



September 15, 2025

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Reclamation Report  
Line 1003  
Incident Number nAPP2332441886  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Enterprise Field Services, LLC (Enterprise), has prepared the following *Reclamation Report* for the Line 1003 (Site). This *Reclamation Report* documents the Site history, reclamation activities completed to date, and proposes a vegetation monitoring plan.

**BACKGROUND**

The Site is located in Unit H, Section 26, Township 24 South, Range 28 East, in Eddy County, New Mexico (32.192149°, -104.052583°) and is associated with oil and gas exploration and production operations on Private Land managed by Scott Branson Land Division.

On November 3, 2023, a release of natural gas and natural gas liquids occurred on the 1003 pipeline. Approximately 1.31 one-thousand cubic feet (MCF) of natural gas was released to the atmosphere and approximately 5 barrels (bbls) of condensate were released onto the ground surface. No released fluids or gas were recovered. Enterprise reported the release to the New Mexico Oil Conservation Division (NMOCD) via a report through the online Notification of Release (NOR) Form on November 20, 2023. The release was assigned Incident Number nAPP2332441886.

Delineation and excavation of impacted soil was completed at the Site between December 2023 and April 2024. Based on the delineation and excavation soil sample analytical results, a *Closure Report* was submitted to the NMOCD on September 12, 2024. The NMOCD approved the *Closure Report* on December 06, 2024. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Report* included as an Appendix to this report. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

**RECLAMATION ACTIVITIES**

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured soil and the disturbed area was graded and contoured to match the surrounding topography. The excavation/reclamation extent are depicted on the attached Figure 1.

Enterprise Field Services, LLC  
Reclamation Report  
Line 1003

Photographic documentation of the backfilled excavation was completed, and a photographic log is included in Appendix A.

One representative 5-point composite sample (BF01) was collected from the backfill material on August 01, 2025 by Ensolum personnel. The backfill soil sample was transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following the United States Environmental Protection Agency (EPA) SW-846 Method 8021B, total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500Cl-B.

Laboratory analytical results for the backfill soil sample confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg) and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix B.

The soil in the vicinity of the release area includes predominately silty loam and loam (Pima silt loam, 0 to 1 percent slopes). The reclaimed pasture area was reseeded during the week of July 7, 2025, with the below Pecos District BLM Loamy SD-3 Ecological seed mix utilizing a drill seeder.

Species/Cultivar	PLS/Acre
Grama, Blue ( <i>Bouteloua gracilis</i> )	4.00
Grama, Sideoats "El Reno" ( <i>Bouteloua curtipendula</i> )	1.00
Dropseed, Sand ( <i>Sporobolus cryptandrus</i> )	0.50
Mesquite-grass, "Vine" ( <i>Panicum obtusum</i> )	1.00
Bristlegrass Plains ( <i>Setaria vulpiseta</i> )	1.00
Indian Blanket ( <i>Gaillardia pulchella</i> )	0.50
Sunflower, Native ( <i>Helianthus annuus</i> )	1.75

Photographs of the backfilled excavation and seeding of the reclaimed area are provided in Appendix A.

## VEGETATION MONITORING

The Site will be monitored for vegetation growth to verify reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

- Annual inspections will take place at the location to monitor for revegetation progress.
- If necessary, an additional application of the seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by a licensed contracted herbicide applicator or mechanically/physically removed.

A *Re-vegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has a uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent

Enterprise Field Services, LLC  
Reclamation Report  
Line 1003

(%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D. (3).

## RECLAMATION APPROVAL REQUEST

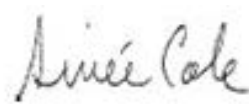
Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, Enterprise respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident Number nAPP2332441886.

