

2023 Groundwater Monitoring Report

Property:

Lateral 2C-15 Pigging Receiver Sump (8/15/19)
Unit Letter K, Sec 27 T24N R5W
Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NCS1923947897

January 11, 2024

Ensolum Project No. 05A1226105

Prepared for:

Enterprise Field Services, LLC

614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Ranee Deechilly Project Manager Kyle Summers Senior Managing Geologist

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(January 2023)

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1.0 INTRODUCTION

This report describes the 2023 groundwater monitoring activities conducted at the Lateral 2C-15 Pigging Receiver Sump (8/15/19) site, referred to hereinafter as the "Site".

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 2C-15 Pigging Receiver Sump (8/15/19)
NM EMNRD OCD Incident ID No.	NCS1923947897
Location:	36.282835° North, 107.351995° West Unit Letter K, Section 27, Township 24 North, Range 5 West Rio Arriba County, New Mexico
Property:	Jicarilla Apache Nation
Regulatory: Jicarilla Apache Nation Environmental Protection Office (JAN-	

On August 15, 2019, natural gas condensate was released from the Enterprise Lateral 2C-15 pigging receiver sump. Excavation activities were performed at the Site during August and September 2019. Following the completion of excavation activities and off-site disposal of the removed hydrocarbon affected soils, confirmation soil samples and two groundwater samples were collected from the open excavation by Rule Engineering, LLC (Rule). In addition, four soil samples were collected from shallow potholes advanced near the adjacent ephemeral wash. Soil analytical results indicated combined total petroleum hydrocarbon (TPH) concentrations exceeding the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria on the northeast sidewall and the floor of the excavation. Groundwater analytical results indicated benzene and total xylenes concentrations exceeding the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). The excavation was backfilled with unaffected soils (Lateral 2C-15 Pigging Receiver Sump Corrective Action Report, Rule, August 8, 2020).

During December 2019, five soil borings (SB-1 through SB-5) were advanced on-Site by Rule. Subsequent to advancement, the soil borings were completed as two-inch diameter groundwater monitoring wells (MW-1 through MW-5). Analytical results indicated combined TPH concentrations above the New Mexico EMNRD OCD closure criteria for soil (SB-1 (10'-11' and 22.5'-23.5') and SB-3 (25'-26')). Additionally, analytical results indicated benzene, toluene, and total xylenes concentrations above the New Mexico WQCC GQSs in groundwater (monitoring wells MW-1, MW-3, and MW-5) (*Lateral 2C-15 Pigging Receiver Sump Corrective Action Report*, Rule, August 8, 2020).

During February 2020, Rule completed four additional soil borings/monitoring wells (SB-6/MW-6, SB-7/MW-7, SB-8/MW-8, and SB-9/MW-9) to further delineate and evaluate the extent of dissolved-phase hydrocarbon (DPH) in the groundwater and constituents of concern (COCs) in soil. Analytical results indicated combined TPH concentrations above the New Mexico EMNRD OCD closure criteria for soil (SB-7 (20.5'-21')) and benzene and total xylenes concentrations above the New Mexico WQCC GQSs in groundwater (MW-7 and MW-9) (*Lateral 2C-15 Pigging Receiver Sump Corrective Action Report*, Rule, August 8, 2020).

Enterprise transferred environmental consulting oversight to Ensolum, LLC (Ensolum) during May 2020.



Ensolum implemented quarterly groundwater monitoring in 2021. Groundwater analytical results for monitoring wells MW-3, MW-5, and MW-9 indicated benzene, toluene, and total xylenes concentrations exceeding the New Mexico Water WQCC GQSs (2021 Groundwater Monitoring Report, Ensolum, December 17, 2021).

During August and September 2022, Ensolum completed additional investigation activities at the Site to further delineate and evaluate the extent of DPH in the groundwater and COCs in soil. Seven additional soil borings (SB-10 through SB-16) were advanced and five of the borings were completed as monitoring wells MW-10 through MW-14. Analytical results indicated combined COC concentrations above the New Mexico EMNRD OCD closure criteria for soil (SB-13 (25'-27') and SB-15 (25'-27')). Groundwater analytical results for monitoring wells MW-3, MW-5, MW-9, and MW-13 indicated COC concentrations above the New Mexico WQCC GQSs (2022 Supplemental Delineation and Groundwater Monitoring Report, Ensolum, March 20, 2023).

The Site is under the jurisdiction of the Jicarilla Apache Nation and is subject to regulatory oversight by the JAN-EPO. Ensolum deferred to the 19.15.29 New Mexico Administrative Code (NMAC) and 19.15.30 NMAC, for guidance, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Additionally, Ensolum utilized the New Mexico WQCC GQSs (20.6.2 NMAC *Ground and Surface Water Protection*) to evaluate groundwater conditions.

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, is provided as **Figure 2**, and a **Site Map**, which indicates the approximate locations of the monitoring wells, the extent of the former excavation, excavation sample locations, and previous wash sample locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3** of **Appendix A**.

1.2 Project Objective

The objective of the groundwater monitoring events was to further evaluate the concentrations of COCs in groundwater at the Site.

2.0 GROUNDWATER MONITORING

During 2023, groundwater monitoring events were conducted during January, April, July, and October/November. Ensolum's groundwater sampling program consisted of the collection of one groundwater sample from each monitoring well at the Site. Regulatory correspondence is provided in **Appendix B**.

Ensolum's groundwater sampling program consisted of the following:

- Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting NAPL. During two of the 2023 (January and July) sampling events, monitoring well MW-1 exhibited a measurable thickness of NAPL and was not sampled.
- The monitoring wells were sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, one groundwater sample was collected from each monitoring well.
- 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 Eurofins Environment Testing South Central LLC (Eurofins) (formerly Hall Environmental Analysis Laboratory) of Albuquerque, New Mexico under proper chain-ofcustody procedures.

2.1 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells were analyzed for BTEX utilizing U.S. EPA Method SW-846 #8021 or #8260. 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**.

A summary of the analytes, sample type, number of samples, and the U.S. EPA-approved method is presented in the following table:

Analyte	Sample Type	No. of Samples	Method
BTEX	Water	55	SW-846 #8021/#8260

2.2 Groundwater Flow Direction

The groundwater gradient at the Site is very flat and the apparent flow direction is varied, but generally trends toward the west. The observed gradient during the 2023 monitoring events ranged from approximately 0.0006 feet per foot (ft/ft) to 0.001 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** through **4D** (**Appendix A**).

2.3 Groundwater Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory PQLs / RLs associated with the groundwater samples collected from 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 Quality Standard Exceedance Zone maps are provided as **Figures 5A** through **5D** of **Appendix A**.

January 2023

• Due to the presence of NAPL hydrocarbon in contact with groundwater of the initial groundwater-bearing unit at monitoring well MW-1 during the January event, that well was not sampled and is not part of the following discussion.



- The January 2023 analytical results for monitoring wells MW-3 and MW-9 indicate benzene concentrations of 48 micrograms per liter (μg/L) and 2,000 μg/L (MW-9), which exceed the WQCC GQS of 5 μg/L. The analytical results for monitoring well MW-5 indicates a benzene concentration of 1.7 μg/L, which is below the WQCC GQS of 5 μg/L. The analytical results for the remaining 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 2023 analytical result for monitoring well MW-9 indicates a toluene concentration of 1,800 μg/L, which exceeds the WQCC GQS of 1,000 μg/L. The analytical result for monitoring well MW-13 indicates a toluene concentration of 180 μg/L, which is below the WQCC GQS of 1,000 μg/L. The analytical results for the remaining 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 2023 analytical results for monitoring wells MW-3, MW-5, MW-9, and MW-13 indicate ethylbenzene concentrations ranging from 1.5 μg/L (MW-5) to 210 μg/L (MW-9), which are below the WQCC GQS of 700 μg/L. The analytical results for the remaining 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 2023 analytical results for monitoring wells MW-9 and MW-13 indicate total xylenes concentrations of 1,500 μg/L and 2,100 μg/L, respectively, which exceed the WQCC GQS of 620 μg/L. The analytical results for monitoring wells MW-2 and MW-5 indicate total xylenes concentrations of 2.7 μg/L and 4.4 μg/L, respectively, which are below the WQCC GQS of 620 μg/L. The analytical results for the remaining sampled monitoring wells do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μg/L.
- The following data qualifiers were associated with the January 2023 data:

January 2023 Data Qualifier Flags					
Sample IDs Data Qualifier Flags		Comments/Reactions			
MW-11 (collected 1/26/2023)	' Interterence Inc				
MW-13 (collected 1/26/2023) Sample Diluted Due to Matrix.		The sample was diluted due to matrix interference. The results are usable for the intended purpose.			
MW-14 (collected 1/26/2023)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference. The results are usable for the intended purpose.			

April 2023

- The April 2023 analytical results for monitoring wells MW-1, MW-3, MW-9, and MW-13 indicate benzene concentrations ranging from 5.6 μ g/L (MW-13) to 1,400 μ g/L (MW-9), which exceed the WQCC GQS of 5 μ g/L. The analytical results for the remaining monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 5 μ g/L.
- The April 2023 analytical results for monitoring wells MW-1, MW-9, and MW-13 indicate



toluene concentrations of 340 μ g/L, 610 μ g/L, and 89 μ g/L, respectively, which are below the WQCC GQS of 1,000 μ g/L. The analytical results for the remaining monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 1,000 μ g/L.

- The April 2023 analytical results for monitoring wells MW-2, MW-3, MW-9, and MW-13 indicate ethylbenzene concentrations ranging from 1.1 μg/L (MW-2) to 98 μg/L (MW-13), which are below the WQCC GQS of 700 μg/L. The analytical results for the remaining monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 700 μg/L.
- The April 2023 analytical result for monitoring well MW-13 indicates a total xylenes concentration of 950 μg/L, which exceeds the WQCC GQS of 620 μg/L. The analytical results for monitoring wells MW-2 and MW-9 indicate total xylenes concentrations of 2.8 μg/L and 540 μg/L, respectively, which are below the WQCC GQS of 620 μg/L. The analytical results for the remaining monitoring wells do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μg/L.
- The following data qualifier was associated with the April 2023 data:

April 2023 Data Qualifier Flag				
Sample IDs	Data Qualifier Flags	Comments/Reactions		
MW-13 (collected 4/20/2023)	SW-846 Method 8021 BTEX Surrogate Recovery was outside the accepted recovery limits.	The BTEX data is suitable for use as an estimated value. The BTEX Surrogate recovery was outside the acceptable recovery range due to matrix interference.		

July 2023

- Due to the presence of NAPL hydrocarbon in contact with groundwater of the initial groundwater-bearing unit at monitoring well MW-1 during the July event, that well was not sampled and is not part of the following discussion.
- The July 2023 analytical results for monitoring wells MW-3, MW-5, and MW-9 indicate benzene concentrations ranging from 5.1 μg/L (MW-5) to 2,100 μg/L (MW-9), which exceed the WQCC GQS of 5 μg/L. The analytical result for monitoring well MW-2 indicates a benzene concentration of 1.0 μg/L, which is below the WQCC GQS of 5 μg/L. The analytical results for the remaining sampled monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 5 μg/L.
- The July 2023 analytical results for monitoring wells MW-9 and MW-13 indicate toluene concentration of 840 μg/L and 8.8 μg/L, respectively, which are below the WQCC GQS of 1,000 μg/L. The analytical results for the remaining 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 July 2023 analytical results for monitoring wells MW-3, MW-5, MW-9, and MW-13 indicate
 ethylbenzene concentrations ranging from 7.3 μg/L (MW-3) to 200 μg/L (MW-9), which are
 below the WQCC GQS of 700 μg/L. The analytical results for the remaining sampled
 monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs,
 which are below the WQCC GQS of 700 μg/L.



- The July 2023 analytical result for monitoring well MW-9 indicates a total xylenes concentration of 1,300 μg/L, which exceeds the WQCC GQS of 620 μg/L. The analytical results for monitoring wells MW-5 and MW-13 indicate total xylenes concentrations of 18 μg/L and 410 μg/L, which are below the WQCC GQS of 620 μg/L. The analytical results for the remaining sampled monitoring wells do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μg/L.
- No data qualifier flags are associated with the July 2023 analytical results.

October/November 2023

- The October/November 2023 analytical results for monitoring wells MW-1, MW-3, and MW-9 indicate benzene concentrations ranging from 26 μg/L (MW-3) to 2,000 μg/L (MW-9), which exceed the WQCC GQS of 5 μg/L. The analytical result for monitoring well MW-5 indicates a benzene concentration of 4.9 μg/L, which is below the WQCC GQS of 5 μg/L. The analytical results for the remaining monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 5 μg/L.
- The October/November 2023 analytical result for monitoring well MW-1 indicates a toluene concentration of 2,000 μg/L, which exceeds the WQCC GQS of 1,000 μg/L. The analytical results for monitoring wells MW-9 and MW-13 indicate toluene concentrations of 620 μg/L and 5.7 μg/L, respectively, which are below the WQCC GQS of 1,000 μg/L. The analytical results for the remaining monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 1,000 μg/L.
- The October/November 2023 analytical results for monitoring wells MW-1, MW-3, MW-5, MW-9, and MW-13 indicate ethylbenzene concentrations ranging from 3.0 μg/L (MW-5) to 140 μg/L (MW-9), which are below the WQCC GQS of 700 μg/L. The analytical results for the remaining monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 700 μg/L.
- The October/November 2023 analytical results for monitoring wells MW-1 and MW-9 indicate total xylenes concentrations of 3,400 μg/L and 1,000 μg/L, respectively, which exceed the WQCC GQS of 620 μg/L. The analytical result for monitoring wells MW-2, MW-3, MW-5, and MW-13 indicates total xylenes concentrations ranging from 2.6 μg/L (MW-2) to 180 μg/L (MW-13), which are below the WQCC GQS of 620 μg/L. The analytical results for the remaining monitoring wells do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μg/L.
- No data qualifier flags are associated with the October/November 2023 analytical results.

3.0 FINDINGS

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

- During two of the four 2023 groundwater monitoring events (January and July), monitoring well MW-1 exhibited measurable NAPL in contact with the groundwater and was not sampled.
- The groundwater flow direction at the Site is generally towards the west, with a subtle approximate gradient ranging from 0.0006 ft/ft to 0.001 ft/ft across the Site.



- The analytical results for the groundwater samples collected from monitoring wells MW-1 (April and October/November), MW-3, MW-5 (July), MW-9, and MW-13 (April) during the monitoring events indicate that benzene concentrations are above the New Mexico WQCC GQSs. The analytical results for the groundwater samples collected from monitoring well MW-1 (October/November) and MW-9 (January) during the monitoring events indicate that toluene concentrations are above the New Mexico WQCC GQSs. The analytical results for the groundwater samples collected from monitoring wells MW-9 (January, July, and October/November) and MW-13 (January and April) during the monitoring events indicate total xylenes concentrations above the New Mexico WQCC GQS. The analytical results for the groundwater samples collected from the remaining monitoring wells during the four 2023 monitoring events do not indicate DPH or COC concentrations above the applicable WQCC GQSs.
- Dissolve-phase BTEX concentrations remain generally stable or declining.

4.0 RECOMMENDATIONS

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

- Report the groundwater monitoring data to the JAN-EPO and New Mexico EMNRD OCD.
- Continue quarterly groundwater monitoring as requested by the JAN-EPO.
- Perform additional site assessment activities to the northeast of monitoring well MW-13 and east of monitoring well MW-1 to fully define the groundwater plume and potentially further define the source area soil impacts where possible.
- Evaluate NAPL hydrocarbon removal options and soil remediation options.

5.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

5.1 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).

5.2 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.



January 11, 2024

Page 8

5.3 Reliance

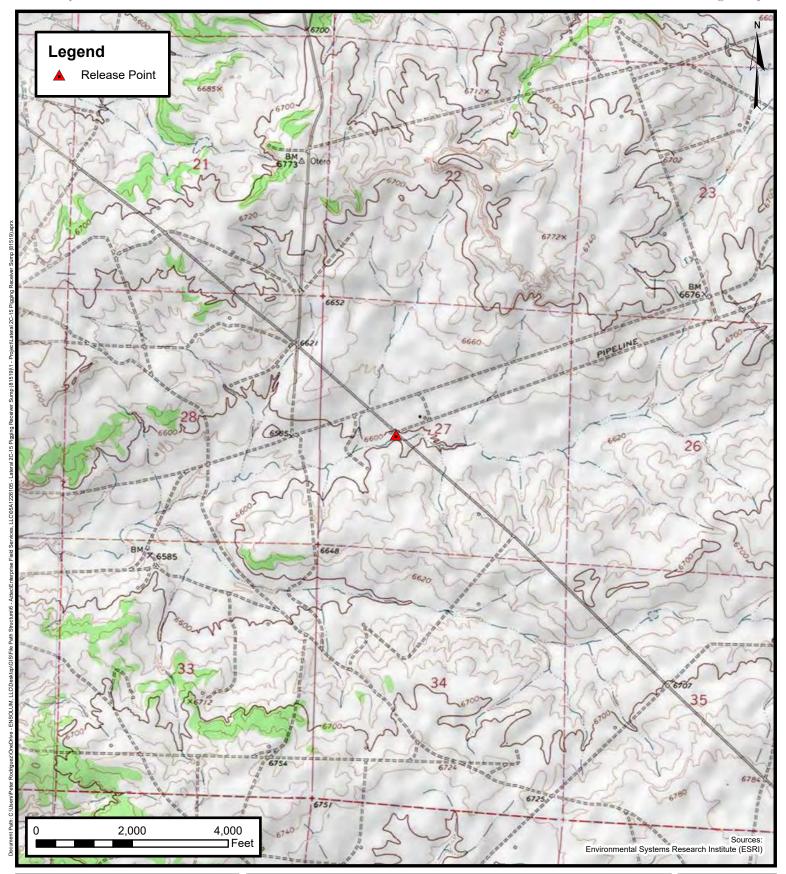
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution 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





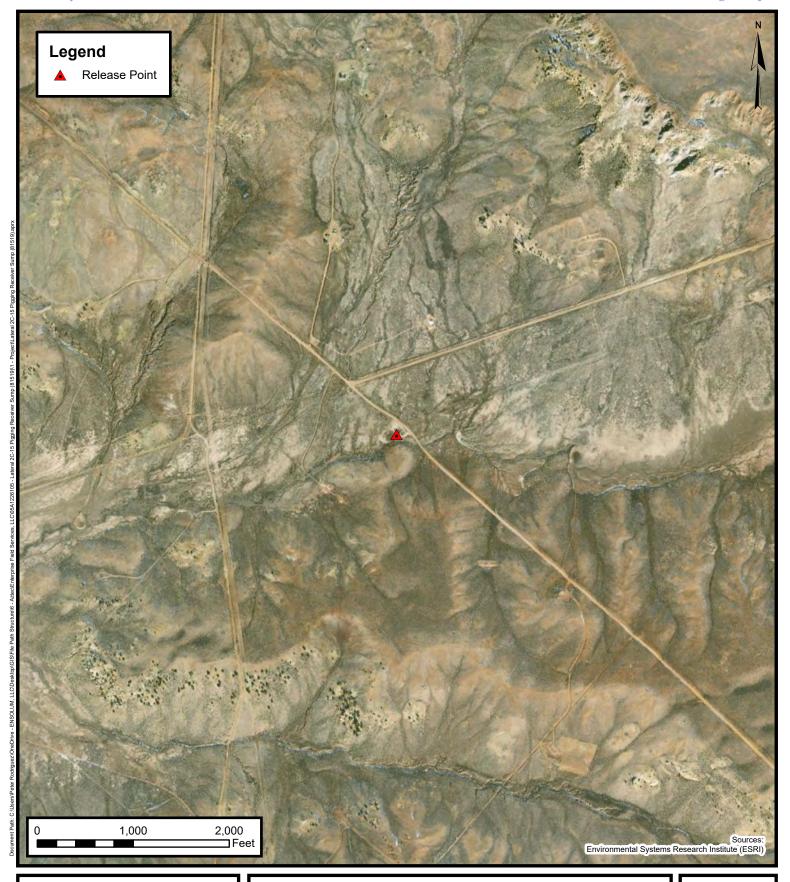
Topographic Map

Enterprise Field Services, LLC Lateral 2C-15 Pigging Receiver Sump (8/15/19) Project Number: 05A1226105

Unit Letter K, S27 T24N R5W, San Juan County, New Mexico 36.282835, -107.351995

FIGURE

1





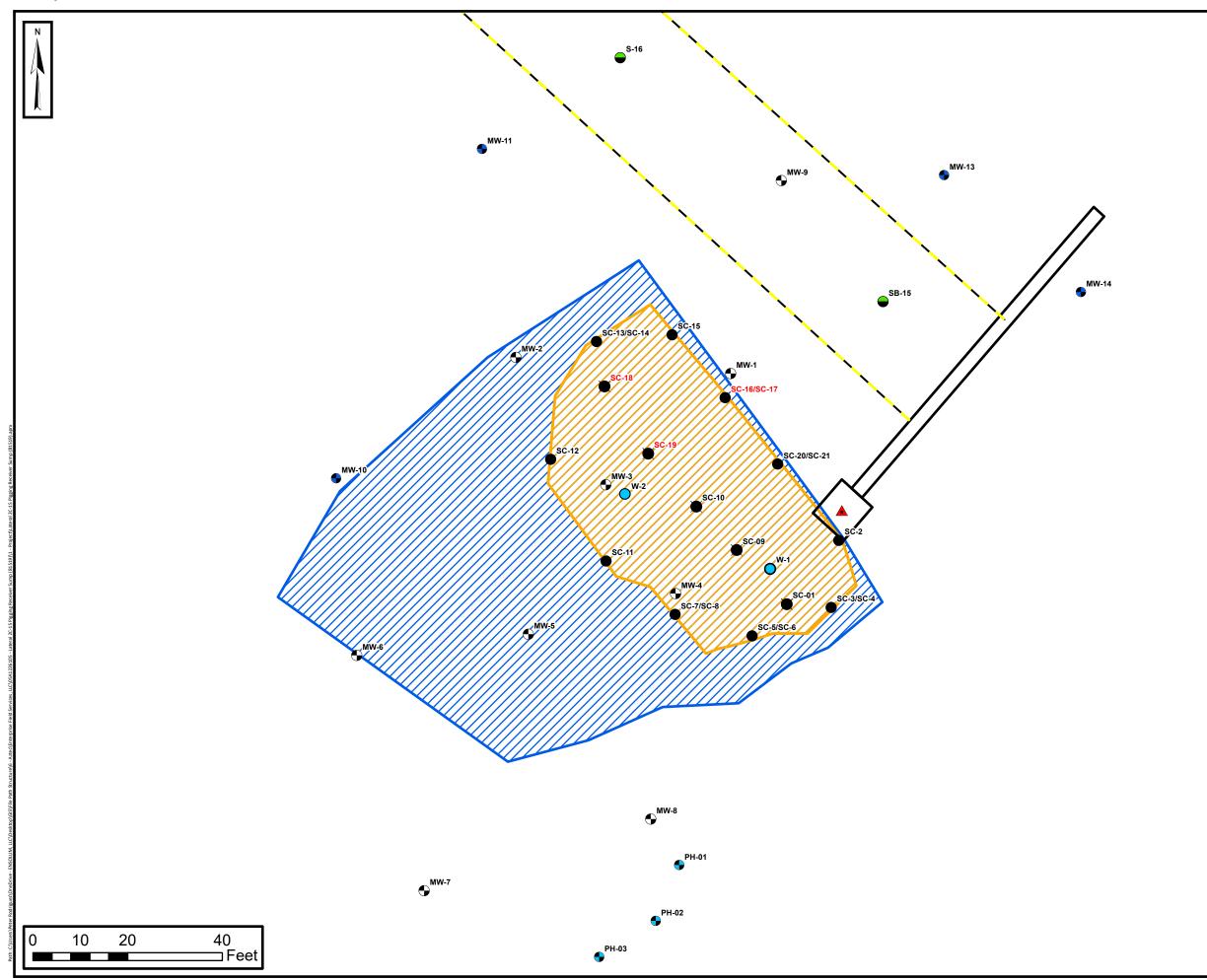
Site Vicinity Map

Enterprise Field Services, LLC Lateral 2C-15 Pigging Receiver Sump (8/15/19) Project Number: 05A1226105

