



2023 Groundwater Monitoring Report and Request for Closure

RECEIVED

By Mike Buchanan at 10:59 am, Aug 05, 2024

Property:

Masden Gas Com #1E (02/05/15)
Unit Letter C, S28 T29N R11W
San Juan County, New Mexico

New Mexico EMNRD OCD RP No. 3RP-1003
Incident ID No. nCS1507252223

Review of the 2023 Groundwater Monitoring Report and Request for Closure: Content Not Satisfactory for Closure

1. The abatement requirements have been met for eight (8) consecutive sampling events in which groundwater contamination has been demonstrated to be below the human health standards for BTEX in the WQCC of Title 20 NMAC; however, a soil sampling work plan must be submitted to address 19.15.30.9 paragraph D, "The division shall consider abatement of water contaminants measured in solid-matrix samples of the vadose zone complete after one-time sampling from compliance stations the director approves."

2. Please submit a vadose zone sampling work plan to OCD within sixty (60) days, to demonstrate groundwater abatement has been completed and is in compliance in order to address closure for the incident.

March 5, 2024

Ensolum Project No. 05A1226026

Prepared for:

Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401
Attn: Mr. Thomas Long

Prepared by:

Raneer Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	Site Description & Background.....	1
1.2	Project Objective.....	2
2.0	CLOSURE CRITERIA.....	2
3.0	GROUNDWATER MONITORING	3
3.1	Groundwater Laboratory Analytical Methods.....	4
3.2	Groundwater Flow Direction.....	4
3.3	Groundwater Data Evaluation	4
4.0	FINDINGS	5
5.0	RECOMMENDATIONS	5
6.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE.....	5
6.1	Standard of Care	5
6.2	Limitations	5
6.3	Reliance.....	6

LIST OF APPENDICES

Appendix A – Figures

Figure 1: Topographic Map
Figure 2: Site Vicinity Map
Figure 3: Site Map
Figure 4A: Groundwater Gradient Map (January 2023)
Figure 4B: Groundwater Gradient Map (April 2023)
Figure 5A: Groundwater Analytical Data Map (January 2023)
Figure 5B: Groundwater Analytical Data Map (April 2023)

Appendix B – Regulatory Correspondence

Appendix C – Tables

Table 1: Groundwater Analytical Summary
Table 2: Groundwater Elevations

Appendix D – Laboratory Data Sheets & Chain of Custody Documentation

1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has completed this report for the Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise) Masden Gas Com #1E (02/05/15) site, referred to hereinafter as the "Site". This report documents the groundwater monitoring activities conducted at the Site in January and April 2023 and requests concurrence that abatement has been completed.

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC
Site Name:	Masden Gas Com #1E (02/05/15)
NM EMNRD OCD Incident ID No.	nCS1507252223
Location:	36.70096° North, 108.00164° West Unit Letter C, Section 28, Township 29 North, Range 11 West Bloomfield, San Juan County, New Mexico
Property:	Private Land
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On February 5, 2015, a release of natural gas from the Masden Gas Com #1E pipeline was discovered. Enterprise performed pipeline repair activities and removed petroleum hydrocarbon-affected soils from the Site. During corrective action activities, groundwater was encountered at four feet below grade surface (bgs). Souder, Miller & Associates (SMA) collected five soil samples and one water sample from the pipeline repair excavation. Analytical results identified benzene, toluene, ethylbenzene, total xylenes, and total petroleum hydrocarbon (TPH) concentrations above the New Mexico EMNRD OCD closure criteria in soil and above New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQs) in groundwater (*Masden Gas Com #1E Pipeline Release and Subsurface Water Investigation Plan*, SMA, April 17, 2015).

During July 2015, SMA performed site investigation activities to evaluate the apparent impact of shallow groundwater. SMA installed and sampled five groundwater monitoring wells (MW-1 through MW-5). The resulting groundwater analytical results identified COC concentrations above WQCC GQs in monitoring wells MW-2 and MW-3 (*Groundwater Investigation Report Masden Gas Com #1E Natural Gas Pipeline Release*, SMA, August 25, 2015).

During February 2016, Apex TITAN, Inc., (Apex) conducted a groundwater monitoring event at the Site. Analytical results indicated benzene concentrations above applicable WQCC GQs in monitoring well MW-2 (*Masden Gas Com #1E Groundwater Monitoring Report (February 2016 Event)*, Apex, April 18, 2016).

During October 2016, a work plan was submitted to the New Mexico EMNRD OCD that described Enterprise's proposed plan to implement supplemental corrective action activities (groundwater removal) at monitoring well MW-2 to reduce COC concentrations in groundwater and to conduct groundwater monitoring at the Site to evaluate the pumping effectiveness (*Supplemental Corrective Action and Groundwater Monitoring Work Plan*, Apex, October 3, 2016). Since the approval of the work plan, approximately 3,000 gallons of total fluids were removed from monitoring well MW-2. During February 2019, Enterprise reassigned management of the project to Ensolum, LLC (Ensolum). In 2020, the first two quarters of groundwater pumping ended prematurely with the failure of the submersible pump. Pumping was not resumed due to planned pipeline replacement activities that might allow further remediation of the Site.

Since February 2016, a combination of quarterly and semi-annual monitoring events has been performed. Between February 2016 and February 2019 groundwater sampling events were conducted by Apex and between February 2019 and October 2022 by Ensolum. The analytical results for the groundwater samples collected from monitoring well MW-2 between 2016 and 2020 indicated that benzene concentrations were above the New Mexico WQCC GQSS. Additional information on the groundwater sampling events is provided in the *Supplemental Soil Remediation and Groundwater Monitoring Report* (Ensolum, January 18, 2021 (Revised November 10, 2021)).

During March 2020, Enterprise initiated pipeline repair activities at the Site to facilitate the replacement of a section of pipe under the road next to the well pad. During these activities Enterprise elected to attempt to remove potential residual soil impact from the 2015 release. During the excavation activities, monitoring well MW-2 was inadvertently destroyed. Approximately 236 cubic yards of soil and 460 barrels (bbls) of water were transported to the Industrial Ecosystems, Inc., (IEI) landfarm on Crouch Mesa near Aztec, New Mexico for disposal/remediation (*Supplemental Soil Remediation and Groundwater Monitoring Report*, Ensolum, January 18, 2021 (Revised November 10, 2021)).

On May 24, 2021, one soil boring was advanced at the Site utilizing a hollow stem auger drilling rig. The soil boring was then completed as a permanent monitoring well (MW-2R) to replace monitoring well MW-2 that was destroyed during 2020 pipeline replacement activities. Two soil samples were collected from the soil boring and were submitted for laboratory analysis. The soil samples did not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria (*Supplemental Soil Remediation and Groundwater Monitoring Report*, Ensolum, January 18, 2021 (Revised November 10, 2021, to include additional historical data)).

Since July 2021, quarterly groundwater monitoring events have been implemented by Ensolum. Since that time, COC concentrations have not been detected in groundwater. These results have demonstrated that the removal of residual soil impact during 2020 has mitigated the impact to groundwater at the Site. Groundwater monitoring activities performed at the Site since July 2021 are detailed in the following reports:

- 2021 4th Groundwater Monitoring Report, Ensolum, February 23, 2022
- 2022 Groundwater Monitoring Report, Ensolum, February 12, 2023

The Site location is depicted on **Figure 1 of Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, depicts the approximate locations of the monitoring wells in relation to pertinent structures and general Site boundaries, is included as **Figure 2 of Appendix A**.

1.2 Project Objective

The objective of the groundwater monitoring events was to further evaluate and monitor potential COCs in groundwater at the Site and to demonstrate compliance with the abatement standards and requirements of Subsections A, B, and D of 19.15.30.9 New Mexico Administrative Code (NMAC).

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address the activities related to oil and gas releases, the New Mexico EMNRD OCD references 19.15.29 NMAC, which establishes investigation and abatement action requirements for oil and gas release sites subject to reporting and/or corrective action. Additionally, the New Mexico EMNRD OCD

utilizes the New Mexico WQCC GQSs that are identified in 20.6.2 NMAC to evaluate groundwater conditions.

Abatement standards for groundwater at the Site include the following benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations:

New Mexico WQCC BTEX Standards for Groundwater	
Constituent ¹	Limit
Benzene	5 µg/L
Toluene	1,000 µg/L
Ethylbenzene	700 µg/L
Total Xylenes	600 µg/L

¹ – Constituent concentrations are in micrograms per liter (µg/L).