If you have any questions or comments, please contact Ms. Kelly Lowery at (214) 733-3165 or [klowery@ensolum.com](mailto:klowery@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Kelly Lowery, GIT  
Project Geologist



Aimee Cole  
Associate Principal

cc: Julianna Falcomata, Enterprise Field Services, LLC  
David Feather, Enterprise Field Services, LLC

### Appendices:

Figure 1	Excavation/Reclamation Extent
Table 1	Backfill Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Laboratory Analytical Report & Chain of Custody Documentation
Appendix C	Seed Mixture
Appendix D	Closure Report: Dated August 21, 2024



FIGURES



## Legend

 Excavation/Reclamation  
Extent



0 12.5 25 50  
Feet

Sources: Environmental Systems Research Institute (ESRI)



## Excavation/Reclamation Extent

Enterprise Field Services, LLC  
Line 1003  
Incident Number: nAPP2332441886  
32.192149, -104.052583  
Eddy County, New Mexico

**FIGURE**

**1**



TABLES



**TABLE 1**  
**BACKFILL SOIL SAMPLE ANALYTICAL RESULTS**  
 Line 1003  
 Enterprise Field Services, LLC  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Requirements for Reclaimed Area			NE	NE	NE	NE	NE	100	600
Backfill Soil Samples									
BF01	8/1/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NE - Not Established

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



## APPENDIX A

### Photographic Log

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**Photographic Log**

Enterprise Field Services, LLC

Line 1003

nAPP2332441886



Photograph: 1 Date: 7/7/2025  
Description: Post Backfill & Reseeding Activities  
View: Southeast

Photograph: 2 Date: 8/1/2025  
Description: Post Backfill & Reseeding Activities  
View: Northwest



Photograph: 3 Date: 8/1/2025  
Description: Post Backfill & Reseeding Activities  
View: Southwest

Photograph: 4 Date: 8/1/2025  
Description: Post Backfill & Reseeding Activities  
View: Southeast



## APPENDIX B

### Laboratory Analytical Report & Chain of Custody Documentation

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 07, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LINE 1003

Enclosed are the results of analyses for samples received by the laboratory on 08/01/25 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/01/2025  
 Reported: 08/07/2025  
 Project Name: LINE 1003  
 Project Number: 03B122319  
 Project Location: EPCO - EDDY CO., NM

Sampling Date: 08/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BF - 01 .25 (H254716-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2025	ND	1.69	84.7	2.00	9.71		
Toluene*	<0.050	0.050	08/05/2025	ND	1.77	88.4	2.00	8.85		
Ethylbenzene*	<0.050	0.050	08/05/2025	ND	1.78	89.2	2.00	7.80		
Total Xylenes*	<0.150	0.150	08/05/2025	ND	5.30	88.4	6.00	7.47		
Total BTX	<0.300	0.300	08/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/05/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2025	ND	185	92.3	200	0.633	
DRO >C10-C28*	<10.0	10.0	08/05/2025	ND	209	104	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	08/05/2025	ND					

Surrogate: 1-Chlorooctane 64.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 62.4 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC

Project Manager: Kelly Lowery

Address: 601 N. Marland St. STE 400

City: Midland

State: TX Zip: 79701

Phone #: 214-733-3165

Email: klowery@ensolum.com

Project #: ~~008444437~~ 038122315

Project Owner: EPCO

Project Name: ~~Nimble MDP-43-1 FEB-COM #171H~~

Line 1003

Project Location: Eddy Co. NM

Sampler Name: Shane Diller

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER : ACID/BASE:

ICE / COOL OTHER :

DATE

TIME

TPH

BTEX 8021b

Chlorides 4500

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising out of or related to the performance of services provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, shall be limited to the amount paid by the client for the analysis.

All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services provided by Cardinal.