Unit Letter K, S27 T24N R5W, San Juan County, New Mexico 36.282835, -107.351995

FIGURE

2



| LEGEND

- Release Point
- Monitoring Well Location (Ensolum, 2022)
- Monitoring Well Location (Rule, 2019 & 2020)
- Wash Sample Location (Rule, 2019)
- Open Excavation Water Sample (Rule, 2019)
- Soil Boring Location (Ensolum, 2022)
- Confirmation Wall Sample Location (Rule, 2019)
- Composite Floor Sample Location (Rule, 2019)

Approximate Pipeline Location

Extent of the Former Excavation (2019)

Former Sloped Ramp (2019)

NOTE:
Sample IDs in red exceed the applicable NM EMNRD OCD soil



Site Map

ENTERPRISE FIELD SERVICES, LLC LATERAL 2C-15 PIGGING RECEIVER SUMP (8/15/19)

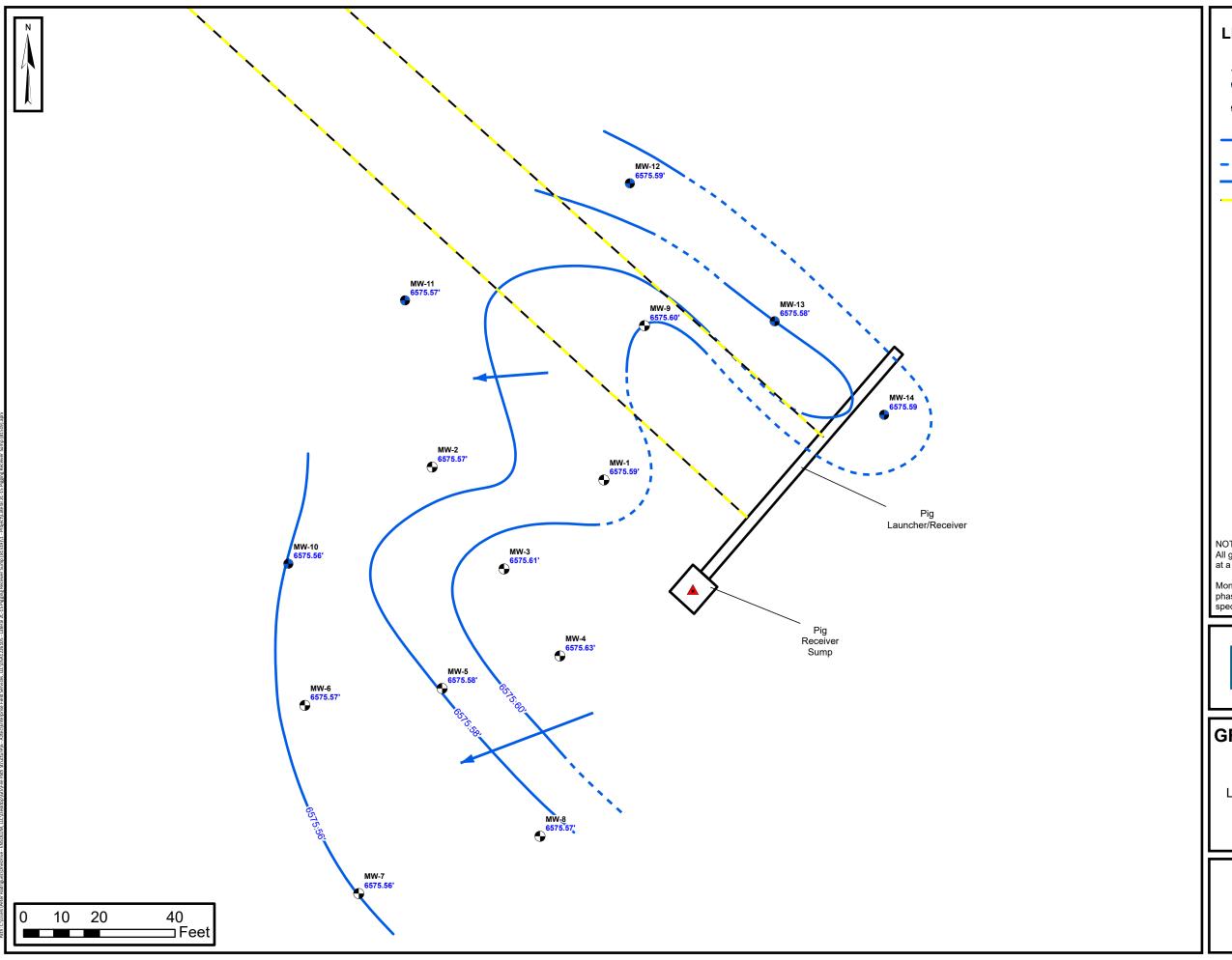
(8/15/19) Unit Letter K, S27 T24N R5W San Juan County, New Mexico 36.282835, -107.351995

Figure

3

Project Number: 05A1226105

Received by OCD: 1/12/2024 7:25:31 AM Page 15 of 138



LEGEND

Release Point

Monitoring Well Location (Ensolum, 2022)

Monitoring Well Location (Rule, 2019 & 2020)

Groundwater Elevation Contour (Contour Interval = 0.02')

Inferred Groundwater Elevation Contour **Groundwater Flow Direction**

Approximate Pipeline Location

All groundwater elevations are in **blue** and listed in feet as measured at a set OPUS adjusted central point.

Monitoring well MW-1 was corrected for the presence of phase-separated hydrocarbon using an estimated product specific gravity of 0.825.



GROUNDWATER GRADIENT MAP (JANUARY 2023)

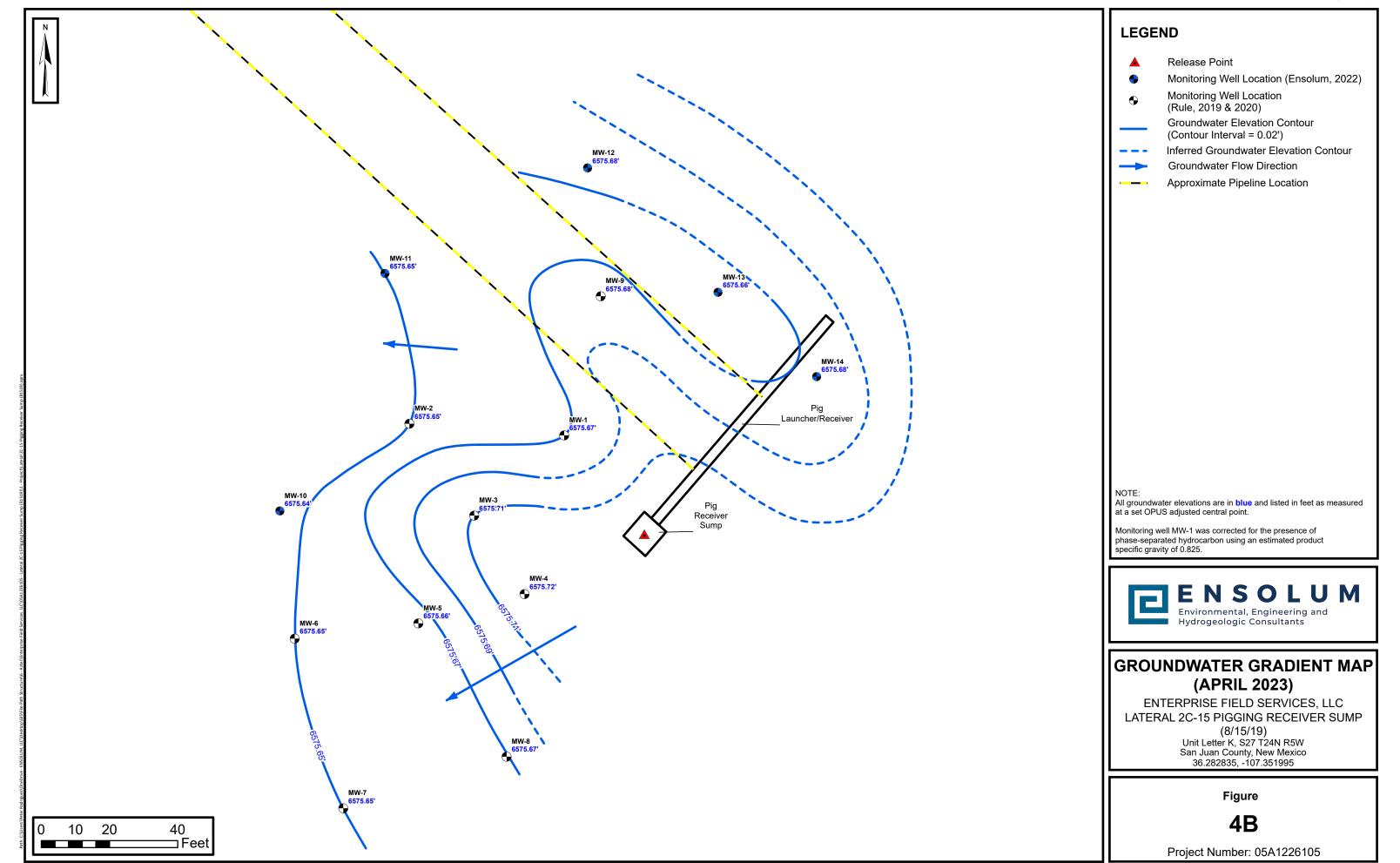
ENTERPRISE FIELD SERVICES, LLC LATERAL 2C-15 PIGGING RECEIVER SUMP

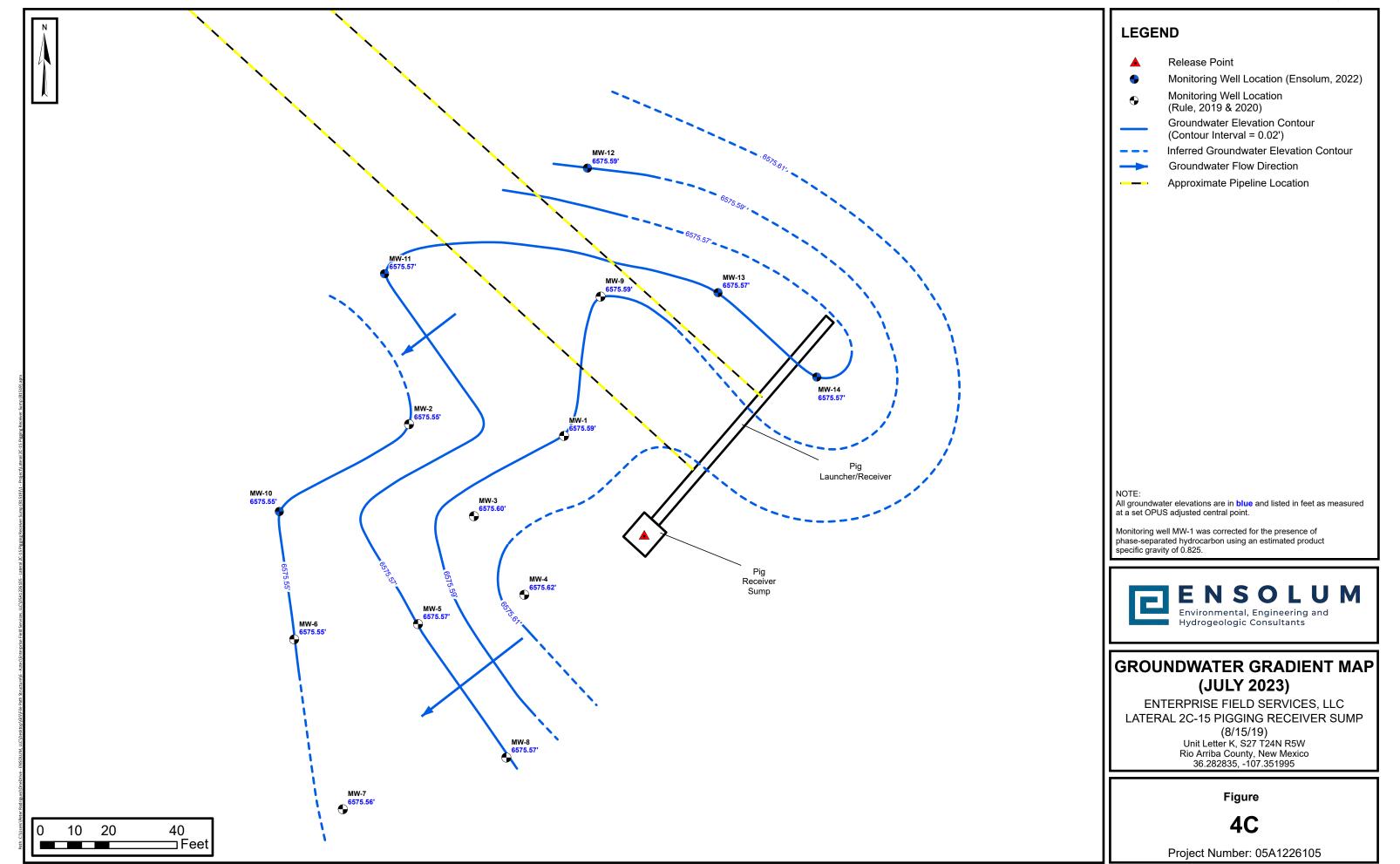
(8/15/19) Unit Letter K, S27 T24N R5W San Juan County, New Mexico 36.282835, -107.351995