3.0 GROUNDWATER MONITORING

During this reporting period, Ensolum conducted groundwater sampling events during January 2023 and April 2023. The groundwater sampling program consisted of the collection of one groundwater sample from each of the monitoring wells at the Site. The New Mexico EMNRD OCD was notified of the sampling events although no representative was present during the sampling events. Regulatory correspondence is provided in **Appendix B**.

Ensolum's groundwater sampling program consisted of the following:

- Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquid (NAPL).
- Each designated monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, the groundwater sample was collected.
- Low-flow or low-stress sampling refers to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- During low-flow sampling, the groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are typically observed every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for at least three consecutive readings.
- Groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride (HgCl₂)), labeled, and sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico under proper chain-of-custody procedures.

3.1 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the two sampling events were analyzed for BTEX utilizing U.S. Environmental Protection Agency (EPA) SW-846 Method 8021.

A summary of the analytes, sample matrix, sample frequency and U.S. EPA-approved analytical methods are presented in the following table.

Analyte	Sample Type	No. of Samples	Method
BTEX	Groundwater	10	SW-846 8021

The laboratory analytical results are summarized in **Table 1** in **Appendix C**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix D**.

3.2 Groundwater Flow Direction

The groundwater flow direction at the Site generally trends toward the southwest. The calculated gradient during the 2023 monitoring events varied from approximately 0.0012 feet per foot (ft/ft) to 0.003 ft/ft across the Site. Groundwater elevation data collected during the 2023 gauging events are presented in **Table 2 (Appendix C)**. Groundwater gradient maps for the 2023 gauging events are included as **Figure 4A** and **4B (Appendix A)**.

3.3 Groundwater Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with groundwater samples collected from the monitoring wells during the 2023 groundwater sampling events to the New Mexico WQCC GQSs. The results of the analyses are summarized in **Table 1 of Appendix C**. Groundwater analytical data maps are provided as **Figures 5A** and **5B of Appendix A**.

- The January and April 2023 analytical results for all sampled monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 5 µg/L.
- The January and April 2023 analytical results for all sampled monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 1,000 µg/L.
- The January and April 2023 analytical results for all sampled monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 700 µg/L.
- The January and April 2023 analytical results for all sampled monitoring wells do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 µg/L.
- No data qualifier flags are associated with the January and April 2023 analytical results.

4.0 FINDINGS

Based on the evaluation of the analytical results from the groundwater monitoring activities, Ensolum presents the following findings:

- The groundwater flow direction at the Site is generally towards the southwest, with a gradient that varied from 0.0012 ft/ft to 0.003 ft/ft across the Site.
- The January and April 2023 groundwater samples did not exhibit COC concentrations above the applicable WQCC GQSs.

5.0 RECOMMENDATIONS

Based on the results of the groundwater monitoring activities, Ensolum has the following recommendations:

- Submit the report to the New Mexico EMNRD OCD for the director's approval pursuant to Subsections A and E of 19.15.30.16 NMAC.
- Pursuant to Subsection D of 19.15.30.9 NMAC, request director approval for concurrence of completion of abatement of water contaminants based on eight consecutive groundwater sampling events demonstrating no residual impact to groundwater above groundwater quality standards.
- Pursuant to Paragraph (7) of Subsection A of 19.15.30.12 request that an abatement plan not be required based on the demonstration that the standards of Subsections A, B, and D of 19.15.30.9 have been met.
- Request approval to plug and abandon the groundwater monitoring wells.

6.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

6.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

6.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work, and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

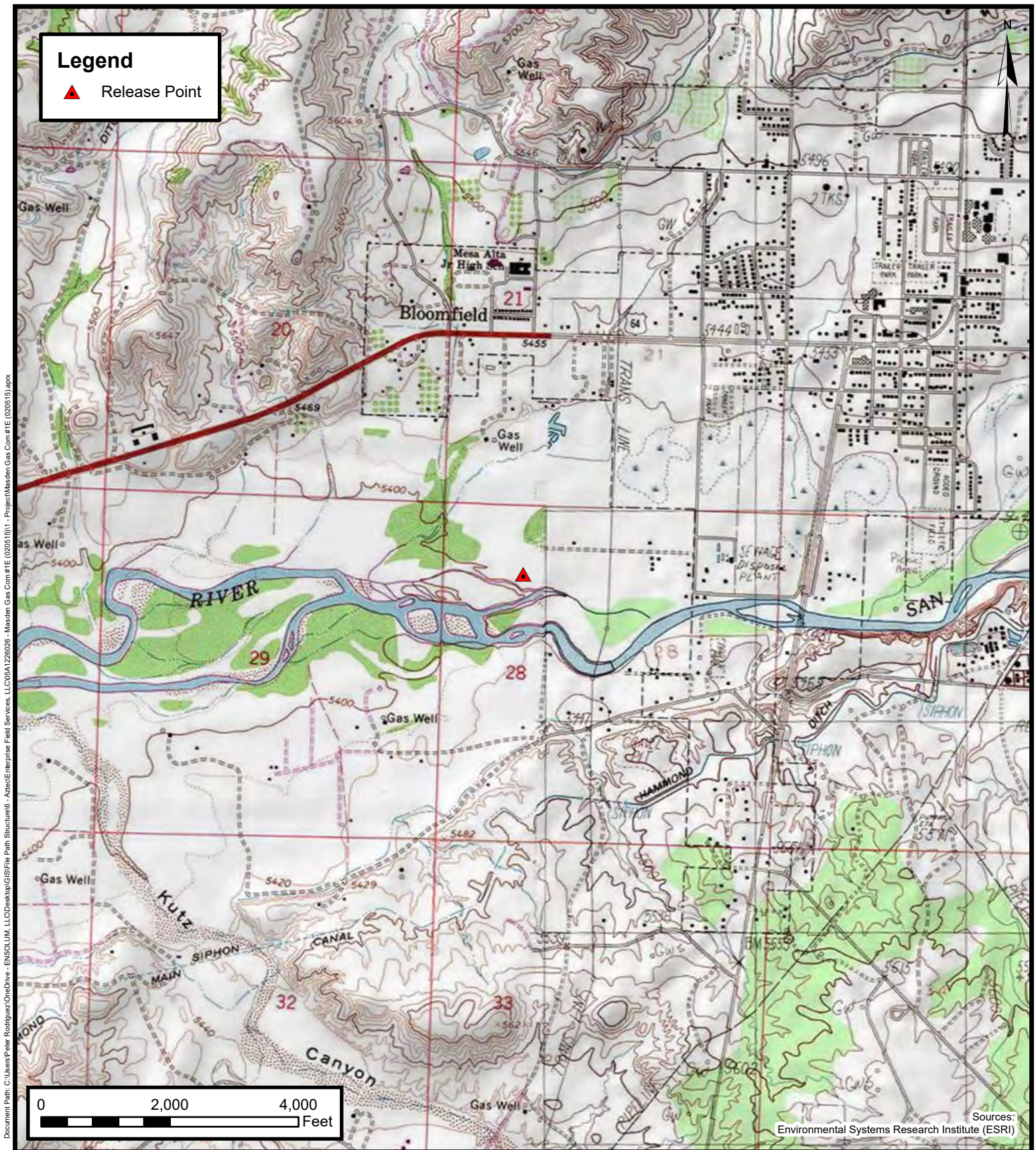
6.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures



Topographic Map

Enterprise Field Services, LLC
Masden Gas Com #1E (02/05/15)
Project Number: 05A1226026