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Verbal Result: ☐ Yes ☐ No

All Results are emailed. Please provide Email address:

Remarks: Paykey/AFENomAF:

Added Phone #:

Turnaround Time: ☐ Rush ☐ Standard

Thermometer ID: ☐ Cool ☐ Intact

Correction Factor: ☐ No ☐ Yes

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Checked By: (Initials)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Checked By: (Initials)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Checked By: (Initials)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

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Observed Temp. °C

Corrected Temp. °C

Sample Condition

Checked By: (Initials)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Checked By: (Initials)

</



## APPENDIX C

### Seed Mixture

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"NATIVE SEEDS SINCE 1951"

## Quote

Billing Information	
NMR Pipeline, LLC	
<b>Contact:</b>	Kendall Richards
<b>Address:</b>	[REDACTED]
<b>Phone:</b>	[REDACTED]
<b>Fax:</b>	[REDACTED]
<b>Email:</b>	[REDACTED]

Shipping Information	
NMR Pipeline	
<b>Contact:</b>	Kendall Richards
<b>Address:</b>	[REDACTED]
<b>Phone:</b>	[REDACTED]
<b>Fax:</b>	[REDACTED]
<b>Email:</b>	[REDACTED]

Quote ID	Date	Quote Type	Acres	State	Project Type	Sales Rep
QUO-69914	5/15/2025	Blend - Specified	1.00	New Mexico	Revegetation	Brian Hays

	#/Acre	Total Pounds	\$/Acre	Sub Total
ETC Site Line 1003; Loamy SD-3 Eco Site Blend	9.750	9.750	[REDACTED]	[REDACTED]

Product	UoM	#/AC	Pounds
Grama, Blue (Bouteloua gracilis)	PLS	4.00	4.000
Grama, Sideoats "El Reno" (Bouteloua curtipendula)	PLS	1.00	1.000
Dropseed, Sand (Sporobolus cryptandrus)	PLS	0.50	0.500
Mesquite-grass, "Vine" (Panicum obtusum)	PLS	1.00	1.000
Bristlegrass Plains, (Setaria vulpiseta)	PLS	1.00	1.000
Indian Blanket (Gaillardia pulchella)	PLS	0.50	0.500
Sunflower, Native (Helianthus annuus)	PLS	1.75	1.750
<b>Totals:</b>		<b>9.750</b>	<b>9.750</b>

### Comments:

Increased sunflower to cover globemallow due to lack of availability of globemallow.

<b>Freight</b>	
<b>Credit Card Fee (3%)</b>	
<b>Handling</b>	
<b>Total</b>	[REDACTED]

We appreciate the opportunity to earn your business if we can be of any further assistance please do not hesitate to call. The quote is subject to stocks being unsold and further confirmation.



---

"NATIVE SEEDS SINCE 1951"

**This quote is good for 10 business days unless otherwise noted. The quote reflects the cash price. A 3% convenience fee will be added to the quoted price for all credit card transactions. Species quantities and pricing are subject to change depending on availability at the time of order.**

**DISCLAIMER: Before quote approval, please confirm the components of this quote with your project official for contractual compliance.**



## APPENDIX D

*Closure Report:*  
Dated August, 21 2024

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## CLOSURE REPORT

Property:

**Line 1003**

**Unit H, S26, T24S, R28E  
32.192149° N, 104.052583° W  
Eddy County, New Mexico  
NMOCD Incident ID: nAPP2332441886**

August 21, 2024  
Ensolum Project No. 03B1226319

Prepared for:

**Enterprise Field Services, LLC  
PO Box 4324  
Houston, Texas 77210**

**Attn: Robert Dunaway**

Prepared by:

  
Kelly Lowery, GIT  
Project Manager

  
Heather Holthaus  
Senior Project Manager



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## CLOSURE REPORT

### Line 1003

Unit H, S26, T24S, R28E  
32.192149° N, 104.052583° W  
Eddy County, New Mexico  
NMOCD Incident ID: nAPP2332441886