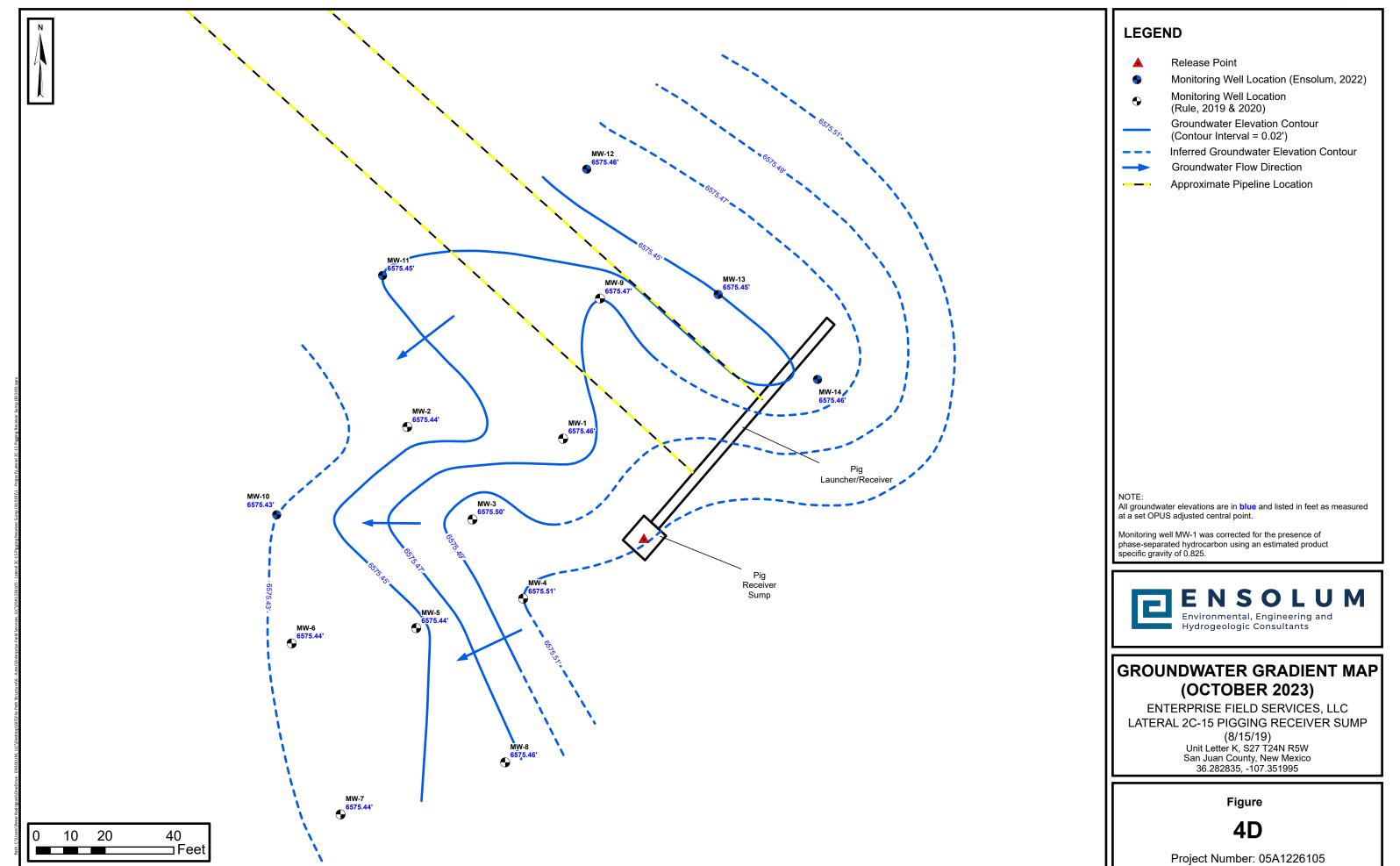
Figure

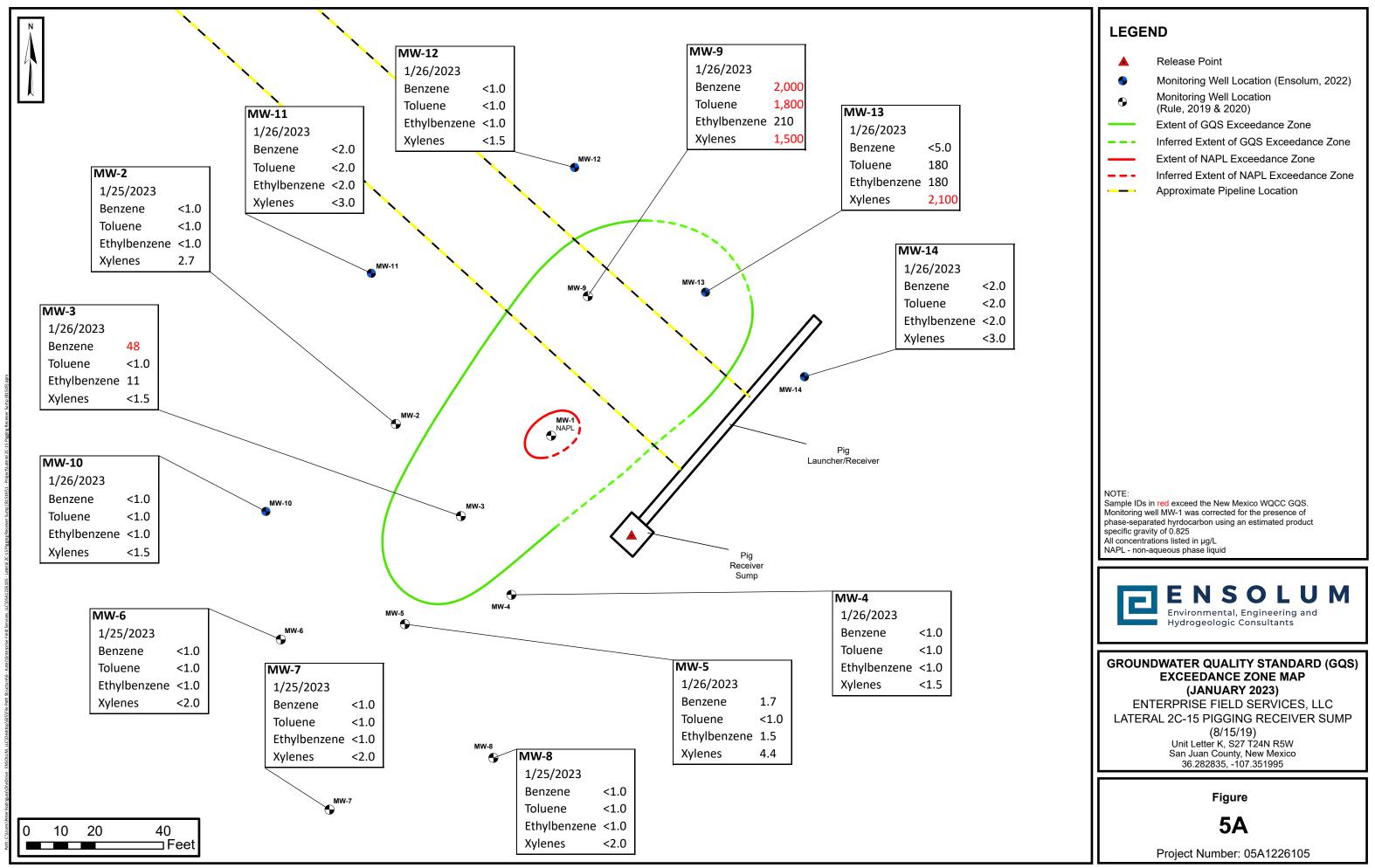
4A

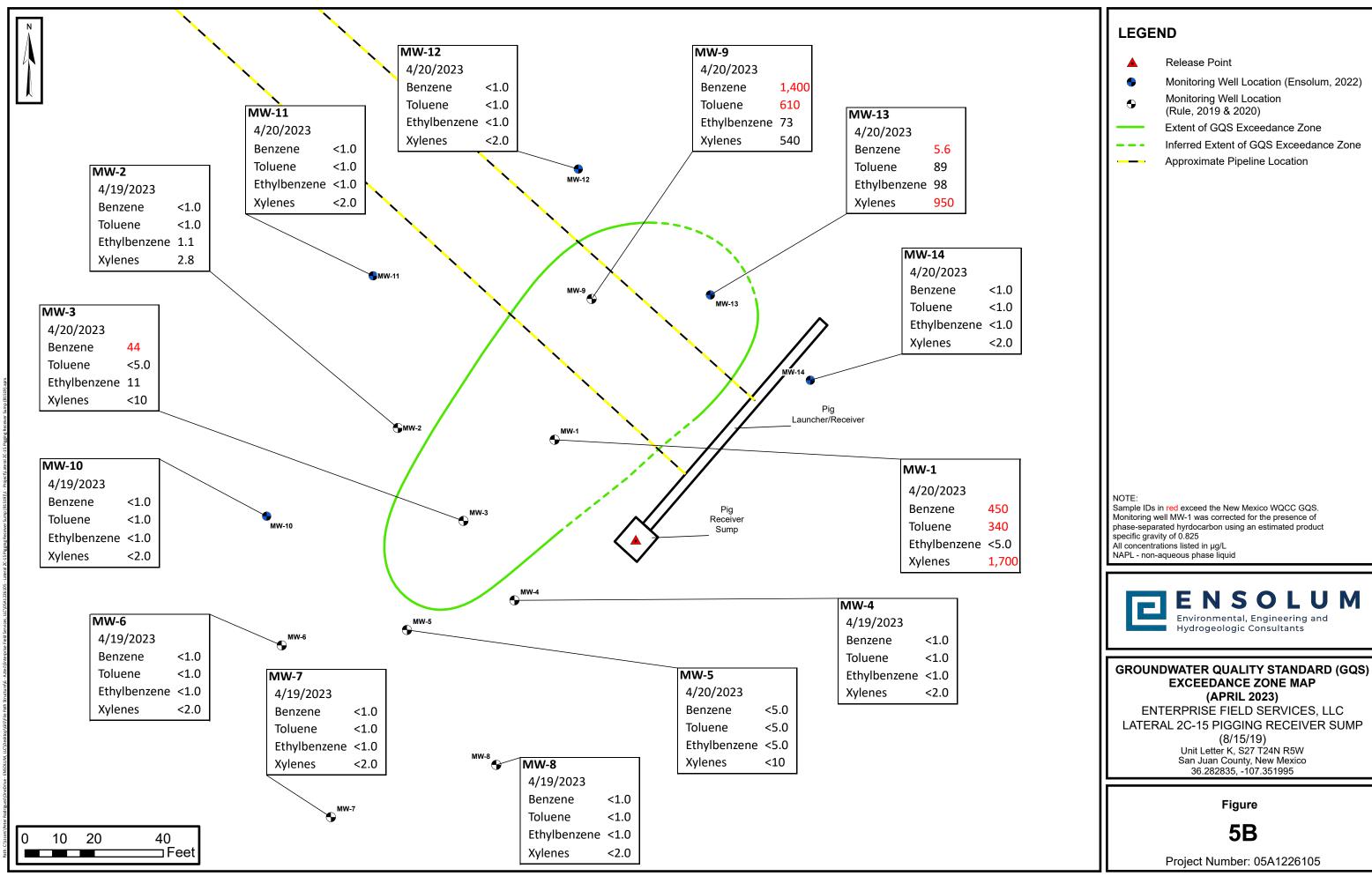
Project Number: 05A1226105

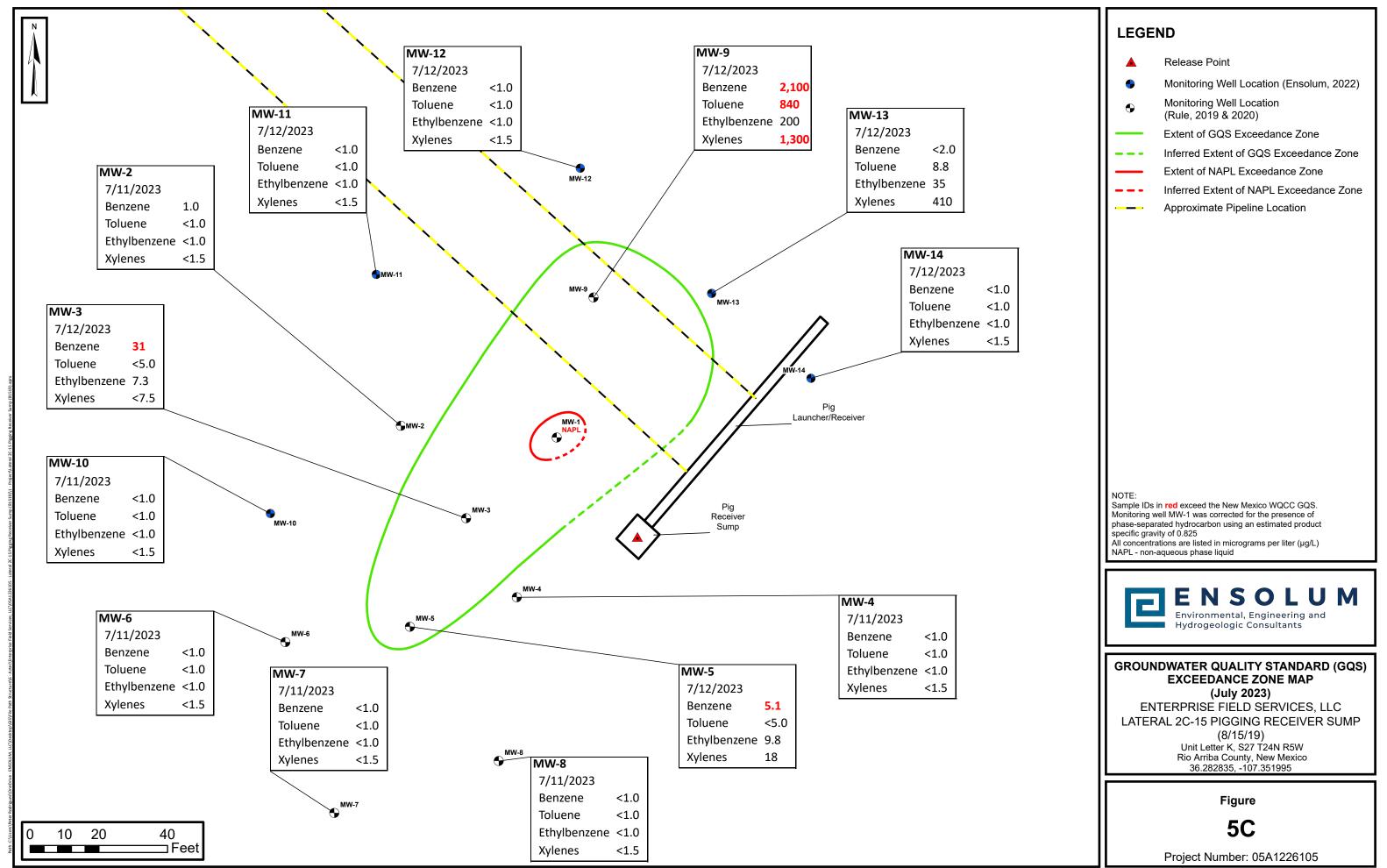


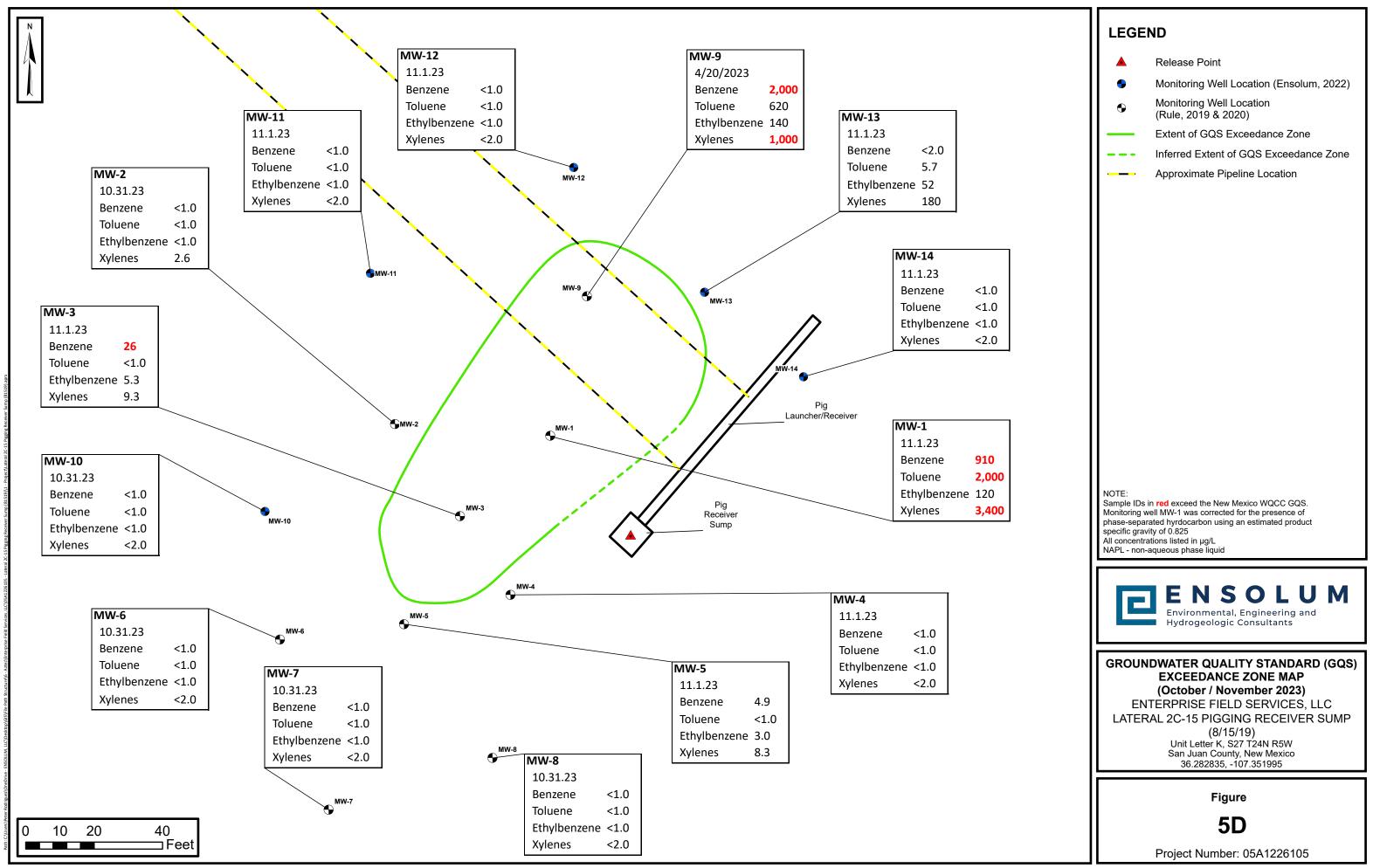














APPENDIX B

Regulatory Correspondence

From: Kyle Summers
To: Landon Daniell
Cc: Ranee Deechilly

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R 5W; 36.282835,

-107.351995

Date: Wednesday, October 25, 2023 10:55:23 AM

Attachments: image003.png image004.png

image004.png image005.png



Kyle Summers Principal 903-821-5603 Ensolum, LLC

From: Long, Thomas <tjlong@eprod.com> **Sent:** Wednesday, October 25, 2023 10:54 AM **To:** Yahoo Warning <kcmanwell@yahoo.com>

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R 5W; 36.282835, -107.351995

[**EXTERNAL EMAIL**]

Keith,

This email is a notification that Enterprise will be sampling the groundwater monitoring wells at the Lateral 2C-15 pigging receiver beginning on Tuesday, October 25, 2023. Groundwater monitoring/sampling activities are anticipated to take two days. 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)
tilong@eprod.com



From: Long, Thomas

Sent: Friday, July 7, 2023 7:19 AM

To: Yahoo Warning < kcmanwell@yahoo.com>

Cc: Stone, Brian < bmstone@eprod.com >; Velez, Nelson, EMNRD < Nelson.Velez@state.nm.us > **Subject:** FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R 5W;

36.282835, -107.351995

Keith,

This email is a notification that Enterprise will be sampling the groundwater monitoring wells at the Lateral 2C-15 pigging receiver beginning this Tuesday, July 11, 2023. Groundwater monitoring/sampling activities are anticipated to take two days. 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)
tilong@eprod.com



From: Long, Thomas

Sent: Monday, April 17, 2023 11:56 AM

To: 'Yahoo Warning' < kcmanwell@yahoo.com>

Cc: 'Kyle Summers' < ksummers@ensolum.com>; 'Velez,

Nelson, EMNRD' < Nelson. Velez@state.nm.us >

Subject: RE: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R 5W;

36.282835, -107.351995

Keith,

This email is a notification that Enterprise will be sampling the groundwater monitoring wells at the Lateral 2C-15 pigging receiver beginning this Wednesday, April 20, 2023. Groundwater monitoring/sampling activities are anticipated to take two days. 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) tilong@eprod.com



From: Yahoo Warning <<u>kcmanwell@yahoo.com</u>>

Sent: Monday, January 23, 2023 9:04 AM **To:** Long, Thomas <<u>tilong@eprod.com</u>>

Subject: Re: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R 5W;

36.282835, -107.351995

[Use caution with links/attachments]

Thank You Thomas,

For the information, I will not be available on Wednesday but will be there Thursday.

Thank You, K.C. Manwell

On Monday, January 23, 2023, 08:50:16 AM MST, Long, Thomas < tilong@eprod.com > wrote:

Keith,

This email is a notification that Enterprise will be sampling the groundwater monitoring wells at the Lateral 2C-15 pigging receiver beginning this Wednesday, January 25, 2023. Groundwater monitoring/sampling activities are anticipated to take two days. 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)

tilong@eprod.com



From: Yahoo Warning < kcmanwell@yahoo.com>
Sent: Tuesday, October 18, 2022 12:12 PM
To: Long, Thomas < tilong@eprod.com>

Subject: Re: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R 5W;

36.282835, -107.351995

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Tom,

KC Manwell has planned on participation at proposed sampling event, thank you for the info.

Thnx KC Manwell

On Tuesday, October 18, 2022, 07:09:06 AM MDT, Long, Thomas < tilong@eprod.com > wrote:

Keith,

This email is a notification that Enterprise will be performing groundwater monitoring/sampling activities at the Lateral 2C-15

Pigging Sump Release Site on Thursday October 20, 2022. Groundwater monitoring/sampling activities are anticipated to take two days. 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)

tilong@eprod.com



From: Long, Thomas

Sent: Thursday, August 25, 2022 7:37 AM **To:** 'Yahoo Warning' kcmanwell@yahoo.com

Cc: 'Velez, Nelson, EMNRD' < Nelson. Velez@state.nm.us >; Stone, Brian < bmstone@eprod.com >; 'Kyle

Summers' < ksummers@ensolum.com>

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

This email is a notification that Enterprise will be installing soil borings and groundwater monitoring wells at the Lateral 2C-15 Pigging Receiver site beginning Monday, August 29, 2022. We will be hydro-excavating each soil boring and monitoring well location today to a depth of eight feet bgs to identify any underground utilities. We will potentially collect a soil samples from approximately five feet bgs during hydro-excavating activities today if you permit. If not, we will wait until Monday. 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)

tilong@eprod.com



From: Long, Thomas

Sent: Monday, August 15, 2022 9:41 AM **To:** 'Yahoo Warning' <<u>kcmanwell@yahoo.com</u>>

Cc: Stone, Brian < bmstone@eprod.com >; Velez, Nelson, EMNRD < Nelson.Velez@state.nm.us > Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

Please find the attached draft tables, figures and lab reports for the Lateral 2C-15 Pigging Receiver Sump groundwater sampling. Enterprise will be compiling all the data for a complete report that will be finalized in the near future. Also, we are on schedule to install more soil borings and monitoring wells for the week for August 29, 2022. 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: Tuesday, July 19, 2022 7:13 AM

To: 'Yahoo Warning' < kcmanwell@yahoo.com >; 'Velez, Nelson, EMNRD' < Nelson.Velez@state.nm.us >

Cc: Kyle Summers ksummers@ensolum.com>; Stone, Brian bmstone@eprod.com>

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

This email is a notification that Enterprise will be performing groundwater monitoring/sampling activities at the Lateral 2C-15

Pigging Sump Release Site on Thursday July, 21, 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: Monday, January 24, 2022 7:57 AM **To:** 'Yahoo Warning' <<u>kcmanwell@yahoo.com</u>>

Cc: 'Velez, Nelson, EMNRD' < Nelson. Velez@state.nm.us>; Stone, Brian < bmstone@eprod.com> **Subject:** FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

This email is a notification that Enterprise will be conduct quarterly groundwater sampling at the Lateral 2C-15 Pigging Sump Release Site tomorrow. 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)

tilong@eprod.com



From: Yahoo Warning < kcmanwell@yahoo.com>

Sent: Tuesday, October 26, 2021 9:28 AM **To:** Long, Thomas <<u>tilong@eprod.com</u>>

Subject: Re: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R 5W;

36.282835, -107.351995

[Use caution with links/attachments]

Thomas Long,

Enterprise should continue with proposed sampling event.

K.C. Manwell

On Tuesday, October 26, 2021, 07:14:11 AM MDT, Long, Thomas <ti>tilong@eprod.com</ti>

Keith,

May we proceed with the sampling event or should we reschedule?

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tilong@eprod.com



From: Yahoo Warning < kcmanwell@yahoo.com > Sent: Monday, October 25, 2021 4:06 PM

To: Long, Thomas <tilong@eprod.com>

Subject: Re: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K Section 27 T 24N R 5W;

36.282835, -107.351995

[Use caution with links/attachments]

Thomas Long,

I have prior commitments on proposed groundwater sampling dates.

K.C. Manwell

On Monday, October 25, 2021, 01:17:51 PM MDT, Long, Thomas < tilong@eprod.com > wrote:

Keith,

This email is a notification that Enterprise will be conducting groundwater monitoring activities at the Lateral 2C-15 pigging receiver on Thursday, October 28, 2021. 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)

tilong@eprod.com



From: Long, Thomas

Sent: Wednesday, July 7, 2021 1:46 PM **To:** Yahoo Warning <<u>kcmanwell@yahoo.com</u>>

Cc: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' < Cory.Smith@state.nm.us>; Stone, Brian

bmstone@eprod.com>

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K B Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

This email is to notify you that Enterprise will be groundwater monitoring and sampling at the Lateral 2C-15 Pigging Sump Release site beginning July 9, 2021 at approximately 9:00 a.m. It is anticipated to take one day to complete the sampling activities. 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)

tilong@eprod.com



From: Long, Thomas

Sent: Monday, June 21, 2021 2:19 PM

To: 'Yahoo Warning' <<u>kcmanwell@yahoo.com</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K B Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

Please find the attached draft tables, figures and lab reports for the Lateral 2C-15 Pigging Receiver Sump groundwater sampling. Entperise will be compiling all the data for a complete report that will be finalized in the near future. 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: Monday, April 19, 2021 9:45 AM

To: 'Yahoo Warning' < kcmanwell@yahoo.com>

 $\textbf{Cc: 'Smith, Cory, EMNRD } (\underline{Cory.Smith@state.nm.us})' < \underline{Cory.Smith@state.nm.us} > ; Stone, Brian \\$

bmstone@eprod.com>

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K B Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

This email is to notify you that Enterprise will be groundwater monitoring and sampling at the Lateral 2C-15 Pigging Sump Release site beginning April 21, 2021 at approximately 9:00 a.m. It is anticipated to take one day to complete the sampling activities. 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)

tilong@eprod.com



From: Long, Thomas

Sent: Tuesday, February 2, 2021 7:23 AM **To:** 'Yahoo Warning' <<u>kcmanwell@yahoo.com</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K B Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

Please find the attached draft table and figures for the Lateral 2C-15 Pigging Receiver Sump groundwater sampling. Entperise will be compiling all this data for a complete report that will be finalized in the near future. 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)

tilong@eprod.com



From: Long, Thomas

Sent: Monday, January 11, 2021 8:50 AM **To:** 'Yahoo Warning' <<u>kcmanwell@yahoo.com</u>>

Cc: Stone, Brian < bmstone@eprod.com>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'

< Cory. Smith@state.nm.us>

Subject: FW: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K B Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

This email is to notify you that Enterprise will be groundwater monitoring and sampling at the Lateral 2C-15 Pigging Sump Release site beginning tomorrow January 12, 2021 at approximately 9:00 a.m. It is anticipated to take one day to complete the sampling activities. 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: Tuesday, October 13, 2020 7:20 AM **To:** 'Yahoo Warning' <<u>kcmanwell@yahoo.com</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: RE: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K B Section 27 T 24N R

5W; 36.282835, -107.351995

Keith,

I believe they will be onsite about 9:00 a.m. for sampling.

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: Yahoo Warning < kcmanwell@yahoo.com>
Sent: Monday, October 12, 2020 11:20 PM
To: Long, Thomas < tilong@eprod.com>

Subject: [EXTERNAL] Re: Lateral 2C-15 Pigging Sump Release Site - UL K B Section 27 T 24N R 5W;

36.282835, -107.351995

[Use caution with links/attachments]

Thank You for the quick response per our conversation on October 12, 2020 Aztec location, I plan to be available for proposed sampling on October 15, 2020. Is there an approximate time The personnel plan to be at the sampling site?

Thank You,

K.C. Manwell, Environmental Specialist

Jicarilla Apache Nation Environmental Protection Office

505-330-8031

On Monday, October 12, 2020, 02:21:13 PM MDT, Long, Thomas <tilong@eprod.com> wrote:

Keith.

This email is to notify you that Entperise will be re-developing the groundwater monitoring wells at the Lateral 2C-15 Pigging Sump Release Site on Wednesday, October 14, 2020 and the re-sampling the wells on October 15, 2020. If you have any questions, please all 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)

tilong@eprod.com



From: Long, Thomas

Sent: Thursday, May 28, 2020 8:39 AM

To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' < Cory.Smith@state.nm.us>

Subject: FW: Lateral 2C-15 Pigging Sump Release Site

Cory,

Just an FYI, we are sampling this again today. Jicarilla will be onsite.