Unit Letter C, S28 T29N R11W, San Juan County, New Mexico
36.70096, -108.00164

FIGURE

1



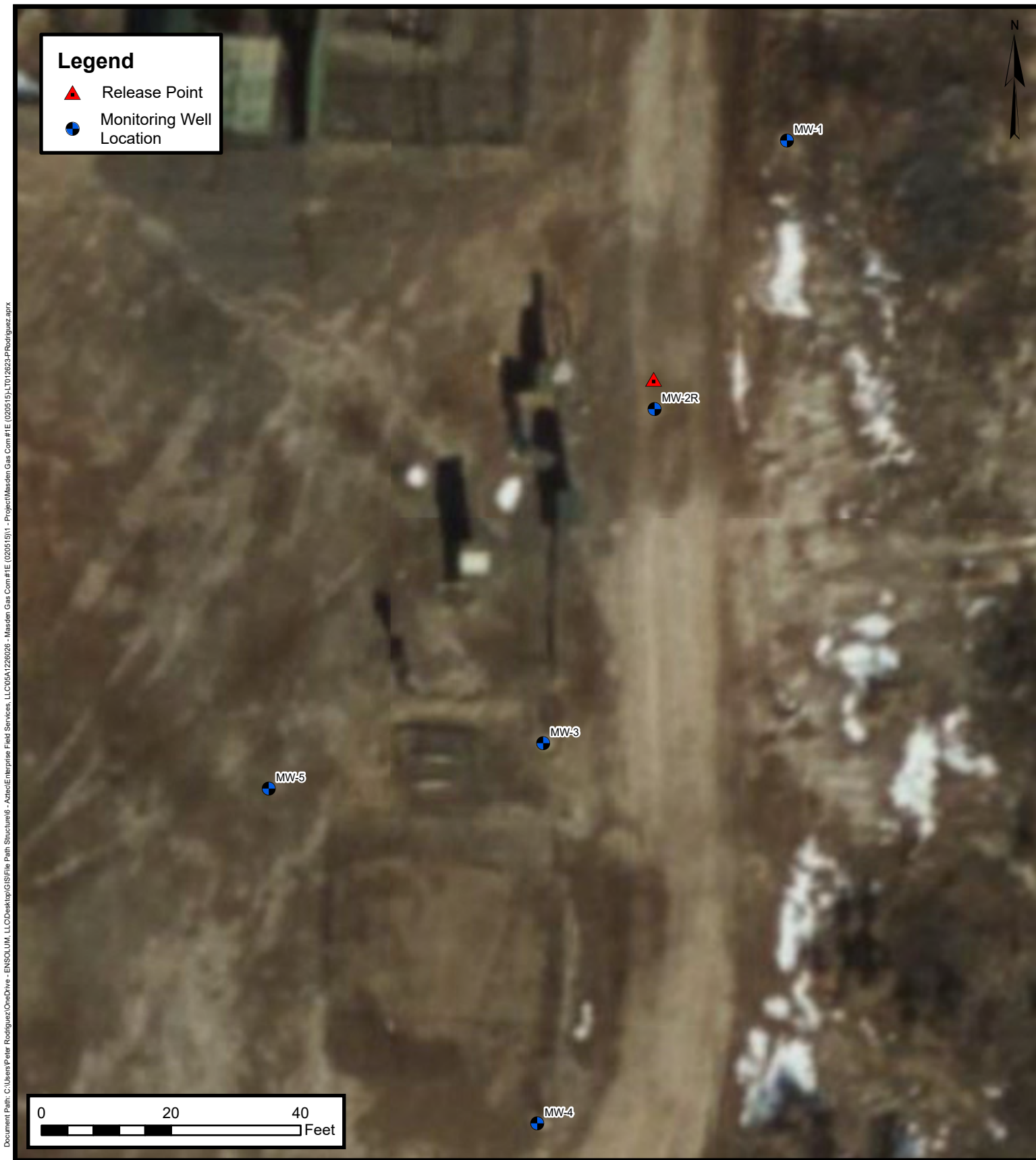
Site Vicinity Map

Enterprise Field Services, LLC
Masden Gas Com #1E (02/05/15)
Project Number: 05A1226026

Unit Letter C, S28 T29N R11W, San Juan County, New Mexico
36.70096, -108.00164

FIGURE

2



Site Map





Enterprise Field Services, LLC
Masden Gas Com #1E (02/05/15)
Project Number: 05A1226026

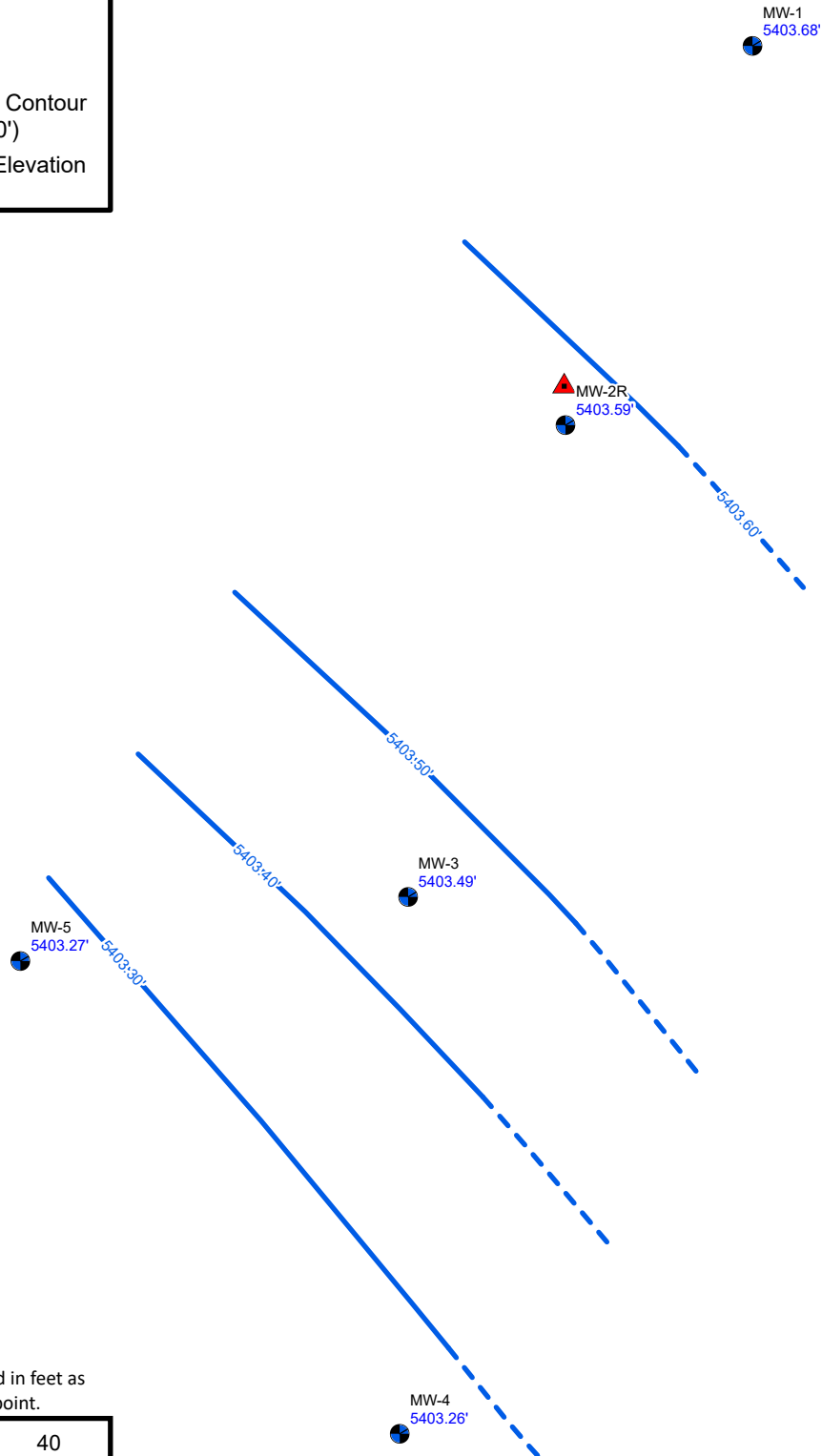
Unit Letter C, S28 T29N R11W, San Juan County, New Mexico
36.70096, -108.00164

FIGURE
3

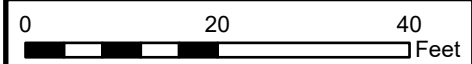
Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM.LLC\Desktop\GIS\Map\Structure6 - Article\Enterprise Field Services, LLC\05A1226026 - Masden Gas Com #1E (02/05/15)\T012623-P.Rodriguez.aprx

Legend

-  Release Point
-  Monitoring Well Location
-  Groundwater Elevation Contour (Contour Interval = 0.10')
-  Inferred Groundwater Elevation Contour



NOTES:
Groundwater elevations in **blue** are listed in feet as measured at set OPUS adjusted control point.



