	ND	5.00	5	04/03/23	04/03/23	
trans-1,2-Dichloroethene	ND	5.00	5	04/03/23	04/03/23	
1,2-Dichloropropane	ND	5.00	5	04/03/23	04/03/23	
1,3-Dichloropropane	ND	5.00	5	04/03/23	04/03/23	
2,2-Dichloropropane	ND	5.00	5	04/03/23	04/03/23	
1,1-Dichloropropene	ND	5.00	5	04/03/23	04/03/23	
cis-1,3-Dichloropropene	ND	5.00	5	04/03/23	04/03/23	
trans-1,3-Dichloropropene	ND	5.00	5	04/03/23	04/03/23	
Diisopropyl Ether (DIPE)	ND	5.00	5	04/03/23	04/03/23	
Ethylbenzene	58.9	5.00	5	04/03/23	04/03/23	
Ethyl tert-Butyl Ether (ETBE)	ND	5.00	5	04/03/23	04/03/23	
Hexachlorobutadiene	ND	25.0	5	04/03/23	04/03/23	
2-Hexanone	ND	100	5	04/03/23	04/03/23	
Isopropylbenzene	12.6	5.00	5	04/03/23	04/03/23	
4-Isopropyltoluene	ND	5.00	5	04/03/23	04/03/23	
2-Butanone (MEK)	ND	100	5	04/03/23	04/03/23	
Methylene Chloride	ND	10.0	5	04/03/23	04/03/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-1A
E303107-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: IY		Batch: 2314011
1-Methylnaphthalene	ND	50.0	5	04/03/23	04/03/23	
2-Methylnaphthalene	ND	50.0	5	04/03/23	04/03/23	
4-Methyl-2-pentanone (MIBK)	ND	100	5	04/03/23	04/03/23	
Methyl tert-Butyl Ether (MTBE)	21.7	5.00	5	04/03/23	04/03/23	
Naphthalene	ND	25.0	5	04/03/23	04/03/23	
n-Propyl Benzene	16.9	5.00	5	04/03/23	04/03/23	
Styrene	ND	5.00	5	04/03/23	04/03/23	
tert-Amyl Methyl ether (TAME)	ND	5.00	5	04/03/23	04/03/23	
1,1,1,2-Tetrachloroethane	ND	5.00	5	04/03/23	04/03/23	
1,1,2,2-Tetrachloroethane	ND	5.00	5	04/03/23	04/03/23	
Tetrachloroethene	ND	5.00	5	04/03/23	04/03/23	
1,2,3-Trichlorobenzene	ND	25.0	5	04/03/23	04/03/23	
1,2,4-Trichlorobenzene	ND	25.0	5	04/03/23	04/03/23	
1,1,1-Trichloroethane	ND	5.00	5	04/03/23	04/03/23	
1,1,2-Trichloroethane	ND	5.00	5	04/03/23	04/03/23	
Trichloroethene	ND	5.00	5	04/03/23	04/03/23	
Trichlorofluoromethane (Freon-11)	ND	10.0	5	04/03/23	04/03/23	
1,2,3-Trichloropropane	ND	10.0	5	04/03/23	04/03/23	
1,2,4-Trimethylbenzene	ND	25.0	5	04/03/23	04/03/23	
1,3,5-Trimethylbenzene	ND	5.00	5	04/03/23	04/03/23	
Toluene	ND	5.00	5	04/03/23	04/03/23	
Vinyl chloride	ND	10.0	5	04/03/23	04/03/23	
o-Xylene	ND	5.00	5	04/03/23	04/03/23	
p,m-Xylene	ND	10.0	5	04/03/23	04/03/23	
Total Xylenes	ND	5.00	5	04/03/23	04/03/23	
<i>Surrogate: Bromofluorobenzene</i>		90.3 %	70-130	04/03/23	04/03/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.8 %	70-130	04/03/23	04/03/23	
<i>Surrogate: Toluene-d8</i>		99.4 %	70-130	04/03/23	04/03/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-1A
E303107-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C						
Total Dissolved Solids	2940	10.0	1	03/30/23	04/03/23	Batch: 2313044
Wet Chemistry by 410.4						
Chemical Oxygen Demand (COD)	17.7	10.0	1	04/04/23	04/05/23	Batch: 2314021
Anions by EPA 300.0/9056A						
Nitrate-N	ND	5.00	20	03/29/23 11:46	03/29/23 12:12	Batch: 2313043
Sulfate	1740	40.0	20	03/29/23	03/29/23	
Dissolved Metals by EPA 200.7						
Iron	ND	0.800	0.4	03/29/23	04/03/23	
Manganese	0.800	0.200	20	03/29/23	04/04/23	C6