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tilong@eprod.com



From: Long, Thomas

Sent: Wednesday, May 27, 2020 12:51 PM **To:** 'Yahoo Warning' <<u>kcmanwell@yahoo.com</u>>

Cc: Stone, Brian < bmstone@eprod.com >; Timmerman, Chad < CTimmerman@eprod.com >; Dixon,

Dwayne (dwdixon@eprod.com **Subject:** Lateral 2C-15 Pigging Sump Release Site

Keith,

As per conversations with Area 300 Superintendent, Chad Timmerman, please find the attached

preliminary information for the Lateral 2C-15 pigging sump release site. Rule Engineering is still compiling the complete corrective action report and will finalize it in the near future. They will have the site maps formally drafted by tomorrow. I will send you those maps once I receive them. Enterprise has a contractor that will be resampling all the wells tomorrow May 28, 2020 and will continue sampling on a quarterly basis. 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



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 Lateral 2C-15 Pigging Receiver Sump (8/15/19) GROUNDWATER ANALYTICAL SUMMARY											
Sample I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes						
	Campio Dato	(μg/L)	(µg/L)	(μg/L)	(µg/L)						
New Mexico Wat	er Quality Control										
	mission uality Standards	5	1,000	700	620						
Groundwater Q	-	ring Walls Installed	by Rule Engineerii	20.110							
	12.20.19	900	3,100	150	2,000						
	5.28.20	1,600	9,000	300	5,100						
	10.15.20	1,000			3,100						
	1.12.21	NAPL NAPL									
	4.21.21			NPL							
	7.9.21			NPL							
	10.28.21										
MW-1	1.25.22	NAPL NAPL									
10100-1		NAPL NAPL									
	5.3.22	NAPL NAPL									
	7.21.22	NAPL NAPL									
	10.20.22	NAPL NAPL									
	1.25.23	450	1								
	4.20.23	450	340	<5.0	1,700						
	7.11.23			APL							
	11.1.23	910	2,000	120	3,400						
- -	12.21.19	<2.0	<2.0	<2.0	390						
	5.28.20	<1.0	<1.0	<1.0	1.7						
	10.15.20	<1.0	<1.0	<1.0	63						
	1.12.21	<1.0	<1.0	<1.0	2.3						
	4.21.21	2.8	<1.0	<1.0	4.4						
	7.9.21	3.5	<1.0	1.4	5.7						
	10.28.21	<1.0	<1.0	1.3	5.8						
MW-2	1.25.22	<1.0	<1.0	<1.0	<1.5						
	5.3.22	<1.0	<1.0	<1.0	<1.5						
	7.21.22	<1.0	<1.0	<1.0	<1.5						
	10.20.22	1.2	<1.0	<1.0	<1.5						
	1.25.23	<1.0	<1.0	<1.0	2.7						
	4.19.23	<1.0	<1.0	1.1	2.8						
	7.11.23	1.0	<1.0	<1.0	<1.5						
	10.31.23	<1.0	<1.0	<1.0	2.6						
	12.22.19	1,200	130	180	870						
	5.28.20	460	<25	56	<50						
	10.15.20	480	<5.0	60	<7.5						
	1.12.21	280	<5.0	42	<10						
	4.21.21	140	<5.0	27	<10						
	7.9.21	110	<1.0	26	10						
	10.28.21	89	<1.0	17	7.2						
MW-3	1.25.22	72	<1.0	14	<1.5						
	5.3.22	72	<2.0	15	<3.0						
	7.21.22	47	<4.0	9.9	<8.0						
	10.21.22	58	<1.0	12	2.5						
	1.26.23	48	<1.0	11	<1.5						
	4.20.23	44	<5.0	11	<10						
	7.12.23	31	<5.0	7.3	<7.5						
	11.1.23	26	<1.0	5.3	9.3						

TABLE 1 Lateral 2C-15 Pigging Receiver Sump (8/15/19) GROUNDWATER ANALYTICAL SUMMARY Sample I.D. Sample Date Benzene Toluene Ethylbenzene Xylenes (µg/L) (µg/L) (µg/L) (µg/L) **New Mexico Water Quality Control** Commmission 5 1.000 700 620 **Groundwater Quality Standards** 12.23.19 3.3 1.2 4.4 3.0 5.28.20 <1.0 <1.0 <1.0 <1.5 10.15.20 1.1 <1.0 3.0 <1.5 1.12.21 <1.0 <1.0 1.1 <2.0 4.21.21 1.6 <1.0 <1.0 <2.0 7.9.21 1.9 <1.0 <1.0 <2.0 10.28.21 <1.0 <1.0 <1.0 <2.0 MW-4 1.25.22 <1.0 <1.0 <1.0 <1.5 5.3.22 <1.0 <1.0 <1.0 <1.5 7.21.22 <1.0 <1.0 <1.0 <1.5 10.20.22 <1.0 <1.0 <1.0 <1.5 1.26.23 <1.0 <1.0 <1.0 <1.5 4.19.23 <1.0 <1.0 <1.0 <2.0 7.11.23 <1.0 <1.0 <1.0 <1.5 11.1.23 <1.0 <1.0 <1.0 <2.0 12.24.19 270 9.7 56 530 5.28.20 110 21 <15 <10 10.15.20 110 <5.0 16 45 1.12.21 110 <5.0 13 <10 4.21.21 120 <5.0 12 <10 7.9.21 150 <1.0 23 56 10.28.21 56 <1.0 6.0 5.9 MW-5 1.25.22 53 <1.0 1.5 <1.5 5.3.22 32 <2.0 2.7 5.8 17 7.21.22 <4.0 6.9 14 10.21.22 6.0 <1.0 2.3 6.2 1.26.23 1.7 <1.0 1.5 4.4 4.20.23 <5.0 <5.0 <5.0 <10 7.12.23 5.1 <5.0 9.8 18

<1.0

3.0

8.3

4.9

11.1.23

E N S O L U M

TABLE 1 Lateral 2C-15 Pigging Receiver Sump (8/15/19) GROUNDWATER ANALYTICAL SUMMARY											
Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)						
	er Quality Control										
	mission uality Standards	5	1,000	700	620						
	3.05.20	<1.0	<1.0	<1.0	<2.0						
	5.28.20	<1.0	<1.0	<1.0	<1.5						
	10.15.20	<1.0	<1.0	<1.0	<1.5						
	1.12.21	<1.0	<1.0	<1.0	<2.0						
	4.21.21	<1.0	<1.0	<1.0	<2.0						
	7.9.21	<1.0	<1.0	<1.0	<2.0						
	10.28.21	<1.0	<1.0	<1.0	<2.0						
MW-6	1.25.22	<1.0	<1.0	<1.0	<1.5						
WWW C	5.3.22	<1.0	<1.0	<1.0	<1.5						
	7.21.22	<1.0	<1.0	<1.0	<1.5						
	10.20.22	<1.0	<1.0	<1.0	<1.5						
	1.25.23	<1.0	<1.0	<1.0	<2.0						
	4.19.23	<1.0	<1.0	<1.0	<2.0						
	7.11.23	<1.0	<1.0	<1.0	<1.5						
	10.31.23	<1.0	<1.0	<1.0	<2.0						
	3.05.20	2.9	19	48	750						
	5.28.20	<1.0	<1.0	<1.0	<1.5						
	10.15.20	<1.0	<1.0	1.1	19						
	1.12.21	<1.0	<1.0	<1.0	<2.0						
	4.21.21	<1.0	<1.0	<1.0	<2.0						
	7.9.21	<1.0	<1.0	<1.0	<2.0						
	10.28.21	<1.0	<1.0	<1.0	<2.0						
MW-7	1.25.22	<1.0	<1.0	<1.0	<1.5						
10100-7			1								
	5.3.22	<1.0	<1.0	<1.0	<1.5						
	7.21.22	<1.0	<1.0	<1.0	<1.5						
	10.20.22	<1.0	<1.0	<1.0	<1.5						
	1.25.23	<1.0	<1.0	<1.0	<2.0						
	4.19.23	<1.0	<1.0	<1.0	<2.0						
	7.11.23	<1.0	<1.0	<1.0	<1.5						
	10.31.23	<1.0	<1.0	<1.0	<2.0						
	3.05.20	<1.0	<1.0	<1.0	<2.0						
	5.28.20	<1.0	<1.0	<1.0	<1.5						
	10.15.20	<1.0	<1.0	<1.0	<1.5						
	1.12.21	<1.0	<1.0	<1.0	<2.0						
	4.21.21	<1.0	<1.0	<1.0	<2.0						
	7.9.21	<1.0	<1.0	<1.0	<2.0						
NAVA 0	10.28.21	<1.0	<1.0	<1.0	<2.0						
MW-8	1.25.22	<1.0	<1.0	<1.0	<1.5						
	5.3.22	<1.0	<1.0	<1.0	<1.5						
	7.21.22	<1.0	<1.0	<1.0	<1.5						
	10.20.22	<1.0	<1.0	<1.0	<1.5						
	1.25.23	<1.0	<1.0	<1.0	<2.0						
	4.19.23	<1.0	<1.0	<1.0	<2.0						
	7.11.23	<1.0	<1.0	<1.0	<1.5						
	10.31.23	<1.0	<1.0	<1.0	<2.0						

TABLE 1 Lateral 2C-15 Pigging Receiver Sump (8/15/19) GROUNDWATER ANALYTICAL SUMMARY Sample I.D. Sample Date Benzene Toluene Ethylbenzene Xylenes (µg/L) (µg/L) (µg/L) (µg/L) **New Mexico Water Quality Control** Commmission 5 1.000 700 620 **Groundwater Quality Standards** 3.05.20 490 860 65 680 5.28.20 900 72 65 320 10.15.20 1,100 1,000 110 660 1.12.21 160 1.800 2.300 1.200 4.21.21 1,800 2,400 170 1,200 2,600 7.9.21 2.000 160 1,300 10.28.21 2,000 2,800 170 1,400 MW-9 1.25.22 1,900 2,300 160 1,200 5.3.22 1,900 2,400 160 1,200 2,400 7.21.22 2,100 150 1,100 10.21.22 49 57 3.9 30 1.26.23 2,000 1,800 210 1,500 4.20.23 1,400 610 73 540 7.12.23 2,100 840 200 1,300 11.1.23 140 1,000 2.000 620 10.20.22 <1.0 <1.0 <1.0 <1.5 1.26.23 <1.0 <1.0 <1.0 <1.5 MW-10 4.19.23 <1.0 <1.0 <1.0 <2.0 7.11.23 <1.0 <1.0 <1.0 <1.5 10.31.23 <1.0 <2.0 <1.0 <1.0 10.21.22 <2.0 <2.0 <2.0 <3.0 1.26.23 <2.0 <2.0 <2.0 <3.0 MW-11 4.20.23 <1.0 <1.0 <1.0 <2.0 7.12.23 <1.0 <1.0 <1.0 <1.5 11.1.23 <1.0 <1.0 <1.0 <2.0 10.21.22 <1.0 <1.0 <1.0 <1.5 1.26.23 <1.0 <1.0 <1.0 <1.5 MW-12 4.20.23 <1.0 <1.0 <1.0 <2.0 7.12.23 <1.0 <1.0 <1.0 <1.5 11.1.23 <1.0 <1.0 <1.0 <2.0 10.21.22 <10 490 300 2,800 1.26.23 <5.0 180 180 2,100 MW-13 4.20.23 5.6 89 98 950 7.12.23 <2.0 8.8 35 410 11.1.23 <2.0 5.7 52 180 10.21.22 <2.0 <2.0 <2.0 <3.0 1.26.23 <2.0 <2.0 <2.0 <3.0 MW-14 4.20.23 <1.0 <1.0 <1.0 <2.0 7.12.23 <1.0 <1.0 <1.0 <1.5 11.1.23 <1.0 <1.0 <1.0 <2.0

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

Monitoring wells were sampled by Ensolum, LLC beginning May 2020

NAPL = Non-Aqueous Phase Liquid

 μ g/L = microgram per liter

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

			Lateral 2C-15 P GROUI	TABLE 2 igging Receiver NDWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Well Depth	Screen Interval	TOC Elevations	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	5.28.20	ND	24.32	ND			6599.87	
	8.18.20	24.52	24.83	0.31			6599.87	6575.30
	10.14.20	24.56	24.76	0.20			6599.87	6575.28
	1.27.21	24.44	24.54	0.10			6599.87	6575.41
	4.21.21	24.35	24.45	0.10			6599.87	6575.50
	7.9.21	24.42	24.71	0.29			6599.87	6575.40
	10.28.21	24.45	24.68	0.23			6599.87	6575.38
MW-1	1.25.22	24.36	24.44	0.08	30	15-30	6599.87	6575.50
	5.3.22	24.30	24.34	0.04			6599.87	6575.56
	7.21.22	24.41	24.64	0.23			6599.87	6575.42
	10.20.22	24.39	24.52	0.13			6599.87	6575.46
	1.25.23	24.28	24.30	0.02			6599.87	6575.59
	4.19.23	ND	24.20	ND			6599.87	6575.67
	7.11.23	24.28	24.29	0.01			6599.87	6575.59
	10.31.23	ND	24.41	ND			6599.87	6575.46
	5.28.20	ND	26.71	ND			6602.17	6575.46
	8.18.20	ND	26.91	ND	D D D D		6602.17	6575.26
	10.14.20	ND	26.91	ND			6602.17	6575.26
	1.27.21	ND	26.76	ND			6602.17	6575.41
	4.21.21	ND	26.69	ND			6602.17	6575.48
	7.9.21	ND	26.82	ND			6602.17	6575.35
	10.28.21	ND	26.84	ND			6602.17	6575.33
MW-2	1.25.22	ND	26.70	ND	32.65	17.65-32.65	6602.17	6575.47
	5.3.22	ND	26.64	ND			6602.17	6575.53
	7.21.22	ND	26.78	ND			6602.17	6575.39
	10.20.22	ND	26.74	ND			6602.17	6575.43
	1.25.23	ND	26.60	ND			6602.17	6575.57
	4.19.23	ND	26.52	ND			6602.17	6575.65
	7.11.23	ND	26.62	ND			6602.17	6575.55
	10.31.23	ND	26.73	ND			6602.17	6575.44
	5.28.20	ND	26.20	ND			6601.65	6575.45
	8.18.20	ND	26.39	ND			6601.65	6575.26
	10.14.20	ND	26.37	ND			6601.65	6575.28
	1.27.21	ND	26.23	ND			6601.65	6575.42
	4.21.21	ND	26.15	ND			6601.65	6575.50
	7.9.21	ND	26.27	ND			6601.65	6575.38
	10.28.21	ND	26.30	ND			6601.65	6575.35
MW-3	1.25.22	ND	26.15	ND	32.67	17.67-32.67	6601.65	6575.50
	5.3.22	ND	26.08	ND			6601.65	6575.57
	7.21.22	ND	26.22	ND			6601.65	6575.43
	10.20.22	ND	26.18	ND			6601.65	6575.47
	1.25.23	ND	26.04	ND			6601.65	6575.61
	4.19.23	ND	25.94	ND			6601.65	6575.71
	7.11.23	ND	26.05	ND			6601.65	6575.60
	10.31.23	ND	26.15	ND			6601.65	6575.50

			Lateral 2C-15 P GROUI	TABLE 2 igging Receive NDWATER ELEV)		
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water	Product Thickness	Total Well Depth (feet BTOC)	Screen Interval	TOC Elevations (feet AMSL)	Groundwater Elevation* (feet AMSL)
	5.28.20	ND	25.17	ND			6600.64	6575.47
	8.18.20	ND	25.36	ND	1		6600.64	6575.28
	10.14.20	ND	25.36	ND			6600.64	6575.28
	1.27.21	ND	25.19	ND	1		6600.64	6575.45
	4.21.21	ND	25.13	ND	1		6600.64	6575.51
	7.9.21	ND	25.25	ND	1		6600.64	6575.39
	10.28.21	ND	25.26	ND	1		6600.64	6575.38
MW-4	1.25.22	ND	25.13	ND	32.27	17.27-32.27	6600.64	6575.51
	5.3.22	ND	25.06	ND	1	11.21-02.21	6600.64	6575.58
	7.21.22	ND	25.20	ND	1		6600.64	6575.44
	10.20.22	ND	25.16	ND	1		6600.64	6575.48
	1.25.23	ND	25.01	ND	1		6600.64	6575.63
	4.19.23	ND	24.92	ND	1		6600.64	6575.72
	7.11.23	ND	25.02	ND	1		6600.64	6575.62
	10.31.23	ND	25.13	ND			6600.64	6575.51
	5.28.20	ND	25.24	ND			6600.71	6575.47
	8.18.20	ND	25.44	ND	1		6600.71	6575.27
	10.14.20	ND	25.44	ND	1		6600.71	6575.27
	1.27.21	ND	25.29	ND	32.76		6600.71	6575.42
	4.21.21	ND	25.23	ND			6600.71	6575.48
	7.9.21	ND	25.35	ND		17.76-32.76	6600.71	6575.36
	10.28.21	ND	25.38	ND			6600.71	6575.33
MW-5	1.25.22	ND	25.23	ND			6600.71	6575.48
	5.3.22	ND	25.17	ND	1		6600.71	6575.54
	7.21.22	ND	25.31	ND	1		6600.71	6575.40
	10.20.22	ND	25.28	ND	1		6600.71	6575.43
	1.25.23	ND	25.13	ND	1		6600.71	6575.58
	4.19.23	ND	25.05	ND	-		6600.71	6575.66
	7.11.23	ND	25.14	ND	-		6600.71	6575.57
	10.31.23	ND	25.27	ND	-		6600.71	6575.44
	5.28.20	ND	25.61	ND	<u>†</u>	<u> </u>	6601.06	6575.45
	8.18.20	ND	25.80	ND	1		6601.06	6575.26
	10.14.20	ND	25.96	ND	1		6601.06	6575.10
	1.27.21	ND	25.65	ND	-		6601.06	6575.41
	4.21.21	ND	25.60	ND	1		6601.06	6575.46
	7.9.21	ND	25.71	ND	-		6601.06	6575.35
	10.28.21	ND	25.73	ND	-		6601.06	6575.33
MW-6	1.25.22	ND	25.61	ND	28.53	13.53-28.53	6601.06	6575.45
-	5.3.22	ND	25.53	ND	1		6601.06	6575.53
	7.21.22	ND	25.67	ND	-		6601.06	6575.39
	10.20.22	ND	25.63	ND	-		6601.06	6575.43
	1.25.23	ND ND	25.49	ND	†		6601.06	6575.57
	4.19.23	ND ND	25.49	ND	1		6601.06	6575.65
	7.11.23	ND ND	25.51	ND	1		6601.06	6575.55
	10.31.23	ND ND	25.62	ND	-		6601.06	6575.44
	10.31.23	IND	20.62	ND			dU.1000	00/5.44

				TABLE 2 igging Receive NDWATER ELEV	r Sump (8/15/19) ATIONS			
Well I.D.	Date	Depth to	Depth to Water	Product	Total Well	Screen Interval	TOC Elevations	Groundwater
		Product (feet BTOC)	(feet BTOC)	Thickness	Depth (feet BTOC)	(feet BTOC)	(foot AMSL)	Elevation*
		(leet B10C)	(leet BTOC)		(leet BTOC)	(leet BTOC)	(feet AMSL)	(feet AMSL)
	5.28.20	ND	24.37	ND			6599.83	6575.46
	8.18.20	ND	24.57	ND			6599.83	6575.26
	10.14.20	ND	24.90	ND			6599.83	6574.93
	1.27.21	ND	24.42	ND			6599.83	6575.41
	4.21.21	ND	24.36	ND			6599.83	6575.47
	7.9.21	ND	24.43	ND			6599.83	6575.40
	10.28.21	ND	24.49	ND			6599.83	6575.34
MW-7	1.25.22	ND	24.37	ND	28.94	13.94-28.94	6599.83	6575.46
	5.3.22	ND	24.31	ND			6599.83	6575.52
	7.21.22	ND	24.44	ND	_		6599.83	6575.39
	10.20.22	ND	24.40	ND	_		6599.83	6575.43
	1.25.23	ND	24.27	ND	_		6599.83	6575.56
	4.19.23	ND	24.18	ND	_		6599.83	6575.65
	7.11.23	ND	24.27	ND	_		6599.83	6575.56
	10.31.23	ND	24.39	ND			6599.83	6575.44
	5.28.20	ND	23.55	ND	4		6599.02	6575.47
	8.18.20	ND	23.74	ND	4		6599.02	6575.28
	10.14.20	ND	23.76	ND	4		6599.02	6575.26
	1.27.21	ND	23.69	ND			6599.02	6575.33
	4.21.21	ND	23.53	ND			6599.02	6575.49
	7.9.21	ND	23.65	ND		14.03-29.03	6599.02	6575.37
	10.28.21	ND	23.66	ND	1		6599.02	6575.36
MW-8	1.25.22	ND	23.54	ND	29.03		6599.02	6575.48
	5.3.22	ND	23.48	ND	4		6599.02	6575.54
	7.21.22	ND	23.61	ND	4		6599.02	6575.41
	10.20.22	ND	23.57	ND	4		6599.02	6575.45
	1.25.23	ND	23.45	ND	4		6599.02	6575.57
	4.19.23	ND	23.35	ND	4		6599.02	6575.67
	7.11.23	ND	23.45	ND	-		6599.02	6575.57
	10.31.23	ND	23.56	ND			6599.02	6575.46
	5.28.20	ND	26.15	ND	4		6601.63	6575.48
	8.18.20	ND	26.33	ND	-		6601.63	6575.30
	10.14.20	ND	26.34	ND	-		6601.63	6575.29
	1.27.21	ND	26.19	ND	-		6601.63	6575.44
	4.21.21	ND	26.12	ND ND	-		6601.63	6575.51
	7.9.21 10.28.21	ND ND	26.24 26.27	ND ND	-		6601.63 6601.63	6575.39
MW-9					31	16-31		6575.36
IVIVV-9	1.22.22	ND ND	26.13	ND ND	اد	10-01	6601.63	6575.50
	5.3.22		26.07		1		6601.63	6575.56
	7.21.22	ND	26.20	ND ND	+		6601.63	6575.43
	10.20.22	ND	26.17	ND ND	-		6601.63	6575.46
	1.25.23	ND	26.03	ND ND	-		6601.63	6575.60
	4.19.23	ND	25.95	ND ND	-		6601.63	6575.68
	7.11.23	ND	26.04	ND	-		6601.63	6575.59
	10.31.23	ND	26.16	ND			6601.63	6575.47

E N S O L U M

T ABLE 2 Lateral 2C-15 Pigging Receiver Sump (8/15/19) GROUNDWATER ELEVATIONS Well I.D. Date Depth to Depth to Water Product Total Well Screen Interval TOC Elevations Groundwater												
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Well Depth	Screen Interval	TOC Elevations	Groundwater Elevation*				
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)				
	10.20.22	ND	26.30	ND			6601.72	6575.42				
	1.25.23	ND	26.16	ND	1		6601.72	6575.56				
MW-10	4.19.23	ND	26.08	ND	32.84	17.84-32.84	6601.72	6575.64				
	7.11.23	ND	26.17	ND			6601.72	6575.55				
	10.31.23	ND	26.29	ND			6601.72	6575.43				
	10.20.22	ND	27.66	ND			6603.10	6575.44				
	1.25.23	ND	27.53	ND		86 17.86-32.86	6603.10	6575.57				
MW-11	4.19.23	ND	27.45	ND	32.86		6603.10	6575.65				
	7.11.23	ND	27.53	ND			6603.10	6575.57				
	10.31.23	ND	27.65	ND			6603.10	6575.45				
	10.20.22	ND	26.07	ND			6601.54	6575.47				
	1.25.23	ND	25.95	ND			6601.54	6575.59				
MW-12	4.19.23	ND	25.86	ND	30	15-30	6601.54	6575.68				
	7.11.23	ND	25.95	ND			6601.54	6575.59				
	10.31.23	ND	26.08	ND			6601.54	6575.46				
	10.20.22	ND	26.12	ND			6601.56	6575.44				
	1.25.23	ND	25.98	ND			6601.56	6575.58				
MW-13	4.19.23	ND	25.90	ND	32.5	17.5-32.5	6601.56	6575.66				
	7.11.23	ND	25.99	ND			6601.56	6575.57				
	10.31.23	ND	26.11	ND			6601.56	6575.45				
	10.20.22	ND	26.05	ND			6601.50	6575.45				
	1.25.23	ND	25.91	ND	1		6601.50	6575.59				
MW-14	4.19.23	ND	25.82	ND	32	17-32	6601.50	6575.68				
	7.11.23	ND	25.93	ND			6601.50	6575.57				
	10.31.23	ND	26.04	ND			6601.50	6575.46				

Notes:

Monitoring wells surveyed July 30, 2020

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing

^{* -} corrected for presence of phase-sepated hydrocarbon using an estimated product specific gravity of 0.825



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

February 06, 2023

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 2C 15 Sump OrderNo.: 2301998

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/26/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2301998

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-8

 Project:
 Lateral 2C 15 Sump
 Collection Date: 1/25/2023 12:45:00 PM

 Lab ID:
 2301998-001
 Matrix: AQUEOUS
 Received Date: 1/26/2023 7:10:00 AM

RL Qual Units Analyses Result **DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: CCM 1/31/2023 5:11:00 PM ND BW9429 Benzene 1.0 μg/L 1 Toluene ND 1.0 μg/L 1/31/2023 5:11:00 PM BW9429 Ethylbenzene ND 1.0 1/31/2023 5:11:00 PM BW9429 μg/L 1 Xylenes, Total ND 2.0 μg/L 1/31/2023 5:11:00 PM BW9429 1 Surr: 4-Bromofluorobenzene 107 %Rec BW9429 70-130 1/31/2023 5:11:00 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 1 of 5

Surr: 4-Bromofluorobenzene

BW9429

Analytical Report Lab Order 2301998

Date Reported: 2/6/2023

1/31/2023 5:30:00 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-7

 Project:
 Lateral 2C 15 Sump
 Collection Date: 1/25/2023 1:25:00 PM

 Lab ID:
 2301998-002
 Matrix: AQUEOUS
 Received Date: 1/26/2023 7:10:00 AM

RL Qual Units Analyses Result **DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 1/31/2023 5:30:00 PM BW9429 Benzene 1.0 μg/L 1 Toluene ND 1.0 μg/L 1/31/2023 5:30:00 PM BW9429 Ethylbenzene ND 1.0 BW9429 μg/L 1 1/31/2023 5:30:00 PM Xylenes, Total ND 2.0 μg/L 1/31/2023 5:30:00 PM BW9429 1

