2023 2nd Quarterly Groundwater Monitoring and Sampling Report



Leonard's Conoco

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

July 25, 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

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PROJECT NO. 22104-0003

JULY 2023

2023 2ND 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 2nd 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 (µg/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 (HNO_3) 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/feet with an approximate northwest flow direction, which is consistent with previous groundwater monitoring events. Groundwater elevation increased an average of 2.5 feet relative to the previous monitoring event conducted in 2023. Groundwater elevations are summarized in ***Table 1, Groundwater Elevation*** and depicted on ***Figure 3, Potentiometric Map.***

Groundwater Parameters

Temperature readings ranged from 19.1° degrees Celsius (°C) in MW-1A to 21.3°C in MW-3. SpC readings ranged from 5659 milli siemens (µS) in MW-1A to 13791 (µS) in MW-2A. DO readings ranged from 0.87 milligrams per liter (mg/L) in MW-1A to 1.28 mg/L in MW-2A. PH readings ranged from 6.59 standard units in MW-1A to 6.96 standard units in MW-2A. ORP readings ranged from -191 millivolts (mV) in MW-A to 121 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 µg/L in MW-1A at 87.2 µg/L. All other wells were below standard regulations for benzene. ***Table 2, Groundwater Analytical Results.***

- Manganese levels were above NMWQCC regulations of 200 µg/L in MW-1A at 1310 µg/L and MW-2A at 632 µg/L. ***Table 2, Groundwater Analytical Results.***

- Total Dissolved Solids were above NMWQCC regulations of 1,000 mg/L in MW-1A at 1,930 mg/L, in MW-2A at 6,340 mg/L, and in MW-3 at 2,760 mg/L. ***Table 2, Groundwater Analytical Results.***

- Nitrate levels were below NMWQCC regulations of 10.0 mg/L in all monitoring wells. ***Table 2, Groundwater Analytical Results.***

- Sulfate levels were above NMWQCC regulations of 600.0 mg/L in MW-1A at 1,740 mg/L, MW-2A at 7,330 mg/L, and MW-3 at 1,770 mg/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 2nd Quarterly Groundwater Monitoring Event; all monitoring wells, except MW-3, 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 both analyzed for MW-1A during the 2nd quarterly groundwater monitoring event. Nitrate and Sulfate were also analyzed for all three

wells during the 2nd 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 June 21st, 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.

Reviewed by:

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Figures

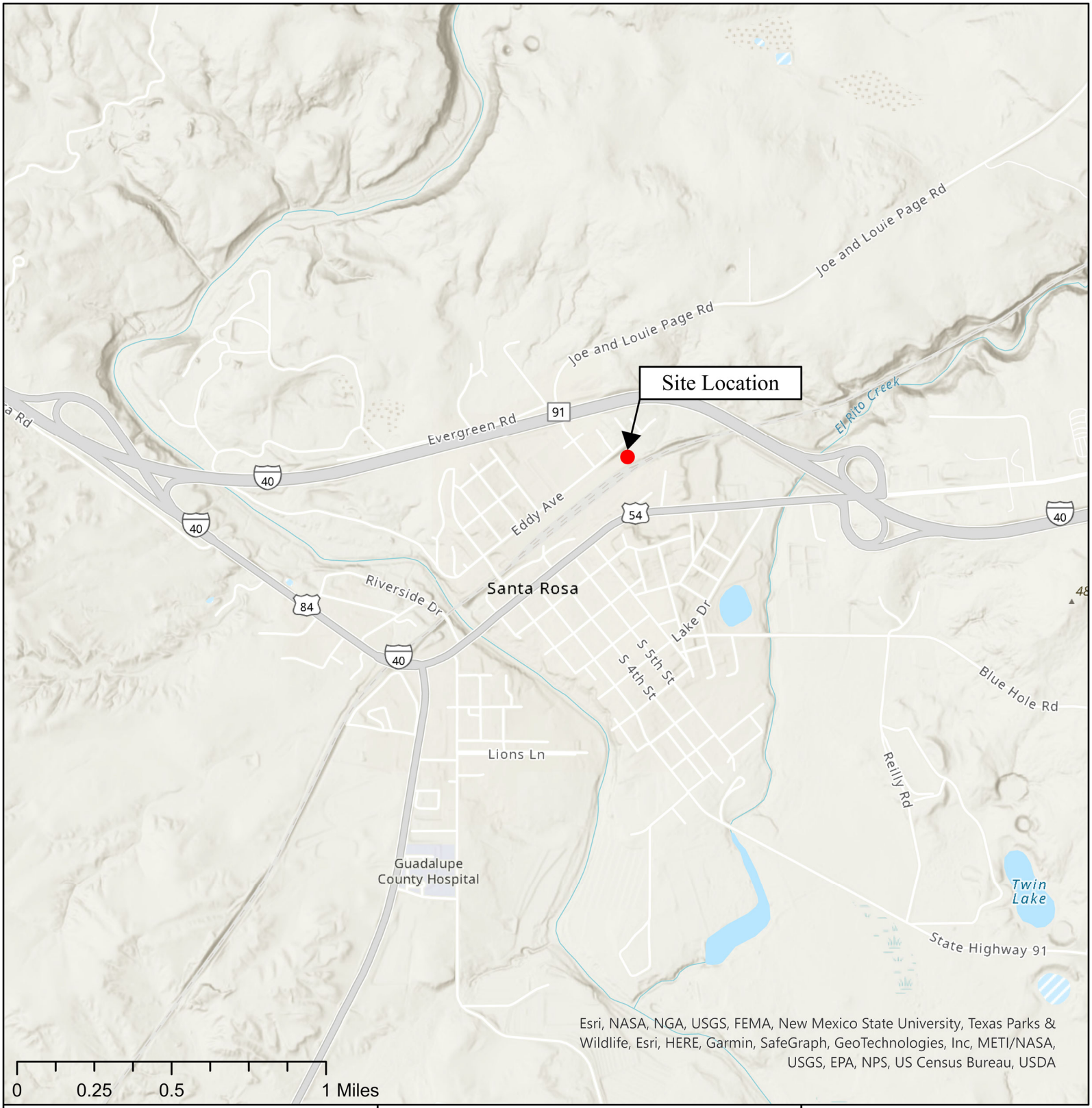

Figure 1, Vicinity Map

NMED PSTB
Leonard's Conoco
NE¼ of the SW¼ of Section 02
Township 8 North, Range 21 East
1633 U.S. Route 66
Santa Rosa, New Mexico
Facility #: 29084, Release ID #: 755
Project #: 22104-0003

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Environmental Scientists and Engineers
5796 U.S. Highway 64
Farmington, New Mexico 87401
505.632.0615