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-2A

E303107-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: IY		Batch: 2314011
Acetone	ND	200	5	04/04/23	04/04/23	
Benzene	ND	5.00	5	04/04/23	04/04/23	
Bromobenzene	ND	5.00	5	04/04/23	04/04/23	
Bromochloromethane	ND	5.00	5	04/04/23	04/04/23	
Bromodichloromethane	ND	5.00	5	04/04/23	04/04/23	
Bromoform	ND	5.00	5	04/04/23	04/04/23	
Bromomethane	ND	10.0	5	04/04/23	04/04/23	
n-Butyl Benzene	ND	5.00	5	04/04/23	04/04/23	
sec-Butylbenzene	ND	5.00	5	04/04/23	04/04/23	
tert-Butylbenzene	ND	5.00	5	04/04/23	04/04/23	
Carbon Tetrachloride	ND	5.00	5	04/04/23	04/04/23	
Chlorobenzene	ND	5.00	5	04/04/23	04/04/23	
Chloroethane	ND	10.0	5	04/04/23	04/04/23	
Chloroform	ND	25.0	5	04/04/23	04/04/23	
Chloromethane	ND	10.0	5	04/04/23	04/04/23	
2-Chlorotoluene	ND	5.00	5	04/04/23	04/04/23	
4-Chlorotoluene	ND	5.00	5	04/04/23	04/04/23	
Dibromochloromethane	ND	5.00	5	04/04/23	04/04/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	25.0	5	04/04/23	04/04/23	
1,2-Dibromoethane (EDB)	ND	10.0	5	04/04/23	04/04/23	
Dibromomethane	ND	5.00	5	04/04/23	04/04/23	
1,2-Dichlorobenzene	ND	5.00	5	04/04/23	04/04/23	
1,3-Dichlorobenzene	ND	5.00	5	04/04/23	04/04/23	
1,4-Dichlorobenzene	ND	5.00	5	04/04/23	04/04/23	
Dichlorodifluoromethane (Freon-12)	ND	10.0	5	04/04/23	04/04/23	
1,1-Dichloroethane	ND	5.00	5	04/04/23	04/04/23	
1,2-Dichloroethane	ND	5.00	5	04/04/23	04/04/23	
1,1-Dichloroethene	ND	5.00	5	04/04/23	04/04/23	
cis-1,2-Dichloroethene	ND	5.00	5	04/04/23	04/04/23	
trans-1,2-Dichloroethene	ND	5.00	5	04/04/23	04/04/23	
1,2-Dichloropropane	ND	5.00	5	04/04/23	04/04/23	
1,3-Dichloropropane	ND	5.00	5	04/04/23	04/04/23	
2,2-Dichloropropane	ND	5.00	5	04/04/23	04/04/23	
1,1-Dichloropropene	ND	5.00	5	04/04/23	04/04/23	
cis-1,3-Dichloropropene	ND	5.00	5	04/04/23	04/04/23	
trans-1,3-Dichloropropene	ND	5.00	5	04/04/23	04/04/23	
Diisopropyl Ether (DIPE)	ND	5.00	5	04/04/23	04/04/23	
Ethylbenzene	ND	5.00	5	04/04/23	04/04/23	
Ethyl tert-Butyl Ether (ETBE)	ND	5.00	5	04/04/23	04/04/23	
Hexachlorobutadiene	ND	25.0	5	04/04/23	04/04/23	
2-Hexanone	ND	100	5	04/04/23	04/04/23	
Isopropylbenzene	ND	5.00	5	04/04/23	04/04/23	
4-Isopropyltoluene	ND	5.00	5	04/04/23	04/04/23	
2-Butanone (MEK)	ND	100	5	04/04/23	04/04/23	
Methylene Chloride	ND	10.0	5	04/04/23	04/04/23	
1-Methylnaphthalene	ND	50.0	5	04/04/23	04/04/23	
2-Methylnaphthalene	ND	50.0	5	04/04/23	04/04/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-2A

E303107-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: IY		Batch: 2314011
4-Methyl-2-pentanone (MIBK)	ND	100	5	04/04/23	04/04/23	
Methyl tert-Butyl Ether (MTBE)	ND	5.00	5	04/04/23	04/04/23	
Naphthalene	ND	25.0	5	04/04/23	04/04/23	
n-Propyl Benzene	ND	5.00	5	04/04/23	04/04/23	
Styrene	ND	5.00	5	04/04/23	04/04/23	
tert-Amyl Methyl ether (TAME)	ND	5.00	5	04/04/23	04/04/23	
1,1,1,2-Tetrachloroethane	ND	5.00	5	04/04/23	04/04/23	
1,1,2,2-Tetrachloroethane	ND	5.00	5	04/04/23	04/04/23	
Tetrachloroethene	ND	5.00	5	04/04/23	04/04/23	
1,2,3-Trichlorobenzene	ND	25.0	5	04/04/23	04/04/23	
1,2,4-Trichlorobenzene	ND	25.0	5	04/04/23	04/04/23	
1,1,1-Trichloroethane	ND	5.00	5	04/04/23	04/04/23	
1,1,2-Trichloroethane	ND	5.00	5	04/04/23	04/04/23	
Trichloroethene	ND	5.00	5	04/04/23	04/04/23	
Trichlorofluoromethane (Freon-11)	ND	10.0	5	04/04/23	04/04/23	
1,2,3-Trichloropropane	ND	10.0	5	04/04/23	04/04/23	
1,2,4-Trimethylbenzene	ND	25.0	5	04/04/23	04/04/23	
1,3,5-Trimethylbenzene	ND	5.00	5	04/04/23	04/04/23	
Toluene	ND	5.00	5	04/04/23	04/04/23	
Vinyl chloride	ND	10.0	5	04/04/23	04/04/23	
o-Xylene	ND	5.00	5	04/04/23	04/04/23	
p,m-Xylene	ND	10.0	5	04/04/23	04/04/23	
Total Xylenes	ND	5.00	5	04/04/23	04/04/23	
<hr/>						
<i>Surrogate: Bromofluorobenzene</i>		86.5 %	70-130	04/04/23	04/04/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.2 %	70-130	04/04/23	04/04/23	
<i>Surrogate: Toluene-d8</i>		97.6 %	70-130	04/04/23	04/04/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-2A
E303107-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C						
Total Dissolved Solids	3020	50.0	1	03/30/23	04/03/23	Batch: 2313044
Wet Chemistry by 410.4						
Chemical Oxygen Demand (COD)	ND	10.0	1	04/04/23	04/05/23	Batch: 2314021
Anions by EPA 300.0/9056A						
Nitrate-N	ND	2.50	10	03/29/23 11:46	03/29/23 12:32	Batch: 2313043
Sulfate	1710	20.0	10	03/29/23	03/29/23	
Dissolved Metals by EPA 200.7						
Iron	ND	0.800	0.4	03/29/23	04/03/23	
Manganese	0.310	0.200	20	03/29/23	04/04/23	C6



