

2023 3rd Quarterly Groundwater Monitoring and Sampling Report



Barela's Bridge

FID #29854 RID #54
800 Bridge Boulevard SW
Albuquerque, New Mexico 87107

October 27, 2023
Envirotech Project #22104-0002
Contract ID No. 22 667 3200 0015

RECEIVED

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2023 3RD QUARTER GROUNDWATER MONITORING REPORT

FOR:

**BARELA'S BRIDGE
800 BRIDGE BOULEVARD SW
ALBUQUERQUE, NEW MEXICO
FID #29854 RID#54**

SUBMITTED TO:

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PROJECT No. 22104-0002

OCTOBER 2023

**2023 3RD QUARTERLY GROUNDWATER MONITORING REPORT
BARELA’S BRIDGE
ALBUQUERQUE, 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 Barela's Bridge located at 800 Bridge boulevard in Albuquerque, 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 24th, 2023. This is the 2023 2nd quarterly groundwater monitoring event under the current approved Workplan. **Figure 1, Vicinity Map** illustrates the topography in the surrounding area of the Site.

BACKGROUND

In 1989 after the initial release was reported, contaminated soil from the former UST (underground storage tank) pit was excavated and removed along with the southern site boundary. In 2012, the current USTs were installed. From 1989 to 1990, initial hydrogeological investigations were performed and in 1992 a soil vapor extraction system was installed. Ground water technology (GT) introduced five (5) soil borings in 1992 to act as multi-purpose wells and assistance with air sparge/soil vapor extraction. Upon results showing that an AS/SVE system could effectively remediate the source zone, GT proposed and introduced a full-scale system. By 1995 GT installed one monitor well (MW-9) and a total of seven (7) paired AS/SVE wells. Western Technologies performed ground water monitoring events between 2000 and 2003 and in May of 2003 WT decommissioned inactive AS/SVE systems and installed four (4) 10-foot-deep confirmation bores. Intera Geoscience and Engineering Solutions conducted eight (8) ground water monitoring events between 2014 and 2018. From 2018 to 2021 Western technologies conducted four (4) more ground water monitoring events. On April 10th Envirotech Inc Conducted the 1st quarterly Groundwater sampling and monitoring event for 2023.

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) per EPA Method 8260B including BTEX, MTBE, and total naphthalene's. All ground water samples were analyzed for nitrate and sulfate (first event for analytes) per EPA Method 300.0. Monitoring well VP-2 was analyzed for total dissolved solids per EPA Method SM2540C.

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

RESULTS

Groundwater Potentiometric Data

During the 2023 3rd quarter Groundwater Monitor Event, the groundwater gradient was calculated to be 0.002 ft/ft with an approximate South flow direction. MW-9 was not used during groundwater gradient calculations due to an unusual change in water elevation from previous events. This change in water elevation (2.49 ft in elevation) could be the result of a potential water leak. During future events Envirotech personnel will consciously observe the water elevation in MW-9 and its changes. 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-9 to 22.5°C in VP-5. SpC readings ranged from 460 milli siemens (µS) in MW-7 to 1163 (µS) in MW-8. DO readings ranged from 1.36 milligrams per liter (mg/L) in VP-5 to 2.40 mg/L in MW-7. PH readings ranged from 7.04 standard units in VP-5 to 7.50 standard units in MW-7. ORP readings ranged from -196.5 millivolts (mV) in VP-5 to 239.1 mV in MW-8. 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**, summarized in **Table 2, Groundwater Analytical Results**, and depicted on **Figure 4, Naphthalene Concentration Map**.

- Laboratory analytical results were below NMWQCC standard regulations in all wells for Benzene, Toluene, Ethylbenzene, Total Xylenes, MTBE, EDB, and EDC.
- Total naphthalene levels were above NMWQCC standard regulations in monitor well VP-5 at 177.1 (ug/l) and in monitor well MW-8 at 46.7 (ug/l). All other wells resulted in total naphthalene being below standard regulations.

DISCUSSION

MW-4 was not sampled due to insufficient water in the monitoring well. Western technologies reports on June 2021 that water parameters were unable to be recorded in MW-4 due to tree root blockage at the water table. Envirotech recommends the maintenance of MW-4 prior to future monitoring and sampling events.

Dissolved-phase contaminants-of-concern (COC) appear to include Naphthalene concentrations in two wells, VP-5 and MW-8. All other VOCs were below NMWQCC regulatory standards.

At this point Naphthalene contamination is not contained and Envirotech recommends further testing. Based on groundwater gradient (south flow direction), elevated levels of naphthalene in VP-5 could mean that contamination could potentially be from an offsite source. A closer review of lithology logs and analytical results from the installation of VP-5 would help determine if naphthalene concentrations are coming from on-site or offsite.

CONCLUSION

On June 29th, 2023, five (5) of the six (6) groundwater monitor wells (MW-7, MW-8, MW-9, VP-2 and VP-5) were monitored, and groundwater samples were collected for laboratory analysis. The groundwater monitor well (MW-4) was unable to be monitored and sampled due to insufficient water in the well. 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

per EPA Method 8260B. Groundwater samples collected from monitor well VP-5 exhibited concentrations that exceed the 20.6.2.3103 NMAC standard for Naphthalene's.

Envirotech recommends the continued groundwater monitoring of all monitoring wells to gather additional information and determine if natural attenuation is occurring. 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

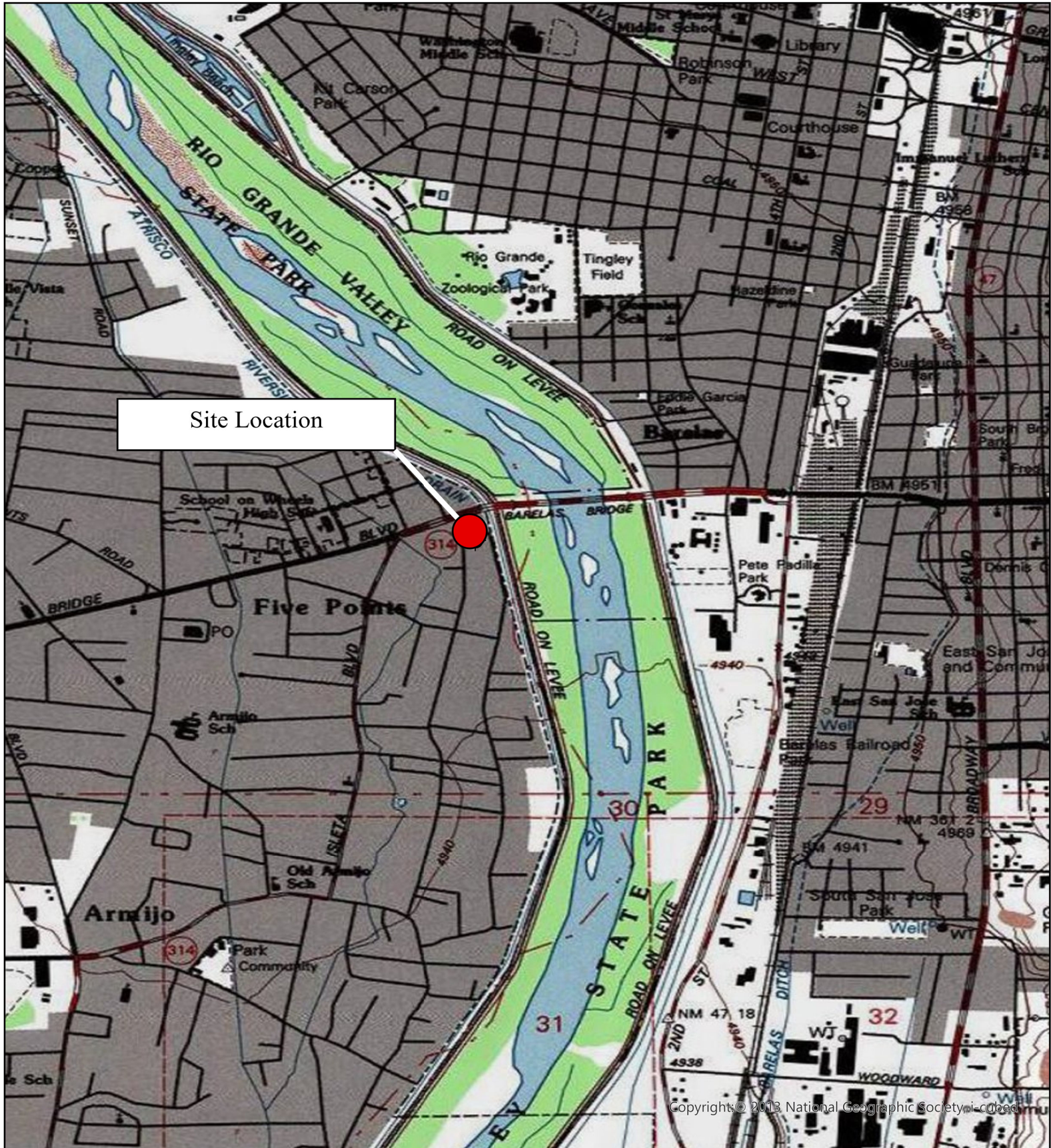
Figure 2, Site Map

Figure 3, Groundwater Elevation Map

Figure 4, Manganese Concentration Map



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Site Location

Figure 1, Vicinity Map

NMED PSTB
 Barela's Bridge
 800 Bridge Blvd SW
 Albuquerque, New Mexico
 FID#29854 RID#54
 Project #22104-0002