Date Drawn: 11/09/2022
Drawn by: P. Mesa

N

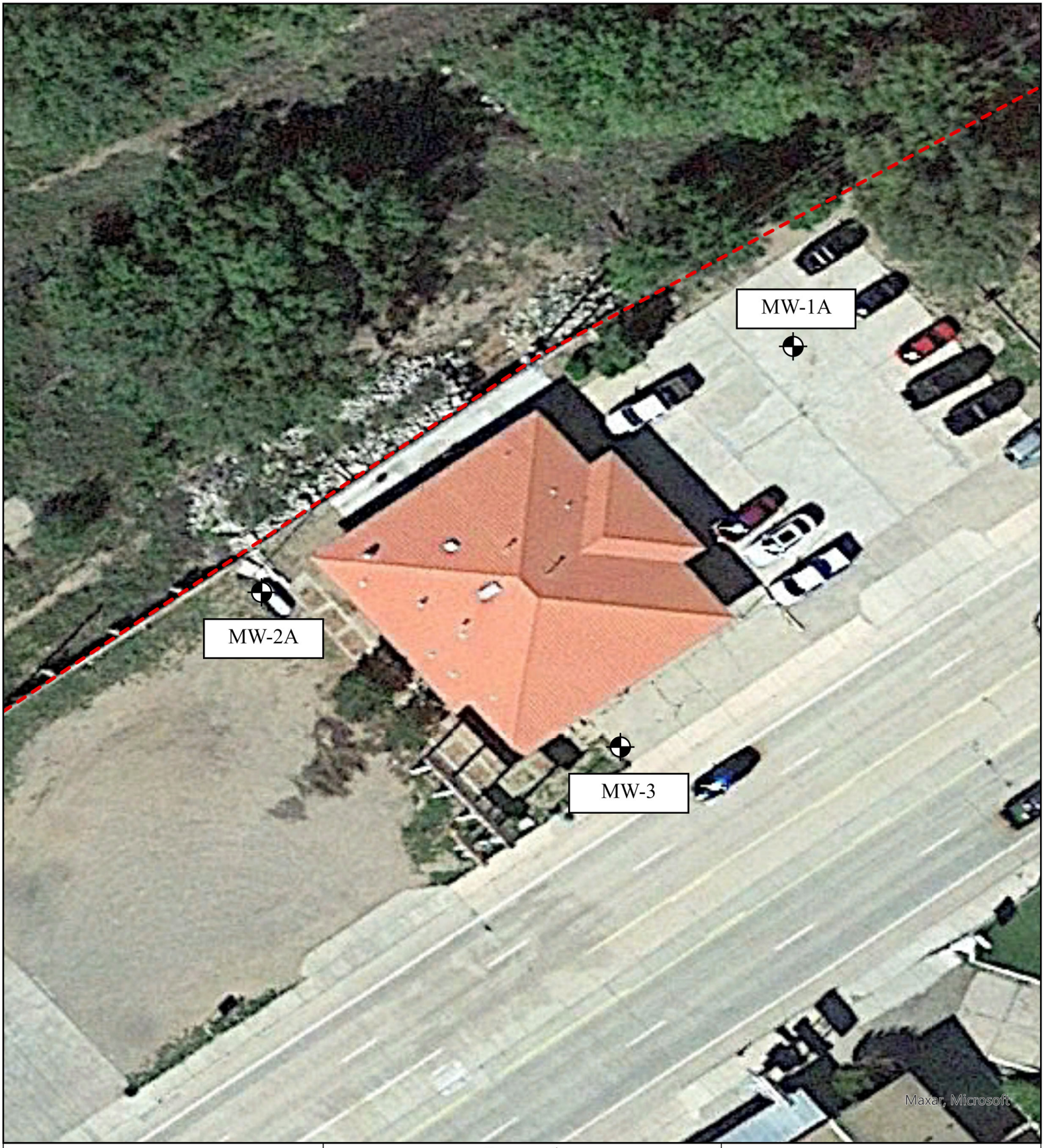

Figure 2, Site Map

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

N
W E
S

1:400

0 20.5 41 82 Feet

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Farmington, New Mexico 87401
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Date Drawn: 01/05/2023
Drawn by: P. Mesa

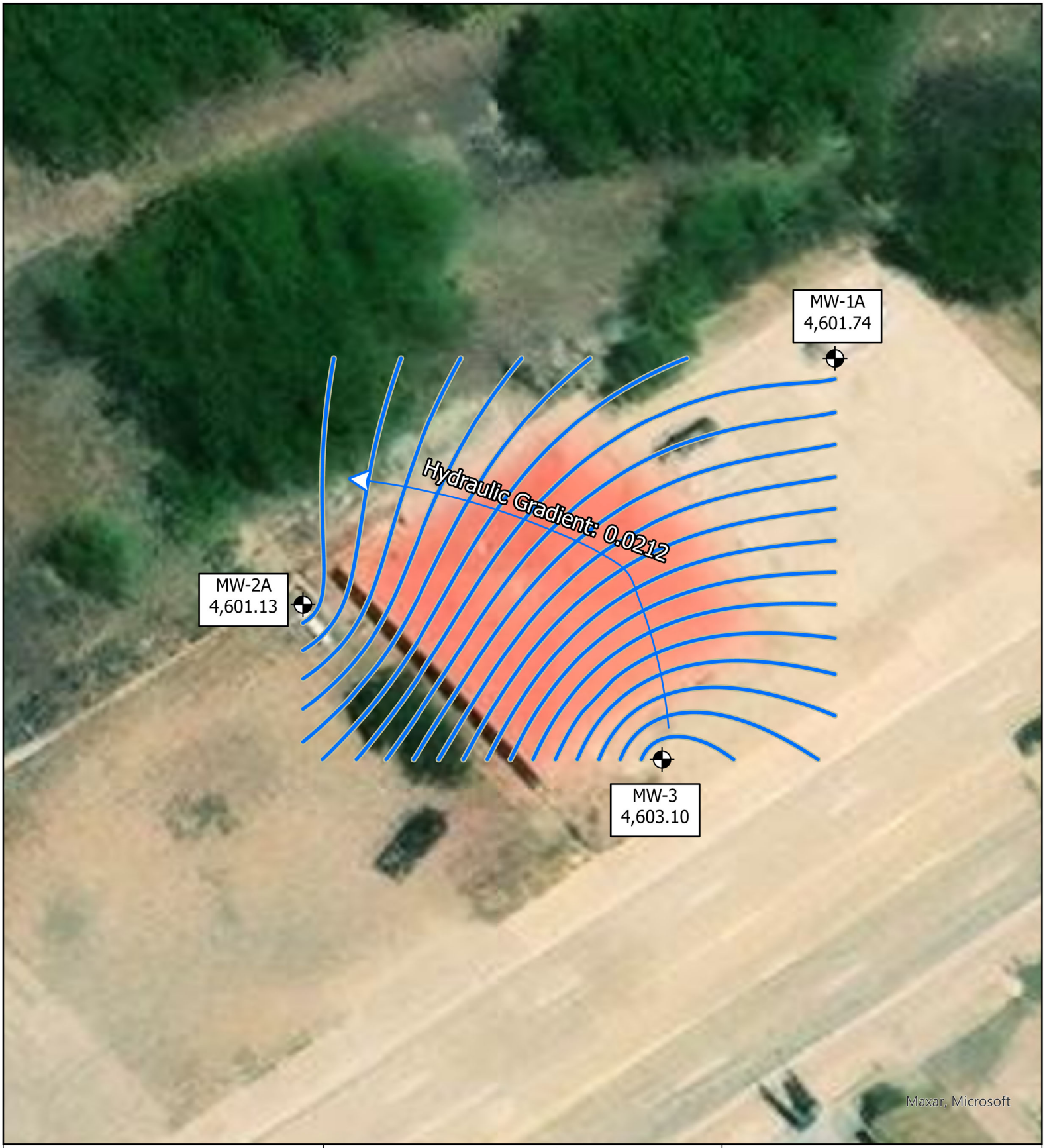

Figure #3, Potentiometric Groundwater Map

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
- Groundwater Contours
- Hydraulic Gradient

N
W E
S

1:400
0 15 30 60 Feet

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Farmington, New Mexico 87401
505.632.0615
Date Drawn: 07/07/2023
Drawn by: P. Mesa