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-3

E303107-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: IY		Batch: 2314011
Acetone	ND	200	5	04/04/23	04/04/23	
Benzene	ND	5.00	5	04/04/23	04/04/23	
Bromobenzene	ND	5.00	5	04/04/23	04/04/23	
Bromochloromethane	ND	5.00	5	04/04/23	04/04/23	
Bromodichloromethane	ND	5.00	5	04/04/23	04/04/23	
Bromoform	ND	5.00	5	04/04/23	04/04/23	
Bromomethane	ND	10.0	5	04/04/23	04/04/23	
n-Butyl Benzene	ND	5.00	5	04/04/23	04/04/23	
sec-Butylbenzene	ND	5.00	5	04/04/23	04/04/23	
tert-Butylbenzene	ND	5.00	5	04/04/23	04/04/23	
Carbon Tetrachloride	ND	5.00	5	04/04/23	04/04/23	
Chlorobenzene	ND	5.00	5	04/04/23	04/04/23	
Chloroethane	ND	10.0	5	04/04/23	04/04/23	
Chloroform	ND	25.0	5	04/04/23	04/04/23	
Chloromethane	ND	10.0	5	04/04/23	04/04/23	
2-Chlorotoluene	ND	5.00	5	04/04/23	04/04/23	
4-Chlorotoluene	ND	5.00	5	04/04/23	04/04/23	
Dibromochloromethane	ND	5.00	5	04/04/23	04/04/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	25.0	5	04/04/23	04/04/23	
1,2-Dibromoethane (EDB)	ND	10.0	5	04/04/23	04/04/23	
Dibromomethane	ND	5.00	5	04/04/23	04/04/23	
1,2-Dichlorobenzene	ND	5.00	5	04/04/23	04/04/23	
1,3-Dichlorobenzene	ND	5.00	5	04/04/23	04/04/23	
1,4-Dichlorobenzene	ND	5.00	5	04/04/23	04/04/23	
Dichlorodifluoromethane (Freon-12)	ND	10.0	5	04/04/23	04/04/23	
1,1-Dichloroethane	ND	5.00	5	04/04/23	04/04/23	
1,2-Dichloroethane	ND	5.00	5	04/04/23	04/04/23	
1,1-Dichloroethene	ND	5.00	5	04/04/23	04/04/23	
cis-1,2-Dichloroethene	ND	5.00	5	04/04/23	04/04/23	
trans-1,2-Dichloroethene	ND	5.00	5	04/04/23	04/04/23	
1,2-Dichloropropane	ND	5.00	5	04/04/23	04/04/23	
1,3-Dichloropropane	ND	5.00	5	04/04/23	04/04/23	
2,2-Dichloropropane	ND	5.00	5	04/04/23	04/04/23	
1,1-Dichloropropene	ND	5.00	5	04/04/23	04/04/23	
cis-1,3-Dichloropropene	ND	5.00	5	04/04/23	04/04/23	
trans-1,3-Dichloropropene	ND	5.00	5	04/04/23	04/04/23	
Diisopropyl Ether (DIPE)	ND	5.00	5	04/04/23	04/04/23	
Ethylbenzene	ND	5.00	5	04/04/23	04/04/23	
Ethyl tert-Butyl Ether (ETBE)	ND	5.00	5	04/04/23	04/04/23	
Hexachlorobutadiene	ND	25.0	5	04/04/23	04/04/23	
2-Hexanone	ND	100	5	04/04/23	04/04/23	
Isopropylbenzene	ND	5.00	5	04/04/23	04/04/23	
4-Isopropyltoluene	ND	5.00	5	04/04/23	04/04/23	
2-Butanone (MEK)	ND	100	5	04/04/23	04/04/23	
Methylene Chloride	ND	10.0	5	04/04/23	04/04/23	
1-Methylnaphthalene	ND	50.0	5	04/04/23	04/04/23	
2-Methylnaphthalene	ND	50.0	5	04/04/23	04/04/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-3

E303107-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: IY		Batch: 2314011
4-Methyl-2-pentanone (MIBK)	ND	100	5	04/04/23	04/04/23	
Methyl tert-Butyl Ether (MTBE)	ND	5.00	5	04/04/23	04/04/23	
Naphthalene	ND	25.0	5	04/04/23	04/04/23	
n-Propyl Benzene	ND	5.00	5	04/04/23	04/04/23	
Styrene	ND	5.00	5	04/04/23	04/04/23	
tert-Amyl Methyl ether (TAME)	ND	5.00	5	04/04/23	04/04/23	
1,1,1,2-Tetrachloroethane	ND	5.00	5	04/04/23	04/04/23	
1,1,2,2-Tetrachloroethane	ND	5.00	5	04/04/23	04/04/23	
Tetrachloroethene	ND	5.00	5	04/04/23	04/04/23	
1,2,3-Trichlorobenzene	ND	25.0	5	04/04/23	04/04/23	
1,2,4-Trichlorobenzene	ND	25.0	5	04/04/23	04/04/23	
1,1,1-Trichloroethane	ND	5.00	5	04/04/23	04/04/23	
1,1,2-Trichloroethane	ND	5.00	5	04/04/23	04/04/23	
Trichloroethene	ND	5.00	5	04/04/23	04/04/23	
Trichlorofluoromethane (Freon-11)	ND	10.0	5	04/04/23	04/04/23	
1,2,3-Trichloropropane	ND	10.0	5	04/04/23	04/04/23	
1,2,4-Trimethylbenzene	ND	25.0	5	04/04/23	04/04/23	
1,3,5-Trimethylbenzene	ND	5.00	5	04/04/23	04/04/23	
Toluene	ND	5.00	5	04/04/23	04/04/23	
Vinyl chloride	ND	10.0	5	04/04/23	04/04/23	
o-Xylene	ND	5.00	5	04/04/23	04/04/23	
p,m-Xylene	ND	10.0	5	04/04/23	04/04/23	
Total Xylenes	ND	5.00	5	04/04/23	04/04/23	
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<i>Surrogate: Bromofluorobenzene</i>		86.2 %	70-130	04/04/23	04/04/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	04/04/23	04/04/23	
<i>Surrogate: Toluene-d8</i>		99.4 %	70-130	04/04/23	04/04/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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MW-3