Legend

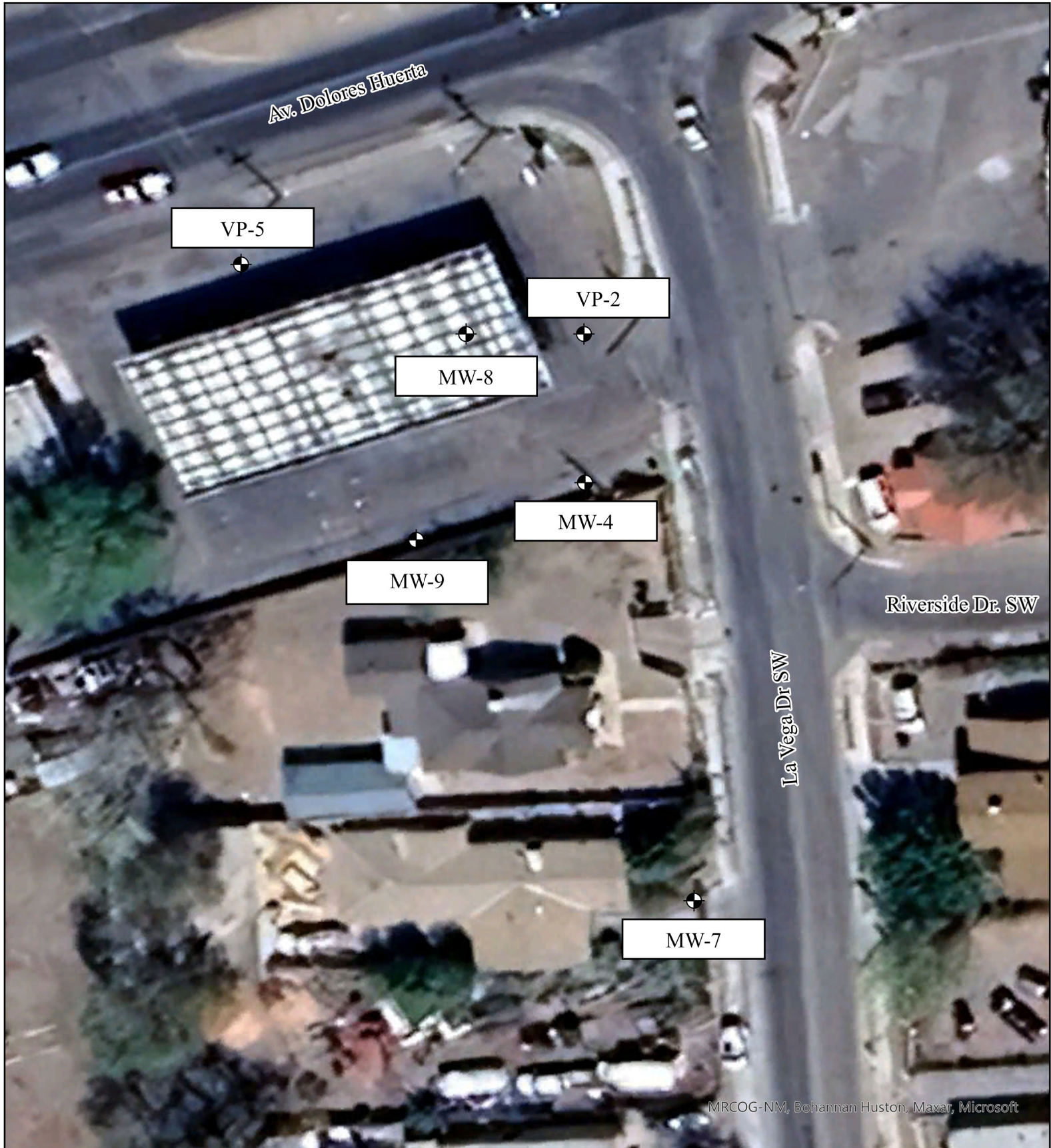


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0 1,000 2,000 4,000 Feet



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 Date Drawn: 06/30/2023
 Drawn by: P. Mesa



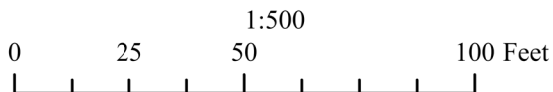
MRCOG-NM, Bohannon Huston, Maxar, Microsoft

Figure 2, Site Map

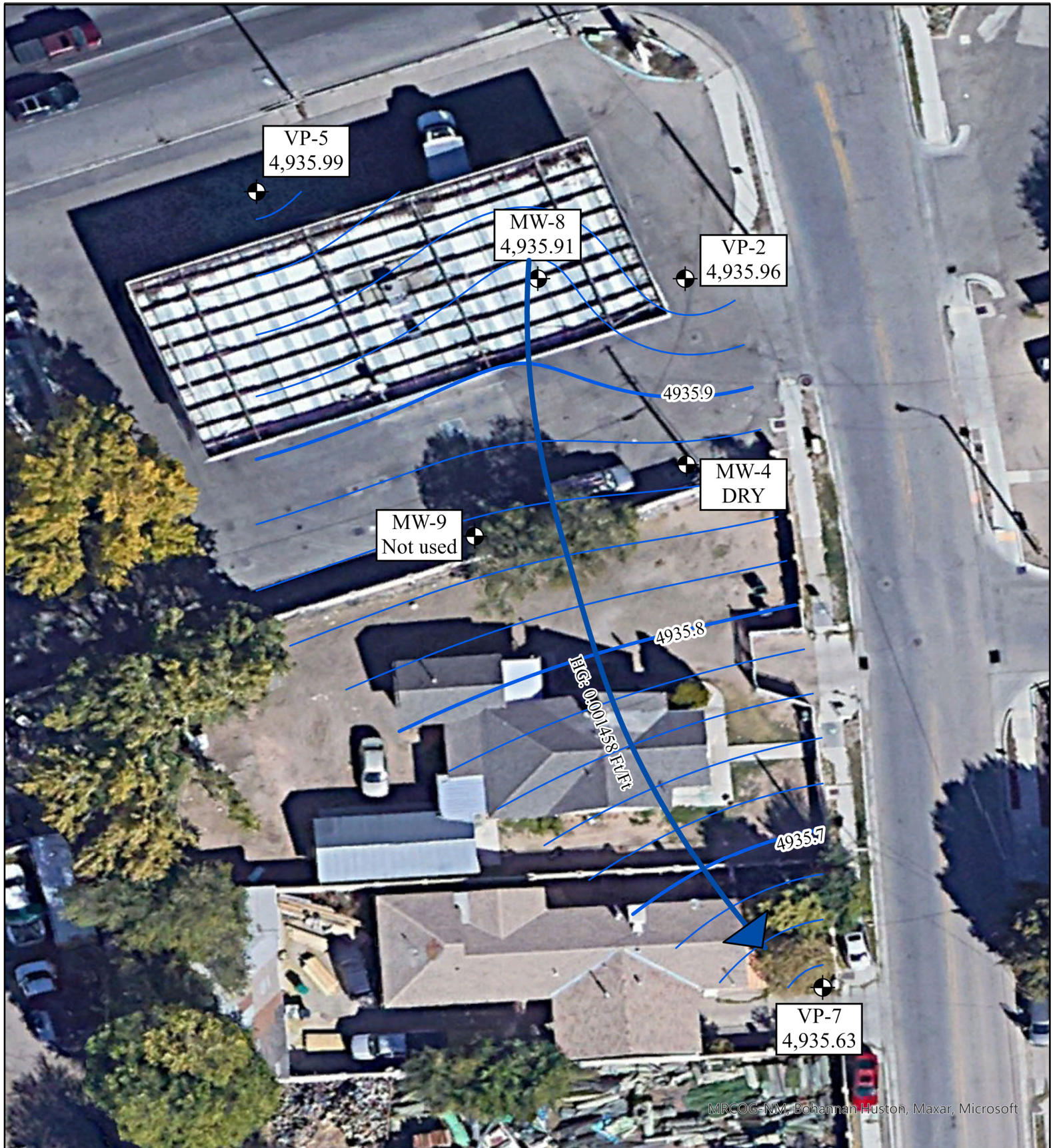
NMED PSTB
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Legend

Monitoring Wells



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Figure 3: Potentiometric Map

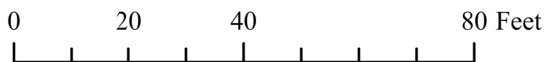
NMED PSTB
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 Albuquerque, New Mexico
 FID#29854 RID#54
 Project#: 22104-0002