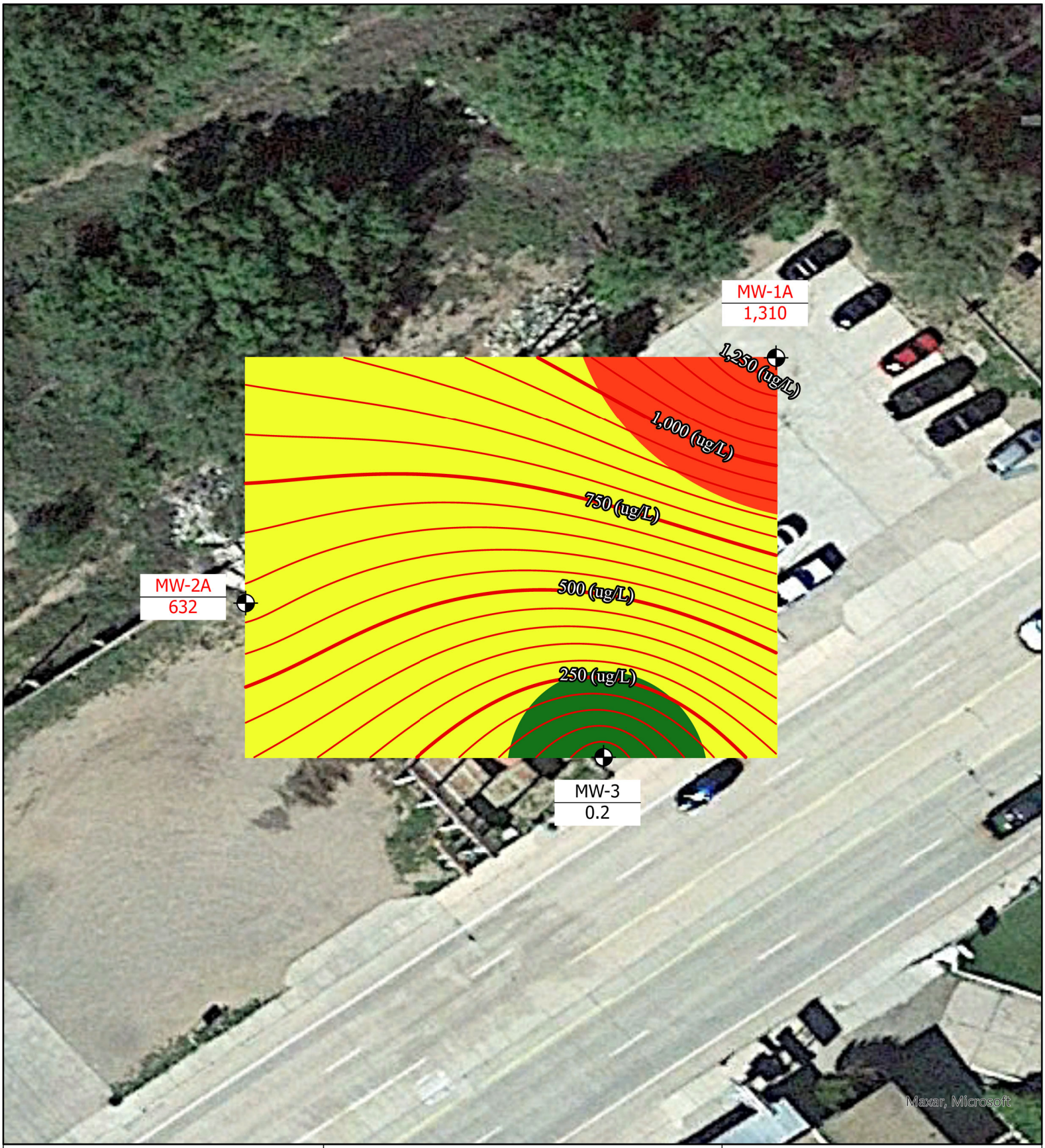

Figure #4, Manganese Concentration map

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

Legend

Monitoring Well

Manganese Concentration
ug/L

- 0.2 - 200
- 200 - 1,000
- 1,000 - 1,310

*Regulatory limits for Manganese are <200 µg/L

N
W E
S

1:400

0 20 40 80 Feet

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Date Drawn: 07/07/2023
Drawn by: P. Mesa

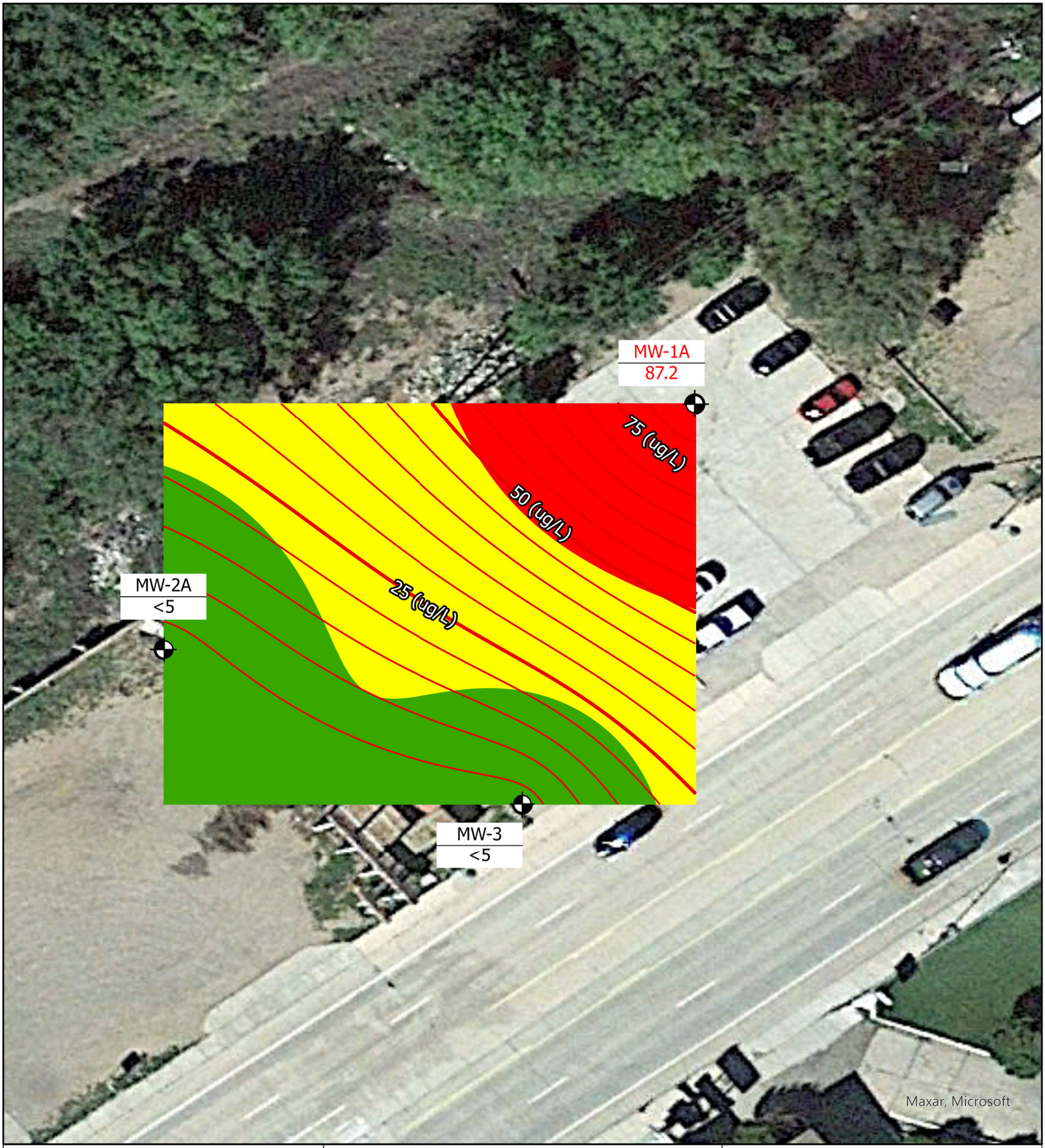

Figure #5, Benzene Concentration Map

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

Benzene

ug/L

- 2.001 - 10
- 10.001 - 50
- 50.001 - 87.2

*Regulatory limits
Benzene are <5 µg/L

N
W E
S

1:400

0 20 40 80 Feet

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Date Drawn: 07/07/2023
Drawn by: P. Mesa

Tables

Table 1 – Groundwater Elevation

Table 2 – Groundwater Analytical Results

Site Name:	Leonard's Conoco
Date:	7/5/2023
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	-1.40
	06/21/23	4,615.84	14.10	4,601.74	2.30
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
	06/21/23	4,613.53	12.40	4,601.13	2.30
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
	06/21/23	4,615.00	11.90	4,603.10	2.90

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)	0.05 (µg/L)	30 (µg/L)	800 (µg/L)	200 (µg/L	1,000 (mg/L)			10.0 (mg/L)	600.0 (mg/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**	**3140**	~	~	<2.5	**1600**
	3/27/2023	**73**	<5.00	58.9	<5.00	21.7	<10.00	<25	<0.800	**800**	**2940**	<2.0	**17.7**	<2.5	**1740**
	6/21/2023	**87.2**	<5.00	220	<5.00	<5.00	<10.00	<25	<0.400	**1310**	**1930**	**6.63**	**21.8**	<2.5	**1740**
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	**3970**	~	~	<2.5	**1600**
	3/27/2023	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<25	<0.800	**310**	**3020**	~	~	<2.5	**1710**
	6/21/2023	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<10.0	<0.400	**632**	**6340**	~	~	<5.00	**7330**
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	**3890**	~	~	<2.5	**1700**
	3/27/2023	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	<25	<0.800	65.7	**4350**	~	~	<2.5	**1920**
	6/21/2023	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<10	<0.400	<0.200	**2760**	~	~	<5.0	**1770**

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

MONITORING WELL DATA FORM

WELL ID: MW-1A

Location: 16133 US Route 66 | Project No.: 22104-0003

Project: Leonards Chevron | Date: 6/21/2023

Sampling Technician: A. Foutz | Start/End Time:

Air Temp:

Purge Device: Bailer | Well Diameter (in): 2"

Total Well Depth (ft): 18.46 | Water Column (ft): 4.36

Initial D.T.W. (ft): 14.1 | Time: 13:48 *(taken at initial gauging of all wells)*

Final D.T.W. (ft): 17.10 | Time: 14:16 *(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.)
Stabilzation Parameters		*2°C*	*3%*	*10%*	*1 s.u.*	*10 mV*		
See reverse for notes on purging and stabilization procedures								
13:55	14.1	20.1	5628	0.80	6.55	-185	Initial	Clear, Odor (sulfur)
14:04	15.08	19.6	5667	0.89	6.57	-184	1 Gal	
14:08	16.90	18.9	5670	1.05	6.59	-190	2 Gal	
14:16	17.10	19.1	5659	0.87	6.59	-191	Sampled	

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

Equipment Used During Sampling: Bailer, YSI, Water Level meter

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

MONITORING WELL DATA FORM

WELL ID: MW-2A

Location: 1633 US Route 66 **Project No.:** 22104-0003

Project: Leonards Chevron **Date:** 6/21/2023

Sampling Technician: A. Foutz **Start/End Time:** 11:30

Air Temp:

