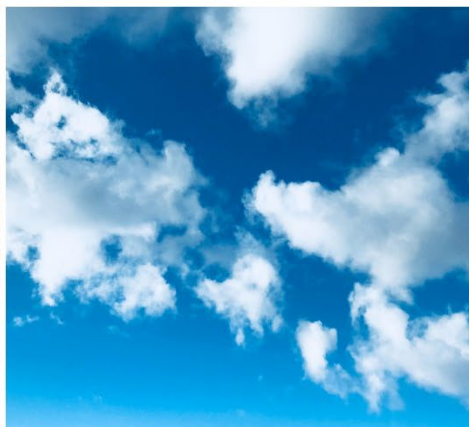
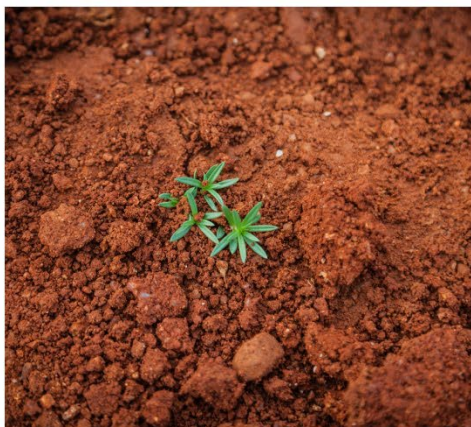


# 2023 Third Quarterly Groundwater Monitoring and Sampling Report

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By PSTB at 2:04 pm, Nov 13, 2023



## Leonard's Conoco

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

November 8, 2023  
Envirotech Project #22104-0003  
Contract ID No. 22 667 3200 0015

### Submitted To:

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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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## **SUBMITTED BY:**

**ENVIROTECH, INC.  
5796 U.S. HIGHWAY 64  
FARMINGTON, NEW MEXICO 87401  
**(505) 632-0615****

**PROJECT NO. 22104-0003**

**November 2023**

**2023 3<sup>RD</sup> 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 23<sup>rd</sup>, 2023. This is the 2023 3<sup>rd</sup> 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).
- 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 (HNO<sub>3</sub>) 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 third quarterly Groundwater Monitor Event, the groundwater gradient was calculated to be 0.052 feet/feet with an approximate northwest flow direction, which is consistent with previous groundwater monitoring events. Groundwater elevation decreased an average of 1.33 feet relative to the previous monitoring event conducted during the 2023 2<sup>nd</sup> quarterly groundwater monitoring and sampling event. Groundwater elevations are summarized in **Table 1, Groundwater Elevation** and depicted on **Figure 3, Potentiometric Map**.

### Groundwater Parameters

Temperature readings ranged from 20.6° degrees Celsius (°C) in MW-2A to 22.3°C in MW-3. SpC readings ranged from 3039 milli siemens ( $\mu\text{S}$ ) in MW-2A to 3658 ( $\mu\text{S}$ ) in MW-3. DO readings ranged from 1.18 milligrams per liter (mg/L) in MW-1A to 2.10 mg/L in MW-3. PH readings ranged from 6.76 standard units in MW-3 to 6.99 standard units in MW-2A. ORP readings ranged from -182.6 millivolts (mV) in MW-1A to 80.1 mV in MW-2A. 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 above NMWQCC regulations of 5  $\mu\text{g/L}$  in MW-1A at 49.5  $\mu\text{g/L}$ . Benzene levels were below regulations in all other monitoring wells. *Table 2, Groundwater Analytical Results*.
- Manganese levels were above NMWQCC regulations of 200  $\mu\text{g/L}$  in MW-1A at 1020  $\mu\text{g/L}$ . Manganese levels were below regulations in all other monitoring wells. *Table 2, Groundwater Analytical Results*.
- Iron levels were below NMWQCC regulations of 1,000  $\mu\text{g/L}$  in all monitoring wells. *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 3<sup>rd</sup> Quarterly Groundwater Monitoring Event; all monitoring wells, except MW-1A, have levels of manganese below the 200  $\mu\text{g/L}$  standard. All monitoring wells have dissolved iron levels below regulatory limits.

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.

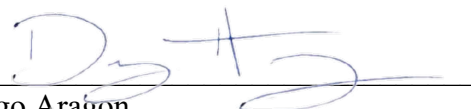
**CONCLUSION**

On September 20<sup>th</sup>, 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-1A exhibited concentrations below the 20.6.2.3103 NMAC standard for Benzene. Dissolved metals analysis resulted in MW-1A having manganese concentrations above NMWQCC standards. Iron concentrations were below NMWQCC standards in all monitoring wells.

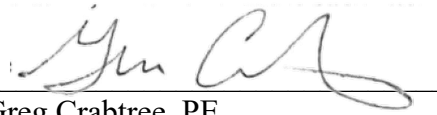
Envirotech recommends the continued groundwater monitoring of all monitoring wells to gather additional information and determine natural attenuation. Groundwater sample collection is recommended until laboratory analytical results indicate concentrations are in-compliance with 20.6.2.3103 NMWQCC standards 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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Reviewed by:

  
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Greg Crabtree, PE  
Environmental Project Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