E303107-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C						
Total Dissolved Solids	4350	10.0	1	03/30/23	04/03/23	Batch: 2313044
Wet Chemistry by 410.4						
Chemical Oxygen Demand (COD)	ND	10.0	1	04/04/23	04/05/23	Batch: 2314021
Anions by EPA 300.0/9056A						
Nitrate-N	ND	5.00	20	03/29/23 11:46	03/29/23 12:51	Batch: 2313043
Sulfate	1920	40.0	20	03/29/23	03/29/23	
Dissolved Metals by EPA 200.7						
Iron	ND	0.800	0.4	03/29/23	04/03/23	Batch: 2313028
Manganese	0.0657	0.00400	0.4	03/29/23	04/03/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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E303107-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: IY		Batch: 2314011
Acetone	ND	40.0	1	04/03/23	04/03/23	
Benzene	ND	1.00	1	04/03/23	04/03/23	
Bromobenzene	ND	1.00	1	04/03/23	04/03/23	
Bromochloromethane	ND	1.00	1	04/03/23	04/03/23	
Bromodichloromethane	ND	1.00	1	04/03/23	04/03/23	
Bromoform	ND	1.00	1	04/03/23	04/03/23	
Bromomethane	ND	2.00	1	04/03/23	04/03/23	
n-Butyl Benzene	ND	1.00	1	04/03/23	04/03/23	
sec-Butylbenzene	ND	1.00	1	04/03/23	04/03/23	
tert-Butylbenzene	ND	1.00	1	04/03/23	04/03/23	
Carbon Tetrachloride	ND	1.00	1	04/03/23	04/03/23	
Chlorobenzene	ND	1.00	1	04/03/23	04/03/23	
Chloroethane	ND	2.00	1	04/03/23	04/03/23	
Chloroform	ND	5.00	1	04/03/23	04/03/23	
Chloromethane	ND	2.00	1	04/03/23	04/03/23	
2-Chlorotoluene	ND	1.00	1	04/03/23	04/03/23	
4-Chlorotoluene	ND	1.00	1	04/03/23	04/03/23	
Dibromochloromethane	ND	1.00	1	04/03/23	04/03/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	04/03/23	04/03/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	04/03/23	04/03/23	
Dibromomethane	ND	1.00	1	04/03/23	04/03/23	
1,2-Dichlorobenzene	ND	1.00	1	04/03/23	04/03/23	
1,3-Dichlorobenzene	ND	1.00	1	04/03/23	04/03/23	
1,4-Dichlorobenzene	ND	1.00	1	04/03/23	04/03/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	04/03/23	04/03/23	
1,1-Dichloroethane	ND	1.00	1	04/03/23	04/03/23	
1,2-Dichloroethane	ND	1.00	1	04/03/23	04/03/23	
1,1-Dichloroethene	ND	1.00	1	04/03/23	04/03/23	
cis-1,2-Dichloroethene	ND	1.00	1	04/03/23	04/03/23	
trans-1,2-Dichloroethene	ND	1.00	1	04/03/23	04/03/23	
1,2-Dichloropropane	ND	1.00	1	04/03/23	04/03/23	
1,3-Dichloropropane	ND	1.00	1	04/03/23	04/03/23	
2,2-Dichloropropane	ND	1.00	1	04/03/23	04/03/23	
1,1-Dichloropropene	ND	1.00	1	04/03/23	04/03/23	
cis-1,3-Dichloropropene	ND	1.00	1	04/03/23	04/03/23	
trans-1,3-Dichloropropene	ND	1.00	1	04/03/23	04/03/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	04/03/23	04/03/23	
Ethylbenzene	ND	1.00	1	04/03/23	04/03/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	04/03/23	04/03/23	
Hexachlorobutadiene	ND	5.00	1	04/03/23	04/03/23	
2-Hexanone	ND	20.0	1	04/03/23	04/03/23	
Isopropylbenzene	ND	1.00	1	04/03/23	04/03/23	
4-Isopropyltoluene	ND	1.00	1	04/03/23	04/03/23	
2-Butanone (MEK)	ND	20.0	1	04/03/23	04/03/23	
Methylene Chloride	ND	2.00	1	04/03/23	04/03/23	
1-Methylnaphthalene	ND	10.0	1	04/03/23	04/03/23	
2-Methylnaphthalene	ND	10.0	1	04/03/23	04/03/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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E303107-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: IY		Batch: 2314011
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	04/03/23	04/03/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	04/03/23	04/03/23	
Naphthalene	ND	5.00	1	04/03/23	04/03/23	
n-Propyl Benzene	ND	1.00	1	04/03/23	04/03/23	
Styrene	ND	1.00	1	04/03/23	04/03/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	04/03/23	04/03/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	04/03/23	04/03/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	04/03/23	04/03/23	
Tetrachloroethene	ND	1.00	1	04/03/23	04/03/23	
1,2,3-Trichlorobenzene	ND	5.00	1	04/03/23	04/03/23	
1,2,4-Trichlorobenzene	ND	5.00	1	04/03/23	04/03/23	
1,1,1-Trichloroethane	ND	1.00	1	04/03/23	04/03/23	
1,1,2-Trichloroethane	ND	1.00	1	04/03/23	04/03/23	
Trichloroethene	ND	1.00	1	04/03/23	04/03/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	04/03/23	04/03/23	
1,2,3-Trichloropropane	ND	2.00	1	04/03/23	04/03/23	
1,2,4-Trimethylbenzene	ND	5.00	1	04/03/23	04/03/23	
1,3,5-Trimethylbenzene	ND	1.00	1	04/03/23	04/03/23	
Toluene	ND	1.00	1	04/03/23	04/03/23	
Vinyl chloride	ND	2.00	1	04/03/23	04/03/23	
o-Xylene	ND	1.00	1	04/03/23	04/03/23	
p,m-Xylene	ND	2.00	1	04/03/23	04/03/23	
Total Xylenes	ND	1.00	1	04/03/23	04/03/23	
<i>Surrogate: Bromofluorobenzene</i>		82.1 %	70-130	04/03/23	04/03/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	04/03/23	04/03/23	
<i>Surrogate: Toluene-d8</i>		91.5 %	70-130	04/03/23	04/03/23	



QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	ug/L	ug/L	ug/L	ug/L	%	%	%	%	

Blank (2314011-BLK1)

Prepared: 04/03/23 Analyzed: 04/03/23

Acetone	ND	40.0							
Benzene	ND	1.00							
Bromobenzene	ND	1.00							
Bromochloromethane	ND	1.00							
Bromodichloromethane	ND	1.00							
Bromoform	ND	1.00							
Bromomethane	ND	2.00							
n-Butyl Benzene	ND	1.00							
sec-Butylbenzene	ND	1.00							
tert-Butylbenzene	ND	1.00							
Carbon Tetrachloride	ND	1.00							
Chlorobenzene	ND	1.00							
Chloroethane	ND	2.00							
Chloroform	ND	5.00							
Chloromethane	ND	2.00							
2-Chlorotoluene	ND	1.00							
4-Chlorotoluene	ND	1.00							
Dibromochloromethane	ND	1.00							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00							
1,2-Dibromoethane (EDB)	ND	2.00							
Dibromomethane	ND	1.00							
1,2-Dichlorobenzene	ND	1.00							
1,3-Dichlorobenzene	ND	1.00							
1,4-Dichlorobenzene	ND	1.00							
Dichlorodifluoromethane (Freon-12)	ND	2.00							
1,1-Dichloroethane	ND	1.00							
1,2-Dichloroethane	ND	1.00							
1,1-Dichloroethene	ND	1.00							
cis-1,2-Dichloroethene	ND	1.00							
trans-1,2-Dichloroethene	ND	1.00							
1,2-Dichloropropane	ND	1.00							
1,3-Dichloropropane	ND	1.00							
2,2-Dichloropropane	ND	1.00							
1,1-Dichloropropene	ND	1.00							
cis-1,3-Dichloropropene	ND	1.00							
trans-1,3-Dichloropropene	ND	1.00							
Diisopropyl Ether (DIPE)	ND	1.00							
Ethylbenzene	ND	1.00							
Ethyl tert-Butyl Ether (ETBE)	ND	1.00							
Hexachlorobutadiene	ND	5.00							
2-Hexanone	ND	20.0							
Isopropylbenzene	ND	1.00							
4-Isopropyltoluene	ND	1.00							
2-Butanone (MEK)	ND	20.0							
Methylene Chloride	ND	2.00							
1-Methylnaphthalene	ND	10.0							
2-Methylnaphthalene	ND	10.0							
4-Methyl-2-pentanone (MIBK)	ND	20.0							
Methyl tert-Butyl Ether (MTBE)	ND	1.00							
Naphthalene	ND	5.00							
n-Propyl Benzene	ND	1.00							
Styrene	ND	1.00							
tert-Amyl Methyl ether (TAME)	ND	1.00							
1,1,1,2-Tetrachloroethane	ND	1.00							
1,1,2,2-Tetrachloroethane	ND	1.00							
Tetrachloroethene	ND	1.00							
1,2,3-Trichlorobenzene	ND	5.00							
1,2,4-Trichlorobenzene	ND	5.00							
1,1,1-Trichloroethane	ND	1.00							
1,1,2-Trichloroethane	ND	1.00							
Trichloroethene	ND	1.00							
Trichlorofluoromethane (Freon-11)	ND	2.00							
1,2,3-Trichloropropane	ND	2.00							
1,2,4-Trimethylbenzene	ND	5.00							



QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	ug/L	ug/L	ug/L	ug/L	%	%	%	%	

Blank (2314011-BLK1)

Prepared: 04/03/23 Analyzed: 04/03/23

1,3,5-Trimethylbenzene	ND	1.00							
Toluene	ND	1.00							
Vinyl chloride	ND	2.00							
o-Xylene	ND	1.00							
p,m-Xylene	ND	2.00							
Total Xylenes	ND	1.00							
<i>Surrogate: Bromofluorobenzene</i>	8.86		10.0		88.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.90		10.0		99.0	70-130			
<i>Surrogate: Toluene-d8</i>	9.85		10.0		98.5	70-130			

LCS (2314011-BS1)