Purge Device: Bailer **Well Diameter (in):** 2in

Total Well Depth (ft): 18.25 **Water Column (ft):** 5.85

Initial D.T.W. (ft): 12.4 **Time:** 11:41 *(taken at initial gauging of all wells)*

Final D.T.W. (ft): 13.84 **Time:** 12:26 *(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								
11:41	12.4	19.6°	7006	1.03	6.98	-0.1	☆Initial	Mercy, Slight odor
12:06	13.4	18.4°	14030	0.91	6.96	-37.0	1 Gal	Slight odor
12:11	13.52	19.0°	14065	0.83	6.95	-37.3	2 Gal	Light Brown
12:17	13.84	20.0°	13791	1.28	6.96	-27.2	3 Gal	Light Brown
12:22	13.84						☆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

Equipment Used During Sampling: Bailer, YSI, Water Level Meter

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

MONITORING WELL DATA FORM

WELL ID: MW-3

Location: 1633 US Route 66 | Project No.: 22104-0003

Project: Leonards Chevron | Date: 6/21/2023

Sampling Technician: A. Foutz | Start/End Time:

Air Temp:

Purge Device: Bailer | Well Diameter (in): 2"

Total Well Depth (ft): [redacted] 28.00 | Water Column (ft): 16.09

Initial D.T.W. (ft): 11.90 Time: 14:58 *(taken at initial gauging of all wells)*

Final D.T.W. (ft): 20.90 Time: 13:33 *(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								
13:01	11.90	20.7°	6389	1.23	6.59	42.4	1 Gal Initial	Odor, grey
13:05	13.80	20.1°	5627	1.35	6.65	88.6	1 Gal	
13:08	15.88	20.5°	6468	0.93	6.66	109.2	2 Gal	Yellow/Brown
13:13	17.5	20.1°	6523	1.06	6.67	115.3	3 Gal	
13:17	18.2	19.4	6637	1.07	6.68	117.2	4 Gal	Slight Odor
13:22	18.90	20.7	6615	1.01	6.68	119.8	5 Gal	
13:27	20.05	20.8	6662	1.08	6.68	120.6	6 Gal	Murky
[redacted]	[redacted]						[redacted]	
13:30	20.90	21.3	6655	1.10	6.68	121.0	7 Gal	
13:33	20.90						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

Equipment Used During Sampling: Bailer, YSI, Water Level meter

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

Appendix B

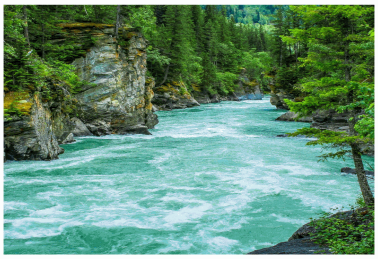
Laboratory Analytical Report

envirotech

Practical Solutions for a Better Tomorrow

Report to:

Greg Crabtree



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

NMED

Project Name:	2nd Quarterly GW Sampling and Monitoring
Work Order:	E306174
Job Number:	22104-0003
Received:	6/22/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/30/23

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: 6/30/23

Greg Crabtree
3400 2nd Street NW
Albuquerque, NM -

Project Name: 2nd Quarterly GW Sampling and Monitoring
Workorder: E306174
Date Received: 6/22/2023 9:09:00AM

Greg Crabtree,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/22/2023 9:09:00AM, under the Project Name: 2nd Quarterly GW Sampling and Monitoring.

The analytical test results summarized in this report with the Project Name: 2nd Quarterly GW Sampling and Monitoring 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 reguarding 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	**Reported:**
3400 2nd Street NW	Project Number:	22104-0003	
Albuquerque NM, -	Project Manager:	Greg Crabtree	06/30/23 11:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
MW-1A	E306174-01A	Aqueous	06/21/23	06/22/23	Poly 500mL
	E306174-01B	Aqueous	06/21/23	06/22/23	Poly 500mL
	E306174-01C	Aqueous	06/21/23	06/22/23	Poly 250mL; HNO3
	E306174-01D	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
	E306174-01E	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
	E306174-01F	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
MW-2A	E306174-02A	Aqueous	06/21/23	06/22/23	Poly 500mL
	E306174-02B	Aqueous	06/21/23	06/22/23	Poly 250mL; HNO3
	E306174-02C	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
	E306174-02D	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
	E306174-02E	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
MW-3	E306174-03A	Aqueous	06/21/23	06/22/23	Poly 500mL
	E306174-03B	Aqueous	06/21/23	06/22/23	Poly 250mL; HNO3
	E306174-03C	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
	E306174-03D	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
	E306174-03E	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl
Trip Blank	E306174-04A	Aqueous	06/21/23	06/22/23	VOA Vial, 40mL; HCl

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-1A

E306174-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: IY			Batch: 2326012
Acetone	ND	200	5	06/26/23	06/26/23	
Benzene	**87.2**	5.00	5	06/26/23	06/26/23	
Bromobenzene	ND	5.00	5	06/26/23	06/26/23	
Bromochloromethane	ND	5.00	5	06/26/23	06/26/23	
Bromodichloromethane	ND	5.00	5	06/26/23	06/26/23	
Bromoform	ND	5.00	5	06/26/23	06/26/23	
Bromomethane	ND	10.0	5	06/26/23	06/26/23	
n-Butyl Benzene	ND	5.00	5	06/26/23	06/26/23	
sec-Butylbenzene	ND	5.00	5	06/26/23	06/26/23	
tert-Butylbenzene	ND	5.00	5	06/26/23	06/26/23	
Carbon Tetrachloride	ND	5.00	5	06/26/23	06/26/23	
Chlorobenzene	ND	5.00	5	06/26/23	06/26/23	
Chloroethane	ND	10.0	5	06/26/23	06/26/23	
Chloroform	ND	25.0	5	06/26/23	06/26/23	
Chloromethane	ND	10.0	5	06/26/23	06/26/23	
2-Chlorotoluene	ND	5.00	5	06/26/23	06/26/23	
4-Chlorotoluene	ND	5.00	5	06/26/23	06/26/23	
Dibromochloromethane	ND	5.00	5	06/26/23	06/26/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	25.0	5	06/26/23	06/26/23	
1,2-Dibromoethane (EDB)	ND	10.0	5	06/26/23	06/26/23	
Dibromomethane	ND	5.00	5	06/26/23	06/26/23	
1,2-Dichlorobenzene	ND	5.00	5	06/26/23	06/26/23	
1,3-Dichlorobenzene	ND	5.00	5	06/26/23	06/26/23	
1,4-Dichlorobenzene	ND	5.00	5	06/26/23	06/26/23	
Dichlorodifluoromethane (Freon-12)	ND	10.0	5	06/26/23	06/26/23	
1,1-Dichloroethane	ND	5.00	5	06/26/23	06/26/23	
1,2-Dichloroethane	ND	5.00	5	06/26/23	06/26/23	
1,1-Dichloroethene	ND	5.00	5	06/26/23	06/26/23	
cis-1,2-Dichloroethene	ND	5.00	5	06/26/23	06/26/23	
trans-1,2-Dichloroethene	ND	5.00	5	06/26/23	06/26/23	
1,2-Dichloropropane	ND	5.00	5	06/26/23	06/26/23	
1,3-Dichloropropane	ND	5.00	5	06/26/23	06/26/23	
2,2-Dichloropropane	ND	5.00	5	06/26/23	06/26/23	
1,1-Dichloropropene	ND	5.00	5	06/26/23	06/26/23	
cis-1,3-Dichloropropene	ND	5.00	5	06/26/23	06/26/23	
trans-1,3-Dichloropropene	ND	5.00	5	06/26/23	06/26/23	
Diisopropyl Ether (DIPE)	ND	5.00	5	06/26/23	06/26/23	
Ethylbenzene	**220**	5.00	5	06/26/23	06/26/23	
Ethyl tert-Butyl Ether (ETBE)	ND	5.00	5	06/26/23	06/26/23	
Hexachlorobutadiene	ND	25.0	5	06/26/23	06/26/23	
2-Hexanone	ND	100	5	06/26/23	06/26/23	
Isopropylbenzene	**18.8**	5.00	5	06/26/23	06/26/23	
4-Isopropyltoluene	ND	5.00	5	06/26/23	06/26/23	
2-Butanone (MEK)	ND	100	5	06/26/23	06/26/23	
Methylene Chloride	ND	10.0	5	06/26/23	06/26/23	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-1A