Legend

Potentiometric Contours

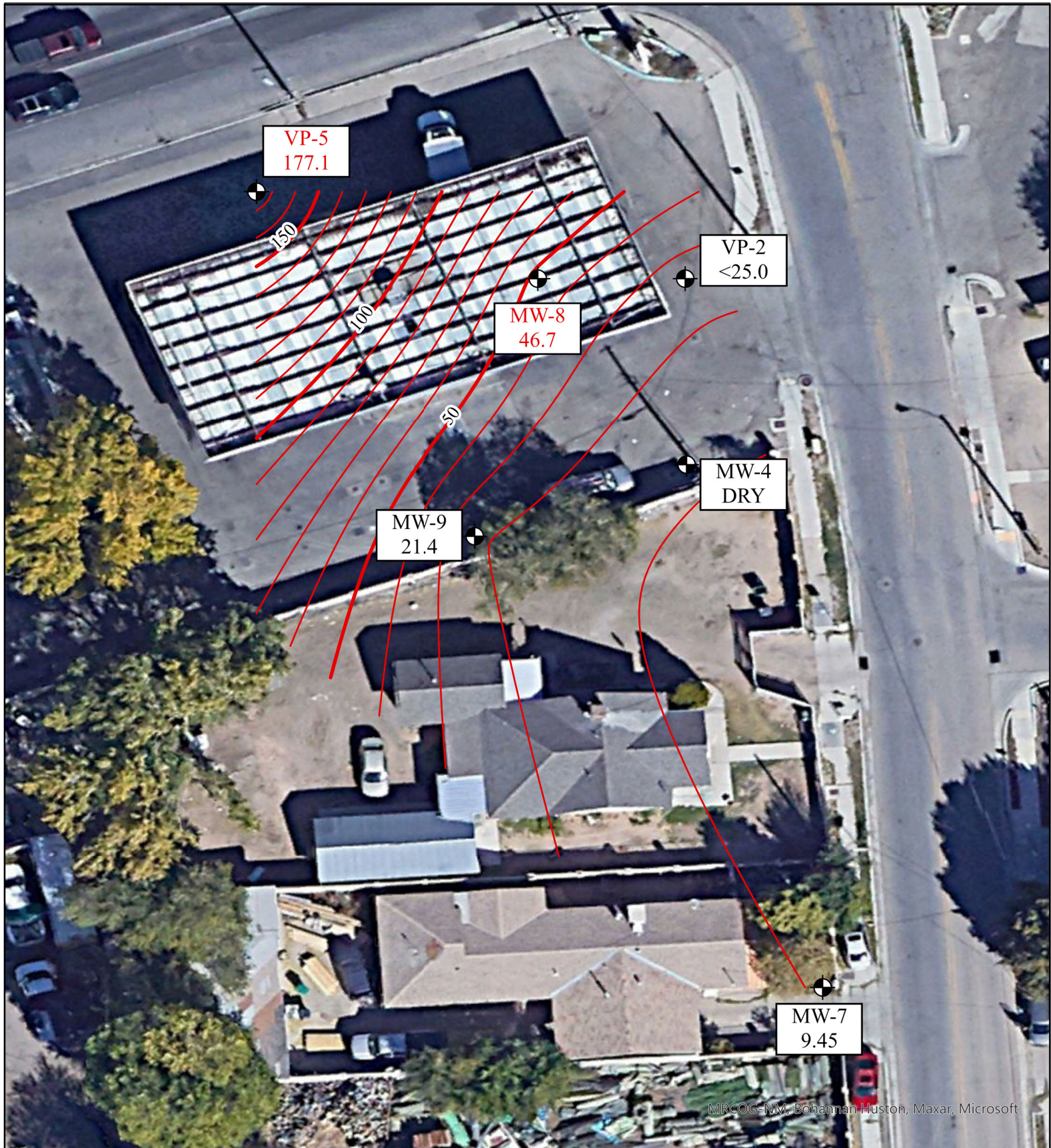
- Contour
- Index Contour
-  Monitoring Wells
-  Hydraulic Gradient

1:400



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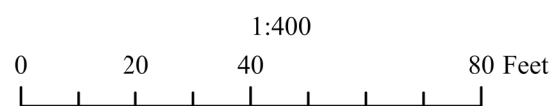
MRCOG-NM, Bohannon, Huston, Maxar, Microsoft

Figure 4: Total Naphthalene Map

NMED PSTB
 Barela's Bridge
 800 Bridge Blvd SW
 Albuquerque, New Mexico
 FID#29854 RID#54
 Project#: 22104-0002

Legend

-  Monitoring Wells
- Total Naphthalenes
-  Contours
-  Index Contour



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Tables

Table 1, Groundwater Elevation

Table 2, Groundwater Analytical Results



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Site Name:	Barelas Bridge
Facility#:	29854
Date:	10/4/2023
Project#:	22104-0002

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-4	10/4/2023	4,943.23	Well Dry		
	6/29/2023		Well Dry		
	4/10/2023		Well Dry		
	6/22/2021		7.57	4,935.66	0.02
	9/23/2019		7.59	4,935.64	0.14
	3/26/2019		7.73	4,935.50	-0.16
	3/6/2018		7.57	4,935.66	
MW-7	10/4/2023	4,942.94	7.31	4,935.63	-0.20
	6/29/2023		7.11	4,935.83	0.51
	4/10/2023		7.62	4,935.32	0.09
	6/22/2021		7.71	4,935.23	-0.01
	9/23/2019		7.70	4,935.24	0.09
	3/26/2019		7.79	4,935.15	-0.16
	3/6/2018		7.63	4,935.31	
MW-8	10/4/2023	4,944.59	8.68	4,935.91	-0.37
	6/29/2023		8.31	4,936.28	0.54
	4 /10/ 2023		8.85	4,935.74	0.12
	6/22/2021		8.97	4,935.62	-0.06
	9/23/2019		8.91	4,935.68	0.12
	3/26/2019		9.03	4,935.56	-0.13
	3/6/2018		8.90	4,935.69	
MW-9	10/4/2023	4,943.98	8.18	4,935.80	-0.37
	6/29/2023		7.81	4,936.17	-2.49
	4/10/2023		5.32	4,938.66	3.14
	6/22/2021		8.46	4,935.52	-0.03
	9/23/2019		8.43	4,935.55	0.05
	3/26/2019		8.48	4,935.50	-0.08
	3/6/2018		8.40	4,935.58	
VP-2	10/4/2023	4,943.73	7.77	4,935.96	-0.34
	6/29/2023		7.43	4,936.30	0.52
	4/10/2023		7.95	4,935.78	0.11
	6/22/2021		8.06	4,935.67	0.54
	9/23/2019		8.60	4,935.13	-0.48
	3/26/2019		8.12	4,935.61	0.00
	3/6/2018		8.12	4,935.61	
VP-5	10/4/2023	4,943.52	7.53	4,935.99	-0.37
	6/29/2023		7.16	4,936.36	0.49
	4/10/2023		7.65	4,935.87	0.18
	6/22/2021		7.83	4,935.69	-0.06
	9/23/2019		7.77	4,935.75	0.07
	3/26/2019		7.84	4,935.68	-0.07
	3/6/2018		7.77	4,935.75	