# Figures

**Figure 1 – Vicinity Map**

**Figure 2 – Site Map**

**Figure 3 – Potentiometric Map**

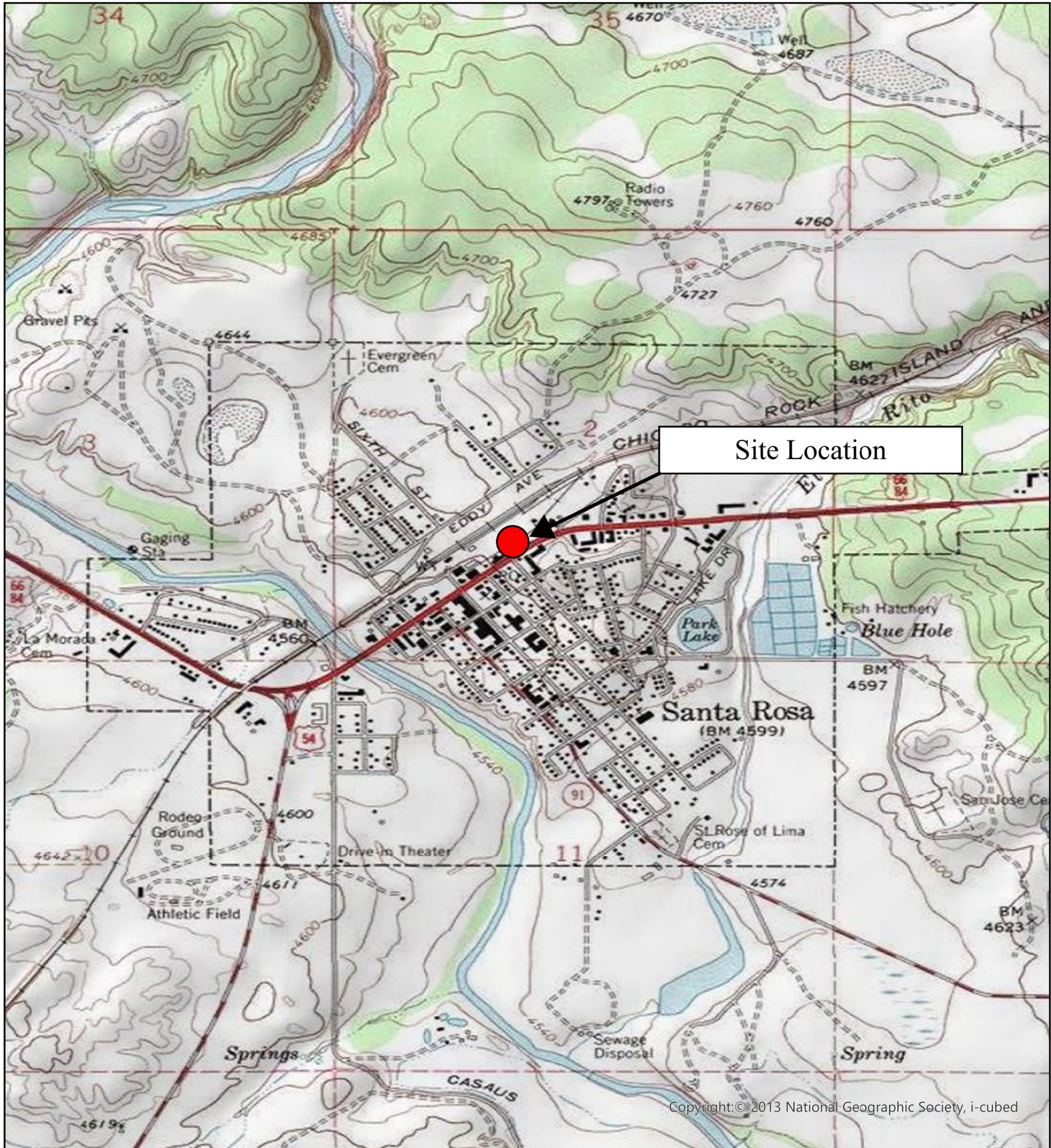
**Figure 4 – Benzene Concentration Map**

**Figure 5 – Manganese Concentration Map**



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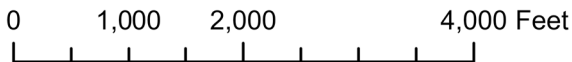
Figure 1: Vicinity Map

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

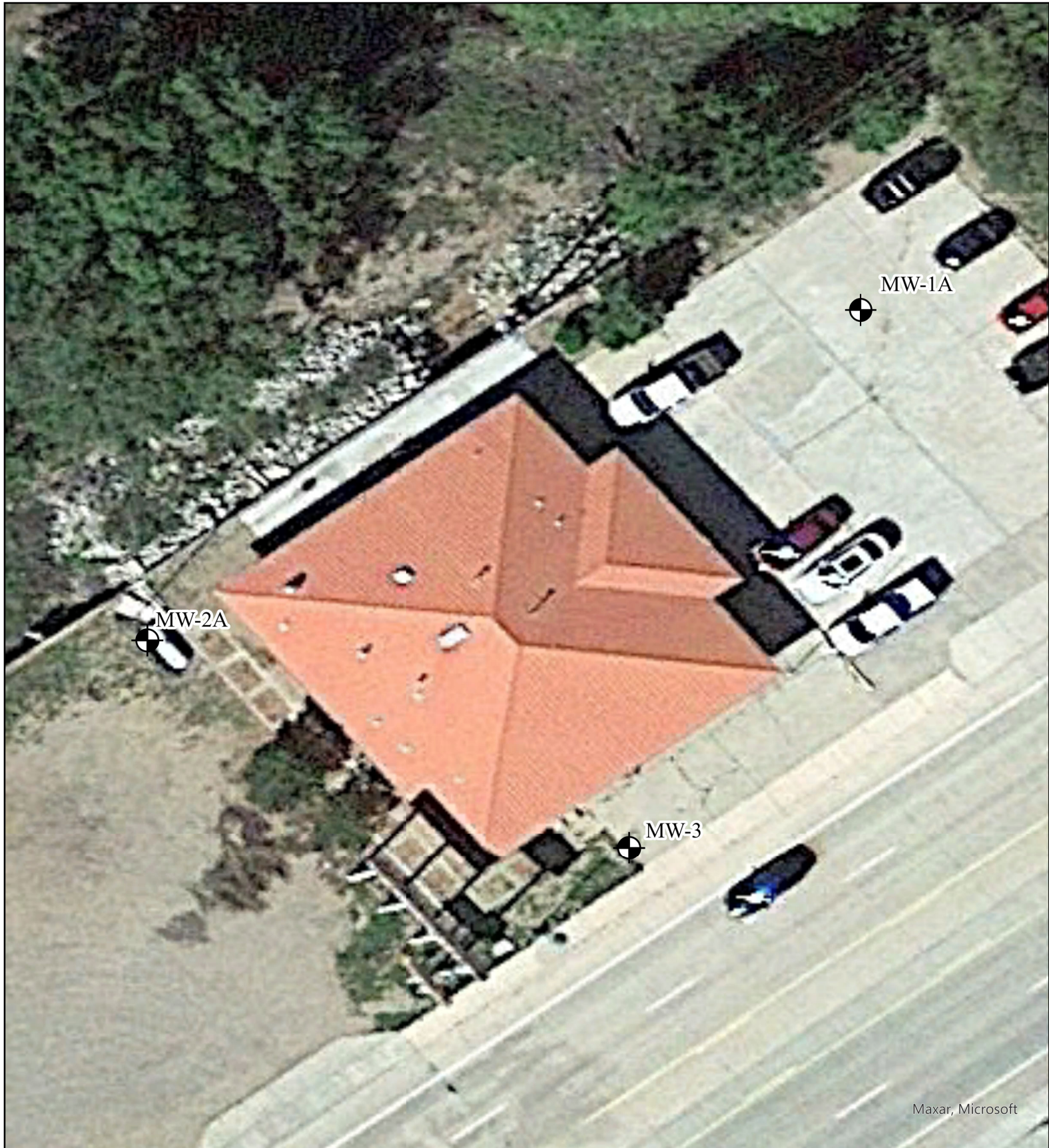
Legend



1:20,000



Environmental Scientists and Engineers  
 5796 U.S Highway 64  
 Farmington, New Mexico 87401  
 505.632.0615  
 Date Drawn: 10/10/2023  
 Drawn by: P. Mesa