Prepared: 04/03/23 Analyzed: 04/03/23

Benzene	51.3	1.00	50.0		103	70-130			
Bromodichloromethane	42.1	1.00	50.0		84.1	70-130			
Chlorobenzene	54.7	1.00	50.0		109	70-130			
Chloroethane	57.9	2.00	50.0		116	41-153			
Chloroform	46.8	5.00	50.0		93.7	80-120			
4-Chlorotoluene	54.7	1.00	50.0		109	70-130			
1,1-Dichloroethene	51.2	1.00	50.0		102	80-120			
trans-1,2-Dichloroethene	53.0	1.00	50.0		106	70-130			
1,3-Dichloropropane	48.3	1.00	50.0		96.5	70-130			
1,1-Dichloropropene	51.7	1.00	50.0		103	70-130			
Ethylbenzene	48.6	1.00	50.0		97.2	80-120			
Ethyl tert-Butyl Ether (ETBE)	45.0	1.00	50.0		90.0	70-130			
2-Hexanone	72.3	20.0	100		72.3	48-171			
4-Isopropyltoluene	54.0	1.00	50.0		108	70-130			
2-Butanone (MEK)	95.7	20.0	100		95.6	26-183			
Methyl tert-Butyl Ether (MTBE)	92.7	1.00	100		92.7	70-130			
1,1,1,2-Tetrachloroethane	48.9	1.00	50.0		97.8	70-130			
1,2,4-Trichlorobenzene	49.8	5.00	50.0		99.6	70-140			
Trichloroethene	47.7	1.00	50.0		95.5	70-130			
1,2,3-Trichloropropane	45.0	2.00	50.0		89.9	70-130			
1,2,4-Trimethylbenzene	53.3	5.00	50.0		107	70-130			
Toluene	52.3	1.00	50.0		105	80-120			
o-Xylene	53.0	1.00	50.0		106	70-130			
p,m-Xylene	102	2.00	100		102	70-130			
Total Xylenes	155	1.00	150		103	70-130			
<i>Surrogate: Bromofluorobenzene</i>	9.13		10.0		91.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.72		10.0		97.2	70-130			
<i>Surrogate: Toluene-d8</i>	9.95		10.0		99.5	70-130			

Matrix Spike (2314011-MS1)

Source: E303107-01

Prepared: 04/03/23 Analyzed: 04/03/23

Benzene	336	5.00	250	73.0	105	59-133			
Bromodichloromethane	205	5.00	250	ND	81.9	69-130			
Chlorobenzene	272	5.00	250	ND	109	70-130			
Chloroethane	311	10.0	250	ND	124	33-155			
Chloroform	237	25.0	250	ND	95.0	66-133			
4-Chlorotoluene	274	5.00	250	ND	110	67-134			
1,1-Dichloroethene	262	5.00	250	ND	105	49-144			
trans-1,2-Dichloroethene	269	5.00	250	ND	108	61-132			
1,3-Dichloropropane	231	5.00	250	ND	92.4	70-130			
1,1-Dichloropropene	263	5.00	250	ND	105	61-136			
Ethylbenzene	309	5.00	250	58.9	99.9	62-136			
Ethyl tert-Butyl Ether (ETBE)	221	5.00	250	ND	88.3	65-135			
2-Hexanone	318	100	500	ND	63.7	25-183			
4-Isopropyltoluene	270	5.00	250	ND	108	63-143			
2-Butanone (MEK)	422	100	500	ND	84.4	22-198			
Methyl tert-Butyl Ether (MTBE)	464	5.00	500	21.7	88.5	61-136			
1,1,1,2-Tetrachloroethane	239	5.00	250	ND	95.8	70-132			
1,2,4-Trichlorobenzene	236	25.0	250	ND	94.3	60-160			
Trichloroethene	223	5.00	250	ND	89.3	49-148			
1,2,3-Trichloropropane	225	10.0	250	ND	89.8	70-134			



QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec %	Rec Limits	RPD %	RPD Limit	Notes
	ug/L	ug/L	ug/L	ug/L	%	%	%	%	

Matrix Spike (2314011-MS1)

Source: E303107-01

Prepared: 04/03/23 Analyzed: 04/03/23

1,2,4-Trimethylbenzene	259	25.0	250	ND	103	60-137			
Toluene	250	5.00	250	ND	100	67-130			
o-Xylene	283	5.00	250	ND	113	70-130			
p,m-Xylene	496	10.0	500	ND	99.3	65-135			
Total Xylenes	779	5.00	750	ND	104	65-135			
<i>Surrogate: Bromofluorobenzene</i>	<i>50.5</i>		<i>50.0</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>48.3</i>		<i>50.0</i>		<i>96.6</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>50.0</i>		<i>98.0</i>	<i>70-130</i>			

Matrix Spike Dup (2314011-MSD1)

Source: E303107-01

Prepared: 04/03/23 Analyzed: 04/03/23

Benzene	340	5.00	250	73.0	107	59-133	1.23	20	
Bromodichloromethane	215	5.00	250	ND	85.8	69-130	4.75	20	
Chlorobenzene	285	5.00	250	ND	114	70-130	4.47	20	
Chloroethane	316	10.0	250	ND	126	33-155	1.52	20	
Chloroform	246	25.0	250	ND	98.4	66-133	3.60	20	
4-Chlorotoluene	262	5.00	250	ND	105	67-134	4.34	20	
1,1-Dichloroethene	270	5.00	250	ND	108	49-144	3.16	20	
trans-1,2-Dichloroethene	279	5.00	250	ND	111	61-132	3.47	20	
1,3-Dichloropropane	239	5.00	250	ND	95.5	70-130	3.38	20	
1,1-Dichloropropene	272	5.00	250	ND	109	61-136	3.48	20	
Ethylbenzene	316	5.00	250	58.9	103	62-136	2.31	20	
Ethyl tert-Butyl Ether (ETBE)	226	5.00	250	ND	90.6	65-135	2.57	20	
2-Hexanone	327	100	500	ND	65.4	25-183	2.71	20	
4-Isopropyltoluene	264	5.00	250	ND	106	63-143	2.06	20	
2-Butanone (MEK)	432	100	500	ND	86.3	22-198	2.23	30	
Methyl tert-Butyl Ether (MTBE)	473	5.00	500	21.7	90.3	61-136	1.99	20	
1,1,1,2-Tetrachloroethane	252	5.00	250	ND	101	70-132	4.93	20	
1,2,4-Trichlorobenzene	291	25.0	250	ND	117	60-160	21.1	20	R3
Trichloroethene	236	5.00	250	ND	94.3	49-148	5.51	20	
1,2,3-Trichloropropane	215	10.0	250	ND	85.9	70-134	4.48	20	
1,2,4-Trimethylbenzene	251	25.0	250	ND	100	60-137	2.88	20	
Toluene	264	5.00	250	ND	105	67-130	5.14	20	
o-Xylene	270	5.00	250	ND	108	70-130	4.47	20	
p,m-Xylene	519	10.0	500	ND	104	65-135	4.46	20	
Total Xylenes	789	5.00	750	ND	105	65-135	1.31	20	
<i>Surrogate: Bromofluorobenzene</i>	<i>45.5</i>		<i>50.0</i>		<i>90.9</i>	<i>70-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.5</i>		<i>50.0</i>		<i>94.9</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.9</i>		<i>50.0</i>		<i>97.8</i>	<i>70-130</i>			



QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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Wet Chem/Gravimetric by SM2540C

Analyst: KF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

Blank (2313044-BLK1)

Prepared: 03/30/23 Analyzed: 04/03/23

Total Dissolved Solids	ND	10.0							
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LCS (2313044-BS1)

Prepared: 03/30/23 Analyzed: 04/03/23

Total Dissolved Solids	97.0	10.0	100		97.0	55-134			
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Duplicate (2313044-DUP1)

Source: E303107-01

Prepared: 03/30/23 Analyzed: 04/03/23

Total Dissolved Solids	2930	10.0		2940			0.341	5	
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QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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Wet Chemistry by 410.4

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

Blank (2314021-BLK1)

Prepared: 04/04/23 Analyzed: 04/05/23

Chemical Oxygen Demand (COD)	ND	10.0							
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LCS (2314021-BS1)

Prepared: 04/04/23 Analyzed: 04/05/23

Chemical Oxygen Demand (COD)	51.3	10.0	50.0		103	90-110			
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LCS Dup (2314021-BSD1)

Prepared: 04/04/23 Analyzed: 04/05/23

Chemical Oxygen Demand (COD)	50.9	10.0	50.0		102	90-110	0.666	20	
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QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

Blank (2313043-BLK1)

Prepared: 03/29/23 Analyzed: 03/29/23

Nitrate-N	ND	0.250							
Sulfate	ND	2.00							

LCS (2313043-BS1)

Prepared: 03/29/23 Analyzed: 03/29/23

Nitrate-N	2.61	0.250	2.50		105	90-110			
Sulfate	25.6	2.00	25.0		102	90-110			

LCS Dup (2313043-BSD1)

Prepared: 03/29/23 Analyzed: 03/29/23

Nitrate-N	2.61	0.250	2.50		104	90-110	0.134	20	
Sulfate	25.6	2.00	25.0		102	90-110	0.0742	20	



QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Leonard's Chevron Project Number: 22104-0003 Project Manager: Greg Crabtree	Reported: 4/5/2023 4:15:05PM
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Dissolved Metals by EPA 200.7

Analyst: JL

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313028-BLK1)

Prepared: 03/28/23 Analyzed: 03/29/23

Iron	ND	0.400							
Manganese	ND	0.00200							

LCS (2313028-BS1)

Prepared: 03/28/23 Analyzed: 03/29/23

Iron	20.4	0.400	20.0		102	85-115			
Manganese	0.0514	0.00200	0.0500		103	85-115			

LCS Dup (2313028-BSD1)

Prepared: 03/28/23 Analyzed: 03/29/23

Iron	20.5	0.400	20.0		103	85-115	0.391	20	
Manganese	0.0502	0.00200	0.0500		100	85-115	2.40	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

NMED	Project Name:	Leonard's Chevron	
3400 2nd Street NW	Project Number:	22104-0003	Reported:
Albuquerque NM, -	Project Manager:	Greg Crabtree	04/05/23 16:15

C6 The CV recovery was outside acceptance limits. The sample was analyzed multiple times all with similar bracketing CV results.

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported


RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Batch: 2313028
 Analyst: 

Sample ID	Initial pH	Initial Date	Filtered Y/N	Date	Final pH	Final Date
E303080-01	6	3-21-03 11:26	Y	6/19	1	6/19
E303050-02	6	12:58	Y	6/19	1	6/19
E303080-03	6	15:06	Y	6/19	1	6/19
E303080-04	6	16:37	Y	6/19	1	6/19
E303080-05	6	17:23	Y	6/19	1	6/19
E303109-01	6	3-27-03 12:25	Y	3-27-03 13:55	1	3-27-03 13:56
E303109-02	5.5	13:26	Y	14:01	1	14:02
E303109-03	5.5	14:49	Y	14:05	1	14:06

Acid Standard ID: E153063
 Lot ID: 95021123 45 ml

Directions: To avoid the hazards of acid in the field, Method 200.7 will allow the laboratory to acidify samples in the laboratory. However, acid must be added at least 24 hours before analysis to dissolve any metals that adsorb to the container walls. If the sample must be analyzed within 24 hours of collection, add the acid immediately. Sample pH and date of preservation must be documented for non-field preserved samples.

Note: The 24 hour time period is specified for this method by the EPA and documented in 40 CFR Part 136 as updated under the Method Update Rule (MUR).