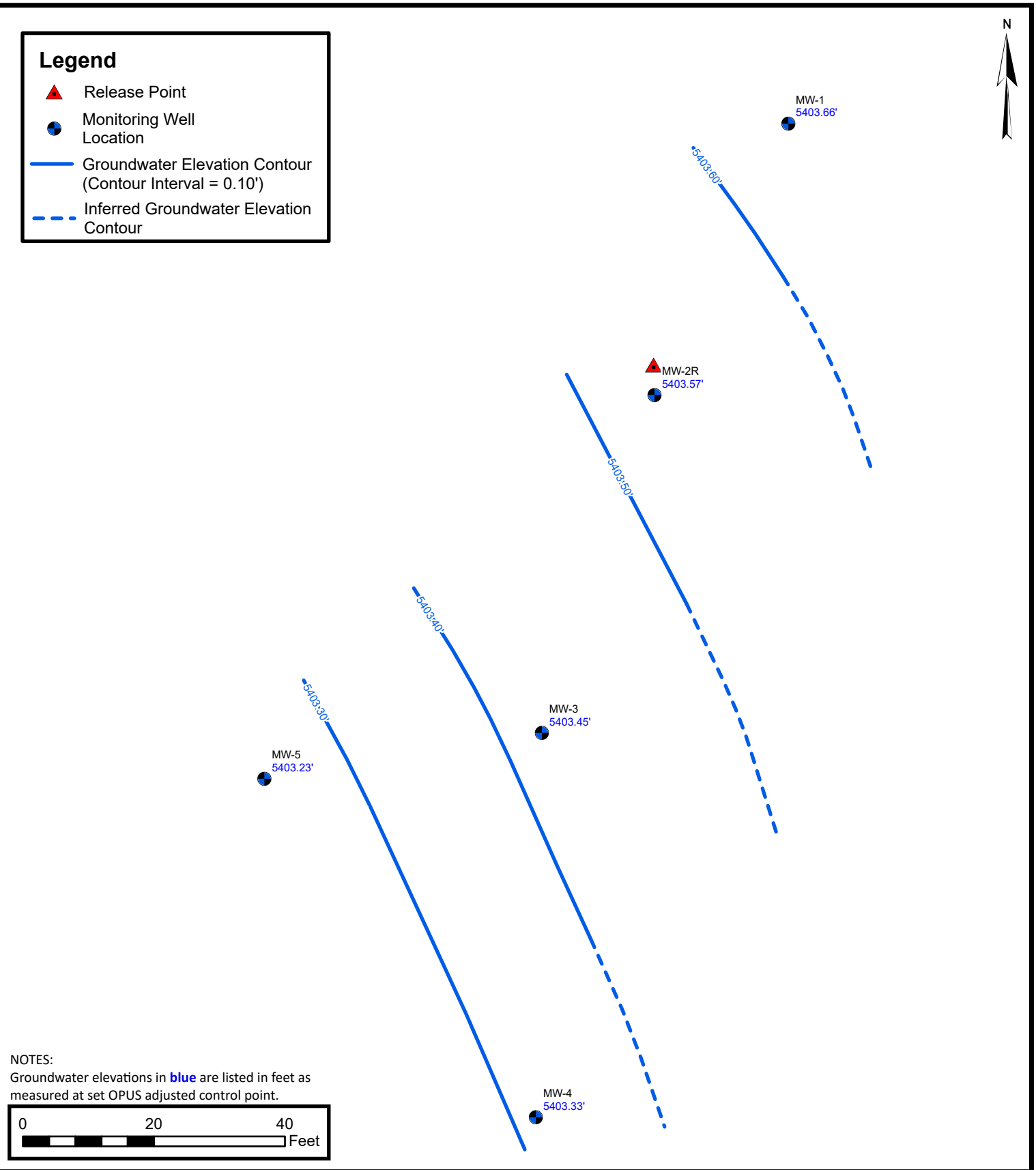
Groundwater Gradient Map (January 2023)

Enterprise Field Services, LLC
Masden Gas Com #1E (02/05/15)
Project Number: 05A1226026

Unit Letter C, S28 T29N R11W, San Juan County, New Mexico
36.70096, -108.00164

**FIGURE
4A**

Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM.LLC\Desktop\GIS\Map Structure\6 - Aerial\Enterprise Field Services, LLC\05A1226026 - Masden Gas Com #1E (02/05/15)\T012623-P.Rodriguez.aprx

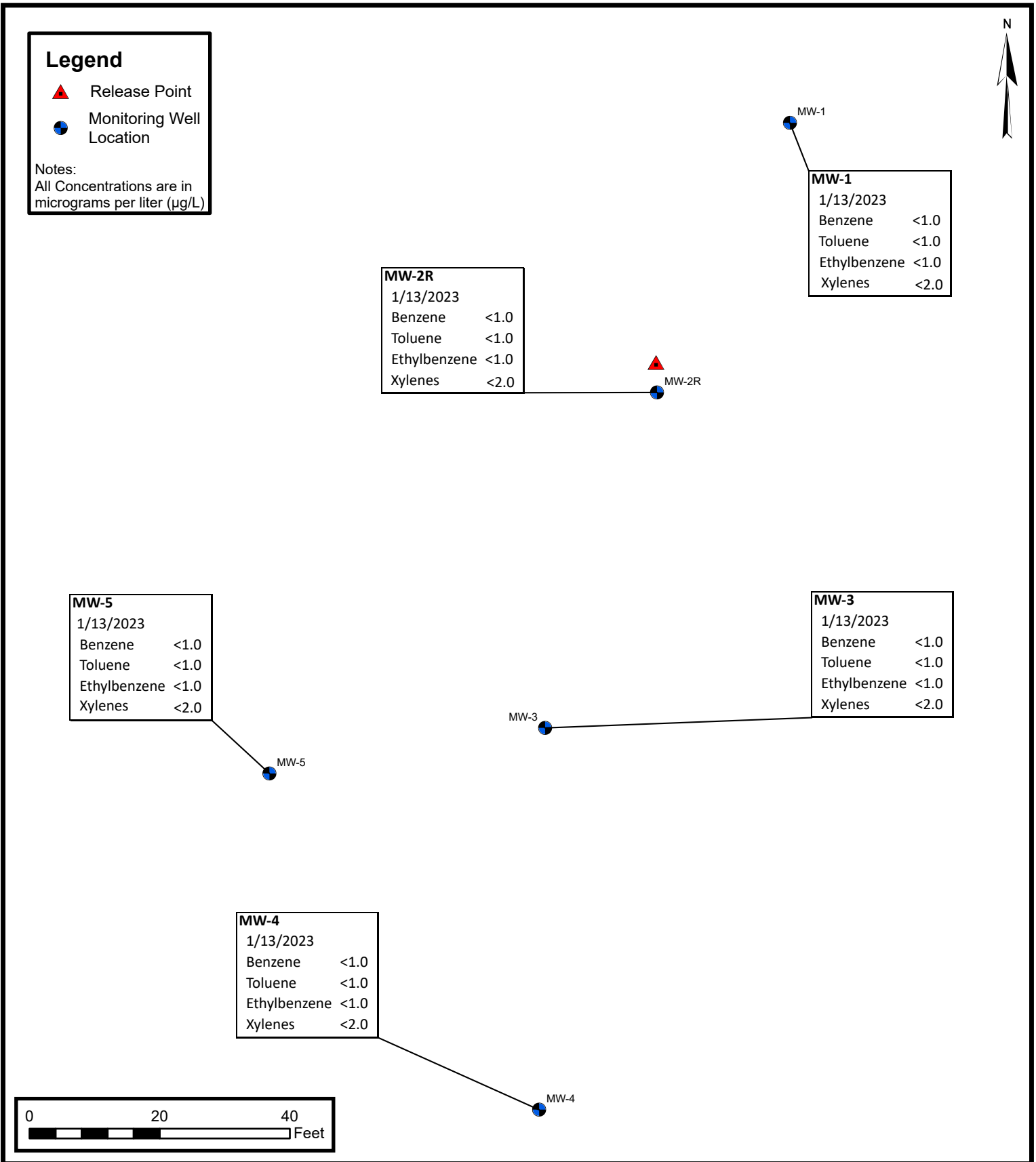


Groundwater Gradient Map (April 2023)

Enterprise Field Services, LLC
Masden Gas Com #1E (02/05/15)
Project Number: 05A1226026