Maxar, Microsoft

Figure 2: Site Map

Legend

 Monitoring Well



1:300  
0 15 30 60 Feet



Environmental Scientists and Engineers  
5796 U.S Highway 64  
Farmington, New Mexico 87401  
505.632.0615  
Date Drawn: 10/10/2023  
Drawn by: P. Mesa

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



Maxar, Microsoft

**Figure 3: Potentiometric Map**

Legend

 Monitoring Well

Contours

 Index Contour

 Contours

1:300

0      15      30      60 Feet



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 505.632.0615  
 Date Drawn: 10/10/2023  
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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



Figure 4: Benzene 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

Contours

— Contours

— Index Contours



Monitoring Well

1:300

0 15 30 60 Feet



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


Date Drawn: 10/10/2023  
 Drawn by: P. Mesa




Figure 5: Manganese 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


Contours


 Contours

 Index Contours

1:300

0      15      30      60 Feet



 **envirotech**

Environmental Scientists and Engineers  
 5796 U.S Highway 64  
 Farmington, New Mexico 87401  
 505.632.0615  
 Date Drawn: 10/10/2023  
 Drawn by: P. Mesa

# Tables

**Table 1 – Groundwater Elevation**

**Table 2 – Groundwater Analytical Results**



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<b>Site Name:</b>	Leonard's Conoco
<b>Date:</b>	10/3/2023
<b>Project #:</b>	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)
<b>MW-1A</b>	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
	09/20/23	4,615.84	14.75	4,601.09	-0.65
	<b>MW-2A</b>	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
09/20/23		4,613.53	13.80	4,599.73	-1.40
<b>MW-3</b>		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
	09/20/23	4,615.00	13.85	4,601.15	-1.95

**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)	1,000 (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	<b>93</b>	<1.00	58	<1.5	15	<1.0	<30	~	~	~	~	~	~	~
	12/12/2017	<b>430</b>	<1.00	310	<1.5	45	<1.0	<b>207</b>	~	~	~	~	~	~	~
	4/26/2019	<b>250</b>	<1.0	140	<1.5	46	<1.0	<b>72</b>	~	~	~	~	~	~	~
	5/5/2021	<b>120</b>	<1.0	110	<1.5	32	<b>0.0092</b>	30	~	~	~	~	~	~	~
	3/15/2022	<b>94</b>	<1.00	88	<1.5	45	<0.005	<30	<400	<b>600</b>	<b>3140</b>	~	~	<2.5	<b>1600</b>
	3/27/2023	<b>73</b>	<5.00	58.9	<5.00	21.7	<10.00	<25	<400	<b>800</b>	<b>2940</b>	<2.0	<b>17.7</b>	<2.5	<b>1740</b>
	6/21/2023	<b>87.2</b>	<5.00	220	<5.00	<5.00	<10.00	<25	<400	<b>1310</b>	<b>1930</b>	<b>6.63</b>	<b>21.8</b>	<2.5	<b>1740</b>
	9/20/2023	<b>49.5</b>	<1.00	92.1	<1.00	8.44	<2.00	28.4	<400	<b>1020</b>	~	~	~	~	~
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	<400	170	<b>3970</b>	~	~	<2.5	<b>1600</b>
	3/27/2023	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<25	<400	<b>310</b>	<b>3020</b>	~	~	<2.5	<b>1710</b>
	6/21/2023	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<10.0	<400	<b>632</b>	<b>6340</b>	~	~	<5.00	<b>7330</b>
	9/20/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<400	167	~	~	~	~	~
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	<b>0.0094</b>	<30	~	~	~	~	~	~	~
	3/15/2022	<1.00	<1.00	<1.00	<1.5	<5.00	<1.00	<30	<400	<2.00	<b>3890</b>	~	~	<2.5	<b>1700</b>
	3/27/2023	<5.00	<5.00	<5.00	<5.00	<5.00	<10.0	<25	<400	65.7	<b>4350</b>	~	~	<2.5	<b>1920</b>
	6/21/2023	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<10	<400	<2.00	<b>2760</b>	~	~	<5.0	<b>1770</b>
	9/20/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<400	<2.00	~	~	~	~	~

**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.



# Appendix A

## Field Notes



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# MONITORING WELL DATA FORM

**WELL ID:** MW-1A

**Location:** LEONARDS CONOCO  
**Project:** 3RD QTR SAMPLING  
**Sampling Technician:** D. WELTON

**Project No.:** 22104-0003  
**Date:** 9/20/23  
**Start/End Time:** \_\_\_\_\_  
**Air Temp:** \_\_\_\_\_

**Purge Device:** BAILER

**Well Diameter (in):** 2in

**Total Well Depth (ft):** 18.4

**Water Column (ft):** \_\_\_\_\_

**Initial D.T.W. (ft):** 14.75      **Time:** 14:18 (taken at initial gauging of all wells)

**Final D.T.W. (ft):** \_\_\_\_\_      **Time:** \_\_\_\_\_ (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		
See reverse for notes on purging and stabilization procedures								
14:21		27.5	3099	1.50	6.55	-186.1	1 gal	Grey, mild odor
14:24		21.3	3089	1.18	6.68	-187.6	2 gal	"
14:30							* 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:** \_\_\_\_\_

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

8000-40155

010710 29 10 10 11

Water quality parameters are consider 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.

81:4

27.01

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:

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 = Total Well Depth - Depth To Water = 18.4 - 14.73 = 3.65

Well Volume = (h)(cf) = (3.65)(0.1632) = 0.6

Total Purge Volume = 3(Well Volume) = 2



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**MONITORING WELL DATA FORM**

WELL ID: MW-2A

Location: LEONARDS CONOCO

Project No.: 27104-0003

Project: 3<sup>rd</sup> Qtr Sampling

Date: 9/20/23

Sampling Technician: D. ARGON

Start/End Time: \_\_\_\_\_

Air Temp: \_\_\_\_\_

Purge Device: BAILER

Well Diameter (in): 2in

Total Well Depth (ft): 18.2

Water Column (ft): 4.4

Initial D.T.W. (ft): 13.8 Time: 11:50 (taken at initial gauging of all wells)

Final D.T.W. (ft): 15.0 Time: 12:19 (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								
12:00		21.3	3038	2.10	6.99	59.4	1 gal	CLEAR, NO ODOR
12:06		20.6	3034	1.30	6.97	60.1	2 gal	"
12:10							* 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: \_\_\_\_\_

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

851000-40155  
8510519

0502000 (01)4403  
00115MAC 710 078

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.