Ensolum Project No. 03B1226319

## 1.0 INTRODUCTION

### 1.1 Site Description & Background

<b>Operator:</b>	Enterprise Field Services, LLC (Enterprise)
<b>Site Name:</b>	Line 1003
<b>Location:</b>	Unit H, Section 26, Township 24 South, Range 28 East 32.192149° N, 104.052583° W Eddy County, New Mexico
<b>Property:</b>	Private (Scott Branson Land Division)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On November 3, 2023, Enterprise had a release of natural gas and natural gas liquids on the 1003 pipeline. The pipeline was isolated, depressurized, locked, and tagged out. No fires or injuries occurred. Approximately 1.31 one-thousand cubic feet (MCF) of natural gas was released to the atmosphere, along with approximately 5 barrels (bbls) of condensate released onto the ground surface, with no recovery. Enterprise reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on November 20, 2023, subsequent to determining the release to be reportable. The release was assigned Incident Number nAPP2332441886.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

### 1.2 Project Objective

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soil to be in compliance with the applicable New Mexico EMNRD OCD closure criteria concentrations.

## 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general Site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to



Closure Report  
Line 1003

August 21, 2024

determine the appropriate closure criteria for the Site. The gas portion of this release constitutes venting that occurred during an emergency or a malfunction, as authorized by the New Mexico EMNRD OCD regulations at NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

- Five exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. The closest well (C-04180-POD-1), located approximately 0.25-mile northwest of the Site, was installed in 2018 with a recorded depth to groundwater of 58 feet bgs.
- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified on the National Wetlands Inventory surface waters and wetlands mapper, the Site is not located within 300 feet of a wetland. However, based on a review of the topographic map, there is an intermittent lake located approximately 150 feet east of the Site.
- Based on information identified on the New Mexico Mining and Minerals Division's Geographical Information System (GIS), Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is not located within an unstable area, also referred to as medium karst potential.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit*
≤ 50 feet	Chloride**	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg

Closure Report  
Line 1003

August 21, 2024

	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

\*Numerical limits or natural background level, whichever is greater.

\*\*This applies to releases of produced water or other fluids, which may contain chloride

### 3.0 SOIL REMEDIATION ACTIVITIES

On November 3, 2023, Enterprise had a release of natural gas and natural gas liquids on the 1003 pipeline. The pipeline was isolated, depressurized, locked, and tagged out. No fires or injuries occurred. Approximately 1.31 MCF of natural gas was released to the atmosphere, along with approximately 5 bbls of condensate released onto the ground surface, with no recovery. Following submittal of an emergency New Mexico One-Call (NM-811), corrective action activities were commenced by New Mexico Rental Pipeline, LLC (NMR) utilizing a backhoe to excavate soils immediately surrounding the 1003 pipeline in order to repair and replace the affected pipeline.

During corrective action activities, soils were removed immediately surrounding the pipeline in order to repair and/or replace the affected pipeline. The excavated soils were temporarily placed in soil stockpiles adjacent to the excavation prior to be taken off-Site for proper disposal. On December 11, 2023, Ensolum arrived on-Site to collect five composite soil samples from the excavation floor (FS01 through FS05) and six composite soil samples from the excavation sidewalls (SW01 through SW06). The composite excavation floor samples were collected at depths ranging from nine to 11 feet bgs, and the composite excavation sidewall samples were collected at a depth of 0-9 feet bgs. In addition, four delineation soil samples from around the release extent (NW, NE, SW and SE) were collected at a depth of 0.25 feet bgs. Additionally, Ensolum collected two composite soil samples from the soil stockpiles on-Site (W-STK and W-STK) prior to off-Site disposal. Based on laboratory analytical results, additional excavation was required.