Unit Letter C, S28 T29N R11W, San Juan County, New Mexico
36.70096, -108.00164

**FIGURE
4B**



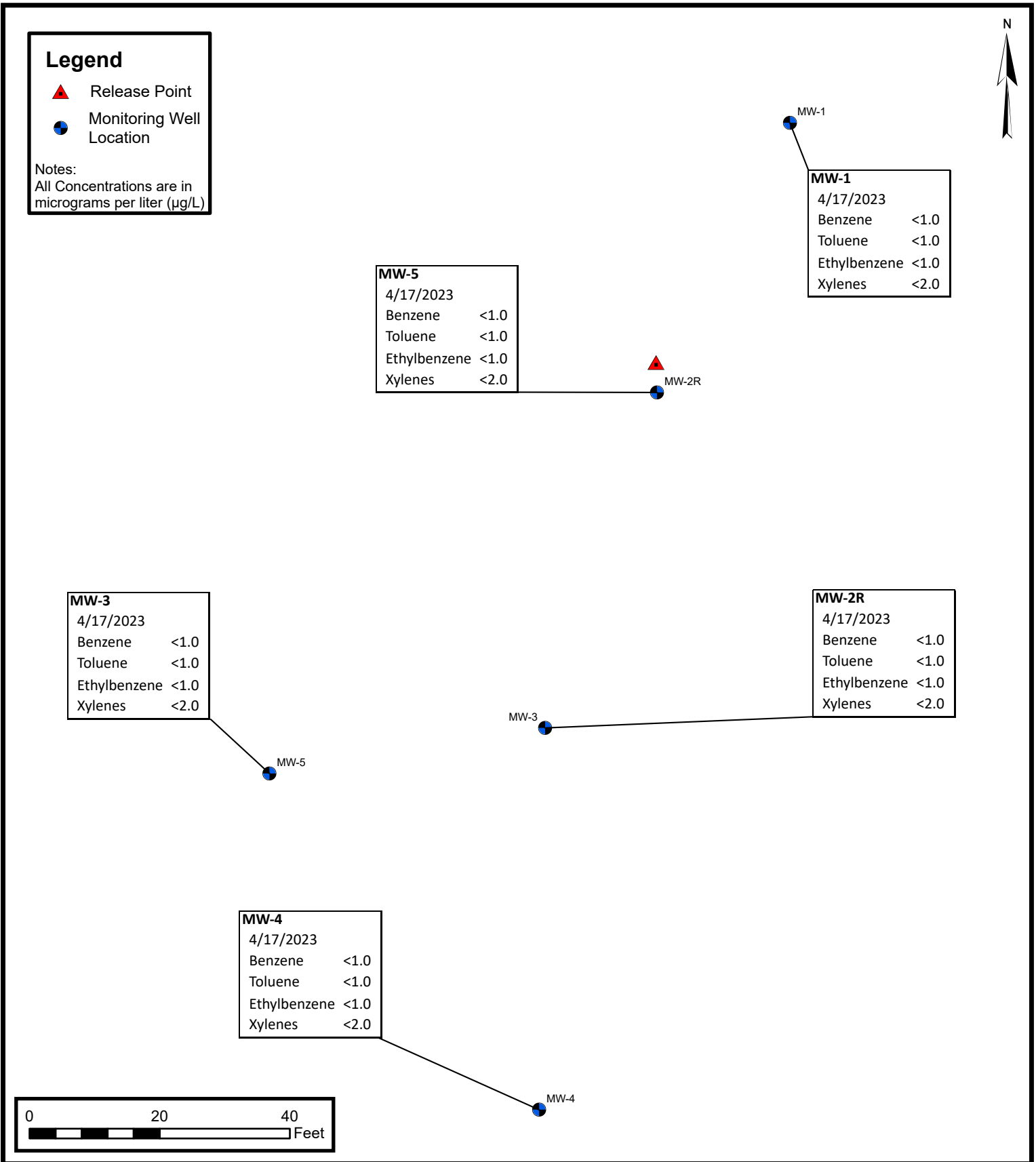
Groundwater Analytical Data Map (January 2023)

Enterprise Field Services, LLC
Masden Gas Com #1E (02/05/15)
Project Number: 05A1226026

Unit Letter C, S28 T29N R11W, San Juan County, New Mexico
36.70096, -108.00164

FIGURE
5A





Groundwater Analytical Data Map (April 2023)

Enterprise Field Services, LLC
Masden Gas Com #1E (02/05/15)
Project Number: 05A1226026

Unit Letter C, S28 T29N R11W, San Juan County, New Mexico
36.70096, -108.00164

**FIGURE
5B**





APPENDIX B

Regulatory Correspondence

From: [Long, Thomas](#)
To: ["Velez, Nelson, EMNRD"](#)
Cc: [Stone, Brian](#); ["Kyle Summers"](#)
Subject: FW: [EXTERNAL] FW: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080, -108.0013; San Juan County, NM
Date: Thursday, April 13, 2023 2:10:00 PM

Nelson,

This email is a notification that Enterprise will be performing groundwater monitoring/sampling activities at the Masden GC #1E Release Site on Monday, April 17, 2023. Groundwater monitoring/sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, January 10, 2023 11:20 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] FW: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080, -108.0013; San Juan County, NM

[Use caution with links/attachments]

Tom,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
<http://www.emnrd.state.nm.us/OCD/>



From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, January 10, 2023 10:50 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] FW: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080, -108.0013; San Juan County, NM

Nelson,

This email is a notification that Enterprise will be performing groundwater monitoring/sampling activities at the Masden GC #1E Release Site on Friday January 13, 2023. Groundwater monitoring/sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



From: Long, Thomas
Sent: Wednesday, October 12, 2022 10:29 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>

Subject: RE: [EXTERNAL] FW: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080, -108.0013; San Juan County, NM

Nelson,

This email is a notification that Enterprise will be performing groundwater monitoring/sampling activities at the Masden GC #1E Release Site on Wednesday October 19, 2022. Groundwater monitoring/sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Tuesday, July 19, 2022 10:06 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] FW: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080, -108.0013; San Juan County, NM

[Use caution with links/attachments]

Tom,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, notifications for sampling or drilling event(s), and request for time extension(s) or variance(s).

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, July 19, 2022 9:45 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: [EXTERNAL] FW: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080, -108.0013; San Juan County, NM

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

This email is a notification that Enterprise will be performing groundwater monitoring/sampling activities at the Masden GC #1E Release Site on Friday July, 22, 2022. Groundwater monitoring/sampling activities are anticipated to take one day. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



From: Long, Thomas
Sent: Wednesday, April 27, 2022 8:12 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080,

-108.0013; San Juan County, NM

Nelson,

This email is to notify you that Enterprise has scheduled groundwater monitoring activities at the at the Masden GC #1E for Friday April 29, 2022. We had to postpone a week because of personnel scheduling conflicts. Sampling activities are anticipated to take one day. If you have any questions, please call or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



From: Long, Thomas
Sent: Wednesday, April 20, 2022 11:03 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080, -108.0013; San Juan County, NM

Nelson,

This email is to notify you that Enterprise has scheduled groundwater monitoring activities at the at the Masden GC #1E for Friday April 22, 2022. Sampling activities are anticipated to take one day. If you have any questions, please call or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401

505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



APPENDIX C

Tables



TABLE 1 Masden Gas Com #1E (02/05/15) GROUNDWATER ANALYTICAL SUMMARY						
Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Chloride (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		5	1,000	720	620	NE
MW-1	7.10.15	<1.0	<1.0	<1.0	<1.5	210
	2.26.16	<1.0	<1.0	<1.0	<2.0	NA
	11.04.16	<1.0	<1.0	<1.0	<2.0	NA
	2.09.17	<1.0	<1.0	<1.0	<1.5	NA
	7.19.17	<1.0	<1.0	<1.0	<2.0	NA
	11.01.17	<1.0	<1.0	<1.0	<2.0	NA
	1.19.18	<1.0	<1.0	<1.0	<2.0	NA
	4.27.18	<1.0	<1.0	<1.0	<1.5	NA
	7.05.18	<1.0	<1.0	<1.0	<1.5	NA
	10.16.18	<1.0	<1.0	<1.0	<2.0	NA
	1.22.19	<1.0	<1.0	<1.0	<1.5	NA
	8.5.19	<1.0	<1.0	<1.0	<2.0	NA
	1.24.20	<1.0	<1.0	<1.0	<1.5	NA
	9.09.20	<1.0	<1.0	<1.0	<1.5	NA
	1.18.21	<1.0	<1.0	<1.0	<2.0	NA
	7.14.21	<1.0	<1.0	<1.0	<2.0	NA
	10.27.21	<1.0	<1.0	<1.0	<2.0	NA
	1.12.22	<1.0	<1.0	<1.0	<2.0	NA
	4.29.22	<1.0	<1.0	<1.0	<1.5	NA
	7.22.22	<1.0	<1.0	<1.0	<1.5	NA
	10.19.22	<1.0	<1.0	<1.0	<1.5	NA
	1.13.23	<1.0	<1.0	<1.0	<2.0	NA
	4.17.23	<1.0	<1.0	<1.0	<2.0	NA
MW-2	7.10.15	790	1,300	100	880	210
	2.26.16	640	35	55	470	NA
	11.04.16	160	<5.0	<5.0	52	NA
	2.09.17	260	<1.0	19	96	NA
	7.19.17	44	<1.0	5.2	4.7	NA
	11.01.17	81	<1.0	8.0	4.7	NA
	1.19.18	21	<1.0	2.5	<2.0	NA
	4.27.18	60	<1.0	13	24	NA
	7.05.18	330	4.3	27	70	NA
	10.16.18	66	<1.0	8.3	20	NA
	1.22.19	600	51	57	250	NA
	8.5.19	150	<1.0	16	28	NA
	1.24.20	830	21	28	96	NA
	9.09.20	Monitoring Well was Destroyed during the March 2020 Pipeline Repair.				
	1.18.21					
	7.14.21					
	10.27.21					