70-130

%Rec

100

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

D Not Detected at the Reporting Limit

QL Practical Quanitative 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 2 of 5

Analytical Report Lab Order 2301998

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-6

 Project:
 Lateral 2C 15 Sump
 Collection Date: 1/25/2023 2:00:00 PM

 Lab ID:
 2301998-003
 Matrix: AQUEOUS
 Received Date: 1/26/2023 7:10:00 AM

RL Qual Units Analyses Result **DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: CCM 1/31/2023 5:50:00 PM ND BW9429 Benzene 1.0 μg/L 1 Toluene ND 1.0 μg/L 1/31/2023 5:50:00 PM BW9429 Ethylbenzene ND 1.0 BW9429 μg/L 1 1/31/2023 5:50:00 PM Xylenes, Total ND 2.0 μg/L 1/31/2023 5:50:00 PM BW9429 1 Surr: 4-Bromofluorobenzene 104 %Rec BW9429 70-130 1/31/2023 5:50:00 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 3 of 5

Analytical Report Lab Order 2301998

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-2

Project: Lateral 2C 15 Sump **Collection Date:** 1/25/2023 2:35:00 PM Lab ID: 2301998-004 Matrix: AQUEOUS Received Date: 1/26/2023 7:10:00 AM

RL Qual Units Analyses Result **DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 1/31/2023 6:10:00 PM BW9429 Benzene 1.0 μg/L 1 Toluene ND 1.0 μg/L 1/31/2023 6:10:00 PM BW9429 Ethylbenzene ND 1.0 BW9429 μg/L 1 1/31/2023 6:10:00 PM Xylenes, Total 2.7 2.0 μg/L 1/31/2023 6:10:00 PM BW9429 1 Surr: 4-Bromofluorobenzene 106 %Rec BW9429 70-130 1/31/2023 6:10:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

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

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301998 06-Feb-23

Client: ENSOLUM

Project: Lateral 2C 15 Sump

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBW** Batch ID: BW94291 RunNo: 94291

Prep Date: Analysis Date: 1/31/2023 SeqNo: 3406501

Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

ND 1.0 Renzene Toluene ND 1.0 ND Ethylbenzene 1.0 ND Xylenes, Total

Surr: 4-Bromofluorobenzene 20 20.00 102 70 130

TestCode: EPA Method 8021B: Volatiles Sample ID: 100ng btex Ics SampType: LCS Client ID: LCSW Batch ID: BW94291 RunNo: 94291 Prep Date: Analysis Date: 1/31/2023 SeqNo: 3406502 Units: µq/L %RPD Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Benzene 19 1.0 20.00 0 93.4 70 130 0 97.8 70 Toluene 20 1.0 20.00 130 Ethylbenzene 20 1.0 20.00 0 99.0 70 130 Xylenes, Total 59 2.0 60.00 0 99.0 70 130 Surr: 4-Bromofluorobenzene 21 20.00 105 70 130

Sample ID: 2301998-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: MW-8 Batch ID: BW94291 RunNo: 94291 Prep Date: Analysis Date: 1/31/2023 SeqNo: 3406868 Units: µg/L Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene 20 1.0 20.00 0 101 70 130 Toluene 20 20.00 0 99.7 70 130 1.0 Ethylbenzene 20 1.0 20.00 0 101 70 130 62 0 103 70 130 Xylenes, Total 2.0 60.00

20.00

Sample ID: 2301998-001amsd	Samp1	уре: М S	SD	TestCode: EPA Method 8021B: Volatiles						
Client ID: MW-8	Batcl	n ID: BW	/94291	F	RunNo: 9	4291				
Prep Date:	Analysis [Date: 1/3	31/2023	5	SeqNo: 3	406869	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.3	70	130	4.99	20	
Toluene	19	1.0	20.00	0	95.0	70	130	4.80	20	
Ethylbenzene	19	1.0	20.00	0	96.0	70	130	4.65	20	
Xylenes, Total	59	2.0	60.00	0	98.8	70	130	4.26	20	
Surr: 4-Bromofluorobenzene	22		20.00		109	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

21

Analyte detected in the associated Method Blank

107

70

130

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit RL

Page 5 of 5



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

Released to Imaging: 4/2/2024 1:23:18 PM

Client Name:	ENSOLUM		Work	Order Numb	er: 2301998	i	RcptNo	: 1
Received By:	Juan Roja	s	1/26/20	23 7:10:00 /	M	Guaray	, a. T.	
Completed By:	Tracy Cas			23 9:58:50 <i>A</i>				
B				20 0.00.00 7				
1	RU	1.26	5.23					
Chain of Cust	ody							
1. Is Chain of Cu	stody comp	lete?			Yes 🗌	No 🔽	Not Present	
2. How was the s	ample deliv	ered?			<u>Courier</u>			
<u>Log In</u>						_	_	
3. Was an attempt	ot made to c	ool the samp	oles?		Yes 🗹	No 🗌	na 🗌	
4. Were all samp	les received	at a tempera	ature of >0° C	to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in p	roper contai	ner(s)?			Yes 🗹	No 🗀		
6. Sufficient samp	ole volume fo	or indicated t	est(s)?		Yes 🔽	No 🗆		
7. Are samples (e				ed?	Yes 🗹	No 🗌		
8. Was preservati			. ,		Yes 🗌	No 🗸	NA 🗆	
9. Received at lea	ast 1 vial with	h headspace	<1/4" for AQ V	OA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any sam	ple containe	rs received b	oroken?		Yes	No 🗸		
							# of preserved bottles checked	
 Does paperwork (Note discrepant 			d)		Yes 🗹	No Li	for pH: (<2 or	>12 unless not
12. Are matrices co					Yes 🗸	No 🗆	Adjusted?	
13. Is it clear what			-		Yes 🗹	No 🗌		
14. Were all holdin					Yes 🗸	No 🗌	Checked by:	M 1-26-23
(If no, notify cu			ı				0	
Special Handli	ng (if app	licable)						
15. Was client not	ified of all di	screpancies	with this order?		Yes 🗌	No 🗌	NA 🗹	7
Person N	2	•		Date:	7			
By Whor				Via:	eMail [Phone Fax	☐ In Person	
Regardir	ng: structions:							
16. Additional rem								
17. Cooler Inform Cooler No	nation Temp °C	Condition	Seal Intact	Coal No	Soal Date	Signed Du	B 14	
COOK! NO	0.3	Condition	Seal ilitact	Seal No	Seal Date	Signed By		

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Ensolun, LLC	K Standard □ Rush	ANALYSIS LABORATORY
		www.hallenvironmental.com
Mailing Address: 606 S. Ris Grands SuiteA		4901 Hawkins NE - Albuquerque, NM 87109
	Proje	Tel. 505-345-3975 Fax 505-345-4107
	05A1226105	Analysis
email or Fax#: Kgummers Densolum con	Project Manager:	*OS
QA/QC Package:		s'8: SMS SMS
☐ Standard ☐ Level 4 (Full Validation)	K. Summers) OS
☐ Az Compliance		/ DF
□ Other	On Ice: PTES INO 126/2	9/8/8/8/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9
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	Cooler Temp _(Including CF) : 0,3 0 = 0.3 (°	15D estic letho y 83 8 Me 3r, 1
	Container Preservative HEAL NO	1:80 14 P.4 18 D.4 18 D.4 19 D.6 10 (V)
Date Time Matrix Sample Name	Type 23c	808 EDF CI, I 826 827
1/25/23 W W - 8	Harby Hilly 001	
MW-7		×
14:00 W	800	×
7	500	×
	Mark the first term of the fir	
1	1 mg/l = 1 mg/g	
Date: Time: Relinquished-tyr-	: Via: Date T	Remarks:
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Date: Time: Relinedished by:		Sil to Friolan
If necessary samples submitted to Hall Fruitonmen	lal may be supportracted to other according laboratories. This senses as notice of this	1/26/1/5 1/1() This most billity. Any sub-contracted data will be clearly notated on the analytical renort

Released to Imaging: 4/2/2024 1:23:18 PM



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

February 03, 2023

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A

Aztec, NM 87410 TEL: (903) 821-5603

FAX:

RE: Lateral 2C15 Sump OrderNo.: 2301A57

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/27/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: ENSOLUM

Analytical Report

Lab Order **2301A57**Date Reported: **2/3/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-10

 Project:
 Lateral 2C15 Sump
 Collection Date: 1/26/2023 10:40:00 AM

 Lab ID:
 2301A57-001
 Matrix: AQUEOUS
 Received Date: 1/27/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	:: JR
Benzene	ND	1.0	μg/L	1	1/31/2023 7:52:45 PM	SL94317
Toluene	ND	1.0	μg/L	1	1/31/2023 7:52:45 PM	SL94317
Ethylbenzene	ND	1.0	μg/L	1	1/31/2023 7:52:45 PM	SL94317
Xylenes, Total	ND	1.5	μg/L	1	1/31/2023 7:52:45 PM	SL94317
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	1/31/2023 7:52:45 PM	SL94317
Surr: Dibromofluoromethane	103	70-130	%Rec	1	1/31/2023 7:52:45 PM	SL94317
Surr: Toluene-d8	106	70-130	%Rec	1	1/31/2023 7:52:45 PM	SL94317

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

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 Quanitative 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

ring Limit Page 1 of 11

CLIENT: ENSOLUM

Analytical Report

Lab Order 2301A57 Date Reported: 2/3/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-4

Project: Lateral 2C15 Sump **Collection Date:** 1/26/2023 11:20:00 AM Lab ID: 2301A57-002 Matrix: AQUEOUS Received Date: 1/27/2023 6:30:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: JR Benzene ND 1.0 μg/L 1/31/2023 9:14:12 PM SL94317 Toluene ND 1.0 μg/L 1/31/2023 9:14:12 PM SL94317 1 Ethylbenzene ND 1.0 μg/L 1/31/2023 9:14:12 PM SL94317 Xylenes, Total ND μg/L 1 1/31/2023 9:14:12 PM SL94317 1.5 Surr: 1,2-Dichloroethane-d4 130 70-130 %Rec 1/31/2023 9:14:12 PM SL94317 Surr: Dibromofluoromethane 98.6 70-130 %Rec 1 1/31/2023 9:14:12 PM SL94317 Surr: Toluene-d8 106 70-130 %Rec 1/31/2023 9:14:12 PM SL94317

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

Qualifiers:

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

Page 2 of 11

Lab Order 2301A57 Date Reported: 2/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-11

Project: Lateral 2C15 Sump **Collection Date:** 1/26/2023 11:50:00 AM Lab ID: 2301A57-003 Matrix: AQUEOUS **Received Date:** 1/27/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst	:: JR
Benzene	ND	2.0	D	μg/L	2	1/31/2023 9:41:20 PM	SL94317
Toluene	ND	2.0	D	μg/L	2	1/31/2023 9:41:20 PM	SL94317
Ethylbenzene	ND	2.0	D	μg/L	2	1/31/2023 9:41:20 PM	SL94317
Xylenes, Total	ND	3.0	D	μg/L	2	1/31/2023 9:41:20 PM	SL94317
Surr: 1,2-Dichloroethane-d4	105	70-130	D	%Rec	2	1/31/2023 9:41:20 PM	SL94317
Surr: Dibromofluoromethane	104	70-130	D	%Rec	2	1/31/2023 9:41:20 PM	SL94317
Surr: Toluene-d8	101	70-130	D	%Rec	2	1/31/2023 9:41:20 PM	SL94317

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

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 Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits Sample pH Not In Range

RL Reporting Limit

Page 3 of 11

CLIENT: ENSOLUM

Analytical Report

Lab Order **2301A57**Date Reported: **2/3/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-12

Project: Lateral 2C15 Sump Collection Date: 1/26/2023 12:20:00 PM

Lab ID: 2301A57-004 **Matrix:** AQUEOUS **Received Date:** 1/27/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	1.0	μg/L	1	1/31/2023 10:08:26 PM	SL94317
Toluene	ND	1.0	μg/L	1	1/31/2023 10:08:26 PM	SL94317
Ethylbenzene	ND	1.0	μg/L	1	1/31/2023 10:08:26 PM	SL94317
Xylenes, Total	ND	1.5	μg/L	1	1/31/2023 10:08:26 PM	SL94317
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	1/31/2023 10:08:26 PM	SL94317
Surr: Dibromofluoromethane	97.9	70-130	%Rec	1	1/31/2023 10:08:26 PM	SL94317
Surr: Toluene-d8	101	70-130	%Rec	1	1/31/2023 10:08:26 PM	SL94317

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

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 Quanitative 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 4 of 11

Lab Order **2301A57**Date Reported: **2/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-14

 Project:
 Lateral 2C15 Sump
 Collection Date: 1/26/2023 1:15:00 PM

 Lab ID:
 2301A57-005
 Matrix: AQUEOUS
 Received Date: 1/27/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst	: JR
Benzene	ND	2.0	D	μg/L	2	1/31/2023 10:35:32 PM	SL94317
Toluene	ND	2.0	D	μg/L	2	1/31/2023 10:35:32 PM	SL94317
Ethylbenzene	ND	2.0	D	μg/L	2	1/31/2023 10:35:32 PM	SL94317
Xylenes, Total	ND	3.0	D	μg/L	2	1/31/2023 10:35:32 PM	SL94317
Surr: 1,2-Dichloroethane-d4	113	70-130	D	%Rec	2	1/31/2023 10:35:32 PM	SL94317
Surr: Dibromofluoromethane	107	70-130	D	%Rec	2	1/31/2023 10:35:32 PM	SL94317
Surr: Toluene-d8	101	70-130	D	%Rec	2	1/31/2023 10:35:32 PM	SL94317

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

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 Quanitative 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 5 of 11

Lab Order **2301A57**

Date Reported: 2/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-13

 Project:
 Lateral 2C15 Sump
 Collection Date: 1/26/2023 1:50:00 PM

 Lab ID:
 2301A57-006
 Matrix: AQUEOUS
 Received Date: 1/27/2023 6:30:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: JR Benzene ND 5.0 D μg/L 1/31/2023 11:29:40 PM SL94317 Toluene 180 10 D μg/L 1/31/2023 11:29:40 PM SL94317 Ethylbenzene 180 10 D μg/L 1/31/2023 11:29:40 PM SL94317 μg/L Xylenes, Total 2100 15 D 10 1/31/2023 11:29:40 PM SL94317 Surr: 1,2-Dichloroethane-d4 112 70-130 D %Rec 1/31/2023 11:29:40 PM SL94317 Surr: Dibromofluoromethane 85.9 70-130 D %Rec 10 1/31/2023 11:29:40 PM SL94317 Surr: Toluene-d8 108 70-130 D %Rec 1/31/2023 11:29:40 PM SL94317

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

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 Quanitative 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 11

Lab Order 2301A57

Date Reported: 2/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-5

Project: Lateral 2C15 Sump **Collection Date:** 1/26/2023 2:30:00 PM Lab ID: 2301A57-007 Matrix: AQUEOUS **Received Date:** 1/27/2023 6:30:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: JR
Benzene	1.7	1.0	μg/L	1	1/31/2023 11:56:41 PM	SL94317
Toluene	ND	1.0	μg/L	1	1/31/2023 11:56:41 PM	SL94317
Ethylbenzene	1.5	1.0	μg/L	1	1/31/2023 11:56:41 PM	SL94317
Xylenes, Total	4.4	1.5	μg/L	1	1/31/2023 11:56:41 PM	SL94317
Surr: 1,2-Dichloroethane-d4	119	70-130	%Rec	1	1/31/2023 11:56:41 PM	SL94317
Surr: Dibromofluoromethane	94.8	70-130	%Rec	1	1/31/2023 11:56:41 PM	SL94317
Surr: Toluene-d8	108	70-130	%Rec	1	1/31/2023 11:56:41 PM	SL94317

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

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 Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 7 of 11

Lab Order **2301A57**Date Reported: **2/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-3

 Project:
 Lateral 2C15 Sump
 Collection Date: 1/26/2023 3:00:00 PM

 Lab ID:
 2301A57-008
 Matrix: AQUEOUS
 Received Date: 1/27/2023 6:30:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: JR Benzene 48 1.0 μg/L 2/1/2023 12:23:39 AM SL94317 Toluene ND 1.0 μg/L 2/1/2023 12:23:39 AM SL94317 Ethylbenzene 11 1.0 μg/L 2/1/2023 12:23:39 AM SL94317 Xylenes, Total ND μg/L 2/1/2023 12:23:39 AM SL94317 1.5 1 Surr: 1,2-Dichloroethane-d4 114 70-130 %Rec 2/1/2023 12:23:39 AM SL94317 Surr: Dibromofluoromethane 100 70-130 %Rec 1 2/1/2023 12:23:39 AM SL94317 Surr: Toluene-d8 108 70-130 %Rec 2/1/2023 12:23:39 AM SL94317

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

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 Quanitative 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 8 of 11

Lab Order **2301A57**Date Reported: **2/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-9

Project: Lateral 2C15 Sump Collection Date: 1/26/2023 3:30:00 PM

Lab ID: 2301A57-009 **Matrix:** AQUEOUS **Received Date:** 1/27/2023 6:30:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST				Analys	t: JR
Benzene	2000	100	μg/L	100 2/1/2023 11:10:49 AM	SL94339
Toluene	1800	100	μg/L	100 2/1/2023 11:10:49 AM	SL94339
Ethylbenzene	210	100	μg/L	100 2/1/2023 11:10:49 AM	SL94339
Xylenes, Total	1500	150	μg/L	100 2/1/2023 11:10:49 AM	SL94339
Surr: 1,2-Dichloroethane-d4	91.5	70-130	%Rec	100 2/1/2023 11:10:49 AM	SL94339
Surr: Dibromofluoromethane	101	70-130	%Rec	100 2/1/2023 11:10:49 AM	SL94339
Surr: Toluene-d8	103	70-130	%Rec	100 2/1/2023 11:10:49 AM	SL94339

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

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 Quanitative 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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A57**

03-Feb-23

Client: ENSOLUM
Project: Lateral 2C15 Sump

Sample ID: 100ng lcs	SampT	SampType: LCS TestCode: EPA					8260: Volatile	s Short Li	st	
Client ID: LCSW	Batcl	n ID: SL	94317	F	RunNo: 94	4317				
Prep Date:	Analysis D	Date: 1/3	31/2023	(SeqNo: 34	406742	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.6	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.8		10.00		97.7	70	130			

Sample ID: mb	SampT	SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batch	n ID: SL	94317	F	RunNo: 94	1317					
Prep Date:	Analysis D	Date: 1/3	31/2023	5	SeqNo: 34	106745	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	1.5									
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130				
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130				
Surr: Dibromofluoromethane	10		10.00		103	70	130				
Surr: Toluene-d8	10		10.00		101	70	130				

Sample ID: 2301a57-001a ms	SampT	ype: MS	3	Tes	tCode: EF	ode: EPA Method 8260: Volatiles Short List						
Client ID: MW-10	Batch	n ID: SL	94317	F	RunNo: 94	1317						
Prep Date:	Analysis D	Date: 1/3	31/2023	5	SeqNo: 34	106824	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	21	1.0	20.00	0	103	70	130					
Toluene	21	1.0	20.00	0	104	70	130					
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.3	70	130					
Surr: 4-Bromofluorobenzene	9.7		10.00		97.2	70	130					
Surr: Dibromofluoromethane	10		10.00		105	70	130					
Surr: Toluene-d8	9.7		10.00		96.7	70	130					

Sample ID:	2301a57-001a msd	SampT	ype: MS	SD .	Tes	TestCode: EPA Method 8260: Volatiles Short List						
Client ID:	MW-10	Batch	n ID: SL	94317	F	RunNo: 94	1317					
Prep Date:		Analysis D	oate: 1/3	31/2023	9	SeqNo: 34	106825	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		19	1.0	20.00	0	95.6	70	130	7.78	20		
Toluene		21	1.0	20.00	0	103	70	130	1.03	20		

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 Quanitative Limit
- 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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2301A57 03-Feb-23

WO#:

Client: ENSOLUM

Project: Lateral 2C15 Sump

Sample ID: 2301a57-001a msd	SampT	уре: м .s	SD .	Tes	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: MW-10	Batch	ID: SL	94317	F	RunNo: 9 4	1317					
Prep Date:	Analysis D	ate: 1/3	31/2023	9	SeqNo: 34	106825	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.9	70	130	0	0		
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130	0	0		
Surr: Dibromofluoromethane	9.8		10.00		98.3	70	130	0	0		
Surr: Toluene-d8	10		10.00		103	70	130	0	0		

Sample ID: 100ng Ics	Samp ⁻	Type: LC	S	Tes	stCode: EF	st				
Client ID: LCSW	Batc	h ID: SL	94339	F	RunNo: 94	1339				
Prep Date:	Analysis [Date: 2/	1/2023	5	SeqNo: 34	107686	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.9	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID: mb	Samp	Гуре: МЕ	BLK	Tes	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batcl	Batch ID: SL94339			RunNo: 94339						
Prep Date:	Analysis [Date: 2/	1/2023	;	SeqNo: 34	107689	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	1.5									
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130				
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130				
Surr: Dibromofluoromethane	11		10.00		110	70	130				
Surr: Toluene-d8	10		10.00		103	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 Quanitative 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 11 of 11

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 4/2/2024 1:23:18 PM

Client Name: ENSOLUM Work Order Nu	imber: 2301A57		RcptNo:	1
Received By: Tracy Casarrubias 1/27/2023 6:30:0	0 AM			
Completed By: Tracy Casarrubias 1/27/2023 10:33:	38 AM			
Reviewed By: LVG 1.27.23				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present	
2 How was the sample delivered?	Courier			
<u>Log In</u>	🗖	No 🗆	NA □	
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗀	NA L	
4. Were all samples received at a temperature of >0° 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 🗆	
0. Were any sample containers received broken?	Yes	No 🗹	# of preserved bottles checked	
Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH:	12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌		. 10 2/2
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	11/27/6
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified: Da	ate:		-	
By Whom:	ia: 🗌 eMail 📗 F	Phone 🗌 Fax	☐ In Person	
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal N	lo Seal Date	Signed By	or manufacture of the control of the	
1 0 Good Yes				

	ANALYSIS LABORATORY	<u></u>	Hawkins NE - Albuqu	rei. 303-343-3973	[†] O	PO₄, S	2808 (1.4)728 - ,sON	oot to oo oo oo oo oo	ethodethody 831 Methodethy Methodethy Method	TPH:80 8081 Pc Cl, F, E 8250 (V 8270 (S Total Cc											Remarks:		Bill to Ensolun
Turn-Around Time:	Standard 🗆 Rush		72 77 5	05 A 1226105		· Symmers	L. Daniell	N Yes No upgi	(Including CF): 0,5-0.5 - Ø (°C)	Container Preservative HEAL No. Type and # Type	De 1/6/2 001	X 001 K	the second second	₩ 000 H	X X X	00% X	X X	X 800	X 000 W		. Via:/ Date Time	120/25	ed by: Via: € cookin Date Time (5:30
hain-of-Custody Record	Client: En so lum, LLC K SI	-	Project #:	Phone #:	email or Fax#: KSummers Qensohm.com Project	QA/QC Package: □ Standard □ Level 4 (Full Validation)	☐ Az Compliance	□ FDD (Tvoe) # of Go		Container Date Time Matrix Sample Name Type and	1/20/13/10/10 WW 10 04:01/13/11	4-MM W 02:11:20	11:50 W MW-11	1/262 12:20 W NW-12	1/26/23 13:15 W MW-14	1/24/2 William 1/2 MW - 1/3	1/26/23 W MW-5	1/24/22 15:00 W MW-3	1/26/2015:30 W MW-9		Date: Time: Relinquished by: Repelified by	13/105	Date: Time: Removershed by: Wis-four Date Time Sill to Ensolum