In March and April 2024 excavation activities continued based on laboratory analytical data. Between March 20 and April 24, 2024, Ensolum collected a total of five composite soil samples from the excavation floor (FS01 through FS05) at a depth of 18 feet bgs, 13 composite soil samples from six locations from the excavation sidewalls (SW01 through SW06) at depths of 0-9 and 9-18 feet bgs, and 15 delineation soil samples from eight locations around the release extent (NW, NE, S/S-01, E01, E02, N/N-01, W01, and W02) at a depth of 0.25 feet bgs. In addition, Ensolum collected 18 background soil samples from two locations outside of the release area (BS01 and BS02), at two-foot intervals down to 18 feet bgs. Additionally, Ensolum collected two composite soil samples from the soil stockpiles on-Site (STOCKPILE 1 and STOCKPILE 2) prior to off-Site disposal. Based on laboratory analytical data of the final confirmation and delineation soil samples, no additional excavation or remediation activities were necessary.

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil/lube oil range organics (MRO), and/or chloride in accordance with the New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release ( $\leq 50$  feet) (NMOCD Closure Criteria).

Due to the proximity of other pipelines in the area, the excavation was unable to be expanded in an east-west direction. The final excavation area measured approximately 40 feet long and 13 feet wide at the maximum extents, with a depth of 18 feet bgs.

The lithology encountered during the completion of closure activities consisted primarily of a silty loam.

A total of approximately 347 cubic yards of excavated soils were removed from the excavation area and transported for off-Site disposal. The excavated area was backfilled with clean imported fill material and contoured to the original surrounding grade.

**Figure 3** is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the impacted blowout bell hole extent and the pipeline repair over excavation extent with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

## 4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from December 11, 2023 through April 24, 2024 included the collection of a total of 10 composite soil samples from five locations on the excavation floor (FS01 through FS05), 19 composite soil samples from six locations on the excavation sidewalls (SW01 through SW06), 19 delineation soil samples from 10 locations at areas just outside the excavation (NW, NE, SW, SE, S/S-01, E01, E02, N/N-01, W01 and W02), four composite soil samples from the soil stockpiles staged on-Site (W-STK, E-STK, STOCKPILE 1 and STOCKPILE 2), and a total of 18 background soil samples from two locations outside the excavation area (BS01 and BS02) for laboratory analysis.

The composite soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico or Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures.

## 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX following United States Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO following EPA SW-846 Method 8015M/D, and/or chloride using EPA Method 300.0.

Laboratory analytical results are summarized in **Table 1** and **Table 2** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

## 6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, and TPH-GRO/DRO/MRO concentrations to laboratory sample detection limits (SDLs) associated with the final composite soil samples from the excavation floor and sidewalls (FS01 through FS05 and SW01 through SW06), and the final delineation soil samples (NW, NE, SW, SE, S/S-01, E01, E02, N/N-01, W01 and W02) for soils left in place at the Site, and the soil stockpile samples (W-STK, E-STK, STOCKPILE 1 and STOCKPILE 2) to the NMOCD Closure Criteria.

Ensolum utilized the detected concentrations of chloride in the 18 background soil samples collected at locations outside of the impacted area (BS01 and BS02). The samples were collected no closer than 50 feet but no farther than 100 feet from the lateral and horizontal extents of the release's impact area and to a terminal depth that matched the final depth within the excavation to determine a site-specific chloride limit for the Site based on NMAC 19.15.29.11 (A) (5) (c) and (d). Ensolum compared the chloride concentrations and or laboratory SDLs associated with the final confirmation and delineation soil samples (FS01 through FS05, SW01 through SW06, NW, NE, SW, SE, S/S-01, E01, E02, N/N-01, W01 and W02) to the highest observed chloride concentration from background soil samples BS01 and BS02.

- Laboratory analytical results indicate benzene concentrations for soils remaining in place do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate total BTEX concentrations for soils remaining in place do not exceed the laboratory SDLs or the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH-GRO/DRO/MRO concentrations for soils remaining in place do not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicate chloride concentrations for soils remaining in place do not exceed the background site specific chloride limit of 2,270 mg/kg.

- Laboratory analytical results for the soil stockpiles indicated combined TPH-GRO/DRO/MRO concentrations above the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet; however, the soil stockpiles were transported off-Site for proper disposal.