02:11  
15:51

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:

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:

$$h = \text{Total Well Depth} - \text{Depth To Water} = 18.7 - 13.8 = 4.4$$

$$\text{Well Volume} = (h)(cf) = (4.4)(0.1632) = 0.72$$

$$\text{Total Purge Volume} = 3(\text{Well Volume}) = 2.16$$

4037091143



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**MONITORING WELL DATA FORM**

WELL ID: MW-3

Location: LEONARDS CONOCO  
 Project: 3<sup>rd</sup> QTR SAMPLING  
 Sampling Technician: D. ARAGON

Project No.: 22104-0003  
 Date: 9/20/23  
 Start/End Time: \_\_\_\_\_

Air Temp: \_\_\_\_\_

Purge Device: BAILER

Well Diameter (in): 2 in

Total Well Depth (ft): 27.95

Water Column (ft): \_\_\_\_\_

Initial D.T.W. (ft): 13.85 Time: 12:45 (taken at initial gauging of all wells)

Final D.T.W. (ft): 18.3 Time: 13:40 (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		
<i>See reverse for notes on purging and stabilization procedures</i>								
12:56		22.7	3644	2.33	6.71	173.0	1 gal	CLEAR, NO ODOR
13:00		22.7	3982	4.06	6.73	194.2	2 gal	"
13:05		22.3	3655	1.95	6.72	163.0	3 gal	"
13:09		22.3	3672	2.08	6.77	159.1	4 gal	light orange
13:15		22.3	3655	2.18	6.75	158.2	5 gal	NO ODOR
13:21		22.3	3641	1.99	6.75	164.8	6 gal	"
13:28		22.3	3652	2.06	6.76	157.3	7 gal	"
13:35		22.3	3658	2.10	6.76	158.2	* 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: \_\_\_\_\_

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



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25104-0003  
2510518

CONRAD CONCRETE  
20041003

Water quality parameters are consider 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 5%; 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.

13:40  
15:42  
18:01

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:

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	0.3872	0.6528	1.4688

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

Show purge volume calculation below:

h = Total Well Depth - Depth To Water = 27.95 - 13.85 = 14.1

Well Volume = (h)(cf) = ( ) (0.1632) = 2.3

Total Purge Volume = 3(Well Volume) = 6.7

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# Appendix B

## Laboratory Analytical Report



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Report to:  
Greg Crabtree



# envirotech

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## Analytical Report

NMED

Project Name: 3rd Quarterly GW Sampling and Monitoring  
Work Order: E309156  
Job Number: 22104-0003  
Received: 9/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/30/23

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: 9/30/23



Greg Crabtree  
3400 2nd Street NW  
Albuquerque, NM -

Project Name: 3rd Quarterly GW Sampling and Monitoring  
Workorder: E309156  
Date Received: 9/21/2023 8:21:00AM

Greg Crabtree,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2023 8:21:00AM, under the Project Name: 3rd Quarterly GW Sampling and Monitoring.

The analytical test results summarized in this report with the Project Name: 3rd 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 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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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Sample Custody Officer  
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**Lynn Jarboe**  
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Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

NMED  
3400 2nd Street NW  
Albuquerque NM, -

Project Name: 3rd Quarterly GW Sampling and Monitoring  
Project Number: 22104-0003  
Project Manager: Greg Crabtree

**Reported:**  
09/30/23 13:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
MW-1A	E309156-01A	Aqueous	09/20/23	09/21/23	Poly 250mL; HNO3
	E309156-01B	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
	E309156-01C	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
	E309156-01D	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
MW-2A	E309156-02A	Aqueous	09/20/23	09/21/23	Poly 250mL; HNO3
	E309156-02B	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
	E309156-02C	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
	E309156-02D	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
MW-3	E309156-03A	Aqueous	09/20/23	09/21/23	Poly 250mL; HNO3
	E309156-03B	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
	E309156-03C	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
	E309156-03D	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl
Trip Blank	E309156-04A	Aqueous	09/20/23	09/21/23	VOA Vial, 40mL; HCl

## Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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**MW-1A**  
**E309156-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		ug/L	ug/L	Analyst: RKS		Batch: 2338114
Acetone	ND	40.0	1	09/22/23	09/22/23	
Benzene	<b>49.5</b>	1.00	1	09/22/23	09/22/23	
Bromobenzene	ND	1.00	1	09/22/23	09/22/23	
Bromochloromethane	ND	1.00	1	09/22/23	09/22/23	
Bromodichloromethane	ND	1.00	1	09/22/23	09/22/23	
Bromoform	ND	1.00	1	09/22/23	09/22/23	
Bromomethane	ND	2.00	1	09/22/23	09/22/23	
n-Butyl Benzene	ND	1.00	1	09/22/23	09/22/23	
sec-Butylbenzene	<b>1.84</b>	1.00	1	09/22/23	09/22/23	
tert-Butylbenzene	ND	1.00	1	09/22/23	09/22/23	
Carbon Tetrachloride	ND	1.00	1	09/22/23	09/22/23	
Chlorobenzene	ND	1.00	1	09/22/23	09/22/23	
Chloroethane	ND	2.00	1	09/22/23	09/22/23	
Chloroform	ND	5.00	1	09/22/23	09/22/23	
Chloromethane	ND	2.00	1	09/22/23	09/22/23	
2-Chlorotoluene	ND	1.00	1	09/22/23	09/22/23	
4-Chlorotoluene	ND	1.00	1	09/22/23	09/22/23	
Dibromochloromethane	ND	1.00	1	09/22/23	09/22/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	09/22/23	09/22/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	09/22/23	09/22/23	
Dibromomethane	ND	1.00	1	09/22/23	09/22/23	
1,2-Dichlorobenzene	ND	1.00	1	09/22/23	09/22/23	
1,3-Dichlorobenzene	ND	1.00	1	09/22/23	09/22/23	
1,4-Dichlorobenzene	ND	1.00	1	09/22/23	09/22/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	09/22/23	09/22/23	
1,1-Dichloroethane	ND	1.00	1	09/22/23	09/22/23	
1,2-Dichloroethane	<b>1.28</b>	1.00	1	09/22/23	09/22/23	
1,1-Dichloroethene	ND	1.00	1	09/22/23	09/22/23	
cis-1,2-Dichloroethene	ND	1.00	1	09/22/23	09/22/23	
trans-1,2-Dichloroethene	ND	1.00	1	09/22/23	09/22/23	
1,2-Dichloropropane	ND	1.00	1	09/22/23	09/22/23	
1,3-Dichloropropane	ND	1.00	1	09/22/23	09/22/23	
2,2-Dichloropropane	ND	1.00	1	09/22/23	09/22/23	
1,1-Dichloropropene	ND	1.00	1	09/22/23	09/22/23	
cis-1,3-Dichloropropene	ND	1.00	1	09/22/23	09/22/23	
trans-1,3-Dichloropropene	ND	1.00	1	09/22/23	09/22/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	09/22/23	09/22/23	
Ethylbenzene	<b>92.1</b>	1.00	1	09/22/23	09/22/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	09/22/23	09/22/23	
Hexachlorobutadiene	ND	5.00	1	09/22/23	09/22/23	
2-Hexanone	ND	20.0	1	09/22/23	09/22/23	
Isopropylbenzene	<b>9.40</b>	1.00	1	09/22/23	09/22/23	
4-Isopropyltoluene	ND	1.00	1	09/22/23	09/22/23	
2-Butanone (MEK)	ND	20.0	1	09/22/23	09/22/23	
Methylene Chloride	ND	2.00	1	09/22/23	09/22/23	



# Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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**MW-1A**  
**E309156-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	ug/L	ug/L		Analyst: RKS		Batch: 2338114
1-Methylnaphthalene	11.9	10.0	1	09/22/23	09/22/23	
2-Methylnaphthalene	ND	10.0	1	09/22/23	09/22/23	
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	09/22/23	09/22/23	
Methyl tert-Butyl Ether (MTBE)	8.44	1.00	1	09/22/23	09/22/23	
Naphthalene	16.5	5.00	1	09/22/23	09/22/23	
n-Propyl Benzene	13.1	1.00	1	09/22/23	09/22/23	
Styrene	ND	1.00	1	09/22/23	09/22/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	09/22/23	09/22/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	09/22/23	09/22/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	09/22/23	09/22/23	
Tetrachloroethene	ND	1.00	1	09/22/23	09/22/23	
1,2,3-Trichlorobenzene	ND	5.00	1	09/22/23	09/22/23	
1,2,4-Trichlorobenzene	ND	5.00	1	09/22/23	09/22/23	
1,1,1-Trichloroethane	ND	1.00	1	09/22/23	09/22/23	
1,1,2-Trichloroethane	ND	1.00	1	09/22/23	09/22/23	
Trichloroethene	ND	1.00	1	09/22/23	09/22/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	09/22/23	09/22/23	
1,2,3-Trichloropropane	ND	2.00	1	09/22/23	09/22/23	
1,2,4-Trimethylbenzene	ND	5.00	1	09/22/23	09/22/23	
1,3,5-Trimethylbenzene	ND	1.00	1	09/22/23	09/22/23	
Toluene	ND	1.00	1	09/22/23	09/22/23	
Vinyl chloride	ND	2.00	1	09/22/23	09/22/23	
o-Xylene	ND	1.00	1	09/22/23	09/22/23	
p,m-Xylene	ND	2.00	1	09/22/23	09/22/23	
Total Xylenes	ND	1.00	1	09/22/23	09/22/23	
<i>Surrogate: Bromofluorobenzene</i>		111 %	70-130	09/22/23	09/22/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.0 %	70-130	09/22/23	09/22/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	09/22/23	09/22/23	



# Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
-------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	-----------------------------------------

## MW-1A

### E309156-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Dissolved Metals by EPA 200.7</b>	mg/L	mg/L	Analyst: JL			Batch: 2339051
Iron	ND	0.400	0.2	09/28/23	09/28/23	
Manganese	<b>1.02</b>	0.100	10	09/28/23	09/29/23	



# Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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## MW-2A E309156-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		ug/L	ug/L	Analyst: RKS		Batch: 2338114
Acetone	ND	40.0	1	09/23/23	09/23/23	
Benzene	ND	1.00	1	09/23/23	09/23/23	
Bromobenzene	ND	1.00	1	09/23/23	09/23/23	
Bromochloromethane	ND	1.00	1	09/23/23	09/23/23	
Bromodichloromethane	ND	1.00	1	09/23/23	09/23/23	
Bromoform	ND	1.00	1	09/23/23	09/23/23	
Bromomethane	ND	2.00	1	09/23/23	09/23/23	
n-Butyl Benzene	ND	1.00	1	09/23/23	09/23/23	
sec-Butylbenzene	ND	1.00	1	09/23/23	09/23/23	
tert-Butylbenzene	ND	1.00	1	09/23/23	09/23/23	
Carbon Tetrachloride	ND	1.00	1	09/23/23	09/23/23	
Chlorobenzene	ND	1.00	1	09/23/23	09/23/23	
Chloroethane	ND	2.00	1	09/23/23	09/23/23	
Chloroform	ND	5.00	1	09/23/23	09/23/23	
Chloromethane	ND	2.00	1	09/23/23	09/23/23	
2-Chlorotoluene	ND	1.00	1	09/23/23	09/23/23	
4-Chlorotoluene	ND	1.00	1	09/23/23	09/23/23	
Dibromochloromethane	ND	1.00	1	09/23/23	09/23/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	09/23/23	09/23/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	09/23/23	09/23/23	
Dibromomethane	ND	1.00	1	09/23/23	09/23/23	
1,2-Dichlorobenzene	ND	1.00	1	09/23/23	09/23/23	
1,3-Dichlorobenzene	ND	1.00	1	09/23/23	09/23/23	
1,4-Dichlorobenzene	ND	1.00	1	09/23/23	09/23/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	09/23/23	09/23/23	
1,1-Dichloroethane	ND	1.00	1	09/23/23	09/23/23	
1,2-Dichloroethane	ND	1.00	1	09/23/23	09/23/23	
1,1-Dichloroethene	ND	1.00	1	09/23/23	09/23/23	
cis-1,2-Dichloroethene	ND	1.00	1	09/23/23	09/23/23	
trans-1,2-Dichloroethene	ND	1.00	1	09/23/23	09/23/23	
1,2-Dichloropropane	ND	1.00	1	09/23/23	09/23/23	
1,3-Dichloropropane	ND	1.00	1	09/23/23	09/23/23	
2,2-Dichloropropane	ND	1.00	1	09/23/23	09/23/23	
1,1-Dichloropropene	ND	1.00	1	09/23/23	09/23/23	
cis-1,3-Dichloropropene	ND	1.00	1	09/23/23	09/23/23	
trans-1,3-Dichloropropene	ND	1.00	1	09/23/23	09/23/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	09/23/23	09/23/23	
Ethylbenzene	ND	1.00	1	09/23/23	09/23/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	09/23/23	09/23/23	
Hexachlorobutadiene	ND	5.00	1	09/23/23	09/23/23	
2-Hexanone	ND	20.0	1	09/23/23	09/23/23	
Isopropylbenzene	ND	1.00	1	09/23/23	09/23/23	
4-Isopropyltoluene	ND	1.00	1	09/23/23	09/23/23	
2-Butanone (MEK)	ND	20.0	1	09/23/23	09/23/23	
Methylene Chloride	ND	2.00	1	09/23/23	09/23/23	
1-Methylnaphthalene	ND	10.0	1	09/23/23	09/23/23	
2-Methylnaphthalene	ND	10.0	1	09/23/23	09/23/23	





# Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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**MW-2A**  
**E309156-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	ug/L	ug/L		Analyst: RKS		Batch: 2338114
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	09/23/23	09/23/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	09/23/23	09/23/23	
Naphthalene	ND	5.00	1	09/23/23	09/23/23	
n-Propyl Benzene	ND	1.00	1	09/23/23	09/23/23	
Styrene	ND	1.00	1	09/23/23	09/23/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	09/23/23	09/23/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	09/23/23	09/23/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	09/23/23	09/23/23	
Tetrachloroethene	ND	1.00	1	09/23/23	09/23/23	
1,2,3-Trichlorobenzene	ND	5.00	1	09/23/23	09/23/23	
1,2,4-Trichlorobenzene	ND	5.00	1	09/23/23	09/23/23	
1,1,1-Trichloroethane	ND	1.00	1	09/23/23	09/23/23	
1,1,2-Trichloroethane	ND	1.00	1	09/23/23	09/23/23	
Trichloroethene	ND	1.00	1	09/23/23	09/23/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	09/23/23	09/23/23	
1,2,3-Trichloropropane	ND	2.00	1	09/23/23	09/23/23	
1,2,4-Trimethylbenzene	ND	5.00	1	09/23/23	09/23/23	
1,3,5-Trimethylbenzene	ND	1.00	1	09/23/23	09/23/23	
Toluene	ND	1.00	1	09/23/23	09/23/23	
Vinyl chloride	ND	2.00	1	09/23/23	09/23/23	
o-Xylene	ND	1.00	1	09/23/23	09/23/23	
p,m-Xylene	ND	2.00	1	09/23/23	09/23/23	
Total Xylenes	ND	1.00	1	09/23/23	09/23/23	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	09/23/23	09/23/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	09/23/23	09/23/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/23/23	09/23/23	



## Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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**MW-2A**

**E309156-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Dissolved Metals by EPA 200.7</b>	mg/L	mg/L	Analyst: JL			Batch: 2339051
Iron	ND	0.400	0.2	09/28/23	09/28/23	
Manganese	<b>0.167</b>	0.0200	2	09/28/23	09/29/23	



# Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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## MW-3

### E309156-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		ug/L	ug/L	Analyst: RKS		Batch: 2338114
Acetone	ND	40.0	1	09/23/23	09/23/23	
Benzene	ND	1.00	1	09/23/23	09/23/23	
Bromobenzene	ND	1.00	1	09/23/23	09/23/23	
Bromochloromethane	ND	1.00	1	09/23/23	09/23/23	
Bromodichloromethane	ND	1.00	1	09/23/23	09/23/23	
Bromoform	ND	1.00	1	09/23/23	09/23/23	
Bromomethane	ND	2.00	1	09/23/23	09/23/23	
n-Butyl Benzene	ND	1.00	1	09/23/23	09/23/23	
sec-Butylbenzene	ND	1.00	1	09/23/23	09/23/23	
tert-Butylbenzene	ND	1.00	1	09/23/23	09/23/23	
Carbon Tetrachloride	ND	1.00	1	09/23/23	09/23/23	
Chlorobenzene	ND	1.00	1	09/23/23	09/23/23	
Chloroethane	ND	2.00	1	09/23/23	09/23/23	
Chloroform	ND	5.00	1	09/23/23	09/23/23	
Chloromethane	ND	2.00	1	09/23/23	09/23/23	
2-Chlorotoluene	ND	1.00	1	09/23/23	09/23/23	
4-Chlorotoluene	ND	1.00	1	09/23/23	09/23/23	
Dibromochloromethane	ND	1.00	1	09/23/23	09/23/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	09/23/23	09/23/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	09/23/23	09/23/23	
Dibromomethane	ND	1.00	1	09/23/23	09/23/23	
1,2-Dichlorobenzene	ND	1.00	1	09/23/23	09/23/23	
1,3-Dichlorobenzene	ND	1.00	1	09/23/23	09/23/23	
1,4-Dichlorobenzene	ND	1.00	1	09/23/23	09/23/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	09/23/23	09/23/23	
1,1-Dichloroethane	ND	1.00	1	09/23/23	09/23/23	
1,2-Dichloroethane	ND	1.00	1	09/23/23	09/23/23	
1,1-Dichloroethene	ND	1.00	1	09/23/23	09/23/23	
cis-1,2-Dichloroethene	ND	1.00	1	09/23/23	09/23/23	
trans-1,2-Dichloroethene	ND	1.00	1	09/23/23	09/23/23	
1,2-Dichloropropane	ND	1.00	1	09/23/23	09/23/23	
1,3-Dichloropropane	ND	1.00	1	09/23/23	09/23/23	
2,2-Dichloropropane	ND	1.00	1	09/23/23	09/23/23	
1,1-Dichloropropene	ND	1.00	1	09/23/23	09/23/23	
cis-1,3-Dichloropropene	ND	1.00	1	09/23/23	09/23/23	
trans-1,3-Dichloropropene	ND	1.00	1	09/23/23	09/23/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	09/23/23	09/23/23	
Ethylbenzene	ND	1.00	1	09/23/23	09/23/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	09/23/23	09/23/23	
Hexachlorobutadiene	ND	5.00	1	09/23/23	09/23/23	
2-Hexanone	ND	20.0	1	09/23/23	09/23/23	
Isopropylbenzene	ND	1.00	1	09/23/23	09/23/23	
4-Isopropyltoluene	ND	1.00	1	09/23/23	09/23/23	
2-Butanone (MEK)	ND	20.0	1	09/23/23	09/23/23	
Methylene Chloride	ND	2.00	1	09/23/23	09/23/23	
1-Methylnaphthalene	ND	10.0	1	09/23/23	09/23/23	
2-Methylnaphthalene	ND	10.0	1	09/23/23	09/23/23	



# Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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## MW-3