Released to Imaging: 4/2/2024 1:23:18 PM



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

April 25, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 2C 15 Sump OrderNo.: 2304869

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/20/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-8

Project: Lateral 2C 15 Sump **Collection Date:** 4/19/2023 9:50:00 AM

Lab ID: 2304869-001 **Matrix:** AQUEOUS **Received Date:** 4/20/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	: CCM
Benzene	ND	1.0	μg/L	1	4/21/2023 6:53:00 PM	BW 9622
Toluene	ND	1.0	μg/L	1	4/21/2023 6:53:00 PM	BW9622
Ethylbenzene	ND	1.0	μg/L	1	4/21/2023 6:53:00 PM	BW9622
Xylenes, Total	ND	2.0	μg/L	1	4/21/2023 6:53:00 PM	BW9622
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	4/21/2023 6:53:00 PM	BW 9622

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

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 Quanitative 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 1 of 7

Date Reported: 4/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-7

Project: Lateral 2C 15 Sump Collection Date: 4/19/2023 10:20:00 AM

Lab ID: 2304869-002 **Matrix:** AQUEOUS **Received Date:** 4/20/2023 6:30:00 AM

Analyses	Result	RL Qı	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	: CCM
Benzene	ND	1.0	μg/L	1	4/21/2023 7:15:00 PM	BW9622
Toluene	ND	1.0	μg/L	1	4/21/2023 7:15:00 PM	BW9622
Ethylbenzene	ND	1.0	μg/L	1	4/21/2023 7:15:00 PM	BW9622
Xylenes, Total	ND	2.0	μg/L	1	4/21/2023 7:15:00 PM	BW9622
Surr: 4-Bromofluorobenzene	94.4	70-130	%Rec	1	4/21/2023 7:15:00 PM	BW9622

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

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 Quanitative 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 2 of 7

Date Reported: 4/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-6

Project: Lateral 2C 15 Sump Collection Date: 4/19/2023 10:45:00 AM Lab ID: 2304869-003 Matrix: AQUEOUS Received Date: 4/20/2023 6:30:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 1.0 μg/L 4/21/2023 7:36:00 PM BW9622 Toluene ND 1.0 μg/L 1 4/21/2023 7:36:00 PM BW9622 Ethylbenzene ND 1.0 μg/L 4/21/2023 7:36:00 PM BW9622 Xylenes, Total ND 2.0 μg/L 4/21/2023 7:36:00 PM BW9622 Surr: 4-Bromofluorobenzene 95.0 70-130 %Rec 4/21/2023 7:36:00 PM BW9622

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

Qualifiers:

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

Reporting Limit

Page 3 of 7

Date Reported: 4/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-10

 Project:
 Lateral 2C 15 Sump
 Collection Date: 4/19/2023 11:20:00 AM

 Lab ID:
 2304869-004
 Matrix: AQUEOUS
 Received Date: 4/20/2023 6:30:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 1.0 μg/L 4/21/2023 7:58:00 PM BW9622 Toluene ND 1.0 μg/L 1 4/21/2023 7:58:00 PM BW9622 Ethylbenzene ND 1.0 μg/L 4/21/2023 7:58:00 PM BW9622 Xylenes, Total ND 2.0 μg/L 1 4/21/2023 7:58:00 PM BW9622 Surr: 4-Bromofluorobenzene 94.7 70-130 %Rec 4/21/2023 7:58:00 PM BW9622

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

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 Quanitative 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 4 of 7

Date Reported: 4/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-2

Project: Lateral 2C 15 Sump Collection Date: 4/19/2023 11:50:00 AM

Lab ID: 2304869-005 **Matrix:** AQUEOUS **Received Date:** 4/20/2023 6:30:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	1.0	μg/L	1	4/21/2023 8:19:00 PM	BW 9622
Toluene	ND	1.0	μg/L	1	4/21/2023 8:19:00 PM	BW9622
Ethylbenzene	1.1	1.0	μg/L	1	4/21/2023 8:19:00 PM	BW9622
Xylenes, Total	2.8	2.0	μg/L	1	4/21/2023 8:19:00 PM	BW9622
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	4/21/2023 8:19:00 PM	BW9622

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

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 Quanitative 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

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Date Reported: 4/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-4

Project: Lateral 2C 15 Sump Collection Date: 4/19/2023 12:45:00 PM

Lab ID: 2304869-006 Matrix: AQUEOUS Received Date: 4/20/2023 6:30:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	4/21/2023 8:41:00 PM	BW9622
Toluene	ND	1.0	μg/L	1	4/21/2023 8:41:00 PM	BW9622
Ethylbenzene	ND	1.0	μg/L	1	4/21/2023 8:41:00 PM	BW9622
Xylenes, Total	ND	2.0	μg/L	1	4/21/2023 8:41:00 PM	BW9622
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	4/21/2023 8:41:00 PM	BW9622

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

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 Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- Sample pH Not In Range

RL Reporting Limit

Page 6 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2304869

25-Apr-23

Client: ENSOLUM

Project: Lateral 2C 15 Sump

Sample ID: 100ng btex lcs	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSW	Batcl	Batch ID: BW96225			RunNo: 90					
Prep Date:	Analysis Date: 4/21/2023 SeqNo: 3485440			Units: µg/L						
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit		HighLimit	%RPD	RPDLimit	Qual				
Benzene	19	1.0	20.00	0	97.1	70	130			
Toluene	20	1.0	20.00	0	99.2	70	130			
Ethylbenzene	20	1.0	20.00	0	99.2	70	130			
Xylenes, Total	60	2.0	60.00	0	99.4	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		97.9	70	130			

Sample ID: mb	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW Batch ID: BW96225			F							
Prep Date:	Analysis D	Analysis Date: 4/21/2023			SeqNo: 34	485441	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		95.2	70	130			

Qualifiers:

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

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 4/2/2024 1:23:18 PM

				weosne. ww						
Client Name:	ENSOLUM	1	Work	Order Num	ber: 2304	869			RcptNo:	1
Received By:	Tracy Cas	sarrubias	4/20/20	23 6:30:00	AM					
Completed By:	Tracy Cas	sarrubias	4/20/20	23 10:16:40) AM					
Reviewed By:	Jl 4-	20.23								
Chain of Cus	stody									
1. Is Chain of C	ustody comp	olete?			Yes		No	V	Not Present	
2. How was the	sample deliv	vered?			Cour	<u>ier</u>				
Log In										
3. Was an atter	npt made to	cool the samp	oles?		Yes	V	No		NA 🗆	
4. Were all sam	ples received	d at a tempera	ature of >0° C	to 6.0°C	Yes	V	No		na 🗆	
5. Sample(s) in	proper conta	iner(s)?			Yes	V	No			
6. Sufficient san	nple volume t	for indicated t	est(s)?		Yes	✓	No			
7. Are samples	(except VOA	and ONG) pr	operly preserve	ed?	Yes	✓	No			
8. Was preserva	ative added to	bottles?			Yes		No	V	NA 🗆	
9. Received at le	east 1 vial wit	th headspace	<1/4" for AQ \	OA?	Yes	V	No		NA □	
10. Were any sa	mple containe	ers received b	oroken?		Yes		No	✓	# of preserved	***
11.Does paperw (Note discrep)		Yes	✓	No		bottles checked for pH: (<2 or	>12 unless noted)
2. Are matrices	correctly iden	tified on Cha	n of Custody?		Yes	V	No		Adjusted?	
3. Is it clear wha	it analyses w	ere requested	l?		Yes	✓	No			
 Were all holding (If no, notify continuous) 	-		ı		Yes	V	No		Checked by:	70/23
Special Hand	ling (if app	olicable)						.,5		
15. Was client no	otified of all d	iscrepancies	with this order	•	Yes		No		NA 🗹	
Person	Notified:			Date						
By Who	om:			Via:	□ еМа	il 🗌	Phone	Fax	☐ In Person	
Regard	ling:									
Client I	nstructions:	Phone numb	er missing on	COC- TMC	4/20/23					
16. Additional re	marks: 🤰	1120 H20	13							
17. <u>Cooler Info</u>	mation									
Cooler No		Condition	Seal Intact	Seal No	Seal Da	te	Signed I	Ву	and the second s	
1	4.4	Good	Yes	Morty						

Received by OCD: 1/12/2024 7:25:31 AM

Chain-of-Custody Record	Lurn-Around Lime:	
Client: Ensspland, LLC	X Standard Rush	ANALYSIS LABORATORY
1	Project Name:	www.hallenvironmental.com
Mailing Address: 606 S. RioGranle Dille La	4 Lateral 2C-15 Surve	4901 Hawkins NE - Albuquerque, NM 87109
Juhr		Tel. 505-345-3975 Fax 505-345-4107
,	0541226105	Analysis Request
email or Fax#: Kstwwwerschowsolume Project Manager:	Project Manager:	*OS
QA/QC Package:	X 5.50.50	S (80%)
creditation: Az Con	Sampler: () Aniell	7 DR2, (1.1) (1.2) (1.2) (2.0)
	人為	PO PS
□ EDD (Type)		o)(G loidd 331(leta NC A)
	Cooler Temp(maluding CF): 44 - 6 - 44 (°C)	on 510 Methby 8 M Br, VOV
	Preservative	98:H9 1) 80 1) 80 2HA 2HA 4H3 1, H3 1) 003
Date Time Matrix Sample Name	#	85 87 80 80 11b
Show of the Colored Miles	250ml Vet Hally 001	***
1 MANA	'	
(0. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1	2003	
NAMA V	700	
3	300 4	X
3	2000 Chill All May	
	-	
Date: Time: Relinquished by:	Received by: Vie: Date Time	
Rejinquished by:	Received by: Via:Counter Date Time	Sil to misolan
1/4/12 (520 / Mart Malle	- 1	4 (20)23
is not reasonable to the submitted to Hall Finvironmental may be set	ed laboratories.	האינות אוני אוני אוני איני איני איני איני איני

If necessary, samples submitted to Hall Environmental may be Released to Imaging: 4/2/2024 1:23:18 PM



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

April 28, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 2C 15 Sump OrderNo.: 2304931

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/21/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-11

Project: Lateral 2C 15 Sump Collection Date: 4/20/2023 9:50:00 AM

Lab ID: 2304931-001 Matrix: AQUEOUS Received Date: 4/21/2023 6:30:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	:: JJP
Benzene	ND	1.0	μg/L	1	4/26/2023 5:47:02 PM	BW9631
Toluene	ND	1.0	μg/L	1	4/26/2023 5:47:02 PM	BW9631
Ethylbenzene	ND	1.0	μg/L	1	4/26/2023 5:47:02 PM	BW9631
Xylenes, Total	ND	2.0	μg/L	1	4/26/2023 5:47:02 PM	BW9631
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	4/26/2023 5:47:02 PM	BW9631

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

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 Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Page 1 of 9 RL Reporting Limit

Date Reported: 4/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-12

Project: Lateral 2C 15 Sump Collection Date: 4/20/2023 10:35:00 AM

Lab ID: 2304931-002 **Matrix:** AQUEOUS **Received Date:** 4/21/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	1.0	μg/L	1	4/26/2023 6:10:18 PM	BW9631
Toluene	ND	1.0	μg/L	1	4/26/2023 6:10:18 PM	BW9631
Ethylbenzene	ND	1.0	μg/L	1	4/26/2023 6:10:18 PM	BW9631
Xylenes, Total	ND	2.0	μg/L	1	4/26/2023 6:10:18 PM	BW9631
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	4/26/2023 6:10:18 PM	BW9631

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

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 Quanitative 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 2 of 9

Date Reported: 4/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-14

 Project:
 Lateral 2C 15 Sump
 Collection Date: 4/20/2023 11:10:00 AM

 Lab ID:
 2304931-003
 Matrix: AQUEOUS
 Received Date: 4/21/2023 6:30:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	1.0	μg/L	1	4/26/2023 6:33:39 PM	BW9631
Toluene	ND	1.0	μg/L	1	4/26/2023 6:33:39 PM	BW9631
Ethylbenzene	ND	1.0	μg/L	1	4/26/2023 6:33:39 PM	BW9631
Xylenes, Total	ND	2.0	μg/L	1	4/26/2023 6:33:39 PM	BW9631
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	4/26/2023 6:33:39 PM	BW9631

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

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 Quanitative 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 3 of 9

Date Reported: 4/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-13

 Project:
 Lateral 2C 15 Sump
 Collection Date: 4/20/2023 11:45:00 AM

 Lab ID:
 2304931-004
 Matrix: AQUEOUS
 Received Date: 4/21/2023 6:30:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene 5.6 2.0 μg/L 2 4/26/2023 6:57:16 PM BW9631 Toluene 89 2.0 μg/L 2 4/26/2023 6:57:16 PM BW9631 98 2.0 Ethylbenzene μg/L 2 4/26/2023 6:57:16 PM BW9631 Xylenes, Total 950 40 μg/L 20 4/28/2023 1:39:51 AM BW9631 Surr: 4-Bromofluorobenzene 162 70-130 %Rec 4/26/2023 6:57:16 PM BW9631

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

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 Quanitative 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 4 of 9

Date Reported: 4/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-5

 Project:
 Lateral 2C 15 Sump
 Collection Date: 4/20/2023 12:15:00 PM

 Lab ID:
 2304931-005
 Matrix: AQUEOUS
 Received Date: 4/21/2023 6:30:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5.0 μg/L 4/26/2023 7:20:51 PM BW9631 Toluene ND 5.0 μg/L 5 4/26/2023 7:20:51 PM BW9631 Ethylbenzene ND 5.0 μg/L 5 4/26/2023 7:20:51 PM BW9631 Xylenes, Total ND 10 μg/L 5 4/26/2023 7:20:51 PM BW9631 Surr: 4-Bromofluorobenzene 95.8 70-130 %Rec 4/26/2023 7:20:51 PM BW9631

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

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 Quanitative 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 5 of 9

Date Reported: 4/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-3

 Project:
 Lateral 2C 15 Sump
 Collection Date: 4/20/2023 12:45:00 PM

 Lab ID:
 2304931-006
 Matrix: AQUEOUS
 Received Date: 4/21/2023 6:30:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene 44 5.0 μg/L 4/26/2023 7:44:26 PM BW9631 Toluene ND 5.0 μg/L 5 4/26/2023 7:44:26 PM BW9631 Ethylbenzene 11 5.0 μg/L 5 4/26/2023 7:44:26 PM BW9631 Xylenes, Total ND 10 μg/L 5 4/26/2023 7:44:26 PM BW9631 Surr: 4-Bromofluorobenzene 108 70-130 %Rec 4/26/2023 7:44:26 PM BW9631

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

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 Quanitative 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 9

Date Reported: 4/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-9

Project: Lateral 2C 15 Sump Collection Date: 4/20/2023 1:25:00 PM

Lab ID: 2304931-007 Matrix: AQUEOUS Received Date: 4/21/2023 6:30:00 AM

Analyses	Result	RL Qu	ıal Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analys	st: JJP
Benzene	1400	100	μg/L	100 4/26/2023 8:07:58 PM	BW9631
Toluene	610	100	μg/L	100 4/26/2023 8:07:58 PM	BW9631
Ethylbenzene	73	20	μg/L	20 4/28/2023 2:03:11 AM	BW9631
Xylenes, Total	540	200	μg/L	100 4/26/2023 8:07:58 PM	BW9631
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	100 4/26/2023 8:07:58 PM	BW9631

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

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 Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 7 of 9

Date Reported: 4/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-1

Project: Lateral 2C 15 Sump **Collection Date:** 4/20/2023 2:00:00 PM

Lab ID: 2304931-008 **Matrix:** AQUEOUS **Received Date:** 4/21/2023 6:30:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	450	5.0	μg/L	5	4/26/2023 8:31:33 PM	BW9631
Toluene	340	5.0	μg/L	5	4/26/2023 8:31:33 PM	BW9631
Ethylbenzene	ND	5.0	μg/L	5	4/26/2023 8:31:33 PM	BW9631
Xylenes, Total	1700	100	μg/L	50	4/28/2023 2:49:50 AM	BW9631
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	5	4/26/2023 8:31:33 PM	BW9631

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

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 Quanitative 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 8 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304931 28-**Apr-23

Client: ENSOLUM

Project: Lateral 2C 15 Sump

Sample ID: 100ng btex Ics	SampT	ype: LC :	s	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	Batch	n ID: BW	/96311	F							
Prep Date:	Analysis D	Date: 4/2	26/2023	9	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	19	1.0	20.00	0	92.7	70	130				
Toluene	19	1.0	20.00	0	94.4	70	130				
Ethylbenzene	19	1.0	20.00	0	93.7	70	130				
Xylenes, Total	57	2.0	60.00	0	94.5	70	130				
Surr: 4-Bromofluorobenzene	20		20.00		100	70	130				

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBW	Batch	ID: BW	/96311	F	RunNo: 96	6311				
Prep Date:	Analysis D	ate: 4/ 2	26/2023	5	SeqNo: 34	188259	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	18		20.00		92.3	70	130			

Sample ID: 2304931-001ams SampType: MS TestCode: EPA Method 8021B									•	
Client ID: MW-11 Batch ID: BW96311 RunNo: 96311										
Prep Date:	Analysis D	oate: 4/ 2	26/2023	9	SeqNo: 34	188765	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.1	70	130			
Toluene	19	1.0	20.00	0	96.1	70	130			
Ethylbenzene	19	1.0	20.00	0	95.2	70	130			
Xylenes, Total	58	2.0	60.00	0	96.9	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		97.9	70	130			

Sample ID: 2304931-001amsd	SampT	SampType: MSD TestCode: EPA Method 8021B: Volatiles										
Client ID: MW-11	Batch	n ID: BW	/96311	F	RunNo: 96	6311						
Prep Date:	Analysis D	Date: 4/2	26/2023	/2023 SeqNo: 3488766 Units: μg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	18	1.0	20.00	0	90.7	70	130	3.73	20			
Toluene	19	1.0	20.00	0	93.3	70	130	3.00	20			
Ethylbenzene	19	1.0	20.00	0	94.4	70	130	0.844	20			
Xylenes, Total	57	2.0	60.00	0	95.6	70	130	1.42	20			
Surr: 4-Bromofluorobenzene	20		20.00		101	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 Quanitative 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 9 of 9



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

Released to Imaging: 4/2/2024 1:23:18 PM

Client Name:	ENSOLUM	1	Work	Order Num	nber: 230	4931		RcptN	o: 1
Received By:	Tracy Cas	sarrubias	4/21/20	23 6:30:00	AM				
Completed By:	Tracy Cas	sarrubias	4/21/20	023 10:39:3	9 AM				
Reviewed By:		21/23							
Chain of Cust	tody								
1. Is Chain of Cu	stody comp	olete?			Yes		No 🗹	Not Present 🗌	
2. How was the s	sample deliv	vered?			Cou	<u>rier</u>			
Log In 3. Was an attem	ot made to	cool the samp	iles?		Yes	V	No 🗌	na 🗆	
4. Were all samp	les received	d at a tempera	ture of >0° C	to 6.0°C	Yes	V	No 🗌	na 🗆	
5. Sample(s) in p	roper conta	iner(s)?			Yes	✓	No 🗆		
6. Sufficient samp	ole volume i	for indicated to	est(s)?		Yes	\checkmark	No 🗌		
7. Are samples (e	except VOA	and ONG) pro	operly preserv	ed?	Yes	\checkmark	No 🗌		
8. Was preservat	ive added to	bottles?			Yes		No 🗹	na 🗌	
9. Received at lea	ast 1 vial wit	th headspace	<1/4" for AQ \	/OA?	Yes	V	No 🗌	NA 🗌	
10. Were any sam	ple containe	ers received b	roken?		Yes		No 🗹	# of preserved	
11. Does paperwoi (Note discrepa)		Yes	V	No 🗌	bottles checked for pH:	or >12 unless noted)
12. Are matrices co	orrectly iden	ntified on Chai	n of Custody?		Yes	\checkmark	No 🗌	Adjusted?	
13. Is it clear what	analyses w	ere requested	?		Yes	V	No 🗌		
14. Were all holdin (If no, notify cu	•				Yes	V	No 🗌	Checked by:	X16 4212
Special Handli	ng (if app	olicable)							
15. Was client not	ified of all d	iscrepancies v	with this order	?	Yes		No 🗆	NA 🗹	
Person N	Notified:			Date				-	
By Whor	n:			Via:	☐ еМ	ail 🗀] Phone [] Fax	☐ In Person	
Regardir	ng:					-			
Client In:	structions:	Phone numb	er missing on	COC- TMC	4/21/23				
16. Additional rem	narks:					ocronic			
17. Cooler Inform	nation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed By	Advantage of the second of the	
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Turn-Around Time:			ator 1 20-15	Project #:	55A1276105	ect Manager:)	K. Simmer	کہ	□ Kes □	# of Coolers: 1		Preservative	Type and # Type	5	7000	003	100	SW	900	100	800			Via:	2	Via: Court	11.
hain-of-Custody Record			Mailing Address: Colo S. Rio Grand, Suited			email or Fax#: Kswwers Ceryson, com Project Manager:	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	Accreditation: Az Compliance NEI AC Other			Cool	Date Time Matrix Sample Name	Madis Odilibie Nalle	1:50 C NV-1	4/29/23 62.35 W WW 12	1120 cm Nun-14	Web3 11:45 4 NW- 43 (3	1:15 w MW-5	4/2/23 W MW-3	4/20/212:25 W NW-9	4/2/k3 14:00 W N/W -1	Thomas		Date: Time: Relinquished by:	Time: Relinatished for	37.X.	10

Released to Imaging 4/2/2024 1:23:18 1977 and the 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

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



July 20, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 2C 15 Sump OrderNo.: 2307473

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/12/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: ENSOLUM

Analytical Report

Lab Order **2307473**Date Reported: **7/20/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-8

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/11/2023 10:20:00 AM

 Lab ID:
 2307473-001
 Matrix: AQUEOUS
 Received Date: 7/12/2023 6:15:00 AM

Analyses Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: CCM Benzene ND 1.0 μg/L 7/17/2023 5:18:00 PM SL98240 Toluene ND 1.0 μg/L 1 7/17/2023 5:18:00 PM SL98240 Ethylbenzene ND 1.0 μg/L 7/17/2023 5:18:00 PM SL98240 Xylenes, Total ND μg/L 1 7/17/2023 5:18:00 PM SL98240 1.5 Surr: 1,2-Dichloroethane-d4 112 70-130 %Rec 7/17/2023 5:18:00 PM SL98240 Surr: Dibromofluoromethane 115 70-130 %Rec 1 7/17/2023 5:18:00 PM SL98240 Surr: Toluene-d8 112 70-130 %Rec 7/17/2023 5:18:00 PM SL98240

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

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 Quanitative 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 1 of 7

Analytical Report

Lab Order 2307473 Date Reported: 7/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-7

Project: Lateral 2C 15 Sump **Collection Date:** 7/11/2023 10:55:00 AM Lab ID: 2307473-002 Matrix: AQUEOUS Received Date: 7/12/2023 6:15:00 AM

Analyses	Result	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 8260B: VOLATILES SHORT LIS	ST.				Analyst	: CCM
Benzene	ND	1.0	μg/L	1	7/17/2023 5:43:00 PM	SL98240
Toluene	ND	1.0	μg/L	1	7/17/2023 5:43:00 PM	SL98240
Ethylbenzene	ND	1.0	μg/L	1	7/17/2023 5:43:00 PM	SL98240
Xylenes, Total	ND	1.5	μg/L	1	7/17/2023 5:43:00 PM	SL98240
Surr: 1,2-Dichloroethane-d4	117	70-130	%Rec	1	7/17/2023 5:43:00 PM	SL98240
Surr: Dibromofluoromethane	117	70-130	%Rec	1	7/17/2023 5:43:00 PM	SL98240
Surr: Toluene-d8	108	70-130	%Rec	1	7/17/2023 5:43:00 PM	SL98240