E306174-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: IY			Batch: 2326012
1-Methylnaphthalene	ND	50.0	5	06/26/23	06/26/23	
2-Methylnaphthalene	ND	50.0	5	06/26/23	06/26/23	
4-Methyl-2-pentanone (MIBK)	ND	100	5	06/26/23	06/26/23	
Methyl tert-Butyl Ether (MTBE)	ND	5.00	5	06/26/23	06/26/23	
Naphthalene	ND	25.0	5	06/26/23	06/26/23	
n-Propyl Benzene	**24.4**	5.00	5	06/26/23	06/26/23	
Styrene	ND	5.00	5	06/26/23	06/26/23	
tert-Amyl Methyl ether (TAME)	ND	5.00	5	06/26/23	06/26/23	
1,1,1,2-Tetrachloroethane	ND	5.00	5	06/26/23	06/26/23	
1,1,2,2-Tetrachloroethane	ND	5.00	5	06/26/23	06/26/23	
Tetrachloroethene	ND	5.00	5	06/26/23	06/26/23	
1,2,3-Trichlorobenzene	ND	25.0	5	06/26/23	06/26/23	
1,2,4-Trichlorobenzene	ND	25.0	5	06/26/23	06/26/23	
1,1,1-Trichloroethane	ND	5.00	5	06/26/23	06/26/23	
1,1,2-Trichloroethane	ND	5.00	5	06/26/23	06/26/23	
Trichloroethene	ND	5.00	5	06/26/23	06/26/23	
Trichlorofluoromethane (Freon-11)	ND	10.0	5	06/26/23	06/26/23	
1,2,3-Trichloropropane	ND	10.0	5	06/26/23	06/26/23	
1,2,4-Trimethylbenzene	ND	25.0	5	06/26/23	06/26/23	
1,3,5-Trimethylbenzene	ND	5.00	5	06/26/23	06/26/23	
Toluene	ND	5.00	5	06/26/23	06/26/23	
Vinyl chloride	ND	10.0	5	06/26/23	06/26/23	
o-Xylene	ND	5.00	5	06/26/23	06/26/23	
p,m-Xylene	ND	10.0	5	06/26/23	06/26/23	
Total Xylenes	ND	5.00	5	06/26/23	06/26/23	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/26/23*	*06/26/23*	
Surrogate: 1,2-Dichloroethane-d4		*96.1 %*	*70-130*	*06/26/23*	*06/26/23*	
Surrogate: Toluene-d8		*98.6 %*	*70-130*	*06/26/23*	*06/26/23*	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-1A

E306174-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS			Batch: 2325053
Total Dissolved Solids	**1930**	10.0	1	06/22/23	06/23/23	
Wet Chemistry by 410.4	mg/L	mg/L	Analyst: RAS			Batch: 2326036
Chemical Oxygen Demand (COD)	**21.8**	10.0	1	06/27/23	06/27/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS			Batch: 2325063
Nitrate-N	ND	2.50	10	06/22/23 12:33	06/22/23 20:06	
Sulfate	**1740**	20.0	10	06/22/23	06/22/23	
Dissolved Metals by EPA 200.7	mg/L	mg/L	Analyst: RKS			Batch: 2326031
Iron	ND	0.400	0.2	06/27/23	06/29/23	
Manganese	**1.31**	0.0400	4	06/27/23	06/29/23	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-2A

E306174-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: IY			Batch: 2326012
Acetone	ND	80.0	2	06/26/23	06/26/23	
Benzene	ND	2.00	2	06/26/23	06/26/23	
Bromobenzene	ND	2.00	2	06/26/23	06/26/23	
Bromochloromethane	ND	2.00	2	06/26/23	06/26/23	
Bromodichloromethane	ND	2.00	2	06/26/23	06/26/23	
Bromoform	ND	2.00	2	06/26/23	06/26/23	
Bromomethane	ND	4.00	2	06/26/23	06/26/23	
n-Butyl Benzene	ND	2.00	2	06/26/23	06/26/23	
sec-Butylbenzene	ND	2.00	2	06/26/23	06/26/23	
tert-Butylbenzene	ND	2.00	2	06/26/23	06/26/23	
Carbon Tetrachloride	ND	2.00	2	06/26/23	06/26/23	
Chlorobenzene	ND	2.00	2	06/26/23	06/26/23	
Chloroethane	ND	4.00	2	06/26/23	06/26/23	
Chloroform	ND	10.0	2	06/26/23	06/26/23	
Chloromethane	ND	4.00	2	06/26/23	06/26/23	
2-Chlorotoluene	ND	2.00	2	06/26/23	06/26/23	
4-Chlorotoluene	ND	2.00	2	06/26/23	06/26/23	
Dibromochloromethane	ND	2.00	2	06/26/23	06/26/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10.0	2	06/26/23	06/26/23	
1,2-Dibromoethane (EDB)	ND	4.00	2	06/26/23	06/26/23	
Dibromomethane	ND	2.00	2	06/26/23	06/26/23	
1,2-Dichlorobenzene	ND	2.00	2	06/26/23	06/26/23	
1,3-Dichlorobenzene	ND	2.00	2	06/26/23	06/26/23	
1,4-Dichlorobenzene	ND	2.00	2	06/26/23	06/26/23	
Dichlorodifluoromethane (Freon-12)	ND	4.00	2	06/26/23	06/26/23	
1,1-Dichloroethane	ND	2.00	2	06/26/23	06/26/23	
1,2-Dichloroethane	ND	2.00	2	06/26/23	06/26/23	
1,1-Dichloroethene	ND	2.00	2	06/26/23	06/26/23	
cis-1,2-Dichloroethene	ND	2.00	2	06/26/23	06/26/23	
trans-1,2-Dichloroethene	ND	2.00	2	06/26/23	06/26/23	
1,2-Dichloropropane	ND	2.00	2	06/26/23	06/26/23	
1,3-Dichloropropane	ND	2.00	2	06/26/23	06/26/23	
2,2-Dichloropropane	ND	2.00	2	06/26/23	06/26/23	
1,1-Dichloropropene	ND	2.00	2	06/26/23	06/26/23	
cis-1,3-Dichloropropene	ND	2.00	2	06/26/23	06/26/23	
trans-1,3-Dichloropropene	ND	2.00	2	06/26/23	06/26/23	
Diisopropyl Ether (DIPE)	ND	2.00	2	06/26/23	06/26/23	
Ethylbenzene	ND	2.00	2	06/26/23	06/26/23	
Ethyl tert-Butyl Ether (ETBE)	ND	2.00	2	06/26/23	06/26/23	
Hexachlorobutadiene	ND	10.0	2	06/26/23	06/26/23	
2-Hexanone	ND	40.0	2	06/26/23	06/26/23	
Isopropylbenzene	ND	2.00	2	06/26/23	06/26/23	
4-Isopropyltoluene	ND	2.00	2	06/26/23	06/26/23	
2-Butanone (MEK)	ND	40.0	2	06/26/23	06/26/23	
Methylene Chloride	ND	4.00	2	06/26/23	06/26/23	
1-Methylnaphthalene	ND	20.0	2	06/26/23	06/26/23	
2-Methylnaphthalene	ND	20.0	2	06/26/23	06/26/23	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-2A

E306174-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: IY			Batch: 2326012
4-Methyl-2-pentanone (MIBK)	ND	40.0	2	06/26/23	06/26/23	
Methyl tert-Butyl Ether (MTBE)	ND	2.00	2	06/26/23	06/26/23	
Naphthalene	ND	10.0	2	06/26/23	06/26/23	
n-Propyl Benzene	ND	2.00	2	06/26/23	06/26/23	
Styrene	ND	2.00	2	06/26/23	06/26/23	
tert-Amyl Methyl ether (TAME)	ND	2.00	2	06/26/23	06/26/23	
1,1,1,2-Tetrachloroethane	ND	2.00	2	06/26/23	06/26/23	
1,1,2,2-Tetrachloroethane	ND	2.00	2	06/26/23	06/26/23	
Tetrachloroethene	ND	2.00	2	06/26/23	06/26/23	
1,2,3-Trichlorobenzene	ND	10.0	2	06/26/23	06/26/23	
1,2,4-Trichlorobenzene	ND	10.0	2	06/26/23	06/26/23	
1,1,1-Trichloroethane	ND	2.00	2	06/26/23	06/26/23	
1,1,2-Trichloroethane	ND	2.00	2	06/26/23	06/26/23	
Trichloroethene	ND	2.00	2	06/26/23	06/26/23	
Trichlorofluoromethane (Freon-11)	ND	4.00	2	06/26/23	06/26/23	
1,2,3-Trichloropropane	ND	4.00	2	06/26/23	06/26/23	
1,2,4-Trimethylbenzene	ND	10.0	2	06/26/23	06/26/23	
1,3,5-Trimethylbenzene	ND	2.00	2	06/26/23	06/26/23	
Toluene	ND	2.00	2	06/26/23	06/26/23	
Vinyl chloride	ND	4.00	2	06/26/23	06/26/23	
o-Xylene	ND	2.00	2	06/26/23	06/26/23	
p,m-Xylene	ND	4.00	2	06/26/23	06/26/23	
Total Xylenes	ND	2.00	2	06/26/23	06/26/23	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*06/26/23*	*06/26/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*06/26/23*	*06/26/23*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/26/23*	*06/26/23*	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-2A