Table 2															
Groundwater Analytical Results															
Barelas Bridge															
Albuquerque, New Mexico															
Project # 22104-0002															
FID # 29854															
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)	5 (µg/L)				30 (µg/L)	10 (mg/L)	600 (mg/L)	1000 (mg/L)
Groundwater Monitoring Well	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Naphthalene	1-Methyl	2-Methyl	Total Naphthalenes	Nitrate	Sulfate	Total Dissolved Solids (VP-2)
		EPA Method 8260B											EPA Method 300.0		
MW-4	10/4/2023	NS-Well Dry													
	6/29/2023	NS-Well Dry													
	4/10/2023	NS-Well Dry													
	12/14/2021	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
	6/22/2021	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
	9/23/2019	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
	3/26/2019	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
	3/6/2018	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
	1/12/2018	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	8.1	<4.00	<4.00	8.1			
	5/19/2015	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	2.1	<4.00	<4.00	2.1			
12/2/2014	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00				
MW-7	10/4/2023	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	9.45	<10.00	<10.00	9.45	<0.250	46.7	
	6/29/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<5.00	<10.00	<10.00	<25.00			
	4/10/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<10.00	<10.00	<25	<0.250	50.4	
	12/14/2021	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.0	<4.0	<4.0	<10.00			
	6/22/2021	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	2.3	<4.0	<4.0	2.3			
	9/23/2019	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.0	<4.0	<4.0	<10.00			
	3/26/2019	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.0	<4.0	<4.0	<10.00			
	3/6/2018	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.0	<4.0	<4.0	<10.00			
	1/12/2018	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.0	<4.0	<4.0	<10.00			
	5/19/2015	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.0	<4.0	<4.0	<10.00			
12/2/2014	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.0	<4.0	<4.0	<10.00				
MW-8	10/4/2023	<1.00	<1.00	6.56	<1.5	<1.00	<1.00	<1.00	14.2	13.6	18.9	46.7	0.633	39	
	6/29/2023	<1.00	<1.00	7.25	<1.00	<1.00	<2.00	<1.00	12.8	<10.0	11.6	24.4			
	4/10/2023	<1.00	<1.00	9.56	<1.00	<1.00	<1.00	<1.00	18.8	11.6	15.3	45.7	<0.250	17.7	
	12/14/2021	<1.00	<1.00	7.9	1.8	<1.00	<1.00	<1.00	22	15	22	59			
	6/22/2021	<1.00	<1.00	10	2.7	<1.00	<1.00	<1.00	27	14	27	68			
	9/23/2019	<1.00	<1.00	8.8	2.5	<1.00	<1.00	<1.00	25	15	19	59			
	3/26/2019	<1.00	<1.00	9.7	2.4	<1.00	<1.00	<1.00	25	15	17	57			
	3/6/2018	<1.00	<1.00	6.4	1.8	<1.00	<1.00	<1.00	19	12	14	45			
	1/12/2018	<1.00	<1.00	7.9	2.4	<1.00	<1.00	<1.00	25	13	18	56			
	5/19/2015	<1.00	<1.00	22	4.4	<1.00	<1.00	<1.00	37	17	28	82			
12/2/2014	<1.00	<1.00	17	7.5	<1.00	<1.00	<1.00	33	20	29	62				
MW-9	10/4/2023	3.56	<1.00	8.92	9.52	<1.00	<1.00	<1.00	21.4	<10.00	<10.00	21.4	<0.250	73.7	
	6/29/2023	<1.00	<1.00	6.3	10.3	<1.00	<2.00	<1.00	13.3	<10.0	<10.0	13.3			
	4/10/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<10.00	<10.00	<25	<0.250	56.4	
	12/14/2021	<1.00	<1.00	7.2	11	<1.00	<1.00	<1.00	4.8	<4.00	4.4	9.2			
	6/22/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	24	6.1	9.7	39.8			
	9/23/2019	<1.00	<1.00	9.0	32.0	<1.00	<1.00	<1.00	<2.00	<4.00	<4.0	<10.00			
	3/26/2019	4.7	<1.00	2.1	3.8	<1.00	<1.00	<1.00	11	7	7.9	25.9			
	3/6/2018	<1.00	<1.00	11.0	3.8	<1.00	<1.00	<1.00	11	7	7.9	25.9			
	1/12/2018	4	1.4	18.0	11.0	<1.00	<1.00	<1.00	44	10	14	68			
	5/19/2015	21	3	14	18	<1.00	<1.00	<1.00	2.7	<4.00	<4.00	2.7			
12/2/2014	6.4	<1.00	72	5.5	<1.00	<1.00	<1.00	2.3	<4.00	<4.00	2.3				
VP-2	10/4/2023	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<5.00	<10.00	<10.00	<25.00	<0.250	68	313
	6/29/2023	<1.00	<1.00	1.09	<1.00	<1.00	<2.00	<1.00	10.3	<10.0	<10.0	10.3			
	4/10/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<10.00	<10.00	<25	<0.250	81.2	140
	12/14/2021	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
	6/22/2021	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	2	<4.00	<4.00	2			
	9/23/2019	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	3	<4.00	<4.00	3			
	3/26/2019	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	8.7	<4.00	<4.00	8.7			
	3/6/2018	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
	1/12/2018	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
	5/19/2015	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	<10.00			
12/2/2014	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	<4.00	<4.00	3.6				
VP-5	10/4/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<5.00	69.1	108	177.1	<0.250	20.1	
	6/29/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<5.00	64.8	101	165.8			
	4/10/2023	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	45.1	74.9	120	<0.250	33.1	
	12/14/2021	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	53	97	150			
	6/22/2021	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	<2.00	30	54	84			
	9/23/2019	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	2.1	56	78	136			
	3/26/2019	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	3.5	70	93	166.5			
	3/6/2018	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	4.1	58	84	146.1			
	1/12/2018	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	4	40	55	95			
	5/19/2015	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	17	66	120	203			
12/2/2014	<1.00	<1.00	<1.00	<1.5	<1.00	<1.00	<1.00	20	99	780	279				

Bold & Red - 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

Field Notes



Practical Solutions for a Better Tomorrow

MONITORING WELL DATA FORM

WELL ID: VP-2

Location: Barelas Bridge
 Project: 3rd Quarter GW Monitoring
 Sampling Technician: A. Foutz

Project No.: 22104-0002

Date: 10/4/2023

Start/End Time: _____

Air Temp: 90°

Purge Device: Bailer

Well Diameter (in): 2"

Total Well Depth (ft): 12.55

Water Column (ft): 4.78

Initial D.T.W. (ft): 7.77 Time: 11:40 (taken at initial gauging of all wells)

Final D.T.W. (ft): 8.26 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>See reverse for notes on purging and stabilization procedures</i>								
11:45		21.9	947	2.26	6.87	-948	1 Gal	Odor, Mercp
11:49		22.4	953	2.66	7.22	-1426	2 Gal	
11:53		22.1	943	2.21	7.28	-1483	2.5 Gal	
11:59							*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: VSI, Bailer

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



Practical Solutions for a Better Tomorrow

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

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

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

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

where:

h = height of water column (feet)

cf = gallons/foot based on well diameter shown below

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

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

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

Show purge volume calculation below:

$$h = \text{Total Well Depth} - \text{Depth To Water} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} =$$

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

$$\text{Total Purge Volume} = 3(\text{Well Volume}) = \underline{\underline{2.34}}$$



Practical Solutions for a Better Tomorrow

MONITORING WELL DATA FORM

WELL ID: VP-5

Location: Barelas Bridge
Project: 3rd Quarter GW Monitoring
Sampling Technician: A. Foutz

Project No.: 22104-0002
Date: 10/4/2023
Start/End Time: _____

Air Temp: _____

Purge Device: Bailer

Well Diameter (in): 2"

Total Well Depth (ft): 12.11

Water Column (ft): 4.58

Initial D.T.W. (ft): 7.53 **Time:** 11:07 (taken at initial gauging of all wells)

Final D.T.W. (ft): 7.97 **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>See reverse for notes on purging and stabilization procedures</i>								
11:13	7.79	22.7	1085	1.51	6.78	-167	1 Gal	Odor, Mercury
11:17	7.82	22.5	635	2.34	6.97	-179.7	2 GAL	
11:22	7.89	22.5	1079	1.36	7.04	-196.5	2.5 Gal	
11:30	7.97						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: YSI, Bailer

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



Practical Solutions for a Better Tomorrow

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

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

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

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

where:

h = height of water column (feet)

cf = gallons/foot based on well diameter shown below

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

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

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

Show purge volume calculation below:

$$h = \text{Total Well Depth} - \text{Depth To Water} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} =$$

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

$$\text{Total Purge Volume} = 3(\text{Well Volume}) = \underline{\underline{2.25}}$$



Practical Solutions for a Better Tomorrow

MONITORING WELL DATA FORM

WELL ID: MW-4

Location: Barelas Bridge
 Project: 3rd Quarter GW Monitoring
 Sampling Technician: A. Fautz

Project No.: 22104-0002
 Date: 10/4/2023
 Start/End Time: _____
 Air Temp: 90

Purge Device: _____ Well Diameter (in): 2''
 Total Well Depth (ft): 7.70 Water Column (ft): _____
 Initial D.T.W. (ft): 7.25 Time: 12:32 (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		
<i>See reverse for notes on purging and stabilization procedures</i>								
<i>Could not sample</i>								

Disposal of Purged Water: Evaporation Containerized

Collected Samples Stored on Ice in Cooler: Yes No

Chain of Custody Record Complete: Yes No

Analytical Laboratory: _____

Equipment Used During Sampling: _____

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



Practical Solutions for a Better Tomorrow

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

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

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

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

where:

h = height of water column (feet)

cf = gallons/foot based on well diameter shown below

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

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

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

Show purge volume calculation below:

$$h = \text{Total Well Depth} - \text{Depth To Water} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} =$$

$$\text{Well Volume} = (h)(cf) = (\hspace{2cm})(0.1632) =$$

$$\text{Total Purge Volume} = 3(\text{Well Volume}) = \underline{\hspace{2cm}}$$



Practical Solutions for a Better Tomorrow

MONITORING WELL DATA FORM

WELL ID: MW-7

Location: Barelas Bridge
 Project: 3rd Quarter GW Monitoring
 Sampling Technician: A. Foutz

Project No.: 22104-0002
 Date: 10/4/2023
 Start/End Time: _____

Air Temp: _____

Purge Device: Bailer Well Diameter (in): 2"
 Total Well Depth (ft): 21.36 Water Column (ft): 8.84

Initial D.T.W. (ft): 7.31 Time: 12.57 (taken at initial gauging of all wells)

Final D.T.W. (ft): 8.74 Time: 13:35 (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>								
13:01		21.0	994	1.83	7.25	105.1	* 1 Gal	
13:04		20.02	985	1.25	7.40	-143.1	* 2 Gal	
13:09		19.9	481.5	1.34	7.46	-151.0	* 3 Gal	
13:13		19.9	972	1.34	7.45	-147.8	* 4 Gal	
13:18		20.3	497.8	1.57	7.39	-146.2	* 5 Gal	
13:22		20.1	983	1.29	7.37	-147.1	* 6 Gal	
13:27		19.7	960	2.40	7.50	-139.2	* 7 Gal	
13:35							* 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: YST, Bailer

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



Practical Solutions for a Better Tomorrow

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

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

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

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

where:

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

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

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

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

Show purge volume calculation below:

$$h = \text{Total Well Depth} - \text{Depth To Water} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} =$$