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

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 Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- RL Reporting Limit

Sample pH Not In Range Page 2 of 7 **CLIENT: ENSOLUM**

Analytical Report

Lab Order 2307473

Date Reported: 7/20/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-6

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/11/2023 11:25:00 AM

 Lab ID:
 2307473-003
 Matrix: AQUEOUS
 Received Date: 7/12/2023 6:15:00 AM

Analyses Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: CCM Benzene ND 1.0 μg/L 7/17/2023 6:08:00 PM SL98240 Toluene ND 1.0 μg/L 1 7/17/2023 6:08:00 PM SL98240 Ethylbenzene ND 1.0 μg/L 7/17/2023 6:08:00 PM SL98240 Xylenes, Total ND μg/L 1 7/17/2023 6:08:00 PM SL98240 1.5 Surr: 1,2-Dichloroethane-d4 118 70-130 %Rec 7/17/2023 6:08:00 PM SL98240 Surr: Dibromofluoromethane 118 70-130 %Rec 1 7/17/2023 6:08:00 PM SL98240 Surr: Toluene-d8 108 70-130 %Rec 7/17/2023 6:08:00 PM SL98240

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

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 Quanitative 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

ele pH Not In Range rting Limit Page 3 of 7

Date Reported: 7/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-10

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/11/2023 12:00:00 PM

 Lab ID:
 2307473-004
 Matrix: AQUEOUS
 Received Date: 7/12/2023 6:15:00 AM

Analyses	Result RL Qual Ur			DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst	: CCM
Benzene	ND	1.0	μg/L	1	7/17/2023 6:33:00 PM	SL98240
Toluene	ND	1.0	μg/L	1	7/17/2023 6:33:00 PM	SL98240
Ethylbenzene	ND	1.0	μg/L	1	7/17/2023 6:33:00 PM	SL98240
Xylenes, Total	ND	1.5	μg/L	1	7/17/2023 6:33:00 PM	SL98240
Surr: 1,2-Dichloroethane-d4	118	70-130	%Rec	1	7/17/2023 6:33:00 PM	SL98240
Surr: Dibromofluoromethane	117	70-130	%Rec	1	7/17/2023 6:33:00 PM	SL98240
Surr: Toluene-d8	107	70-130	%Rec	1	7/17/2023 6:33:00 PM	SL98240

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

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 Quanitative 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 4 of 7

CLIENT: ENSOLUM

Analytical Report

Lab Order **2307473**Date Reported: **7/20/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-2

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/11/2023 12:30:00 PM

Lab ID: 2307473-005 **Matrix:** AQUEOUS **Received Date:** 7/12/2023 6:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst	: CCM
Benzene	1.0	1.0	μg/L	1	7/17/2023 6:57:00 PM	SL98240
Toluene	ND	1.0	μg/L	1	7/17/2023 6:57:00 PM	SL98240
Ethylbenzene	ND	1.0	μg/L	1	7/17/2023 6:57:00 PM	SL98240
Xylenes, Total	ND	1.5	μg/L	1	7/17/2023 6:57:00 PM	SL98240
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	7/17/2023 6:57:00 PM	SL98240
Surr: Dibromofluoromethane	113	70-130	%Rec	1	7/17/2023 6:57:00 PM	SL98240
Surr: Toluene-d8	111	70-130	%Rec	1	7/17/2023 6:57:00 PM	SL98240

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

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 Quanitative 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 5 of 7

Date Reported: 7/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-4

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/11/2023 1:00:00 PM

 Lab ID:
 2307473-006
 Matrix: AQUEOUS
 Received Date: 7/12/2023 6:15:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch	
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst	: CCM	
Benzene	ND	1.0	μg/L	1	7/17/2023 7:22:00 PM	SL98240	
Toluene	ND	1.0	μg/L	1	7/17/2023 7:22:00 PM	SL98240	
Ethylbenzene	ND	1.0	μg/L	1	7/17/2023 7:22:00 PM	SL98240	
Xylenes, Total	ND	1.5	μg/L	1	7/17/2023 7:22:00 PM	SL98240	
Surr: 1,2-Dichloroethane-d4	112	70-130	%Rec	1	7/17/2023 7:22:00 PM	SL98240	
Surr: Dibromofluoromethane	116	70-130	%Rec	1	7/17/2023 7:22:00 PM	SL98240	
Surr: Toluene-d8	112	70-130	%Rec	1	7/17/2023 7:22:00 PM	SL98240	

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

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 Quanitative 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 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2307473

WO#:

20-Jul-23

Client: ENSOLUM

Project: Lateral 2C 15 Sump

Sample ID: 100ng lcs	SampT	ype: LC	S	TestCode: EPA Method 8260B: Volatiles Short List											
Client ID: LCSW	Batch	n ID: SL	98240	F	RunNo: 98										
Prep Date:	Analysis D	Date: 7/	17/2023	5	SeqNo: 3	578013	Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	20	1.0	20.00	0	98.6	70	130								
Toluene	20	1.0	20.00	0	102	70	130								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130								
Surr: 4-Bromofluorobenzene	12		10.00		116	70	130								
Surr: Dibromofluoromethane	11		10.00		108	70	130								
Surr: Toluene-d8	11		10.00		110	70	130								

Sample ID: mb	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBW	Batch	n ID: SL	98240	RunNo: 98240										
Prep Date:	Analysis D)ate: 7/	17/2023	;	SeqNo: 3	578014	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	1.5												
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130							
Surr: 4-Bromofluorobenzene	12		10.00		115	70	130							
Surr: Dibromofluoromethane	11		10.00		110	70	130							
Surr: Toluene-d8	11		10.00		108	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 Quanitative Limit
- 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 7 of 7

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

Released to Imaging: 4/2/2024 1:23:18 PM

Client Name: ENSOLUM	Work Order	Number: 2307473		RcptNo: 1	
Received By: Tracy Casa	nrrubias 7/12/2023 6:1	5:00 AM			
Completed By: Tracy Casa	arrubias 7/12/2023 11	:32:01 AM			
Reviewed By: 70 7/	12/23				
Chain of Custody					
Is Chain of Custody comple	ete?	Yes 🗌	No 🔽	Not Present 🗌	
2. How was the sample delive	ered?	Courier			
Log In	and the annual to 2	Yes 🗸	No 🗌	na 🗌	
3. Was an attempt made to co	ooi the samples?	res 💌	NU L	IVA LJ	
4. Were all samples received	at a temperature of >0° C to 6.0°	°C Yes 🗸	No 🗌	NA \square	
5. Sample(s) in proper contain	ner(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for	or indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA a	and ONG) properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to	bottles?	Yes	No 🗹	NA \square	
9. Received at least 1 vial with	n headspace <1/4" for AQ VOA?	Yes 🗹	No 🗌	NA 🗆	Į.
10. Were any sample containe	rs received broken?	Yes 🗆	No 🔽	# of preserved	
11. Does paperwork match bott (Note discrepancies on cha		Yes 🗸	No 🗌	bottles checked for pH:	unless noted)
12. Are matrices correctly ident	- 10	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses we		Yes 🗸	No 🗌		11
14. Were all holding times able (If no, notify customer for an		Yes 🗹	No 🗌	Checked by:	7.12.23
Special Handling (if app	licable)				
15. Was client notified of all dis	screpancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:		Date:			
By Whom:	The Print of State of the State	Via: eMail P	hone 🗌 Fax	☐ In Person	
Regarding:		Manager Courses Substantial Course Page		CONTRACTOR OF THE PARTY	
Client Instructions:	Phone number is missing on CO	C- TMC 7/12/23			
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C 1 3.7	Condition Seal Intact Sea Good Yes yes	il No Seal Date	Signed By		

HALL ENVIRONMENTAL		www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	sis Requ	(O)	5' PO₄, POSIMS PCB's	ON 'E	D(G) bod bots Ores Meta NO (A	1.8015 3 (Met 4s by 8 RA 8 N F, Br, 70 (VO	808 SDH	×	<u> </u>	×	<u> </u>	9,	*			Remarks: 1 your Vor was dropped and	Till to Fire line	1111 11 111 111 111 111 111 111 111 11	notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	A Standard		Let Lateral 2C-15 Suno	1001	0501226215	Project Manager:	K. Semmers	Sampler: L. Vanie II	ers: 1	mp(including CF): State Control Contro	Type 28	TX40mLVON-HACIS (00)	> / 002	5003	HOO	500	2000			Regeived by: Via: Date Time	Received by: Via: Co. A. T. Date Time	7/2/13	
Chain-of-Custody Record	Client: Scolo w LLC		Mailing Address: 100, 5, 8, a Grande, Su. Jef			Fax#: 1- Surum ars Againsolum	QA/QC Package:	creditation: Az Compliance NELAC Other	уре)		Date Time Matrix Sample Name	2/4/2 18:30 S. W. W B	3	11:25	3, 00,2)	3	13:00			Date: Time: Relinquished by:	Note: Religious by:	3 1816	_

Released to Imaging: 4/2/2024 1:23:18 PM



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

July 26, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 2C 15 Sump OrderNo.: 2307555

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/13/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2307555

Date Reported: 7/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-8

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/12/2023 9:10:00 AM

 Lab ID:
 2307555-001
 Matrix: AQUEOUS
 Received Date: 7/13/2023 7:05:00 AM

Analyses Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: CCM Benzene ND 1.0 μg/L 7/17/2023 8:36:00 PM SL98240 Toluene ND 1.0 μg/L 1 7/17/2023 8:36:00 PM SL98240 Ethylbenzene ND 1.0 μg/L 7/17/2023 8:36:00 PM SL98240 Xylenes, Total ND μg/L 1 7/17/2023 8:36:00 PM SL98240 1.5 Surr: 1,2-Dichloroethane-d4 111 70-130 %Rec 7/17/2023 8:36:00 PM SL98240 Surr: Dibromofluoromethane 117 70-130 %Rec 1 7/17/2023 8:36:00 PM SL98240 Surr: Toluene-d8 112 70-130 %Rec 7/17/2023 8:36:00 PM SL98240

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

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 Quanitative 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 1 of 10

Analytical Report

Lab Order 2307555

Date Reported: 7/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-11

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/12/2023 9:40:00 AM

 Lab ID:
 2307555-002
 Matrix: AQUEOUS
 Received Date: 7/13/2023 7:05:00 AM

Analyses Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: CCM Benzene ND 1.0 μg/L 7/17/2023 9:01:00 PM SL98240 Toluene ND 1.0 μg/L 1 7/17/2023 9:01:00 PM SL98240 Ethylbenzene ND 1.0 μg/L 7/17/2023 9:01:00 PM SL98240 Xylenes, Total ND μg/L 1 7/17/2023 9:01:00 PM SL98240 1.5 Surr: 1,2-Dichloroethane-d4 117 70-130 %Rec 7/17/2023 9:01:00 PM SL98240 Surr: Dibromofluoromethane 118 70-130 %Rec 1 7/17/2023 9:01:00 PM SL98240 Surr: Toluene-d8 108 70-130 %Rec 7/17/2023 9:01:00 PM SL98240

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

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 Quanitative 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 2 of 10

Lab Order 2307555

Date Reported: 7/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-12

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/12/2023 10:15:00 AM

 Lab ID:
 2307555-003
 Matrix: AQUEOUS
 Received Date: 7/13/2023 7:05:00 AM

Analyses	Result	RL Qual Units			Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst	: CCM
Benzene	ND	1.0	μg/L	1	7/17/2023 9:25:00 PM	SL98240
Toluene	ND	1.0	μg/L	1	7/17/2023 9:25:00 PM	SL98240
Ethylbenzene	ND	1.0	μg/L	1	7/17/2023 9:25:00 PM	SL98240
Xylenes, Total	ND	1.5	μg/L	1	7/17/2023 9:25:00 PM	SL98240
Surr: 1,2-Dichloroethane-d4	116	70-130	%Rec	1	7/17/2023 9:25:00 PM	SL98240
Surr: Dibromofluoromethane	118	70-130	%Rec	1	7/17/2023 9:25:00 PM	SL98240
Surr: Toluene-d8	109	70-130	%Rec	1	7/17/2023 9:25:00 PM	SL98240

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

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 Quanitative 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 3 of 10

Lab Order 2307555

Date Reported: 7/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-14

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/12/2023 10:50:00 AM

 Lab ID:
 2307555-004
 Matrix: AQUEOUS
 Received Date: 7/13/2023 7:05:00 AM

Analyses	Result	esult RL Qual Units			Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst	:: CCM
Benzene	ND	1.0	μg/L	1	7/17/2023 9:50:00 PM	SL98240
Toluene	ND	1.0	μg/L	1	7/17/2023 9:50:00 PM	SL98240
Ethylbenzene	ND	1.0	μg/L	1	7/17/2023 9:50:00 PM	SL98240
Xylenes, Total	ND	1.5	μg/L	1	7/17/2023 9:50:00 PM	SL98240
Surr: 1,2-Dichloroethane-d4	118	70-130	%Rec	1	7/17/2023 9:50:00 PM	SL98240
Surr: Dibromofluoromethane	117	70-130	%Rec	1	7/17/2023 9:50:00 PM	SL98240
Surr: Toluene-d8	109	70-130	%Rec	1	7/17/2023 9:50:00 PM	SL98240

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

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 Quanitative 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 4 of 10

Lab Order 2307555

Date Reported: 7/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-13

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/12/2023 11:20:00 AM

 Lab ID:
 2307555-005
 Matrix: AQUEOUS
 Received Date: 7/13/2023 7:05:00 AM

Analyses	Result	RL Qual Units			Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst	CCM
Benzene	ND	2.0	μg/L	2	7/17/2023 10:39:00 PM	SL98240
Toluene	8.8	2.0	μg/L	2	7/17/2023 10:39:00 PM	SL98240
Ethylbenzene	35	2.0	μg/L	2	7/17/2023 10:39:00 PM	SL98240
Xylenes, Total	410	3.0	μg/L	2	7/17/2023 10:39:00 PM	SL98240
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	2	7/17/2023 10:39:00 PM	SL98240
Surr: Dibromofluoromethane	108	70-130	%Rec	2	7/17/2023 10:39:00 PM	SL98240
Surr: Toluene-d8	123	70-130	%Rec	2	7/17/2023 10:39:00 PM	SL98240

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

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 Quanitative 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 5 of 10

Lab Order 2307555

Date Reported: 7/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-5

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/12/2023 11:55:00 AM

 Lab ID:
 2307555-006
 Matrix: AQUEOUS
 Received Date: 7/13/2023 7:05:00 AM

Analyses	Result	RL Qual Units			Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst	:: CCM
Benzene	5.1	5.0	μg/L	5	7/18/2023 1:42:00 PM	SL98286
Toluene	ND	5.0	μg/L	5	7/18/2023 1:42:00 PM	SL98286
Ethylbenzene	9.8	5.0	μg/L	5	7/18/2023 1:42:00 PM	SL98286
Xylenes, Total	18	7.5	μg/L	5	7/18/2023 1:42:00 PM	SL98286
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	5	7/18/2023 1:42:00 PM	SL98286
Surr: Dibromofluoromethane	111	70-130	%Rec	5	7/18/2023 1:42:00 PM	SL98286
Surr: Toluene-d8	111	70-130	%Rec	5	7/18/2023 1:42:00 PM	SL98286

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

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 Quanitative 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 10

Lab Order 2307555

Date Reported: 7/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-3

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/12/2023 12:25:00 PM

 Lab ID:
 2307555-007
 Matrix: AQUEOUS
 Received Date: 7/13/2023 7:05:00 AM

Analyses	Result	RL Qual Units			Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT LIS	S T				Analyst	: CCM
Benzene	31	5.0	μg/L	5	7/18/2023 2:56:00 PM	SL98286
Toluene	ND	5.0	μg/L	5	7/18/2023 2:56:00 PM	SL98286
Ethylbenzene	7.3	5.0	μg/L	5	7/18/2023 2:56:00 PM	SL98286
Xylenes, Total	ND	7.5	μg/L	5	7/18/2023 2:56:00 PM	SL98286
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	5	7/18/2023 2:56:00 PM	SL98286
Surr: Dibromofluoromethane	113	70-130	%Rec	5	7/18/2023 2:56:00 PM	SL98286
Surr: Toluene-d8	109	70-130	%Rec	5	7/18/2023 2:56:00 PM	SL98286

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

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 Quanitative 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 7 of 10

Lab Order **2307555**

Date Reported: 7/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-9

 Project:
 Lateral 2C 15 Sump
 Collection Date: 7/12/2023 12:55:00 PM

 Lab ID:
 2307555-008
 Matrix: AQUEOUS
 Received Date: 7/13/2023 7:05:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst	: CCM
Benzene	2100	50	μg/L	50	7/18/2023 3:20:00 PM	SL98286
Toluene	840	50	μg/L	50	7/18/2023 3:20:00 PM	SL98286
Ethylbenzene	200	5.0	μg/L	5	7/18/2023 3:45:00 PM	SL98286
Xylenes, Total	1300	75	μg/L	50	7/18/2023 3:20:00 PM	SL98286
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	5	7/18/2023 3:45:00 PM	SL98286
Surr: Dibromofluoromethane	105	70-130	%Rec	5	7/18/2023 3:45:00 PM	SL98286
Surr: Toluene-d8	114	70-130	%Rec	5	7/18/2023 3:45:00 PM	SL98286

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

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 Quanitative 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
- RL Reporting Limit

Sample pH Not In Range
Reporting Limit Page 8 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307555**

26-Jul-23

Client: ENSOLUM

Project: Lateral 2C 15 Sump

Sample ID: 100ng Ics	SampT	SampType: LCS TestCode: EPA Method 8						es Short I	_ist	
Client ID: LCSW	Batch	Batch ID: \$L98240 RunNo: 98240								
Prep Date:	Analysis D	ate: 7/	e: 7/17/2023 SeqNo: 3578013				Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.6	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		116	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	11		10.00		110	70	130			

Sample ID: mb	SampT	SampType: MBLK TestCode: EPA Method						les Short	List	
Client ID: PBW	Batch	ID: SL	98240	F	RunNo: 98	3240				
Prep Date:	Analysis D	ate: 7/	17/2023	5	SeqNo: 3578014 Units: μg/					
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	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		115	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	11		10.00		108	70	130			

Sample ID: 100ng Ics	SampT	SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSW	Batch	n ID: SL	98286	RunNo: 98286						
Prep Date:	Analysis D)ate: 7/	18/2023	5	SeqNo: 3	578531	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130			
Surr: Dibromofluoromethane	11		10.00		113	70	130			
Surr: Toluene-d8	11		10.00		109	70	130			

Sample ID: MB	SampT	уре: МВ	LK	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBW	Batch	Batch ID: SL98286				RunNo: 98286					
Prep Date:	Analysis D	sis Date: 7/18/2023			SeqNo: 3578532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									

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 Quanitative 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 9 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307555 26-Jul-23**

Client: ENSOLUM

Project: Lateral 2C 15 Sump

Sample ID: MB	SampT	SampType: MBLK TestCode: EPA Method 82				8260B: Volati	les Short	List		
Client ID: PBW	Batch	Batch ID: SL98286 RunNo: 98			3286					
Prep Date:	Analysis Date: 7/18/2023			5	SeqNo: 3578532 Units: μg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	12		10.00		117	70	130			
Surr: Toluene-d8	11		10.00		109	70	130			

Sample ID: 2307555-006ams	Samp1	Гуре: М S	3	Tes	tCode: EF	PA Method	Method 8260B: Volatiles Short List					
Client ID: MW-5	Batch	Batch ID: \$L98286 RunNo: 98286										
Prep Date:	Analysis D	Analysis Date: 7/18/2023 SeqNo:				3578534 Units: μg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	110	5.0	100.0	5.080	107	70	130					
Toluene	100	5.0	100.0	0	102	70	130					
Surr: 1,2-Dichloroethane-d4	54		50.00		108	70	130					
Surr: 4-Bromofluorobenzene	58		50.00		116	70	130					
Surr: Dibromofluoromethane	56		50.00		112	70	130					
Surr: Toluene-d8	55		50.00		110	70	130					

Sample ID: 2307555-006amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8260B: Volatil	es Short I	List	
Client ID: MW-5	Batch	n ID: SL	98286	F	RunNo: 98	3286				
Prep Date:	Analysis D)ate: 7/	18/2023	5	SeqNo: 3	578535	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	110	5.0	100.0	5.080	100	70	130	6.03	20	
Toluene	96	5.0	100.0	0	96.0	70	130	6.16	20	
Surr: 1,2-Dichloroethane-d4	55		50.00		109	70	130	0	0	
Surr: 4-Bromofluorobenzene	58		50.00		116	70	130	0	0	
Surr: Dibromofluoromethane	57		50.00		114	70	130	0	0	
Surr: Toluene-d8	55		50.00		110	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 Quanitative 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 10 of 10

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

Released to Imaging: 4/2/2024 1:23:18 PM

Client Name: ENSOLUM	Work Order Num	iber: 2307555		RcptNo: 1	
Received By: Juan Rojas	7/13/2023 7:05:00	АМ	Hansay		
Completed By: Cheyenne C	ason 7/13/2023 9:54:33	AM	(June)		
NA.	· 23		Chris		
The viewed by:	, -,				
Chain of Custody					
Is Chain of Custody comple	te?	Yes 🗹	No 🗌	Not Present	
2. How was the sample deliver	ed?	Courier			
<u>Log In</u>					
3. Was an attempt made to co	ol the samples?	Yes 🗸	No 🗌	na 🗌	
Were all samples received a	t a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
Sample(s) in proper contain	er(s)?	Yes 🗹	No 🗌		
C. Sufficient cample valume for	indicated tast/s)2	Yes 🗹	No 🗌		
 Sufficient sample volume for Are samples (except VOA a 		Yes 🗹	No 🗆		
Was preservative added to I		Yes	No 🗹	NA 🗌	
9. Received at least 1 vial with	handanaco <1/4" for AO VOA?	Yes 🗹	No 🗌	NA 🗌	
10. Were any sample container	•	Yes	No 🗹		
10. Were any sample container	3 TOOCIVED BIONOIT.		app. 14 - 14	# of preserved bottles checked	
11. Does paperwork match bott		Yes 🗹	No 🗆	for pH: (<2 or >12	unless noted)
(Note discrepancies on chains) 12 Are matrices correctly ident		Yes 🗸	No 🗆	Adjusted?	
13. Is it clear what analyses we		Yes 🗹	No 🗌		11007
14. Were all holding times able		Yes 🗹	No 🗆 📗	Checked by: 1V	+113/63
(If no, notify customer for a	ithorization.)		I		
Special Handling (if app	licable)				
15. Was client notified of all dis	screpancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Da	te:			
By Whom:	Via	: eMail	Phone Fax	☐ In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C	Condition Seal Intact Seal No	Seal Date	Signed By		
Cooler No Lerrih C	Condition Ocal mace Ocal No	. Cour Date	gc. Dj		

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HALL ENVIRONMENTAL	1	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	/sis Requ	[†] OS ; ;	3'≤ (802 3' PCB'≤ 2' PO₄,	2808/2898/285/208/20/20/20/20/20/20/20/20/20/20/20/20/20/	iD(Gl thod thod s310 Meta NO (Ac	H:8015 B (Met Hs by F, Br, F, Br, TO (Se	TPI 808 826 ED ED ED	×	×	`\		X	×	×	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Remarks:	ひごす	wie sample	The www is not enough
Turn-Around Time:	X Standard	Project Name:	Lateral 2C-155ump	Project #:	0541226105	Project Manager:	K. Sammess	Sampler: L.Oanie 11 On Ice: 174es 10	# of Coolers: 1	Container Breservative HEAL No.	# Type 7.3	2x400160 Hall, 001	3x 40 Wah	003	000	605	900	007	800		Received by: Via., Date Time	-1 Jag 7/12/13 15	Received by: Via: Date Time	1 5 COLO 2 2 0
Chain-of-Custody Record	Client: En Solvas		Mailing Address: 606 S. Ris Cress Les	87418		Tax#: Ksumon Gonsolinion	QA/QC Package: □ Standard □ Level 4 (Full Validation)	☐ Az Compliance ☐ Other			Date Time Matrix Sample Name	2/12/22 9-10 WW-B	020	3	3	3	3	3	7		Timo: Dolinariishad hv.	c	Date: Time: Relingdistred by:	1 (10 1 C) 1 CM 1 CO O F

Peleased to Imaging: 4/2/2024 1:23:18 PM



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 15, 2023

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603

FAX:

RE: Lateral 2C 15 Sump OrderNo.: 2311003

Dear Kyle Summers:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 11/1/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 2311003

Date Reported: 11/15/2023

Hall Environmental Analysis Laboratory, Inc.