E306174-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS			Batch: 2325053
Total Dissolved Solids	**6340**	25.0	1	06/22/23	06/23/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS			Batch: 2325063
Nitrate-N	ND	5.00	20	06/22/23 12:33	06/26/23 13:24	H4
Sulfate	**7330**	40.0	20	06/22/23	06/26/23	
Dissolved Metals by EPA 200.7	mg/L	mg/L	Analyst: RKS			Batch: 2326031
Iron	ND	0.400	0.2	06/27/23	06/29/23	
Manganese	**0.632**	0.0400	4	06/27/23	06/29/23	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-3

E306174-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: IY			Batch: 2326012
Acetone	ND	80.0	2	06/26/23	06/26/23	
Benzene	ND	2.00	2	06/26/23	06/26/23	
Bromobenzene	ND	2.00	2	06/26/23	06/26/23	
Bromochloromethane	ND	2.00	2	06/26/23	06/26/23	
Bromodichloromethane	ND	2.00	2	06/26/23	06/26/23	
Bromoform	ND	2.00	2	06/26/23	06/26/23	
Bromomethane	ND	4.00	2	06/26/23	06/26/23	
n-Butyl Benzene	ND	2.00	2	06/26/23	06/26/23	
sec-Butylbenzene	ND	2.00	2	06/26/23	06/26/23	
tert-Butylbenzene	ND	2.00	2	06/26/23	06/26/23	
Carbon Tetrachloride	ND	2.00	2	06/26/23	06/26/23	
Chlorobenzene	ND	2.00	2	06/26/23	06/26/23	
Chloroethane	ND	4.00	2	06/26/23	06/26/23	
Chloroform	ND	10.0	2	06/26/23	06/26/23	
Chloromethane	ND	4.00	2	06/26/23	06/26/23	
2-Chlorotoluene	ND	2.00	2	06/26/23	06/26/23	
4-Chlorotoluene	ND	2.00	2	06/26/23	06/26/23	
Dibromochloromethane	ND	2.00	2	06/26/23	06/26/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10.0	2	06/26/23	06/26/23	
1,2-Dibromoethane (EDB)	ND	4.00	2	06/26/23	06/26/23	
Dibromomethane	ND	2.00	2	06/26/23	06/26/23	
1,2-Dichlorobenzene	ND	2.00	2	06/26/23	06/26/23	
1,3-Dichlorobenzene	ND	2.00	2	06/26/23	06/26/23	
1,4-Dichlorobenzene	ND	2.00	2	06/26/23	06/26/23	
Dichlorodifluoromethane (Freon-12)	ND	4.00	2	06/26/23	06/26/23	
1,1-Dichloroethane	ND	2.00	2	06/26/23	06/26/23	
1,2-Dichloroethane	ND	2.00	2	06/26/23	06/26/23	
1,1-Dichloroethene	ND	2.00	2	06/26/23	06/26/23	
cis-1,2-Dichloroethene	ND	2.00	2	06/26/23	06/26/23	
trans-1,2-Dichloroethene	ND	2.00	2	06/26/23	06/26/23	
1,2-Dichloropropane	ND	2.00	2	06/26/23	06/26/23	
1,3-Dichloropropane	ND	2.00	2	06/26/23	06/26/23	
2,2-Dichloropropane	ND	2.00	2	06/26/23	06/26/23	
1,1-Dichloropropene	ND	2.00	2	06/26/23	06/26/23	
cis-1,3-Dichloropropene	ND	2.00	2	06/26/23	06/26/23	
trans-1,3-Dichloropropene	ND	2.00	2	06/26/23	06/26/23	
Diisopropyl Ether (DIPE)	ND	2.00	2	06/26/23	06/26/23	
Ethylbenzene	ND	2.00	2	06/26/23	06/26/23	
Ethyl tert-Butyl Ether (ETBE)	ND	2.00	2	06/26/23	06/26/23	
Hexachlorobutadiene	ND	10.0	2	06/26/23	06/26/23	
2-Hexanone	ND	40.0	2	06/26/23	06/26/23	
Isopropylbenzene	ND	2.00	2	06/26/23	06/26/23	
4-Isopropyltoluene	ND	2.00	2	06/26/23	06/26/23	
2-Butanone (MEK)	ND	40.0	2	06/26/23	06/26/23	
Methylene Chloride	ND	4.00	2	06/26/23	06/26/23	
1-Methylnaphthalene	ND	20.0	2	06/26/23	06/26/23	
2-Methylnaphthalene	ND	20.0	2	06/26/23	06/26/23	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-3

E306174-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: IY			Batch: 2326012
4-Methyl-2-pentanone (MIBK)	ND	40.0	2	06/26/23	06/26/23	
Methyl tert-Butyl Ether (MTBE)	ND	2.00	2	06/26/23	06/26/23	
Naphthalene	ND	10.0	2	06/26/23	06/26/23	
n-Propyl Benzene	ND	2.00	2	06/26/23	06/26/23	
Styrene	ND	2.00	2	06/26/23	06/26/23	
tert-Amyl Methyl ether (TAME)	ND	2.00	2	06/26/23	06/26/23	
1,1,1,2-Tetrachloroethane	ND	2.00	2	06/26/23	06/26/23	
1,1,2,2-Tetrachloroethane	ND	2.00	2	06/26/23	06/26/23	
Tetrachloroethene	ND	2.00	2	06/26/23	06/26/23	
1,2,3-Trichlorobenzene	ND	10.0	2	06/26/23	06/26/23	
1,2,4-Trichlorobenzene	ND	10.0	2	06/26/23	06/26/23	
1,1,1-Trichloroethane	ND	2.00	2	06/26/23	06/26/23	
1,1,2-Trichloroethane	ND	2.00	2	06/26/23	06/26/23	
Trichloroethene	ND	2.00	2	06/26/23	06/26/23	
Trichlorofluoromethane (Freon-11)	ND	4.00	2	06/26/23	06/26/23	
1,2,3-Trichloropropane	ND	4.00	2	06/26/23	06/26/23	
1,2,4-Trimethylbenzene	ND	10.0	2	06/26/23	06/26/23	
1,3,5-Trimethylbenzene	ND	2.00	2	06/26/23	06/26/23	
Toluene	ND	2.00	2	06/26/23	06/26/23	
Vinyl chloride	ND	4.00	2	06/26/23	06/26/23	
o-Xylene	ND	2.00	2	06/26/23	06/26/23	
p,m-Xylene	ND	4.00	2	06/26/23	06/26/23	
Total Xylenes	ND	2.00	2	06/26/23	06/26/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*06/26/23*	*06/26/23*	
Surrogate: 1,2-Dichloroethane-d4		*94.5 %*	*70-130*	*06/26/23*	*06/26/23*	
Surrogate: Toluene-d8		*99.4 %*	*70-130*	*06/26/23*	*06/26/23*	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

MW-3

E306174-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS			Batch: 2325053
Total Dissolved Solids	**2760**	10.0	1	06/22/23	06/23/23	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS			Batch: 2325063
Nitrate-N	ND	5.00	20	06/22/23 12:33	06/22/23 20:45	
Sulfate	**1770**	40.0	20	06/22/23	06/22/23	
Dissolved Metals by EPA 200.7	mg/L	mg/L	Analyst: RKS			Batch: 2326031
Iron	ND	0.400	0.2	06/27/23	06/29/23	
Manganese	ND	0.00200	0.2	06/27/23	06/29/23	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