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

$$\text{Total Purge Volume} = 3(\text{Well Volume}) = \underline{6.87}$$



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

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

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

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

where:

h = height of water column (feet)

cf = gallons/foot based on well diameter shown below

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

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

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

Show purge volume calculation below:

$$h = \text{Total Well Depth} - \text{Depth To Water} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} =$$

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

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



Practical Solutions for a Better Tomorrow

MONITORING WELL DATA FORM

WELL ID: MW-9

Location: Barelas Bridge
 Project: 3rd Quarter GW Monitoring
 Sampling Technician: A. Foutz

Project No.: 22104-0002

Date: 10/14/2023

Start/End Time: 10:00

Air Temp: 63°

Purge Device: Bailer

Well Diameter (in): 2"

Total Well Depth (ft): 19.19

Water Column (ft): 11.01

Initial D.T.W. (ft): 8.18 Time: 10:15 (taken at initial gauging of all wells)

Final D.T.W. (ft): 8.96 Time: 10:57 (taken after sample collection)

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

Water Quality Parameters - Recorded During Well Purging

Time	Static Water Level	Temp (deg C)	Conductivity (µS/cm)	DO (mg/L)	pH s.u.	ORP (mV)	Purged Volume (see reverse for calc.)	Observations (sheen, odor, organic etc.)
<i>Stabilization Parameters</i>		2°C	3%	10%	1 s.u.	10 mV		
<i>See reverse for notes on purging and stabilization procedures</i>								
10:28	8.20	20.8	956	1.84	6.54	-109.6	1 Gal	No odor/clear
10:33	8.20	19.9	470	1.63	6.88	-138	2 Gal	
10:36	8.24	19.5	959	1.51	6.97	-145.8	3 Gal	Slight odor
10:40	8.61	19.4	970	1.57	7.10	-145.1	4 Gal	
10:46	8.92	19.1	962	1.83	7.24	-147.3	5 Gal	
10:55							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, VST

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



Practical Solutions for a Better Tomorrow

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

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

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

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 = 19.19 - 8.18 =

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

Total Purge Volume = 3(Well Volume) = 5.40



Practical Solutions for a Better Tomorrow

Appendix B

Laboratory Analytical Results



Practical Solutions for a Better Tomorrow

Report to:
Greg Crabtree



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

NMED

Project Name: Barelas Bridge 3rd quarter GW event
Work Order: E310030
Job Number: 22104-0002
Received: 10/4/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/12/23

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: 10/12/23



Greg Crabtree
3400 2nd Street NW
Albuquerque, NM -

Project Name: Barelás Bridge 3rd quarter GW event
Workorder: E310030
Date Received: 10/4/2023 5:32:00PM

Greg Crabtree,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/4/2023 5:32:00PM, under the Project Name: Barelás Bridge 3rd quarter GW event.

The analytical test results summarized in this report with the Project Name: Barelás Bridge 3rd quarter GW event 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
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Sample Summary

NMED
3400 2nd Street NW
Albuquerque NM, -

Project Name: Barelas Bridge 3rd quarter GW event
Project Number: 22104-0002
Project Manager: Greg Crabtree

Reported:
10/12/23 15:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
VP-2	E310030-01A	Aqueous	10/04/23	10/04/23	Poly 500mL
	E310030-01B	Aqueous	10/04/23	10/04/23	Poly 125mL
	E310030-01C	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-01D	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-01E	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
VP-5	E310030-02A	Aqueous	10/04/23	10/04/23	Poly 125mL
	E310030-02B	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-02C	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-02D	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
MW-7	E310030-03A	Aqueous	10/04/23	10/04/23	Poly 125mL
	E310030-03B	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-03C	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-03D	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
MW-8	E310030-04A	Aqueous	10/04/23	10/04/23	Poly 125mL
	E310030-04B	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-04C	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-04D	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
MW-9	E310030-05A	Aqueous	10/04/23	10/04/23	Poly 125mL
	E310030-05B	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-05C	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
	E310030-05D	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl
TRIP BLANK	E310030-06A	Aqueous	10/04/23	10/04/23	VOA Vial, 40mL; HCl



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
---	---	--

VP-2

E310030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: RKS		Batch: 2341065
Acetone	ND	40.0	1	10/11/23	10/11/23	
Benzene	ND	1.00	1	10/11/23	10/11/23	
Bromobenzene	ND	1.00	1	10/11/23	10/11/23	
Bromochloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromodichloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromoform	ND	1.00	1	10/11/23	10/11/23	
Bromomethane	ND	2.00	1	10/11/23	10/11/23	
n-Butyl Benzene	ND	1.00	1	10/11/23	10/11/23	
sec-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
tert-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
Carbon Tetrachloride	ND	1.00	1	10/11/23	10/11/23	
Chlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Chloroethane	ND	2.00	1	10/11/23	10/11/23	
Chloroform	ND	5.00	1	10/11/23	10/11/23	
Chloromethane	ND	2.00	1	10/11/23	10/11/23	
2-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
4-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
Dibromochloromethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	10/11/23	10/11/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	10/11/23	10/11/23	
Dibromomethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,4-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	10/11/23	10/11/23	
1,1-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
cis-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
trans-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
2,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
cis-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
trans-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	10/11/23	10/11/23	
Ethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	10/11/23	10/11/23	
Hexachlorobutadiene	ND	5.00	1	10/11/23	10/11/23	
2-Hexanone	ND	20.0	1	10/11/23	10/11/23	
Isopropylbenzene	3.08	1.00	1	10/11/23	10/11/23	
4-Isopropyltoluene	ND	1.00	1	10/11/23	10/11/23	
2-Butanone (MEK)	ND	20.0	1	10/11/23	10/11/23	
Methylene Chloride	ND	2.00	1	10/11/23	10/11/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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VP-2

E310030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L	Analyst: RKS		Batch: 2341065	
1-Methylnaphthalene	ND	10.0	1	10/11/23	10/11/23	
2-Methylnaphthalene	ND	10.0	1	10/11/23	10/11/23	
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	10/11/23	10/11/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	10/11/23	10/11/23	
Naphthalene	ND	5.00	1	10/11/23	10/11/23	
n-Propyl Benzene	5.90	1.00	1	10/11/23	10/11/23	
Styrene	ND	1.00	1	10/11/23	10/11/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	10/11/23	10/11/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
Tetrachloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2,3-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,2,4-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,1,1-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
Trichloroethene	ND	1.00	1	10/11/23	10/11/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	10/11/23	10/11/23	
1,2,3-Trichloropropane	ND	2.00	1	10/11/23	10/11/23	
1,2,4-Trimethylbenzene	ND	5.00	1	10/11/23	10/11/23	
1,3,5-Trimethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Toluene	ND	1.00	1	10/11/23	10/11/23	
Vinyl chloride	ND	2.00	1	10/11/23	10/11/23	
o-Xylene	ND	1.00	1	10/11/23	10/11/23	
p,m-Xylene	ND	2.00	1	10/11/23	10/11/23	
Total Xylenes	ND	1.00	1	10/11/23	10/11/23	
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Surrogate: Bromofluorobenzene		105 %	70-130	10/11/23	10/11/23	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	10/11/23	10/11/23	
Surrogate: Toluene-d8		99.1 %	70-130	10/11/23	10/11/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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VP-2

E310030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C						
Total Dissolved Solids	313	10.0	1	10/06/23	10/06/23	Batch: 2340083
Anions by EPA 300.0/9056A						
Nitrate-N	ND	0.250	1	10/05/23 14:45	10/05/23 17:44	Batch: 2340089
Sulfate	68.0	2.00	1	10/05/23	10/05/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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VP-5

E310030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: RKS		Batch: 2341065
Acetone	ND	40.0	1	10/11/23	10/11/23	
Benzene	ND	1.00	1	10/11/23	10/11/23	
Bromobenzene	ND	1.00	1	10/11/23	10/11/23	
Bromochloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromodichloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromoform	ND	1.00	1	10/11/23	10/11/23	
Bromomethane	ND	2.00	1	10/11/23	10/11/23	
n-Butyl Benzene	13.0	1.00	1	10/11/23	10/11/23	
sec-Butylbenzene	5.34	1.00	1	10/11/23	10/11/23	
tert-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
Carbon Tetrachloride	ND	1.00	1	10/11/23	10/11/23	
Chlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Chloroethane	ND	2.00	1	10/11/23	10/11/23	
Chloroform	ND	5.00	1	10/11/23	10/11/23	
Chloromethane	ND	2.00	1	10/11/23	10/11/23	
2-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
4-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
Dibromochloromethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	10/11/23	10/11/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	10/11/23	10/11/23	
Dibromomethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,4-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	10/11/23	10/11/23	
1,1-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
cis-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
trans-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
2,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
cis-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
trans-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	10/11/23	10/11/23	
Ethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	10/11/23	10/11/23	
Hexachlorobutadiene	ND	5.00	1	10/11/23	10/11/23	
2-Hexanone	ND	20.0	1	10/11/23	10/11/23	
Isopropylbenzene	24.6	1.00	1	10/11/23	10/11/23	
4-Isopropyltoluene	1.58	1.00	1	10/11/23	10/11/23	
2-Butanone (MEK)	ND	20.0	1	10/11/23	10/11/23	
Methylene Chloride	ND	2.00	1	10/11/23	10/11/23	
1-Methylnaphthalene	69.1	10.0	1	10/11/23	10/11/23	
2-Methylnaphthalene	108	10.0	1	10/11/23	10/11/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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VP-5