TABLE 1 Masden Gas Com #1E (02/05/15) GROUNDWATER ANALYTICAL SUMMARY						
Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Chloride (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		5	1,000	720	620	NE
MW-2R	7.14.21	<1.0	<1.0	1.0	<2.0	NA
	10.27.21	<1.0	<1.0	<1.0	<2.0	NA
	1.22.22	<1.0	<1.0	<1.0	<2.0	NA
	4.29.22	<1.0	<1.0	<1.0	<1.5	NA
	7.22.22	<1.0	<1.0	<1.0	<1.5	NA
	10.19.22	<1.0	<1.0	<1.0	<1.5	NA
	1.13.23	<1.0	<1.0	<1.0	<2.0	NA
	4.17.23	<1.0	<1.0	<1.0	<2.0	NA
MW-3	7.10.15	95	<5.0	<5.0	<7.5	180
	2.26.16	<1.0	<1.0	<1.0	<2.0	NA
	11.04.16	<1.0	<1.0	<1.0	<2.0	NA
	2.09.17	<1.0	<1.0	<1.0	<1.5	NA
	7.19.17	<1.0	<1.0	<1.0	<2.0	NA
	11.01.17	<1.0	<1.0	<1.0	<2.0	NA
	1.19.18	<1.0	<1.0	<1.0	<2.0	NA
	4.27.18	<1.0	<1.0	<1.0	<1.5	NA
	7.05.18	<1.0	<1.0	<1.0	<1.5	NA
	10.16.18	<1.0	<1.0	<1.0	<2.0	NA
	1.22.19	<1.0	<1.0	<1.0	<1.5	NA
	8.5.19	<1.0	<1.0	<1.0	<2.0	NA
	1.24.20	<1.0	<1.0	<1.0	<1.5	NA
	9.09.20	<1.0	<1.0	<1.0	<1.5	NA
	1.18.21	<1.0	<1.0	<1.0	<2.0	NA
	7.14.21	<1.0	<1.0	<1.0	<2.0	NA
	10.27.21	<1.0	<1.0	<1.0	<2.0	NA
	1.12.22	<1.0	<1.0	<1.0	<2.0	NA
	4.29.22	<1.0	<1.0	<1.0	<1.5	NA
	7.22.22	<1.0	<1.0	<1.0	<1.5	NA
	10.19.22	<1.0	<1.0	<1.0	<1.5	NA
	1.13.23	<1.0	<1.0	<1.0	<2.0	NA
	4.17.23	<1.0	<1.0	<1.0	<2.0	NA



TABLE 1 Masden Gas Com #1E (02/05/15) GROUNDWATER ANALYTICAL SUMMARY						
Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Chloride (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		5	1,000	720	620	NE
MW-4	7.10.15	<1.0	<1.0	<1.0	<1.5	230
	2.26.16	<1.0	<1.0	<1.0	<2.0	NA
	11.04.16	<1.0	<1.0	<1.0	<2.0	NA
	2.09.17	<1.0	<1.0	<1.0	<1.5	NA
	7.19.17	<1.0	<1.0	<1.0	<2.0	NA
	11.01.17	<1.0	<1.0	<1.0	<2.0	NA
	1.19.18	<1.0	<1.0	<1.0	<2.0	NA
	4.27.18	<1.0	<1.0	<1.0	<1.5	NA
	7.05.18	<1.0	<1.0	<1.0	<1.5	NA
	10.16.18	<1.0	<1.0	<1.0	<2.0	NA
	1.22.19	<1.0	<1.0	<1.0	<1.5	NA
	8.5.19	<1.0	<1.0	<1.0	<2.0	NA
	1.24.20	<1.0	<1.0	<1.0	<1.5	NA
	9.09.20	<1.0	<1.0	<1.0	<1.5	NA
	1.18.21	<1.0	<1.0	<1.0	<2.0	NA
	7.14.21	<1.0	<1.0	<1.0	<2.0	NA
	10.27.21	<1.0	<1.0	<1.0	<2.0	NA
	1.12.22	<1.0	<1.0	<1.0	<2.0	NA
	4.29.22	<1.0	<1.0	<1.0	<1.5	NA
	7.22.22	<1.0	<1.0	<1.0	<1.5	NA
	10.19.22	<1.0	<1.0	<1.0	<1.5	NA
	1.13.23	<1.0	<1.0	<1.0	<2.0	NA
	4.17.23	<1.0	<1.0	<1.0	<2.0	NA



TABLE 1 Masden Gas Com #1E (02/05/15) GROUNDWATER ANALYTICAL SUMMARY						
Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Chloride (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		5	1,000	720	620	NE
MW-5	7.10.15	<2.0	<2.0	<2.0	<3.0	170
	2.26.16	<1.0	<1.0	<1.0	<2.0	NA
	11.04.16	<1.0	<1.0	<1.0	<2.0	NA
	2.09.17	<1.0	<1.0	<1.0	<1.5	NA
	7.19.17	<1.0	<1.0	<1.0	<2.0	NA
	11.01.17	<1.0	<1.0	<1.0	<2.0	NA
	1.19.18	<1.0	<1.0	<1.0	<2.0	NA
	4.27.18	<1.0	<1.0	<1.0	<1.5	NA
	7.05.18	<1.0	<1.0	<1.0	<1.5	NA
	10.16.18	<1.0	<1.0	<1.0	<2.0	NA
	1.22.19	<1.0	<1.0	<1.0	<1.5	NA
	8.5.19	<1.0	<1.0	<1.0	<2.0	NA
	1.24.20	<1.0	<1.0	<1.0	<1.5	NA
	9.09.20	<1.0	<1.0	<1.0	<1.5	NA
	1.18.21	<1.0	<1.0	<1.0	<2.0	NA
	7.14.21	<1.0	<1.0	<1.0	<2.0	NA
	10.27.21	<1.0	<1.0	<1.0	<2.0	NA
	1.12.22	<1.0	<1.0	<1.0	<2.0	NA
	4.29.22	<1.0	<1.0	<1.0	<1.5	NA
	7.22.22	<1.0	<1.0	<1.0	<1.5	NA
	10.19.22	<1.0	<1.0	<1.0	<1.5	NA
	1.13.23	<1.0	<1.0	<1.0	<2.0	NA
	4.17.23	<1.0	<1.0	<1.0	<2.0	NA

Note: Concentrations in **bold** and yellow exceed the WQCC GQS.

NA = Not Analyzed

NE = Not Established

µg/L = microgram per liter

<1.0 = the numeral (in this case "1.0") identifies the laboratory PQL



TABLE 2 Masden Gas Com #1E (02/05/15) GROUNDWATER ELEVATIONS						
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	TOC Elevations (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-1	7.10.15	ND	6.68	ND	5409.52	5402.84
	2.26.16	ND	6.13	ND		5403.39
	11.04.16	ND	6.73	ND		5402.79
	2.09.17	ND	5.90	ND		5403.62
	7.19.17	ND	6.89	ND		5402.63
	11.01.17	ND	6.69	ND		5402.83
	1.19.18	ND	6.45	ND		5403.07
	4.27.18	ND	6.32	ND		5403.20
	7.05.18	ND	7.07	ND		5402.45
	10.16.18 ¹	ND	6.97	ND		5402.55
	1.22.19	ND	6.38	ND		5403.14
	8.05.19	ND	7.04	ND		5402.48
	1.24.20	ND	5.99	ND		5403.53
	9.09.20	ND	6.93	ND		5402.59
	1.18.20	ND	6.33	ND		5403.19
	7.14.21	ND	6.96	ND		5402.75
	10.27.21	ND	6.79	ND		5402.92
	1.12.22	ND	6.39	ND	5403.32	
	4.29.22	ND	6.24	ND	5403.47	
	7.22.22	ND	7.03	ND	5402.68	
	10.19.22	ND	6.80	ND	5402.91	
	1.13.23	ND	6.03	ND	5403.68	
	4.17.23	ND	6.05	ND	5403.66	
MW-2	7.10.15	ND	3.97	ND	5406.67	5402.70
	2.26.16	ND	3.31	ND		5403.36
	11.04.16	ND	3.92	ND		5402.75
	6.9.16	ND	3.24	ND		5403.43
	2.09.17	ND	3.10	ND		5403.57
	7.19.17	ND	4.06	ND		5402.61
	11.01.17	ND	3.88	ND		5402.79
	1.19.18	ND	3.64	ND		5403.03
	4.27.18	ND	3.49	ND		5403.18
	7.05.18	ND	4.24	ND		5402.43
	10.16.18	ND	4.11	ND		5402.56
	1.22.19	ND	3.56	ND		5403.11
	8.05.19	ND	4.07	ND		5402.60
	1.24.20	ND	3.05	ND		5403.62
	9.09.20	Monitoring Well was Destroyed during the March 2020 Pipeline Repair.				
	10.27.21					
	1.12.22					
	4.29.22					
	7.22.22					
	10.19.22					
1.13.23						
4.17.23						