Trip Blank

E306174-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: IY			Batch: 2326012
Acetone	ND	40.0	1	06/26/23	06/26/23	
Benzene	ND	1.00	1	06/26/23	06/26/23	
Bromobenzene	ND	1.00	1	06/26/23	06/26/23	
Bromochloromethane	ND	1.00	1	06/26/23	06/26/23	
Bromodichloromethane	ND	1.00	1	06/26/23	06/26/23	
Bromoform	ND	1.00	1	06/26/23	06/26/23	
Bromomethane	ND	2.00	1	06/26/23	06/26/23	
n-Butyl Benzene	ND	1.00	1	06/26/23	06/26/23	
sec-Butylbenzene	ND	1.00	1	06/26/23	06/26/23	
tert-Butylbenzene	ND	1.00	1	06/26/23	06/26/23	
Carbon Tetrachloride	ND	1.00	1	06/26/23	06/26/23	
Chlorobenzene	ND	1.00	1	06/26/23	06/26/23	
Chloroethane	ND	2.00	1	06/26/23	06/26/23	
Chloroform	ND	5.00	1	06/26/23	06/26/23	
Chloromethane	ND	2.00	1	06/26/23	06/26/23	
2-Chlorotoluene	ND	1.00	1	06/26/23	06/26/23	
4-Chlorotoluene	ND	1.00	1	06/26/23	06/26/23	
Dibromochloromethane	ND	1.00	1	06/26/23	06/26/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	06/26/23	06/26/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	06/26/23	06/26/23	
Dibromomethane	ND	1.00	1	06/26/23	06/26/23	
1,2-Dichlorobenzene	ND	1.00	1	06/26/23	06/26/23	
1,3-Dichlorobenzene	ND	1.00	1	06/26/23	06/26/23	
1,4-Dichlorobenzene	ND	1.00	1	06/26/23	06/26/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	06/26/23	06/26/23	
1,1-Dichloroethane	ND	1.00	1	06/26/23	06/26/23	
1,2-Dichloroethane	ND	1.00	1	06/26/23	06/26/23	
1,1-Dichloroethene	ND	1.00	1	06/26/23	06/26/23	
cis-1,2-Dichloroethene	ND	1.00	1	06/26/23	06/26/23	
trans-1,2-Dichloroethene	ND	1.00	1	06/26/23	06/26/23	
1,2-Dichloropropane	ND	1.00	1	06/26/23	06/26/23	
1,3-Dichloropropane	ND	1.00	1	06/26/23	06/26/23	
2,2-Dichloropropane	ND	1.00	1	06/26/23	06/26/23	
1,1-Dichloropropene	ND	1.00	1	06/26/23	06/26/23	
cis-1,3-Dichloropropene	ND	1.00	1	06/26/23	06/26/23	
trans-1,3-Dichloropropene	ND	1.00	1	06/26/23	06/26/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	06/26/23	06/26/23	
Ethylbenzene	ND	1.00	1	06/26/23	06/26/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	06/26/23	06/26/23	
Hexachlorobutadiene	ND	5.00	1	06/26/23	06/26/23	
2-Hexanone	ND	20.0	1	06/26/23	06/26/23	
Isopropylbenzene	ND	1.00	1	06/26/23	06/26/23	
4-Isopropyltoluene	ND	1.00	1	06/26/23	06/26/23	
2-Butanone (MEK)	ND	20.0	1	06/26/23	06/26/23	
Methylene Chloride	ND	2.00	1	06/26/23	06/26/23	
1-Methylnaphthalene	ND	10.0	1	06/26/23	06/26/23	
2-Methylnaphthalene	ND	10.0	1	06/26/23	06/26/23	

Sample Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

Trip Blank

E306174-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: IY			Batch: 2326012
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	06/26/23	06/26/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	06/26/23	06/26/23	
Naphthalene	ND	5.00	1	06/26/23	06/26/23	
n-Propyl Benzene	ND	1.00	1	06/26/23	06/26/23	
Styrene	ND	1.00	1	06/26/23	06/26/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	06/26/23	06/26/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	06/26/23	06/26/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	06/26/23	06/26/23	
Tetrachloroethene	ND	1.00	1	06/26/23	06/26/23	
1,2,3-Trichlorobenzene	ND	5.00	1	06/26/23	06/26/23	
1,2,4-Trichlorobenzene	ND	5.00	1	06/26/23	06/26/23	
1,1,1-Trichloroethane	ND	1.00	1	06/26/23	06/26/23	
1,1,2-Trichloroethane	ND	1.00	1	06/26/23	06/26/23	
Trichloroethene	ND	1.00	1	06/26/23	06/26/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	06/26/23	06/26/23	
1,2,3-Trichloropropane	ND	2.00	1	06/26/23	06/26/23	
1,2,4-Trimethylbenzene	ND	5.00	1	06/26/23	06/26/23	
1,3,5-Trimethylbenzene	ND	1.00	1	06/26/23	06/26/23	
Toluene	ND	1.00	1	06/26/23	06/26/23	
Vinyl chloride	ND	2.00	1	06/26/23	06/26/23	
o-Xylene	ND	1.00	1	06/26/23	06/26/23	
p,m-Xylene	ND	2.00	1	06/26/23	06/26/23	
Total Xylenes	ND	1.00	1	06/26/23	06/26/23	
Surrogate: Bromofluorobenzene	*102 %*	*70-130*		*06/26/23*	*06/26/23*	
Surrogate: 1,2-Dichloroethane-d4	*96.7 %*	*70-130*		*06/26/23*	*06/26/23*	
Surrogate: Toluene-d8	*100 %*	*70-130*		*06/26/23*	*06/26/23*	

QC Summary Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	**Reported:**
3400 2nd Street NW	Project Number:	22104-0003	
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

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 (2326012-BLK1)									Prepared: 06/26/23 Analyzed: 06/26/23
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	Project Name:	2nd Quarterly GW Sampling and Monitoring	**Reported:**
3400 2nd Street NW	Project Number:	22104-0003	
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

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 (2326012-BLK1)									Prepared: 06/26/23 Analyzed: 06/26/23
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							
Surrogate: Bromofluorobenzene	*10.3*		*10.0*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*9.82*		*10.0*		*98.2*	*70-130*			
Surrogate: Toluene-d8	*9.89*		*10.0*		*98.9*	*70-130*			
LCS (2326012-BS1)									Prepared: 06/26/23 Analyzed: 06/26/23
Acetone	60.9	40.0	100		60.9	20-185			
Benzene	49.4	1.00	50.0		98.7	70-130			
Bromoform	48.3	1.00	50.0		96.7	70-131			
Bromomethane	76.0	2.00	50.0		152	22-187			
sec-Butylbenzene	50.0	1.00	50.0		100	70-130			
Carbon Tetrachloride	50.6	1.00	50.0		101	70-130			
Chlorobenzene	51.2	1.00	50.0		102	70-130			
2-Chlorotoluene	52.5	1.00	50.0		105	70-130			
Dibromochloromethane	43.5	1.00	50.0		86.9	70-130			
1,2-Dichlorobenzene	47.5	1.00	50.0		94.9	70-130			
Dichlorodifluoromethane (Freon-12)	69.4	2.00	50.0		139	50-180			
1,1-Dichloroethane	51.1	1.00	50.0		102	70-130			
1,1-Dichloroethene	50.9	1.00	50.0		102	80-120			
2,2-Dichloropropane	54.0	1.00	50.0		108	50-160			
cis-1,3-Dichloropropene	48.9	1.00	50.0		97.7	70-130			
Ethylbenzene	47.9	1.00	50.0		95.7	80-120			
Isopropylbenzene	46.5	1.00	50.0		92.9	70-130			
Methyl tert-Butyl Ether (MTBE)	85.8	1.00	100		85.8	70-130			
Naphthalene	38.4	5.00	50.0		76.8	70-140			
tert-Amyl Methyl ether (TAME)	39.1	1.00	50.0		78.2	70-130			
Trichloroethene	47.2	1.00	50.0		94.5	70-130			
Toluene	48.3	1.00	50.0		96.5	80-120			
o-Xylene	50.5	1.00	50.0		101	70-130			
p,m-Xylene	99.9	2.00	100		99.9	70-130			
Total Xylenes	150	1.00	150		100	70-130			
Surrogate: Bromofluorobenzene	*10.0*		*10.0*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*9.74*		*10.0*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*9.87*		*10.0*		*98.7*	*70-130*			
LCS Dup (2326012-BSD1)									Prepared: 06/26/23 Analyzed: 06/26/23
Acetone	61.2	40.0	100		61.2	20-185	0.426	30	
Benzene	48.5	1.00	50.0		97.0	70-130	1.74	20	
Bromoform	49.3	1.00	50.0		98.7	70-131	2.05	20	
Bromomethane	73.9	2.00	50.0		148	22-187	2.87	20	
sec-Butylbenzene	50.3	1.00	50.0		101	70-130	0.598	20	
Carbon Tetrachloride	50.8	1.00	50.0		102	70-130	0.316	20	
Chlorobenzene	50.6	1.00	50.0		101	70-130	1.20	20	
2-Chlorotoluene	51.9	1.00	50.0		104	70-130	1.19	20	
Dibromochloromethane	44.4	1.00	50.0		88.7	70-130	2.05	20	
1,2-Dichlorobenzene	47.6	1.00	50.0		95.1	70-130	0.210	20	
Dichlorodifluoromethane (Freon-12)	67.1	2.00	50.0		134	50-180	3.44	20	
1,1-Dichloroethane	49.9	1.00	50.0		99.7	70-130	2.38	20	
1,1-Dichloroethene	49.1	1.00	50.0		98.2	80-120	3.54	20	
2,2-Dichloropropane	55.1	1.00	50.0		110	50-160	1.85	20	
cis-1,3-Dichloropropene	48.7	1.00	50.0		97.4	70-130	0.328	20	
Ethylbenzene	47.1	1.00	50.0		94.3	80-120	1.54	20	
Isopropylbenzene	46.0	1.00	50.0		91.9	70-130	1.10	20	
Methyl tert-Butyl Ether (MTBE)	85.7	1.00	100		85.7	70-130	0.140	20	
Naphthalene	39.6	5.00	50.0		79.1	70-140	2.92	20	
tert-Amyl Methyl ether (TAME)	39.2	1.00	50.0		78.5	70-130	0.306	20	