E310030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: RKS		Batch: 2341065
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	10/11/23	10/11/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	10/11/23	10/11/23	
Naphthalene	ND	5.00	1	10/11/23	10/11/23	
n-Propyl Benzene	71.1	1.00	1	10/11/23	10/11/23	
Styrene	ND	1.00	1	10/11/23	10/11/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	10/11/23	10/11/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
Tetrachloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2,3-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,2,4-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,1,1-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
Trichloroethene	ND	1.00	1	10/11/23	10/11/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	10/11/23	10/11/23	
1,2,3-Trichloropropane	ND	2.00	1	10/11/23	10/11/23	
1,2,4-Trimethylbenzene	ND	5.00	1	10/11/23	10/11/23	
1,3,5-Trimethylbenzene	12.0	1.00	1	10/11/23	10/11/23	
Toluene	ND	1.00	1	10/11/23	10/11/23	
Vinyl chloride	ND	2.00	1	10/11/23	10/11/23	
o-Xylene	ND	1.00	1	10/11/23	10/11/23	
p,m-Xylene	ND	2.00	1	10/11/23	10/11/23	
Total Xylenes	ND	1.00	1	10/11/23	10/11/23	
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<i>Surrogate: Bromofluorobenzene</i>		<i>116 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>96.7 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	
<i>Surrogate: Toluene-d8</i>		<i>99.9 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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VP-5

E310030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/L	mg/L		Analyst: BA		Batch: 2340089
Nitrate-N	ND	0.250	1	10/05/23 14:45	10/05/23 18:04	
Sulfate	20.1	2.00	1	10/05/23	10/05/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-7

E310030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: RKS		Batch: 2341065
Acetone	ND	40.0	1	10/11/23	10/11/23	
Benzene	ND	1.00	1	10/11/23	10/11/23	
Bromobenzene	ND	1.00	1	10/11/23	10/11/23	
Bromochloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromodichloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromoform	ND	1.00	1	10/11/23	10/11/23	
Bromomethane	ND	2.00	1	10/11/23	10/11/23	
n-Butyl Benzene	2.93	1.00	1	10/11/23	10/11/23	
sec-Butylbenzene	3.15	1.00	1	10/11/23	10/11/23	
tert-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
Carbon Tetrachloride	ND	1.00	1	10/11/23	10/11/23	
Chlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Chloroethane	ND	2.00	1	10/11/23	10/11/23	
Chloroform	ND	5.00	1	10/11/23	10/11/23	
Chloromethane	ND	2.00	1	10/11/23	10/11/23	
2-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
4-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
Dibromochloromethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	10/11/23	10/11/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	10/11/23	10/11/23	
Dibromomethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,4-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	10/11/23	10/11/23	
1,1-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
cis-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
trans-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
2,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
cis-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
trans-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	10/11/23	10/11/23	
Ethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	10/11/23	10/11/23	
Hexachlorobutadiene	ND	5.00	1	10/11/23	10/11/23	
2-Hexanone	ND	20.0	1	10/11/23	10/11/23	
Isopropylbenzene	8.15	1.00	1	10/11/23	10/11/23	
4-Isopropyltoluene	ND	1.00	1	10/11/23	10/11/23	
2-Butanone (MEK)	ND	20.0	1	10/11/23	10/11/23	
Methylene Chloride	ND	2.00	1	10/11/23	10/11/23	
1-Methylnaphthalene	ND	10.0	1	10/11/23	10/11/23	
2-Methylnaphthalene	ND	10.0	1	10/11/23	10/11/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-7

E310030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: RKS		Batch: 2341065
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	10/11/23	10/11/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	10/11/23	10/11/23	
Naphthalene	9.45	5.00	1	10/11/23	10/11/23	
n-Propyl Benzene	11.7	1.00	1	10/11/23	10/11/23	
Styrene	ND	1.00	1	10/11/23	10/11/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	10/11/23	10/11/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
Tetrachloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2,3-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,2,4-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,1,1-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
Trichloroethene	ND	1.00	1	10/11/23	10/11/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	10/11/23	10/11/23	
1,2,3-Trichloropropane	ND	2.00	1	10/11/23	10/11/23	
1,2,4-Trimethylbenzene	ND	5.00	1	10/11/23	10/11/23	
1,3,5-Trimethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Toluene	ND	1.00	1	10/11/23	10/11/23	
Vinyl chloride	ND	2.00	1	10/11/23	10/11/23	
o-Xylene	ND	1.00	1	10/11/23	10/11/23	
p,m-Xylene	ND	2.00	1	10/11/23	10/11/23	
Total Xylenes	ND	1.00	1	10/11/23	10/11/23	
<i>Surrogate: Bromofluorobenzene</i>		<i>106 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>95.1 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	
<i>Surrogate: Toluene-d8</i>		<i>100 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-7

E310030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/L	mg/L		Analyst: BA		Batch: 2340089
Nitrate-N	ND	0.250	1	10/05/23 14:45	10/05/23 18:24	
Sulfate	46.7	2.00	1	10/05/23	10/05/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-8

E310030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: RKS		Batch: 2341065
Acetone	ND	40.0	1	10/11/23	10/11/23	
Benzene	ND	1.00	1	10/11/23	10/11/23	
Bromobenzene	ND	1.00	1	10/11/23	10/11/23	
Bromochloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromodichloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromoform	ND	1.00	1	10/11/23	10/11/23	
Bromomethane	ND	2.00	1	10/11/23	10/11/23	
n-Butyl Benzene	3.86	1.00	1	10/11/23	10/11/23	
sec-Butylbenzene	2.60	1.00	1	10/11/23	10/11/23	
tert-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
Carbon Tetrachloride	ND	1.00	1	10/11/23	10/11/23	
Chlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Chloroethane	ND	2.00	1	10/11/23	10/11/23	
Chloroform	ND	5.00	1	10/11/23	10/11/23	
Chloromethane	ND	2.00	1	10/11/23	10/11/23	
2-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
4-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
Dibromochloromethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	10/11/23	10/11/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	10/11/23	10/11/23	
Dibromomethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,4-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	10/11/23	10/11/23	
1,1-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
cis-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
trans-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
2,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
cis-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
trans-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	10/11/23	10/11/23	
Ethylbenzene	6.56	1.00	1	10/11/23	10/11/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	10/11/23	10/11/23	
Hexachlorobutadiene	ND	5.00	1	10/11/23	10/11/23	
2-Hexanone	ND	20.0	1	10/11/23	10/11/23	
Isopropylbenzene	10.7	1.00	1	10/11/23	10/11/23	
4-Isopropyltoluene	ND	1.00	1	10/11/23	10/11/23	
2-Butanone (MEK)	ND	20.0	1	10/11/23	10/11/23	
Methylene Chloride	ND	2.00	1	10/11/23	10/11/23	
1-Methylnaphthalene	13.6	10.0	1	10/11/23	10/11/23	
2-Methylnaphthalene	18.9	10.0	1	10/11/23	10/11/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-8

E310030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: RKS		Batch: 2341065
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	10/11/23	10/11/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	10/11/23	10/11/23	
Naphthalene	14.2	5.00	1	10/11/23	10/11/23	
n-Propyl Benzene	17.0	1.00	1	10/11/23	10/11/23	
Styrene	ND	1.00	1	10/11/23	10/11/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	10/11/23	10/11/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
Tetrachloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2,3-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,2,4-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,1,1-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
Trichloroethene	ND	1.00	1	10/11/23	10/11/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	10/11/23	10/11/23	
1,2,3-Trichloropropane	ND	2.00	1	10/11/23	10/11/23	
1,2,4-Trimethylbenzene	ND	5.00	1	10/11/23	10/11/23	
1,3,5-Trimethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Toluene	ND	1.00	1	10/11/23	10/11/23	
Vinyl chloride	ND	2.00	1	10/11/23	10/11/23	
o-Xylene	ND	1.00	1	10/11/23	10/11/23	
p,m-Xylene	ND	2.00	1	10/11/23	10/11/23	
Total Xylenes	ND	1.00	1	10/11/23	10/11/23	
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<i>Surrogate: Bromofluorobenzene</i>		<i>119 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>96.9 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	
<i>Surrogate: Toluene-d8</i>		<i>101 %</i>	<i>70-130</i>	<i>10/11/23</i>	<i>10/11/23</i>	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-8

E310030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/L	mg/L		Analyst: BA		Batch: 2340089
Nitrate-N	0.633	0.250	1	10/05/23 14:45	10/05/23 18:44	
Sulfate	39.0	2.00	1	10/05/23	10/05/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-9