### E309156-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	ug/L	ug/L		Analyst: RKS		Batch: 2338114
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	09/23/23	09/23/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	09/23/23	09/23/23	
Naphthalene	ND	5.00	1	09/23/23	09/23/23	
n-Propyl Benzene	ND	1.00	1	09/23/23	09/23/23	
Styrene	ND	1.00	1	09/23/23	09/23/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	09/23/23	09/23/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	09/23/23	09/23/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	09/23/23	09/23/23	
Tetrachloroethene	ND	1.00	1	09/23/23	09/23/23	
1,2,3-Trichlorobenzene	ND	5.00	1	09/23/23	09/23/23	
1,2,4-Trichlorobenzene	ND	5.00	1	09/23/23	09/23/23	
1,1,1-Trichloroethane	ND	1.00	1	09/23/23	09/23/23	
1,1,2-Trichloroethane	ND	1.00	1	09/23/23	09/23/23	
Trichloroethene	ND	1.00	1	09/23/23	09/23/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	09/23/23	09/23/23	
1,2,3-Trichloropropane	ND	2.00	1	09/23/23	09/23/23	
1,2,4-Trimethylbenzene	ND	5.00	1	09/23/23	09/23/23	
1,3,5-Trimethylbenzene	ND	1.00	1	09/23/23	09/23/23	
Toluene	ND	1.00	1	09/23/23	09/23/23	
Vinyl chloride	ND	2.00	1	09/23/23	09/23/23	
o-Xylene	ND	1.00	1	09/23/23	09/23/23	
p,m-Xylene	ND	2.00	1	09/23/23	09/23/23	
Total Xylenes	ND	1.00	1	09/23/23	09/23/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	09/23/23	09/23/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	09/23/23	09/23/23	
<i>Surrogate: Toluene-d8</i>		99.2 %	70-130	09/23/23	09/23/23	



## Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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### MW-3

#### E309156-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Dissolved Metals by EPA 200.7</b>	mg/L	mg/L	Analyst: JL			Batch: 2339051
Iron	ND	0.400	0.2	09/28/23	09/28/23	
Manganese	ND	0.00200	0.2	09/28/23	09/28/23	



# Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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## Trip Blank

**E309156-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		ug/L	ug/L	Analyst: RKS		Batch: 2338114
Acetone	ND	40.0	1	09/22/23	09/22/23	
Benzene	ND	1.00	1	09/22/23	09/22/23	
Bromobenzene	ND	1.00	1	09/22/23	09/22/23	
Bromochloromethane	ND	1.00	1	09/22/23	09/22/23	
Bromodichloromethane	ND	1.00	1	09/22/23	09/22/23	
Bromoform	ND	1.00	1	09/22/23	09/22/23	
Bromomethane	ND	2.00	1	09/22/23	09/22/23	
n-Butyl Benzene	ND	1.00	1	09/22/23	09/22/23	
sec-Butylbenzene	ND	1.00	1	09/22/23	09/22/23	
tert-Butylbenzene	ND	1.00	1	09/22/23	09/22/23	
Carbon Tetrachloride	ND	1.00	1	09/22/23	09/22/23	
Chlorobenzene	ND	1.00	1	09/22/23	09/22/23	
Chloroethane	ND	2.00	1	09/22/23	09/22/23	
Chloroform	ND	5.00	1	09/22/23	09/22/23	
Chloromethane	ND	2.00	1	09/22/23	09/22/23	
2-Chlorotoluene	ND	1.00	1	09/22/23	09/22/23	
4-Chlorotoluene	ND	1.00	1	09/22/23	09/22/23	
Dibromochloromethane	ND	1.00	1	09/22/23	09/22/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	09/22/23	09/22/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	09/22/23	09/22/23	
Dibromomethane	ND	1.00	1	09/22/23	09/22/23	
1,2-Dichlorobenzene	ND	1.00	1	09/22/23	09/22/23	
1,3-Dichlorobenzene	ND	1.00	1	09/22/23	09/22/23	
1,4-Dichlorobenzene	ND	1.00	1	09/22/23	09/22/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	09/22/23	09/22/23	
1,1-Dichloroethane	ND	1.00	1	09/22/23	09/22/23	
1,2-Dichloroethane	ND	1.00	1	09/22/23	09/22/23	
1,1-Dichloroethene	ND	1.00	1	09/22/23	09/22/23	
cis-1,2-Dichloroethene	ND	1.00	1	09/22/23	09/22/23	
trans-1,2-Dichloroethene	ND	1.00	1	09/22/23	09/22/23	
1,2-Dichloropropane	ND	1.00	1	09/22/23	09/22/23	
1,3-Dichloropropane	ND	1.00	1	09/22/23	09/22/23	
2,2-Dichloropropane	ND	1.00	1	09/22/23	09/22/23	
1,1-Dichloropropene	ND	1.00	1	09/22/23	09/22/23	
cis-1,3-Dichloropropene	ND	1.00	1	09/22/23	09/22/23	
trans-1,3-Dichloropropene	ND	1.00	1	09/22/23	09/22/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	09/22/23	09/22/23	
Ethylbenzene	ND	1.00	1	09/22/23	09/22/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	09/22/23	09/22/23	
Hexachlorobutadiene	ND	5.00	1	09/22/23	09/22/23	
2-Hexanone	ND	20.0	1	09/22/23	09/22/23	
Isopropylbenzene	ND	1.00	1	09/22/23	09/22/23	
4-Isopropyltoluene	ND	1.00	1	09/22/23	09/22/23	
2-Butanone (MEK)	ND	20.0	1	09/22/23	09/22/23	
Methylene Chloride	ND	2.00	1	09/22/23	09/22/23	
1-Methylnaphthalene	ND	10.0	1	09/22/23	09/22/23	
2-Methylnaphthalene	ND	10.0	1	09/22/23	09/22/23	



# Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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## Trip Blank

**E309156-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	ug/L	ug/L		Analyst: RKS		Batch: 2338114
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	09/22/23	09/22/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	09/22/23	09/22/23	
Naphthalene	ND	5.00	1	09/22/23	09/22/23	
n-Propyl Benzene	ND	1.00	1	09/22/23	09/22/23	
Styrene	ND	1.00	1	09/22/23	09/22/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	09/22/23	09/22/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	09/22/23	09/22/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	09/22/23	09/22/23	
Tetrachloroethene	ND	1.00	1	09/22/23	09/22/23	
1,2,3-Trichlorobenzene	ND	5.00	1	09/22/23	09/22/23	
1,2,4-Trichlorobenzene	ND	5.00	1	09/22/23	09/22/23	
1,1,1-Trichloroethane	ND	1.00	1	09/22/23	09/22/23	
1,1,2-Trichloroethane	ND	1.00	1	09/22/23	09/22/23	
Trichloroethene	ND	1.00	1	09/22/23	09/22/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	09/22/23	09/22/23	
1,2,3-Trichloropropane	ND	2.00	1	09/22/23	09/22/23	
1,2,4-Trimethylbenzene	ND	5.00	1	09/22/23	09/22/23	
1,3,5-Trimethylbenzene	ND	1.00	1	09/22/23	09/22/23	
Toluene	ND	1.00	1	09/22/23	09/22/23	
Vinyl chloride	ND	2.00	1	09/22/23	09/22/23	
o-Xylene	ND	1.00	1	09/22/23	09/22/23	
p,m-Xylene	ND	2.00	1	09/22/23	09/22/23	
Total Xylenes	ND	1.00	1	09/22/23	09/22/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	09/22/23	09/22/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	09/22/23	09/22/23	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	09/22/23	09/22/23	



# QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

### Blank (2338114-BLK1)

Prepared: 09/22/23 Analyzed: 09/22/23

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: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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 (2338114-MS1)

Source: E309097-01

Prepared: 09/22/23 Analyzed: 09/22/23

Trichloroethene	2370	50.0	2500	ND	94.8	49-148			
Toluene	2460	50.0	2500	ND	98.5	67-130			
o-Xylene	2440	50.0	2500	ND	97.7	70-130			
p,m-Xylene	4810	100	5000	ND	96.2	65-135			
Total Xylenes	7250	50.0	7500	ND	96.7	65-135			
<i>Surrogate: Bromofluorobenzene</i>	<i>518</i>		<i>500</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>467</i>		<i>500</i>		<i>93.3</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>505</i>		<i>500</i>		<i>101</i>	<i>70-130</i>			

### Matrix Spike Dup (2338114-MSD1)

Source: E309097-01

Prepared: 09/22/23 Analyzed: 09/22/23

Acetone	4020	2000	5000	ND	80.4	10-190	0.682	30	
Benzene	2510	50.0	2500	ND	100	59-133	1.82	20	
Bromoform	2060	50.0	2500	ND	82.6	66-140	4.13	20	
Bromomethane	1540	100	2500	ND	61.7	17-190	5.83	20	
sec-Butylbenzene	2680	50.0	2500	ND	107	66-139	4.91	20	
Carbon Tetrachloride	2350	50.0	2500	ND	94.1	61-139	2.39	20	
Chlorobenzene	2570	50.0	2500	ND	103	70-130	0.136	20	
2-Chlorotoluene	2660	50.0	2500	ND	106	67-134	3.99	20	
Dibromochloromethane	2320	50.0	2500	ND	92.6	70-132	0.194	20	
1,2-Dichlorobenzene	2450	50.0	2500	ND	97.9	70-130	4.54	20	
Dichlorodifluoromethane (Freon-12)	3110	100	2500	ND	125	50-180	3.91	20	
1,1-Dichloroethane	2660	50.0	2500	ND	107	64-134	2.23	20	
1,1-Dichloroethene	2420	50.0	2500	ND	96.9	49-144	2.31	20	
2,2-Dichloropropane	2520	50.0	2500	ND	101	45-165	2.17	20	
cis-1,3-Dichloropropene	2690	50.0	2500	ND	107	70-130	0.0186	20	
Ethylbenzene	2510	50.0	2500	ND	100	62-136	0.199	20	
Isopropylbenzene	2390	50.0	2500	ND	95.5	67-136	5.16	20	
Methyl tert-Butyl Ether (MTBE)	4550	50.0	5000	ND	90.9	61-136	1.58	20	
Naphthalene	2350	250	2500	ND	93.9	60-160	5.81	20	
tert-Amyl Methyl ether (TAME)	2270	50.0	2500	ND	90.7	65-135	0.879	20	
Trichloroethene	2350	50.0	2500	ND	94.2	49-148	0.678	20	
Toluene	2450	50.0	2500	ND	98.2	67-130	0.305	20	
o-Xylene	2570	50.0	2500	ND	103	70-130	5.05	20	
p,m-Xylene	5020	100	5000	ND	100	65-135	4.39	20	
Total Xylenes	7590	50.0	7500	ND	101	65-135	4.61	20	
<i>Surrogate: Bromofluorobenzene</i>	<i>526</i>		<i>500</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>484</i>		<i>500</i>		<i>96.7</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>507</i>		<i>500</i>		<i>101</i>	<i>70-130</i>			



## QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 9/30/2023 1:37:38PM
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### Dissolved Metals by EPA 200.7

Analyst: JL

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

**Blank (2339051-BLK1)**

Prepared: 09/28/23 Analyzed: 09/29/23

Iron	ND	0.400							
Manganese	ND	0.00200							

**LCS (2339051-BS1)**

Prepared: 09/28/23 Analyzed: 09/28/23

Iron	18.8	0.400	20.0		94.1	85-115			
Manganese	0.0467	0.00200	0.0500		93.4	85-115			

**LCS Dup (2339051-BSD1)**

Prepared: 09/28/23 Analyzed: 09/28/23

Iron	19.6	0.400	20.0		98.2	85-115	4.25	20	
Manganese	0.0498	0.00200	0.0500		99.7	85-115	6.55	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 3400 2nd Street NW Albuquerque NM, -	Project Name: 3rd Quarterly GW Sampling and Monitoring Project Number: 22104-0003 Project Manager: Greg Crabtree	<b>Reported:</b> 09/30/23 13:37
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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.



<b>Client:</b> NMED-PSTB <b>Project:</b> 3rd Quarterly GW Sampling and Monitoring <b>Project Manager:</b> Greg Crabtree <b>Address:</b> _____ <b>City, State, Zip:</b> _____ <b>Phone:</b> _____  <b>Email:</b> All Enviro <b>Report due by:</b> _____	<b>Bill To</b> <b>Attention:</b> _____ <b>Address:</b> _____ <b>City, State, Zip:</b> _____ <b>Phone:</b> _____ <b>Email:</b> _____	<b>Lab Use Only</b> <b>Lab Work:</b> 309150 <b>Job Number:</b> 22104-0003	<b>TAT</b> 1D 2D 3D Standard x	<b>EPA Program</b> CWA SDWA RCRA x State NM CO UT AZ TX x
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	VOC per EPA Method 8260B	Iron and Manganese per EPA Method 200.7												Remarks
14:30	9/20/2023	A	4	MW-1A	1	X	X												
12:10	9/20/2023	A	4	MW-2A	2	X	X												
13:35	9/20/2023	A	4	MW-3	3	X	X												
	9/20/23	A	1	Trip Blank	4	X													

**Additional Instructions:** IRON AND MANGANESE WAS FILTERED AND PRESERVED IN THE FIELD.

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.

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.

Sampled by: Diego Aragon

Relinquished by: (Signature) <i>Diego Aragon</i>	Date 9/20/23	Time 19:55	Received by: (Signature) <i>Cathy Man</i>	Date 9-21-23	Time 8:21	Lab Use Only Received on ice: <i>Y/N</i> T1 _____ T2 _____ T3 _____ AVG Temp °C <i>4</i>
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: 09/21/23 08:21	Work Order ID: E309156
Phone: (505) 372-8334	Date Logged In: 09/21/23 09:27	Logged In By: Caitlin Mars
Email: gcrabtree@envirotech-inc.com	Due Date: 09/28/23 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? No
- 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**

Iron and Manganese were filtered and preserved in the field.

**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? 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

**Client Instruction**

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

Date



envirotech Inc.