QC Summary Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	**Reported:**
3400 2nd Street NW	Project Number:	22104-0003	
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

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	%	%	%	%	
LCS Dup (2326012-BSD1)						Prepared: 06/26/23 Analyzed: 06/26/23			
Trichloroethene	46.4	1.00	50.0		92.8	70-130	1.73	20	
Toluene	47.3	1.00	50.0		94.6	80-120	2.01	20	
o-Xylene	49.8	1.00	50.0		99.6	70-130	1.32	20	
p,m-Xylene	98.3	2.00	100		98.3	70-130	1.58	20	
Total Xylenes	148	1.00	150		98.8	70-130	1.49	20	
Surrogate: Bromofluorobenzene	*10.3*		*10.0*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*10.0*		*101*	*70-130*			
Surrogate: Toluene-d8	*9.90*		*10.0*		*99.0*	*70-130*			

QC Summary Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	**Reported:**
3400 2nd Street NW	Project Number:	22104-0003	
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

Wet Chem/Gravimetric by SM2540C

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 (2325053-BLK1)									Prepared: 06/22/23 Analyzed: 06/23/23
Total Dissolved Solids	ND	10.0							
LCS (2325053-BS1)									Prepared: 06/22/23 Analyzed: 06/23/23
Total Dissolved Solids	87.0	10.0	100		87.0	55-134			
Duplicate (2325053-DUP1)				**Source: E306166-01**					Prepared: 06/22/23 Analyzed: 06/23/23
Total Dissolved Solids	52600	10.0		52900			0.635	5	

QC Summary Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	**Reported:**
3400 2nd Street NW	Project Number:	22104-0003	
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

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 (2326036-BLK1)									Prepared: 06/27/23 Analyzed: 06/27/23
Chemical Oxygen Demand (COD)	ND	10.0							
LCS (2326036-BS1)									Prepared: 06/27/23 Analyzed: 06/27/23
Chemical Oxygen Demand (COD)	52.3	10.0	50.0		105	90-110			
Matrix Spike (2326036-MS1)				**Source: E306174-01**					Prepared: 06/27/23 Analyzed: 06/27/23
Chemical Oxygen Demand (COD)	67.5	10.0	50.0	21.8	91.5	90-110			
Matrix Spike Dup (2326036-MSD1)				**Source: E306174-01**					Prepared: 06/27/23 Analyzed: 06/27/23
Chemical Oxygen Demand (COD)	72.9	10.0	50.0	21.8	102	90-110	7.72	20	

QC Summary Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	**Reported:**
3400 2nd Street NW	Project Number:	22104-0003	
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

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 (2325063-BLK1)									Prepared: 06/22/23 Analyzed: 06/22/23
Nitrate-N	ND	0.250							
Sulfate	ND	2.00							
LCS (2325063-BS1)									Prepared: 06/22/23 Analyzed: 06/23/23
Nitrate-N	2.53	0.250	2.50		101	90-110			
Sulfate	24.6	2.00	25.0		98.2	90-110			
LCS Dup (2325063-BSD1)									Prepared: 06/22/23 Analyzed: 06/23/23
Nitrate-N	2.53	0.250	2.50		101	90-110	0.150	20	
Sulfate	24.7	2.00	25.0		98.9	90-110	0.719	20	

QC Summary Data

NMED	Project Name:	2nd Quarterly GW Sampling and Monitoring	**Reported:**
3400 2nd Street NW	Project Number:	22104-0003	
Albuquerque NM, -	Project Manager:	Greg Crabtree	6/30/2023 11:38:57AM

Dissolved Metals by EPA 200.7

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	
Blank (2326031-BLK1)									Prepared: 06/27/23 Analyzed: 06/29/23
Iron	ND	0.400							
Manganese	ND	0.00200							
LCS (2326031-BS1)									Prepared: 06/27/23 Analyzed: 06/29/23
Iron	21.3	0.400	20.0		107	85-115			
Manganese	0.0489	0.00200	0.0500		97.8	85-115			
LCS Dup (2326031-BSD1)									Prepared: 06/27/23 Analyzed: 06/29/23
Iron	21.7	0.400	20.0		108	85-115	1.77	20	
Manganese	0.0504	0.00200	0.0500		101	85-115	3.10	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:	2nd Quarterly GW Sampling and Monitoring	
3400 2nd Street NW	Project Number:	22104-0003	**Reported:**
Albuquerque NM, -	Project Manager:	Greg Crabtree	06/30/23 11:38

H4	Initial analysis was within holding time. Re-analysis was past holding time.
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.

Client: NMED-PSTB
Project: 2nd Quarterly GW Sampling and Monitoring
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# E306174 | Job Number 22104-0003

TAT: 1D | 2D | 3D | Standard (X)

EPA Program: CWA | SDWA | RCRA (X)

State: NM (X) | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Iron and Manganese	VOC by 8260	Sulfate and Nirate	Total Dissolved Solids	COD	Remarks
14:16	6/21/2023	A	6	MW-1A	1	X	X	X	X	X	
12:22	6/21/2023	A	5	MW-2A	2	X	X	X	X		
13:33	6/21/2023	A	5	MW-3	3	X	X	X	X		
	6/21/23	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: Austin Foutz

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
Austin Foutz	6/22/23	9:09	Cath Man	6/22/23	9:09
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

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.

Envirotech Analytical Laboratory

Printed: 6/22/2023 3:35:06PM

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:	06/22/23 09:09	Work Order ID:	E306174
Phone:	(505) 372-8334	Date Logged In:	06/22/23 09:42	Logged In By:	Caitlin Mars
Email:	gcrabtree@envirotech-inc.com	Due Date:	06/29/23 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	Carrier: Austin Foutz
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
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 filteration required and/or requested for dissolved metals?	No	

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

Comments/Resolution

Samples were received filtered and preserved in the field by client.

Client Instruction

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

Date

envirotech Inc.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 14, 2023

Greg Crabtree
Envirotech
5796 US Highway 64
Farmington, NM 87401
TEL: (505) 632-0615
FAX: (505) 632-1865

RE: Leonards Conoco OrderNo.: 2306B48

Dear Greg Crabtree:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/21/2023 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Case Narrative

WO#: **2306B48**
Date: **7/14/2023**

CLIENT: Envirotech
Project: Leonards Chevron

Analytical Comments Regarding BOD:
The method blank(s) had a DO depletion >0.2mg/L.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: MW-1A
Project: Leonards Chevron
Collection Date: 6/21/2023 2:16:00 PM
Lab ID: 2306B48-001A
Matrix: Aqueous

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM5210B: BOD						Analyst: **ejn**
Biochemical Oxygen Demand	6.63	2.00		mg/L	1	6/27/2023 1:34:00 PM

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 Quanitative 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#: **2306B48**

14-Jul-23

Client: Envirotech

Project: Leonards Chevron

Sample ID: **MB-75780**	SampType: **MBLK**	TestCode: **SM5210B: BOD**
Client ID: **PBW**	Batch ID: **75780**	RunNo: **97750**
Prep Date: **6/22/2023**	Analysis Date: **6/27/2023**	SeqNo: **3554753** 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-75780**	SampType: **LCS**	TestCode: **SM5210B: BOD**
Client ID: **LCSW**	Batch ID: **75780**	RunNo: **97750**
Prep Date: **6/22/2023**	Analysis Date: **6/27/2023**	SeqNo: **3554754** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	202	2.00	198.0	0	102	84.6	115.4			

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Envirotech Work Order Number: 2306B48 RcptNo: 1

Received By: STEVEN McQUISTON 6/21/2023 4:16:00 PM

Completed By: Desiree Dominguez 6/21/2023 4:20:50 PM DD

Reviewed By: JH 6-21-23 @ 16:27

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? (Note discrepancies on chain of custody) Yes ☑ No ☐
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? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: SCM 06/21/23

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

Client did not provide mailing address on COC. -DAD 6/21/23

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.2	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: NMED (Envirotech)

Mailing Address:

Phone #: 505-320-0381

email or Fax#: gcrabtree@envirotech-inc.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☑ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Leonards Chevron

Project #: 22104-0003

Project Manager: Greg Crabtree

Sampler: Austin Foutz

On Ice: ☐ Yes ☐ No

# of Coolers: 1 YOG1

Cooler Temp(including CF): 7.2-0=7.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2306B48	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	4 BOD
6/21/23	14:16	A	MW-1A	(1) 500mL Poly	\	-001											4

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/21/23	16:16	Austin Foutz	SCM	CDO	06/21/23	1616
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.