E310030-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: RKS		Batch: 2341065
Acetone	ND	40.0	1	10/11/23	10/11/23	
Benzene	3.56	1.00	1	10/11/23	10/11/23	
Bromobenzene	ND	1.00	1	10/11/23	10/11/23	
Bromochloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromodichloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromoform	ND	1.00	1	10/11/23	10/11/23	
Bromomethane	ND	2.00	1	10/11/23	10/11/23	
n-Butyl Benzene	ND	1.00	1	10/11/23	10/11/23	
sec-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
tert-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
Carbon Tetrachloride	ND	1.00	1	10/11/23	10/11/23	
Chlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Chloroethane	ND	2.00	1	10/11/23	10/11/23	
Chloroform	ND	5.00	1	10/11/23	10/11/23	
Chloromethane	ND	2.00	1	10/11/23	10/11/23	
2-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
4-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
Dibromochloromethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	10/11/23	10/11/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	10/11/23	10/11/23	
Dibromomethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,4-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	10/11/23	10/11/23	
1,1-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
cis-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
trans-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
2,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
cis-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
trans-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	10/11/23	10/11/23	
Ethylbenzene	8.92	1.00	1	10/11/23	10/11/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	10/11/23	10/11/23	
Hexachlorobutadiene	ND	5.00	1	10/11/23	10/11/23	
2-Hexanone	ND	20.0	1	10/11/23	10/11/23	
Isopropylbenzene	3.87	1.00	1	10/11/23	10/11/23	
4-Isopropyltoluene	ND	1.00	1	10/11/23	10/11/23	
2-Butanone (MEK)	ND	20.0	1	10/11/23	10/11/23	
Methylene Chloride	ND	2.00	1	10/11/23	10/11/23	
1-Methylnaphthalene	ND	10.0	1	10/11/23	10/11/23	
2-Methylnaphthalene	ND	10.0	1	10/11/23	10/11/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-9

E310030-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		ug/L	ug/L	Analyst: RKS		Batch: 2341065
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	10/11/23	10/11/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	10/11/23	10/11/23	
Naphthalene	21.4	5.00	1	10/11/23	10/11/23	
n-Propyl Benzene	8.76	1.00	1	10/11/23	10/11/23	
Styrene	ND	1.00	1	10/11/23	10/11/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	10/11/23	10/11/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
Tetrachloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2,3-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,2,4-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,1,1-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
Trichloroethene	ND	1.00	1	10/11/23	10/11/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	10/11/23	10/11/23	
1,2,3-Trichloropropane	ND	2.00	1	10/11/23	10/11/23	
1,2,4-Trimethylbenzene	ND	5.00	1	10/11/23	10/11/23	
1,3,5-Trimethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Toluene	ND	1.00	1	10/11/23	10/11/23	
Vinyl chloride	ND	2.00	1	10/11/23	10/11/23	
o-Xylene	ND	1.00	1	10/11/23	10/11/23	
p,m-Xylene	9.52	2.00	1	10/11/23	10/11/23	
Total Xylenes	9.52	1.00	1	10/11/23	10/11/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	10/11/23	10/11/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	10/11/23	10/11/23	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	10/11/23	10/11/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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MW-9

E310030-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/L	mg/L		Analyst: BA		Batch: 2340089
Nitrate-N	ND	0.250	1	10/05/23 14:45	10/05/23 19:04	
Sulfate	73.7	2.00	1	10/05/23	10/05/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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E310030-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: RKS		Batch: 2341065
Acetone	ND	40.0	1	10/11/23	10/11/23	
Benzene	ND	1.00	1	10/11/23	10/11/23	
Bromobenzene	ND	1.00	1	10/11/23	10/11/23	
Bromochloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromodichloromethane	ND	1.00	1	10/11/23	10/11/23	
Bromoform	ND	1.00	1	10/11/23	10/11/23	
Bromomethane	ND	2.00	1	10/11/23	10/11/23	
n-Butyl Benzene	ND	1.00	1	10/11/23	10/11/23	
sec-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
tert-Butylbenzene	ND	1.00	1	10/11/23	10/11/23	
Carbon Tetrachloride	ND	1.00	1	10/11/23	10/11/23	
Chlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Chloroethane	ND	2.00	1	10/11/23	10/11/23	
Chloroform	ND	5.00	1	10/11/23	10/11/23	
Chloromethane	ND	2.00	1	10/11/23	10/11/23	
2-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
4-Chlorotoluene	ND	1.00	1	10/11/23	10/11/23	
Dibromochloromethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	1	10/11/23	10/11/23	
1,2-Dibromoethane (EDB)	ND	2.00	1	10/11/23	10/11/23	
Dibromomethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
1,4-Dichlorobenzene	ND	1.00	1	10/11/23	10/11/23	
Dichlorodifluoromethane (Freon-12)	ND	2.00	1	10/11/23	10/11/23	
1,1-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
cis-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
trans-1,2-Dichloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,3-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
2,2-Dichloropropane	ND	1.00	1	10/11/23	10/11/23	
1,1-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
cis-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
trans-1,3-Dichloropropene	ND	1.00	1	10/11/23	10/11/23	
Diisopropyl Ether (DIPE)	ND	1.00	1	10/11/23	10/11/23	
Ethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	1	10/11/23	10/11/23	
Hexachlorobutadiene	ND	5.00	1	10/11/23	10/11/23	
2-Hexanone	ND	20.0	1	10/11/23	10/11/23	
Isopropylbenzene	ND	1.00	1	10/11/23	10/11/23	
4-Isopropyltoluene	ND	1.00	1	10/11/23	10/11/23	
2-Butanone (MEK)	ND	20.0	1	10/11/23	10/11/23	
Methylene Chloride	ND	2.00	1	10/11/23	10/11/23	
1-Methylnaphthalene	ND	10.0	1	10/11/23	10/11/23	
2-Methylnaphthalene	ND	10.0	1	10/11/23	10/11/23	



Sample Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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E310030-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ug/L	ug/L		Analyst: RKS		Batch: 2341065
4-Methyl-2-pentanone (MIBK)	ND	20.0	1	10/11/23	10/11/23	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	1	10/11/23	10/11/23	
Naphthalene	ND	5.00	1	10/11/23	10/11/23	
n-Propyl Benzene	ND	1.00	1	10/11/23	10/11/23	
Styrene	ND	1.00	1	10/11/23	10/11/23	
tert-Amyl Methyl ether (TAME)	ND	1.00	1	10/11/23	10/11/23	
1,1,1,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2,2-Tetrachloroethane	ND	1.00	1	10/11/23	10/11/23	
Tetrachloroethene	ND	1.00	1	10/11/23	10/11/23	
1,2,3-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,2,4-Trichlorobenzene	ND	5.00	1	10/11/23	10/11/23	
1,1,1-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
1,1,2-Trichloroethane	ND	1.00	1	10/11/23	10/11/23	
Trichloroethene	ND	1.00	1	10/11/23	10/11/23	
Trichlorofluoromethane (Freon-11)	ND	2.00	1	10/11/23	10/11/23	
1,2,3-Trichloropropane	ND	2.00	1	10/11/23	10/11/23	
1,2,4-Trimethylbenzene	ND	5.00	1	10/11/23	10/11/23	
1,3,5-Trimethylbenzene	ND	1.00	1	10/11/23	10/11/23	
Toluene	ND	1.00	1	10/11/23	10/11/23	
Vinyl chloride	ND	2.00	1	10/11/23	10/11/23	
o-Xylene	ND	1.00	1	10/11/23	10/11/23	
p,m-Xylene	ND	2.00	1	10/11/23	10/11/23	
Total Xylenes	ND	1.00	1	10/11/23	10/11/23	
<hr/>						
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	10/11/23	10/11/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	10/11/23	10/11/23	
<i>Surrogate: Toluene-d8</i>		97.0 %	70-130	10/11/23	10/11/23	



QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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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 (2341065-BLK1)

Prepared: 10/11/23 Analyzed: 10/11/23

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: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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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 (2341065-BLK1)

Prepared: 10/11/23 Analyzed: 10/11/23

1,3,5-Trimethylbenzene	ND	1.00							
Toluene	ND	1.00							
Vinyl chloride	ND	2.00							
o-Xylene	ND	1.00							
p,m-Xylene	ND	2.00							
Total Xylenes	ND	1.00							
<i>Surrogate: Bromofluorobenzene</i>	10.0		10.0		100	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.1		10.0		101	70-130			
<i>Surrogate: Toluene-d8</i>	9.52		10.0		95.2	70-130			

LCS (2341065-BS1)