Client: NMED Project: Leonards Chevron Project Manager: Greg Crabtree Address: _____ City, State, Zip _____ Phone: _____ Email: All Enviro Report due by: _____	Bill To Attention: _____ Address: _____ City, State, Zip _____ Phone: _____ Email: _____	Lab Use Only Lab WO# E 303107 Job Number 22104-0003	TAT 1D 2D 3D Standard X	EPA Program CWA SDWA RCRA X State NM CO UT AZ TX
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Iron and Manganese	VOC by 8260	Sulfate and Nitrate	Total Dissolved Solids	COD	1D	2D	3D	Standard	Remarks
12:25	3/27/2023	A	6	MW-1A	1	X	X	X	X	X				X	
13:26	3/27/2023	A	6	MW-2A	2	X	X	X	X	X					
14:40	3/27/2023	A	6	MW-3	3	X	X	X	X	X					
	3/27/23	A	1	Trip Blank	4		X								

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: D. Aragon

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: NMED	Date Received: 03/28/23 09:04	Work Order ID: E303107
Phone: (505) 372-8334	Date Logged In: 03/28/23 10:29	Logged In By: Caitlin Christian
Email: gcrabtree@envirotech-inc.com	Due Date: 04/04/23 17:00 (5 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Diego Aragon

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? Yes
- 15. Are VOC samples collected in VOA Vials? Yes
- 16. Is the head space less than 6-8 mm (pea sized or less)? Yes
- 17. Was a trip blank (TB) included for VOC analyses? Yes
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? Yes
- 22. Are sample(s) correctly preserved? Yes
- 24. Is lab filtration required and/or requested for dissolved metals? Yes

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

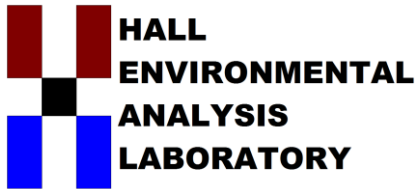
Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 19, 2023

Greg Crabtree

Envirotech

5796 US Highway 64

Farmington, NM 87401

TEL: (505) 632-0615

FAX: (505) 632-1865

RE: Leonards Chevron

OrderNo.: 2303D25

Dear Greg Crabtree:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/27/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2303D25

Date Reported: 4/19/2023

CLIENT: Envirotech
Project: Leonards Chevron

Lab Order: 2303D25

Lab ID: 2303D25-001

Collection Date: 3/27/2023 12:25:00 PM

Client Sample ID: MW-1A

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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SM5210B: BOD

Analyst: SMS

Biochemical Oxygen Demand	<2.46	2.00	E	mg/L	1	4/3/2023 3:21:00 PM	73996
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NOTES:

E-Estimated value due to all bottles having a DO Depletion <2.0 mg/L.

Lab ID: 2303D25-002

Collection Date: 3/27/2023 1:26:00 PM

Client Sample ID: MW-2A

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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SM5210B: BOD

Analyst: SMS

Biochemical Oxygen Demand	DO Depletion<2.0	2.00		mg/L	1	4/3/2023 3:21:00 PM	73996
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Lab ID: 2303D25-003

Collection Date: 3/27/2023 2:49:00 PM

Client Sample ID: MW-3

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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SM5210B: BOD

Analyst: SMS

Biochemical Oxygen Demand	DO Depletion<2.0	2.00		mg/L	1	4/3/2023 3:21:00 PM	73996
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303D25

19-Apr-23

Client: Envirotech
Project: Leonards Chevron

Sample ID: MB-73996	SampType: MBLK	TestCode: SM5210B: BOD								
Client ID: PBW	Batch ID: 73996	RunNo: 95968								
Prep Date: 3/29/2023	Analysis Date: 4/3/2023	SeqNo: 3475015	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.00								

Sample ID: LCS-73996	SampType: LCS	TestCode: SM5210B: BOD								
Client ID: LCSW	Batch ID: 73996	RunNo: 95968								
Prep Date: 3/29/2023	Analysis Date: 4/3/2023	SeqNo: 3475016	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	189	2.00	198.0	0	95.5	84.6	115.4			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Sample Log-In Check List

Client Name: Envirotech

Work Order Number: 2303D25

RcptNo: 1

Received By: Joseph Alderette 3/27/2023 4:20:00 PM

Completed By: Sean Livingston 3/27/2023 4:27:52 PM

Reviewed By: *CML 3/27/23 @ 16:33*

Handwritten initials/signature

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Samples were collected the same day and chilled.
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *SLA 3/27/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	16.6	Good	Not Present	Morty		

Client: NMED
Project: LEONARDO CHEVRON
Project Manager: CIRA CRABTREE
Address: 1633 US ROUTE 66
 CITY, STATE, ZIP SANTA ROSA, NM
Phone:
Email: daragon@envirotech-inc.com
Report due by:

Attention:
Address:
City, State, Zip:
Phone:
Email:

Lab Use Only
Lab WO# F
Job Number 02104-003
Analysis and Method
 DRD/ORO by 8015
 GRD/DRO by 8015
 BTEX by 8021
 VOC by 8260
 Metals 6010
 Chloride 300.0
 NM-BGDOC

TAT
 1D 2D 3D Standard X
 EPA Program
 CWA SDWA
 RCRA X

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TAT				EPA Program										
						1D	2D	3D	Standard		CWA	SDWA								
12:25	3-27-23	A	1	MW-1A						X										
13:26	3-27-23	A	1	MW-2A																
14:49	3-27-23	A	1	MW-3																

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
(Signature)	3/27/23	16:20	(Signature)	3-27-23	16:20
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Sample Matrix: S - Soil, SD - Solid, Sg - Sludge, A - Aqueous, O - Other
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Received on ice: Y / N
 T1 _____ T2 _____ T3 _____
 AVG Temp °C _____

16.8-0.2 = 16.6°C *marty*