_

CLIENT: ENSOLUM Lab Order: 2311003

Project: Lateral 2C 15 Sump

Lab ID: 2311003-001 **Collection Date:** 10/31/2023 10:50:00 AM

Client Sample ID: MW-8 Matrix: AQUEOUS

RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 11/10/2023 8:03:00 PM Benzene 1.0 µg/L **BW101** Toluene ND 11/10/2023 8:03:00 PM 1.0 µg/L Ethylbenzene ND 1.0 µg/L 1 11/10/2023 8:03:00 PM **BW101** Xylenes, Total ND 20 µg/L 1 11/10/2023 8:03:00 PM **BW101** Surr: 4-Bromofluorobenzene 107 %Rec 11/10/2023 8:03:00 PM BW101 52.4-148

Lab ID: 2311003-002 **Collection Date:** 10/31/2023 11:25:00 AM

Client Sample ID: MW-7 Matrix: AQUEOUS

Result RL Qual Units DF Date Analyzed Analyses Batch ID **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 11/10/2023 8:24:00 PM BW 101 1.0 μg/L 1 Toluene ND µg/L 11/10/2023 8:24:00 PM BW101 1.0 Ethylbenzene NΠ **BW101** 1.0 µg/L 1 11/10/2023 8:24:00 PM Xylenes, Total ND 2.0 µg/L 1 11/10/2023 8:24:00 PM BW 101 Surr: 4-Bromofluorobenzene 103 %Rec 11/10/2023 8:24:00 PM BW101 52.4-148

Lab ID: 2311003-003 **Collection Date:** 10/31/2023 12:00:00 PM

Client Sample ID: MW-6 Matrix: AQUEOUS

RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 1.0 μg/L 11/10/2023 8:46:00 PM BW 101 1 Toluene ND 1.0 µg/L 11/10/2023 8:46:00 PM BW101 Ethylbenzene ND 1.0 **BW101** μg/L 1 11/10/2023 8:46:00 PM Xylenes, Total ND 11/10/2023 8:46:00 PM BW101 2.0 µg/L 1 Surr: 4-Bromofluorobenzene 104 52.4-148 %Rec 11/10/2023 8:46:00 PM BW 101

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

- * 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 Quanitative Limi
- 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

Lab Order: 2311003

Date Reported: 11/15/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Lab Order: 2311003

Project: Lateral 2C 15 Sump

Lab ID: 2311003-004 **Collection Date:** 10/31/2023 12:35:00 PM

Client Sample ID: MW-10 Matrix: AQUEOUS

RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 11/10/2023 9:08:00 PM BW 101 Benzene 1.0 µg/L Toluene ND µg/L 11/10/2023 9:08:00 PM 1.0 Ethylbenzene ND 1.0 µg/L 1 11/10/2023 9:08:00 PM **BW101** Xylenes, Total 11/10/2023 9:08:00 PM BW101 ND 2.0 µg/L 1 Surr: 4-Bromofluorobenzene 104 %Rec 11/10/2023 9:08:00 PM BW101 52.4-148

Lab ID: 2311003-005 **Collection Date:** 10/31/2023 1:15:00 PM

Client Sample ID: MW-2 Matrix: AQUEOUS

Result RL Qual Units DF Date Analyzed **Batch ID** Analyses **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 11/10/2023 9:30:00 PM BW 101 1.0 μg/L 1 Toluene ND 1.0 µg/L 11/10/2023 9:30:00 PM ND Ethylbenzene BW101 1.0 µg/L 1 11/10/2023 9:30:00 PM Xylenes, Total 2.6 2.0 μg/L 1 11/10/2023 9:30:00 PM Surr: 4-Bromofluorobenzene 101 52.4-148 %Rec 11/10/2023 9:30:00 PM BW101

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

- * 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 Quanitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311003**

15-Nov-23

Client: ENSOLUM

Project: Lateral 2C 15 Sump

Sample ID: 100ng btex lcs	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSW	ı ID: BW	/101095	F	RunNo: 10	01095								
Prep Date:	Analysis D)ate: 11	/10/2023	5	SeqNo: 37	713288	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	19	1.0	20.00	0	96.6	70	130						
Toluene	19	1.0	20.00	0	97.4	70	130						
Ethylbenzene	20	1.0	20.00	0	99.9	70	130						
Xylenes, Total	60	2.0	60.00	0	99.5	70	130						
Surr: 4-Bromofluorobenzene	20		20.00		101	52.4	148						

Sample ID: mb	SampT	ype: MB	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les						
Client ID: PBW	Batch	ID: BW	/101095	F	RunNo: 10	01095								
Prep Date:	Analysis D	ate: 11	/10/2023	5	SeqNo: 37	713289	Units: µg/L		PD RPDLimit Qual					
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		98.8	52.4	148							

Sample ID: 2311003-001ams	SampT	уре: МЅ	3	Tes	tCode: Ef	PA Method	8021B: Volati	les		
Client ID: MW-8	Batcl	n ID: BW	/101095	F	RunNo: 10	01095				
Prep Date:	Analysis D	Date: 11	/10/2023	5	SeqNo: 37	713296	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	70	130			
Toluene	20	1.0	20.00	0	99.6	70	130			
Ethylbenzene	20	1.0	20.00	0	98.9	70	130			
Xylenes, Total	61	2.0	60.00	1.286	99.0	70	130			
Surr: 4-Bromofluorobenzene	22		20.00		110	52.4	148			

Sample ID: 2311003-001amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: MW-8	Batch	ID: BW	/101095	F	RunNo: 10	1095				
Prep Date:	Analysis D	ate: 11	/10/2023	5	SeqNo: 37	713297	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.8	70	130	1.25	20	
Toluene	20	1.0	20.00	0	99.2	70	130	0.397	20	
Ethylbenzene	19	1.0	20.00	0	96.9	70	130	2.09	20	
Xylenes, Total	59	2.0	60.00	1.286	96.8	70	130	2.27	20	
Surr: 4-Bromofluorobenzene	21		20.00		104	52.4	148	0	0	

- 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 Quanitative 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

Released to Imaging: 4/2/2024 1:23:18 PM

Client Name: ENSOLU	М	Work	Order Numb	er: 231	1003			RcptNo	p: 1
Received By: Tracy C	asarrubias	11/1/20	23 6:15:00 A	M					
Completed By: Tracy C	asarrubias	11/1/20	23 7:16:01 A	М					
	11/1/23								
Chain of Custody									
1. Is Chain of Custody con	plete?			Yes		No	✓	Not Present	
2. How was the sample de	livered?			<u>Cou</u>	<u>rier</u>				
Log In 3. Was an attempt made to	cool the sampl	es?		Yes	V	No		na 🗆	
4. Were all samples receive	ed at a tempera	ture of >0° C	to 6.0°C	Yes	V	No		na 🗆	
5. Sample(s) in proper con	tainer(s)?			Yes	✓	No			
6. Sufficient sample volume	e for indicated te	est(s)?		Yes	V	No			
7. Are samples (except VO.	A and ONG) pro	perly preserve	ed?	Yes	✓	No			
8. Was preservative added	to bottles?			Yes		No	✓	NA 🗌	
9. Received at least 1 vial v	vith headspace	<1/4" for AQ V	OA?	Yes	V	No		NA 🗌	
10. Were any sample contai	ners received b	roken?		Yes	Ш	No	✓	# of preserved bottles checked	/
11.Does paperwork match b (Note discrepancies on c)		Yes	V	No		for pH:	or >12 unless noted
12. Are matrices correctly ide	entified on Chair	n of Custody?		Yes	✓	No		Adjusted?	
13. Is it clear what analyses	were requested	?		Yes	V	No			11
Were all holding times al (If no, notify customer for				Yes	✓	No		Checked by:	11-1-23
Special Handling (if a	oplicable)							6	//
15. Was client notified of all	discrepancies v	vith this order?	>	Yes		No		NA 🗹	
Person Notified:	-	ernenieironanenae	Date:		-		minima		
By Whom:		TANK TO LEAVE	Via:	□ eM	ail [] Phone [Fax	In Person	
Regarding:		-		-22			-		
Client Instructions	Phone numb	er is missing o	n COC- TMC	11/1/23	3	AND RESTRICTION OF THE PARTY OF	***************************************		
16. Additional remarks:									
17. Cooler Information Cooler No Temp Output Temp Out	C Condition	Seal Intact	Sool No.	Coal D	ato	Ciarad !).,		
1 1.6	Good	Yes	Seal No Yogi	Seal D	ate	Signed I	ру		

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Record	<u>iii</u> e	HALL ENVIRONMENTAL
Ensolum, LLC	Standard 🗆 Rush	ANALYSIS LABORATORY
j		www.hallenvironmental.com
Mailing Address: LOG & Parke Suite	Lateral 26-15 Sump	4901 Hawkins NE - Albuquerque, NM 87109
Azsec, NIN 87410	Project #:	Tel. 505-345-3975 Fax 505-345-4107
	05A1226105	Analysis Request
email or Fax#: hzwwers@ensolun, con	Project Manager:	†OS
VQC Package:		oO⁴; sims o \ we
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Accreditation: ☐ Az Compliance	Sampler: Nes 🗆 No	308\208\208\208\208\308\308\308\308\308\308\308\308\308\3
	olers: 1	(GR policies) prolicies p
	Cooler Temp(including CF): 1.V - Ø* 1.6 -c (°C)	15D letho yy 83 gr, 1 sr, 1
	Container Preservative HEAL No.	EX / H:80 (N F; E E C (N E) E E E E E E E E E E E E E E E E E E
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	This canage as notice of this	This same as police of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 4/2/2024 1:23:18 PM



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 17, 2023

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603

FAX:

RE: Lateral 2C 15 Sump OrderNo.: 2311120

Dear Kyle Summers:

Eurofins Environment Testing South Central, LLC received 9 sample(s) on 11/2/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2311120**Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-4

Project: Lateral 2C 15 Sump Collection Date: 11/1/2023 9:20:00 AM

Lab ID: 2311120-001 **Matrix:** AQUEOUS **Received Date:** 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: RAA
Benzene	ND	1.0	μg/L	1	11/11/2023 10:28:00 P	M BW1011:
Toluene	ND	1.0	μg/L	1	11/11/2023 10:28:00 P	M BW1011
Ethylbenzene	ND	1.0	μg/L	1	11/11/2023 10:28:00 P	M BW1011:
Xylenes, Total	ND	2.0	μg/L	1	11/11/2023 10:28:00 P	M BW1011
Surr: 4-Bromofluorobenzene	101	52.4-148	%Rec	1	11/11/2023 10:28:00 P	M BW1011:

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

- * 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 Quanitative 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

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-11

Project: Lateral 2C 15 Sump Collection Date: 11/1/2023 9:55:00 AM

Lab ID: 2311120-002 **Matrix:** AQUEOUS **Received Date:** 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: RAA
Benzene	ND	1.0	μg/L	1	11/11/2023 10:50:00 F	M BW1011:
Toluene	ND	1.0	μg/L	1	11/11/2023 10:50:00 F	M BW1011:
Ethylbenzene	ND	1.0	μg/L	1	11/11/2023 10:50:00 F	M BW1011:
Xylenes, Total	ND	2.0	μg/L	1	11/11/2023 10:50:00 F	M BW1011
Surr: 4-Bromofluorobenzene	102	52.4-148	%Rec	1	11/11/2023 10:50:00 F	M BW1011:

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

- * 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 Quanitative 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

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-12

 Project:
 Lateral 2C 15 Sump
 Collection Date: 11/1/2023 10:20:00 AM

 Lab ID:
 2311120-003
 Matrix: AQUEOUS
 Received Date: 11/2/2023 6:45:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 1.0 μg/L 11/11/2023 11:12:00 PM BW1011; Toluene ND 1.0 μg/L 11/11/2023 11:12:00 PM BW1011; 1 Ethylbenzene ND 1.0 μg/L 11/11/2023 11:12:00 PM BW1011: Xylenes, Total ND 2.0 μg/L 1 11/11/2023 11:12:00 PM BW1011; Surr: 4-Bromofluorobenzene 100 52.4-148 %Rec 11/11/2023 11:12:00 PM BW1011;

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

- 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 Quanitative 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

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-14

 Project:
 Lateral 2C 15 Sump
 Collection Date: 11/1/2023 10:50:00 AM

 Lab ID:
 2311120-004
 Matrix: AQUEOUS
 Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: RAA
Benzene	ND	1.0	μg/L	1	11/11/2023 11:34:00 P	M BW1011
Toluene	ND	1.0	μg/L	1	11/11/2023 11:34:00 P	M BW1011
Ethylbenzene	ND	1.0	μg/L	1	11/11/2023 11:34:00 P	M BW1011
Xylenes, Total	ND	2.0	μg/L	1	11/11/2023 11:34:00 P	M BW1011
Surr: 4-Bromofluorobenzene	101	52.4-148	%Rec	1	11/11/2023 11:34:00 P	M BW1011

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

- * 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 Quanitative 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

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-13

 Project:
 Lateral 2C 15 Sump
 Collection Date: 11/1/2023 11:25:00 AM

 Lab ID:
 2311120-005
 Matrix: AQUEOUS
 Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Qւ	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: RAA
Benzene	ND	2.0	μg/L	5	11/11/2023 11:55:00 P	M BW1011;
Toluene	5.7	2.0	μg/L	5	11/11/2023 11:55:00 P	M BW1011:
Ethylbenzene	52	2.0	μg/L	5	11/11/2023 11:55:00 P	M BW1011:
Xylenes, Total	180	4.0	μg/L	5	11/11/2023 11:55:00 P	M BW1011:
Surr: 4-Bromofluorobenzene	119	52.4-148	%Rec	5	11/11/2023 11:55:00 P	M BW1011:

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

- * 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 Quanitative 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

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-5

Project: Lateral 2C 15 Sump Collection Date: 11/1/2023 11:55:00 AM Lab ID: 2311120-006 Matrix: AQUEOUS Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: RAA
Benzene	4.9	1.0	μg/L	1	11/12/2023 12:17:00 A	M BW1011;
Toluene	ND	1.0	μg/L	1	11/12/2023 12:17:00 A	M BW1011;
Ethylbenzene	3.0	1.0	μg/L	1	11/12/2023 12:17:00 A	M BW1011;
Xylenes, Total	8.3	2.0	μg/L	1	11/12/2023 12:17:00 A	M BW1011;
Surr: 4-Bromofluorobenzene	103	52.4-148	%Rec	1	11/12/2023 12:17:00 A	M BW1011;

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

- 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 Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Lab Order 2311120 Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-3

Project: Lateral 2C 15 Sump Collection Date: 11/1/2023 12:35:00 PM

Lab ID: 2311120-007 Matrix: AQUEOUS Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: RAA
Benzene	26	1.0	μg/L	1	11/12/2023 12:39:00 A	M BW1011:
Toluene	ND	1.0	μg/L	1	11/12/2023 12:39:00 A	M BW1011;
Ethylbenzene	5.3	1.0	μg/L	1	11/12/2023 12:39:00 A	M BW1011;
Xylenes, Total	9.3	2.0	μg/L	1	11/12/2023 12:39:00 A	M BW1011:
Surr: 4-Bromofluorobenzene	148	52.4-148	%Rec	1	11/12/2023 12:39:00 A	M BW1011;

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

- 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 Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

CLIENT: ENSOLUM

Analytical Report Lab Order 2311120

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-9

Project: Lateral 2C 15 Sump **Collection Date:** 11/1/2023 1:20:00 PM

Lab ID: 2311120-008 **Matrix:** AQUEOUS **Received Date:** 11/2/2023 6:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	2000	50	μg/L	50	11/12/2023 1:22:00 AM	BW1011
Toluene	620	50	μg/L	50	11/12/2023 1:22:00 AM	BW1011
Ethylbenzene	140	50	μg/L	50	11/12/2023 1:22:00 AM	BW1011
Xylenes, Total	1000	100	μg/L	50	11/12/2023 1:22:00 AM	BW1011
Surr: 4-Bromofluorobenzene	98.4	52.4-148	%Rec	50	11/12/2023 1:22:00 AM	BW1011

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

- * 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 Quanitative 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

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-1

 Project:
 Lateral 2C 15 Sump
 Collection Date: 11/1/2023 2:00:00 PM

 Lab ID:
 2311120-009
 Matrix: AQUEOUS
 Received Date: 11/2/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	910	20	μg/L	20	11/12/2023 1:44:00 AM	BW1011;
Toluene	2000	20	μg/L	20	11/12/2023 1:44:00 AM	BW1011;
Ethylbenzene	120	20	μg/L	20	11/12/2023 1:44:00 AM	BW1011;
Xylenes, Total	3400	40	μg/L	20	11/12/2023 1:44:00 AM	BW1011;
Surr: 4-Bromofluorobenzene	114	52.4-148	%Rec	20	11/12/2023 1:44:00 AM	BW1011;

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

- 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 Quanitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311120** *17-Nov-23*

Client: ENSOLUM

Project: Lateral 2C 15 Sump

Sample ID: 100ng btex lcs	Samp ⁻	SampType: LCS			tCode: EF						
Client ID: LCSW	Batc	Batch ID: BW101128			RunNo: 10	01128					
Prep Date:	Analysis [Date: 11	/11/2023	SeqNo: 3714283			11/2023 SeqNo: 3714283 Units: μg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	19	1.0	20.00	0	96.0	70	130				
Toluene	19	1.0	20.00	0	96.9	70	130				
Ethylbenzene	20	1.0	20.00	0	99.2	70	130				
Xylenes, Total	60	2.0	60.00	0	99.6	70	130				
Surr: 4-Bromofluorobenzene	20		20.00		102	52.4	148				

Sample ID: mb	Samp	SampType: MBLK TestCode: EPA Method			8021B: Volatiles					
Client ID: PBW	Batcl	h ID: BW	/101128	28 RunNo: 101128						
Prep Date:	Analysis [Date: 11	/11/2023	5	SeqNo: 37	714284	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		96.4	52.4	148			

- 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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

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				•	reusiie. wwi	v.hallenvironment	at.com		
Client	Name:	ENSOLUM		Work	Order Num	ber: 2311120		RcptNo:	1
Receiv	ved By:	Tracy Cas	arrubias	11/2/20	23 6:45:00	AM			
Comp	leted By:	Tracy Cas	arrubias	11/2/20	23 11:48:54	AM .			
Revie	wed By:	フルッ	3/23						
Chair	of Cus	tody							
1. Is 0	Chain of C	ustody comp	lete?			Yes 🗌	No 🗹	Not Present	
2. Ho	2. How was the sample delivered?								
<u>Log</u> 3. Wa	_	npt made to o	cool the samp	les?		Yes 🗹	No 🗌	NA 🗆	
4. We	re all sam	ples received	at a tempera	ture of >0° C	to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sar	mple(s) in	proper conta	iner(s)?			Yes 🗸	No 🗌		
6. Suff	ficient san	nple volume f	or indicated to	est(s)?		Yes 🗹	No 🗌		
7. Are	samples	(except VOA	and ONG) pro	operly preserve	ed?	Yes 🗹	No 🗌		
8. Wa	s preserva	ative added to	bottles?			Yes 🗌	No 🗹	NA 🗌	
9. Red	ceived at le	east 1 vial wit	h headspace	<1/4" for AQ \	OA?	Yes 🗹	No 🗌	na 🗆	
10. We	ere any sa	mple containe	ers received b	roken?		Yes 🗌	No 🗹	# of preserved	
		ork match bo ancies on ch	ttle labels? ain of custody	·)		Yes 🗹	No 🗆	bottles checked for pH: (<2 pr	>12 unless noted)
			_	n of Custody?		Yes 🗹	No 🗌	Adjusted?	
13. Is it	clear wha	ıt analyses w	ere requested	?		Yes 🗹	No 🗌	10	10/12
		ing times able	e to be met? authorization.)			Yes 🗹	No 🗌	Checked by	cm 11/2/02
Specia	al Hand	ling (if app	olicable)						
15.Wa	as client n	otified of all d	iscrepancies	with this order	?	Yes 🗌	No 🗌	NA 🗹	2
	Persor	Notified:			Date				
	By Wh				Via:	eMail [Phone Fax	☐ In Person	
	Regard Client		Phone numb	er and project	manager a	re missing on CC	OC- TMC 11/2/23		
16. Ad	dditional re		•						
	ooler Info								
<u>s</u>	Cooler No	The state of the s	Condition	Seal Intact	Seal No	Seal Date	Signed By	· Internation	
1		0.6	Good	Yes	Yogi				

Chain-of-Custody Record	Turn-Around Time:	
Client: Fasolum LLC	Standard 🗆 Rush	ANAI YSTS I ABORATORY
		www.hallenvironmental.com
Mailing Address: (No S. Ro Granda, Suitek		4901 Hawkins NE - Albuquerque, NM 87109
74	Proje	
	0541226105	Anal
email or Fax#: Lowwels@onsolaw.C	Project Manager:	(O)
		MS MS
☐ Standard ☐ Level 4 (Full Validation)	on)	90 / OS
		728 30V
□ NELAC □ Other	On Ice: V Yes 🗆 No um	30 SON
□ EDD (Type)	# of Coolers:	od : Od :
-	Cooler Temp(including cF): 0. (p - Ø + 0. (p (°C)	estideth Methy yy 83 8 Me 8 Me 3r, I
	Container Preservative HEAL No.	H:80 B (W Hs th F, F F, F
Date Time Matrix Sample Name	Type and # Type 2311120	197 808 EDI CI, CI, S28 828
11/123 7:20 W MW-4	3x40mlbh HJCh 001	
9:55 W MW-11	200	X
21-MM (25:01	0.03	X
10,50 W NW-14	So4	X
11,25 W WW-13	\$00	
11155 W MW-5	200	
1235 W NW-3	003	\times
13:20 W MW -9	000	
	V V 009	X
Date: Time: Relinguished by: a lift of the state of the s	Received by: Va: Date Time	
Relinquished by		12: To Fasolan
744 W	11/2/23	
salumas v	be supported the accredited laboratories. This serves as notice of this	s possibility. Any sub-contracted data will be clearly notated on the analytical report

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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

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 302990

CONDITIONS

Operator:	OGRID:				
Enterprise Field Services, LLC	241602				
PO Box 4324	Action Number:				
Houston, TX 77210	302990				
	Action Type:				
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)				

CONDITIONS

Created By		Condition Date
michael.buchanan	Accepted for the record	4/2/2024