Prepared: 10/11/23 Analyzed: 10/11/23

Acetone	76.2	40.0	100		76.2	20-185			
Benzene	49.8	1.00	50.0		99.5	70-130			
Bromoform	41.3	1.00	50.0		82.6	70-131			
Bromomethane	27.4	2.00	50.0		54.8	22-187			
sec-Butylbenzene	49.6	1.00	50.0		99.2	70-130			
Carbon Tetrachloride	45.0	1.00	50.0		90.0	70-130			
Chlorobenzene	49.8	1.00	50.0		99.5	70-130			
2-Chlorotoluene	49.4	1.00	50.0		98.8	70-130			
Dibromochloromethane	44.7	1.00	50.0		89.4	70-130			
1,2-Dichlorobenzene	46.9	1.00	50.0		93.8	70-130			
Dichlorodifluoromethane (Freon-12)	41.5	2.00	50.0		83.0	50-180			
1,1-Dichloroethane	49.5	1.00	50.0		98.9	70-130			
1,1-Dichloroethene	45.3	1.00	50.0		90.5	80-120			
2,2-Dichloropropane	52.6	1.00	50.0		105	50-160			
cis-1,3-Dichloropropene	51.2	1.00	50.0		102	70-130			
Ethylbenzene	47.9	1.00	50.0		95.9	80-120			
Isopropylbenzene	44.4	1.00	50.0		88.8	70-130			
Methyl tert-Butyl Ether (MTBE)	87.1	1.00	100		87.1	70-130			
Naphthalene	46.9	5.00	50.0		93.8	70-140			
tert-Amyl Methyl ether (TAME)	45.9	1.00	50.0		91.8	70-130			
Trichloroethene	42.9	1.00	50.0		85.9	70-130			
Toluene	46.4	1.00	50.0		92.8	80-120			
o-Xylene	47.9	1.00	50.0		95.8	70-130			
p,m-Xylene	93.6	2.00	100		93.6	70-130			
Total Xylenes	141	1.00	150		94.3	70-130			
<i>Surrogate: Bromofluorobenzene</i>	10.1		10.0		101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.92		10.0		99.2	70-130			
<i>Surrogate: Toluene-d8</i>	9.60		10.0		96.0	70-130			

Matrix Spike (2341065-MS1)

Source: E310030-03

Prepared: 10/11/23 Analyzed: 10/11/23

Acetone	367	200	500	ND	73.3	10-190			
Benzene	242	5.00	250	ND	96.8	59-133			
Bromoform	221	5.00	250	ND	88.4	66-140			
Bromomethane	217	10.0	250	ND	86.7	17-190			
sec-Butylbenzene	262	5.00	250	ND	105	66-139			
Carbon Tetrachloride	221	5.00	250	ND	88.6	61-139			
Chlorobenzene	254	5.00	250	ND	102	70-130			
2-Chlorotoluene	255	5.00	250	ND	102	67-134			
Dibromochloromethane	231	5.00	250	ND	92.2	70-132			
1,2-Dichlorobenzene	248	5.00	250	ND	99.0	70-130			
Dichlorodifluoromethane (Freon-12)	177	10.0	250	ND	70.6	50-180			
1,1-Dichloroethane	239	5.00	250	ND	95.6	64-134			
1,1-Dichloroethene	224	5.00	250	ND	89.6	49-144			
2,2-Dichloropropane	249	5.00	250	ND	99.5	45-165			
cis-1,3-Dichloropropene	256	5.00	250	ND	102	70-130			
Ethylbenzene	244	5.00	250	ND	97.5	62-136			
Isopropylbenzene	238	5.00	250	8.15	92.0	67-136			
Methyl tert-Butyl Ether (MTBE)	433	5.00	500	ND	86.6	61-136			
Naphthalene	261	25.0	250	ND	104	60-160			
tert-Amyl Methyl ether (TAME)	227	5.00	250	ND	90.8	65-135			



QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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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 (2341065-MS1)

Source: E310030-03

Prepared: 10/11/23 Analyzed: 10/11/23

Trichloroethene	211	5.00	250	ND	84.4	49-148			
Toluene	235	5.00	250	ND	93.9	67-130			
o-Xylene	251	5.00	250	ND	100	70-130			
p,m-Xylene	487	10.0	500	ND	97.5	65-135			
Total Xylenes	738	5.00	750	ND	98.4	65-135			
<i>Surrogate: Bromofluorobenzene</i>	<i>51.6</i>		<i>50.0</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.0</i>		<i>50.0</i>		<i>97.9</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.7</i>		<i>50.0</i>		<i>99.4</i>	<i>70-130</i>			

Matrix Spike Dup (2341065-MSD1)

Source: E310030-03

Prepared: 10/11/23 Analyzed: 10/11/23

Acetone	368	200	500	ND	73.7	10-190	0.435	30	
Benzene	234	5.00	250	ND	93.7	59-133	3.21	20	
Bromoform	210	5.00	250	ND	83.9	66-140	5.27	20	
Bromomethane	211	10.0	250	ND	84.4	17-190	2.71	20	
sec-Butylbenzene	241	5.00	250	ND	96.4	66-139	8.25	20	
Carbon Tetrachloride	217	5.00	250	ND	86.6	61-139	2.19	20	
Chlorobenzene	241	5.00	250	ND	96.3	70-130	5.55	20	
2-Chlorotoluene	235	5.00	250	ND	93.9	67-134	8.33	20	
Dibromochloromethane	222	5.00	250	ND	88.7	70-132	3.85	20	
1,2-Dichlorobenzene	229	5.00	250	ND	91.5	70-130	7.90	20	
Dichlorodifluoromethane (Freon-12)	186	10.0	250	ND	74.3	50-180	5.02	20	
1,1-Dichloroethane	232	5.00	250	ND	92.7	64-134	3.06	20	
1,1-Dichloroethene	212	5.00	250	ND	84.9	49-144	5.39	20	
2,2-Dichloropropane	241	5.00	250	ND	96.5	45-165	3.12	20	
cis-1,3-Dichloropropene	244	5.00	250	ND	97.7	70-130	4.52	20	
Ethylbenzene	230	5.00	250	ND	91.8	62-136	6.06	20	
Isopropylbenzene	220	5.00	250	8.15	84.7	67-136	7.99	20	
Methyl tert-Butyl Ether (MTBE)	428	5.00	500	ND	85.6	61-136	1.21	20	
Naphthalene	245	25.0	250	ND	98.1	60-160	6.20	20	
tert-Amyl Methyl ether (TAME)	226	5.00	250	ND	90.3	65-135	0.552	20	
Trichloroethene	199	5.00	250	ND	79.5	49-148	5.96	20	
Toluene	222	5.00	250	ND	88.7	67-130	5.72	20	
o-Xylene	230	5.00	250	ND	91.9	70-130	8.66	20	
p,m-Xylene	448	10.0	500	ND	89.6	65-135	8.41	20	
Total Xylenes	678	5.00	750	ND	90.4	65-135	8.50	20	
<i>Surrogate: Bromofluorobenzene</i>	<i>51.0</i>		<i>50.0</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.7</i>		<i>50.0</i>		<i>95.4</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.6</i>		<i>50.0</i>		<i>95.1</i>	<i>70-130</i>			



QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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Wet Chem/Gravimetric by SM2540C

Analyst: KF

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

Blank (2340083-BLK1)

Prepared: 10/06/23 Analyzed: 10/06/23

Total Dissolved Solids	ND	10.0
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LCS (2340083-BS1)

Prepared: 10/06/23 Analyzed: 10/06/23

Total Dissolved Solids	117	10.0	100	117	55-134
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Duplicate (2340083-DUP1)

Source: E310023-01

Prepared: 10/06/23 Analyzed: 10/06/23

Total Dissolved Solids	414	10.0	425	2.62	5
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QC Summary Data

NMED 3400 2nd Street NW Albuquerque NM, -	Project Name: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/2023 3:46:19PM
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Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2340089-BLK1)

Prepared: 10/05/23 Analyzed: 10/05/23

Nitrate-N	ND	0.250							
Sulfate	ND	2.00							

LCS (2340089-BS1)

Prepared: 10/05/23 Analyzed: 10/06/23

Nitrate-N	2.66	0.250	2.50		106	90-110			
Sulfate	26.0	2.00	25.0		104	90-110			

LCS Dup (2340089-BSD1)

Prepared: 10/05/23 Analyzed: 10/06/23

Nitrate-N	2.67	0.250	2.50		107	90-110	0.585	20	
Sulfate	26.2	2.00	25.0		105	90-110	0.648	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: Barelas Bridge 3rd quarter GW event Project Number: 22104-0002 Project Manager: Greg Crabtree	Reported: 10/12/23 15:46
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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.



Client: NMED-PSTB Project: Barelvas Bridge 3rd quarter GW event 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# <u>E310030</u> Job Number <u>22104-0002</u>	TAT 1D 2D 3D Standard x	EPA Program 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's By 8260	Sulfate and Nitrate By 300.0	Total Dissolved Solids											Remarks
11:59	10/4/2023	A	5	VP-2	1	x	x	x											
11:30	10/4/2023	A	4	VP-5	2	x	x												
13:35	10/4/2023	A	4	MW-7	3	x	x												
12:44	10/4/2023	A	4	MW-8	4	x	x												
10:55	10/4/2023	A	4	MW-9	5	x	x												
	10/4/23	A	1	Trip Blank	6	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

Relinquished by: (Signature) <u>Austin Foutz</u>	Date <u>10/14/23</u>	Time <u>17:32</u>	Received by: (Signature) <u>Carthé Man</u>	Date <u>10-4-23</u>	Time <u>17:32</u>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

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

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: NMED	Date Received: 10/04/23 17:32	Work Order ID: E310030
Phone: (505) 372-8334	Date Logged In: 10/04/23 17:44	Logged In By: Caitlin Mars
Email: gcrabtree@envirotech-inc.com	Due Date: 10/12/23 17:00 (5 day TAT)	

Chain of Custody (COC)

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

Carrier: Austin Foutz

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

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

Comments/Resolution

Client Instruction

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

Date



envirotech Inc.