TABLE 2 Masden Gas Com #1E (02/05/15) GROUNDWATER ELEVATIONS						
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	TOC Elevations (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-2R	7.14.21	ND	4.28	ND	5406.94	5402.66
	10.27.21	ND	4.10	ND		5402.84
	1.12.22	ND	3.71	ND		5403.23
	4.29.22	ND	3.59	ND		5403.35
	7.22.22	ND	4.53	ND		5402.41
	10.19.22	ND	4.09	ND		5402.85
	1.13.23	ND	3.35	ND		5403.59
	4.17.23	ND	3.37	ND		5403.57
MW-3	7.10.15	ND	6.89	ND	5409.45	5402.56
	2.26.16	ND	6.20	ND		5403.25
	11.04.16	ND	6.78	ND		5402.67
	2.09.17	ND	5.97	ND		5403.48
	7.19.17	ND	6.96	ND		5402.49
	11.01.17	ND	6.72	ND		5402.73
	1.19.18	ND	6.53	ND		5402.92
	4.27.18	ND	6.39	ND		5403.06
	7.05.18	ND	7.12	ND		5402.33
	10.16.18	ND	6.95	ND		5402.50
	1.22.19	ND	6.46	ND		5402.99
	8.05.19	ND	7.08	ND		5402.37
	1.24.20	ND	6.06	ND		5403.39
	9.09.20	ND	6.94	ND		5402.51
	1.18.20	ND	6.42	ND		5403.03
	7.14.21	ND	7.04	ND	5409.60	5402.56
	10.27.21	ND	6.83	ND		5402.77
	1.12.22	ND	6.46	ND		5403.14
	4.29.22	ND	7.10	ND		5402.50
	7.22.22	ND	6.37	ND		5403.23
	10.19.22	ND	6.81	ND		5402.79
	1.13.23	ND	6.11	ND		5403.49
	4.17.23	ND	6.15	ND		5403.45



TABLE 2 Masden Gas Com #1E (02/05/15) GROUNDWATER ELEVATIONS						
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	TOC Elevations (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-4	7.10.15	ND	6.71	ND	5409.21	5402.50
	2.26.16	ND	6.00	ND		5403.21
	11.04.16	ND	6.57	ND		5402.64
	2.09.17	ND	6.80	ND		5402.41
	7.19.17	ND	6.75	ND		5402.46
	11.01.17	ND	6.51	ND		5402.70
	1.19.18	ND	6.27	ND		5402.94
	4.27.18	ND	6.18	ND		5403.03
	7.05.18	ND	6.93	ND		5402.28
	10.16.18	ND	6.73	ND		5402.48
	1.22.19	ND	6.26	ND		5402.95
	8.05.19	ND	6.87	ND		5402.34
	1.24.20	ND	5.86	ND		5403.35
	9.09.20	ND	6.71	ND		5402.50
	1.18.20	ND	6.22	ND		5402.99
	7.14.21	ND	6.85	ND	5409.31	5402.36
	10.27.21	ND	6.63	ND		5402.58
	1.12.22	ND	6.28	ND		5402.93
	4.29.22	ND	6.23	ND		5402.98
	7.22.22	ND	6.92	ND		5402.29
	10.19.22	ND	6.60	ND		5402.61
	1.13.23	ND	5.95	ND		5403.26
	4.17.23	ND	5.98	ND		5403.33



TABLE 2 Masden Gas Com #1E (02/05/15) GROUNDWATER ELEVATIONS						
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	TOC Elevations (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-5	7.10.15	ND	3.28	ND	5405.75	5402.47
	2.26.16	ND	2.58	ND		5403.17
	11.04.16	ND	3.14	ND		5402.61
	2.09.17	ND	2.36	ND		5403.39
	7.19.17	ND	3.32	ND		5402.43
	11.01.17	ND	3.08	ND		5402.67
	1.19.18	ND	2.88	ND		5402.87
	4.27.18	ND	2.76	ND		5402.99
	7.05.18	ND	3.50	ND		5402.25
	10.16.18	ND	3.31	ND		5402.44
	1.22.19	ND	2.82	ND		5402.93
	8.05.19	ND	3.43	ND		5402.32
	1.24.20	ND	2.42	ND		5403.33
	9.09.20	ND	3.29	ND		5402.46
	1.18.20	ND	2.79	ND		5402.96
	7.14.21	ND	3.39	ND	5405.89	5402.36
	10.27.21	ND	3.18	ND		5402.57
	1.12.22	ND	2.83	ND		5402.92
	4.29.22	ND	2.75	ND		5403.00
	7.22.22	ND	3.46	ND		5402.29
	10.19.22	ND	3.15	ND		5402.60
	1.13.23	ND	2.48	ND		5403.27
	4.17.23	ND	2.52	ND		5403.23

¹ = Aberrant gauging data

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing



APPENDIX D

Laboratory Data Sheets & Chain of Custody Documentation



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

January 18, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Masden Gas Com 1E

OrderNo.: 2301551

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/14/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2301551

Date Reported: 1/18/2023

CLIENT: ENSOLUM Client Sample ID: MW-5
Project: Masden Gas Com 1E Collection Date: 1/13/2023 10:10:00 AM
Lab ID: 2301551-001 Matrix: AQUEOUS Received Date: 1/14/2023 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	1.0		µg/L	1	1/16/2023 7:23:51 PM	B93978
Toluene	ND	1.0		µg/L	1	1/16/2023 7:23:51 PM	B93978
Ethylbenzene	ND	1.0		µg/L	1	1/16/2023 7:23:51 PM	B93978
Xylenes, Total	ND	2.0		µg/L	1	1/16/2023 7:23:51 PM	B93978
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/16/2023 7:23:51 PM	B93978

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

CLIENT: ENSOLUM
Project: Masden Gas Com 1E
Lab ID: 2301551-002

Matrix: AQUEOUS

Client Sample ID: MW-4
Collection Date: 1/13/2023 10:45:00 AM
Received Date: 1/14/2023 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: JJP	
Benzene	ND	1.0		µg/L	1	1/16/2023 8:34:29 PM	B93978
Toluene	ND	1.0		µg/L	1	1/16/2023 8:34:29 PM	B93978
Ethylbenzene	ND	1.0		µg/L	1	1/16/2023 8:34:29 PM	B93978
Xylenes, Total	ND	2.0		µg/L	1	1/16/2023 8:34:29 PM	B93978
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	1/16/2023 8:34:29 PM	B93978

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2301551

Date Reported: 1/18/2023

CLIENT: ENSOLUM Client Sample ID: MW-3
Project: Masden Gas Com 1E Collection Date: 1/13/2023 11:15:00 AM
Lab ID: 2301551-003 Matrix: AQUEOUS Received Date: 1/14/2023 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	1.0		µg/L	1	1/16/2023 8:58:04 PM	B93978
Toluene	ND	1.0		µg/L	1	1/16/2023 8:58:04 PM	B93978
Ethylbenzene	ND	1.0		µg/L	1	1/16/2023 8:58:04 PM	B93978
Xylenes, Total	ND	2.0		µg/L	1	1/16/2023 8:58:04 PM	B93978
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	1/16/2023 8:58:04 PM	B93978

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

Analytical Report

Lab Order 2301551

Date Reported: 1/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: MW-1

Project: Masden Gas Com 1E

Collection Date: 1/13/2023 11:55:00 AM

Lab ID: 2301551-004

Matrix: AQUEOUS

Received Date: 1/14/2023 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: JJP	
Benzene	ND	1.0		µg/L	1	1/16/2023 9:21:31 PM	B93978
Toluene	ND	1.0		µg/L	1	1/16/2023 9:21:31 PM	B93978
Ethylbenzene	ND	1.0		µg/L	1	1/16/2023 9:21:31 PM	B93978
Xylenes, Total	ND	2.0		µg/L	1	1/16/2023 9:21:31 PM	B93978
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	1/16/2023 9:21:31 PM	B93978

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2301551

Date Reported: 1/18/2023

CLIENT: ENSOLUM

Client Sample ID: MW-2R

Project: Masden Gas Com 1E

Collection Date: 1/13/2023 12:25:00 PM

Lab ID: 2301551-005

Matrix: AQUEOUS

Received Date: 1/14/2023 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: JJP	
Benzene	ND	1.0		µg/L	1	1/16/2023 9:44:59 PM	B93978
Toluene	ND	1.0		µg/L	1	1/16/2023 9:44:59 PM	B93978
Ethylbenzene	ND	1.0		µg/L	1	1/16/2023 9:44:59 PM	B93978
Xylenes, Total	ND	2.0		µg/L	1	1/16/2023 9:44:59 PM	B93978
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/16/2023 9:44:59 PM	B93978

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301551
18-Jan-23

Client: ENSOLUM
Project: Masden Gas Com 1E

Sample ID: 2301551-001ams		SampType: MS			TestCode: EPA Method 8021B: Volatiles					
Client ID: MW-5		Batch ID: B93978			RunNo: 93978					
Prep Date:		Analysis Date: 1/16/2023			SeqNo: 3393249		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.1	70	130			
Toluene	19	1.0	20.00	0	93.9	70	130			
Ethylbenzene	19	1.0	20.00	0	95.4	70	130			
Xylenes, Total	58	2.0	60.00	0	96.8	70	130			
Surr: 4-Bromofluorobenzene	21		20.00		103	70	130			

Sample ID: 2301551-001amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: MW-5		Batch ID: B93978		RunNo: 93978						
Prep Date:		Analysis Date: 1/16/2023		SeqNo: 3393250		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	85.1	70	130	4.56	20	
Toluene	18	1.0	20.00	0	90.5	70	130	3.71	20	
Ethylbenzene	18	1.0	20.00	0	92.3	70	130	3.28	20	
Xylenes, Total	56	2.0	60.00	0	93.7	70	130	3.27	20	
Surr: 4-Bromofluorobenzene	20		20.00		102	70	130	0	0	

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBW	Batch ID: B93978			RunNo: 93978						
Prep Date:	Analysis Date: 1/16/2023			SeqNo: 3393328			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		97.7	70	130			

Sample ID: 100NG BTEX CCV		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW		Batch ID: B93978		RunNo: 93978						
Prep Date:		Analysis Date: 1/16/2023		SeqNo: 3393347			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.1	70	130			
Toluene	19	1.0	20.00	0	94.5	70	130			
Ethylbenzene	19	1.0	20.00	0	95.2	70	130			
Xylenes, Total	57	2.0	60.00	0	95.5	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		100	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



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

Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2301551

RcptNo: 1

Received By: Sean Livingston 1/14/2023 9:20:00 AM

Completed By: Sean Livingston 1/14/2023 9:37:00 AM

Reviewed By: *gn* 1-16-23

Sean Livingston
Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *gn* 1/16/23

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes	YOGI		



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

April 21, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Madsen GasCom 1E

OrderNo.: 2304723

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/18/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2304723
Date Reported: 4/21/2023

CLIENT: ENSOLUM Client Sample ID: MW-5
Project: Madsen GasCom 1E Collection Date: 4/17/2023 11:00:00 AM
Lab ID: 2304723-001 Matrix: AQUEOUS Received Date: 4/18/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/19/2023 2:44:00 PM	BW9613
Toluene	ND	1.0		µg/L	1	4/19/2023 2:44:00 PM	BW9613
Ethylbenzene	ND	1.0		µg/L	1	4/19/2023 2:44:00 PM	BW9613
Xylenes, Total	ND	2.0		µg/L	1	4/19/2023 2:44:00 PM	BW9613
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	4/19/2023 2:44:00 PM	BW9613

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

Analytical Report

Lab Order **2304723**

Date Reported: 4/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: MW-4

Project: Madsen GasCom 1E

Collection Date: 4/17/2023 11:30:00 AM

Lab ID: 2304723-002

Matrix: AQUEOUS

Received Date: 4/18/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/19/2023 3:05:00 PM	BW9613
Toluene	ND	1.0		µg/L	1	4/19/2023 3:05:00 PM	BW9613
Ethylbenzene	ND	1.0		µg/L	1	4/19/2023 3:05:00 PM	BW9613
Xylenes, Total	ND	2.0		µg/L	1	4/19/2023 3:05:00 PM	BW9613
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	4/19/2023 3:05:00 PM	BW9613

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2304723

Date Reported: 4/21/2023

CLIENT: ENSOLUM

Client Sample ID: MW-1

Project: Madsen GasCom 1E

Collection Date: 4/17/2023 12:15:00 PM

Lab ID: 2304723-004

Matrix: AQUEOUS

Received Date: 4/18/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/19/2023 3:48:00 PM	BW9613
Toluene	ND	1.0		µg/L	1	4/19/2023 3:48:00 PM	BW9613
Ethylbenzene	ND	1.0		µg/L	1	4/19/2023 3:48:00 PM	BW9613
Xylenes, Total	ND	2.0		µg/L	1	4/19/2023 3:48:00 PM	BW9613
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	4/19/2023 3:48:00 PM	BW9613

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2304723

21-Apr-23

Client: ENSOLUM

Project: Madsen GasCom 1E

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	Batch ID: BW96134		RunNo: 96134							
Prep Date:	Analysis Date: 4/19/2023		SeqNo: 3481478		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Ethylbenzene	22	1.0	20.00	0	108	70	130			
Xylenes, Total	65	2.0	60.00	0	108	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		96.4	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch ID: BW96134		RunNo: 96134							
Prep Date:	Analysis Date: 4/19/2023		SeqNo: 3481479		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		94.1	70	130			

Sample ID: 2304723-001ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: MW-5	Batch ID: BW96134		RunNo: 96134							
Prep Date:	Analysis Date: 4/19/2023		SeqNo: 3482567		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0.6670	97.3	70	130			
Toluene	20	1.0	20.00	0	99.7	70	130			
Ethylbenzene	20	1.0	20.00	0	100	70	130			
Xylenes, Total	60	2.0	60.00	0	100	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		98.4	70	130			

Sample ID: 2304723-001amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: MW-5	Batch ID: BW96134		RunNo: 96134							
Prep Date:	Analysis Date: 4/19/2023		SeqNo: 3482568		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0.6670	92.3	70	130	5.16	20	
Toluene	19	1.0	20.00	0	94.8	70	130	5.01	20	
Ethylbenzene	19	1.0	20.00	0	96.2	70	130	4.18	20	
Xylenes, Total	58	2.0	60.00	0	96.1	70	130	4.43	20	
Surr: 4-Bromofluorobenzene	19		20.00		95.8	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 6 of 6



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

Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2304723

RcptNo: 1

Received By: Juan Rojas 4/18/2023 1:15:00 PM

Completed By: Joseph Alderette 4/18/2023 9:43:37 AM

Reviewed By: *[Signature]* 4/18/23

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KPA* 4-18-23

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Not Present	morty		

Chain-of-Custody Record

Chain-of-Custody Record		Turn-Around Time:	
Client: Ensolum, LLC		<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Mailing Address: 6016 S. Rio Grande, Suite 104, Albuquerque, NM 87106		Project Name: Marsden Gas Com #11E	
Phone #: 505 274 10		Project #: 05A1224126	
email or Fax#: Ksummers@ensolum.com		Project Manager: K. Summers	
QA/QC Package:			
<input type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)		
Accreditation: <input type="checkbox"/> Az Compliance		Sampler: L. Daniell	
<input type="checkbox"/> NELAC	<input type="checkbox"/> Other	On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type)		# of Coolers: 1	

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/17/23	11:00	W	MW-5	140mL VOA	HgCl ₂	230 4723 001
4/17/23	11:30	W	MW-4			002
4/17/23	11:50	W	MW-3			003
4/17/23	12:15	W	MW-1			004
4/17/23	12:50	W	MW-2R			005

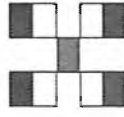
[illegible]

Received by:	Via:	Date	Time
<i>[Signature]</i>	<i>LA</i>	4/17/23	1400

Received by:	Via:	Date	Time
<i>[Signature]</i>	<i>LA</i>	4/18/23	215

Bill to Enslavem

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 320336

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	320336
Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Groundwater Monitoring Report and Request for Closure: Content Not Satisfactory for Closure 1. The abatement requirements have been met for eight (8) consecutive sampling events in which groundwater contamination has been demonstrated to be below the human health standards for BTEX in the WQCC of Title 20 NMAC; however, a soil sampling work plan must be submitted to address 19.15.30.9 paragraph D, " The division shall consider abatement of water contaminants measured in solid-matrix samples of the vadose zone complete after one-time sampling from compliance stations the director approves." 2. Please submit a vadose zone sampling work plan to OCD within sixty (60) days, to demonstrate groundwater abatement has been completed and is in compliance in order to address closure for the incident.	8/5/2024