Laboratory analytical results are summarized in **Table 1** and **Table 2** in **Appendix D**.

## 7.0 RECLAMATION AND RE-VEGETATION

The release occurred in a vegetative zone along the Enterprise right-of-way (ROW) and as such, a reclamation requirement of 600 mg/kg chloride (or background) and 100 mg/kg TPH was applied to the top 4 feet of the vegetative area that was impacted by the release per 19.15.29.13.D (1) NMAC. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation was backfilled with locally fill material and topsoil to match surrounding grade. Approximately 2 feet of topsoil has been placed on top of the backfill area to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: predominately silty loam and loam;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the BLM to meet reclamation standards for this region, which will be: Pecos District BLM Seed Mix for Loamy, SD-3 Ecological Site.
- The seed mixture will be distributed with one of the following methods: push broadcaster seed spreader / tractor operated broadcast seed spreader / drill seeding / other means;
- Application of the seed mixture will be at a coverage of either 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method, or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method, whichever is more applicable;
- Erosion control management will potentially include:
  - The placement of wattles in areas with a propensity for high run off rates;
  - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
  - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation has already been completed;
- Seeding is anticipated to be completed within the next month when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost;
- If seeding occurs outside of the 180 days approved in the current fully executed ROE Permit, a new ROE Permit will be executed prior to entering the pasture for reclamation activities;
- Annual inspections (at a minimum), will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the BLM-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 will be submitted to NMOCD for final inspection and release.

## 8.0 FINDINGS AND RECOMMENDATION

- On November 3, 2023, Enterprise had a release of natural gas and natural gas liquids at the Site on the 1003 pipeline. The pipeline was isolated, depressurized, locked, and tagged out. No fires or injuries occurred. Approximately 1.31 MCF of natural gas was released to the atmosphere, along with approximately 5 bbls of condensate released onto the ground surface, with no recovery.
- Following submittal of an emergency NM-811, corrective action activities were commenced by NMR utilizing a backhoe to excavate soils immediately surrounding the 1003 pipeline in order to repair and replace the affected pipeline.
- Ensolum's soil sampling program from December 11, 2023 through April 24, 2024 included the collection of a total of 10 composite soil samples from five locations on the excavation floor (FS01 through FS05) at depths ranging from 9 to 18 feet bgs, 19 composite soil samples from six locations on the excavation sidewalls (SW01 through SW06) at depths ranging from 0-9 and 9-18 feet bgs, 19 delineation soil samples from 10 locations at areas just outside the excavation (NW, NE, SW, SE, S/S-01, E01, E02, N/N-01, W01 and W02) at a depth of 0.25 feet bgs, four composite soil samples from the soil stockpiles staged on-Site (W-STK, E-STK, STOCKPILE 1 and STOCKPILE 2), and a total of 18 background soil samples, collected at two-foot intervals down to 18 feet bgs, from two locations outside the excavation area (BS01 and BS02) for laboratory analysis.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- Due to the proximity of other pipelines in the area, the excavation was unable to be expanded in an east-west direction. The final excavation area measured approximately 40 feet long and 13 feet wide at the maximum extents, with a depth of 18 feet bgs.
- Based on the final soil laboratory analytical results, soils remaining in place at the Site do not exhibit benzene, total BTEX, or TPH GRO/DRO/MRO concentrations above the applicable NMOCD Closure Criteria, or chloride concentrations above the background site specific limit for the Site.
- A total of approximately 347 cubic yards of excavated soils were removed from the excavation area and transported for off-Site disposal. The excavated area was backfilled with clean imported fill material and contoured to the original surrounding grade. A BLM-approved seed mixture will be sown into the surface of the backfill for re-vegetation per the above stated Reclamation Plan.

**Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.**

## 9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

### 9.1 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). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.



## 9.2 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 in other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

## 9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Field Services, LLC, 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 Enterprise Field Services, LLC 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.

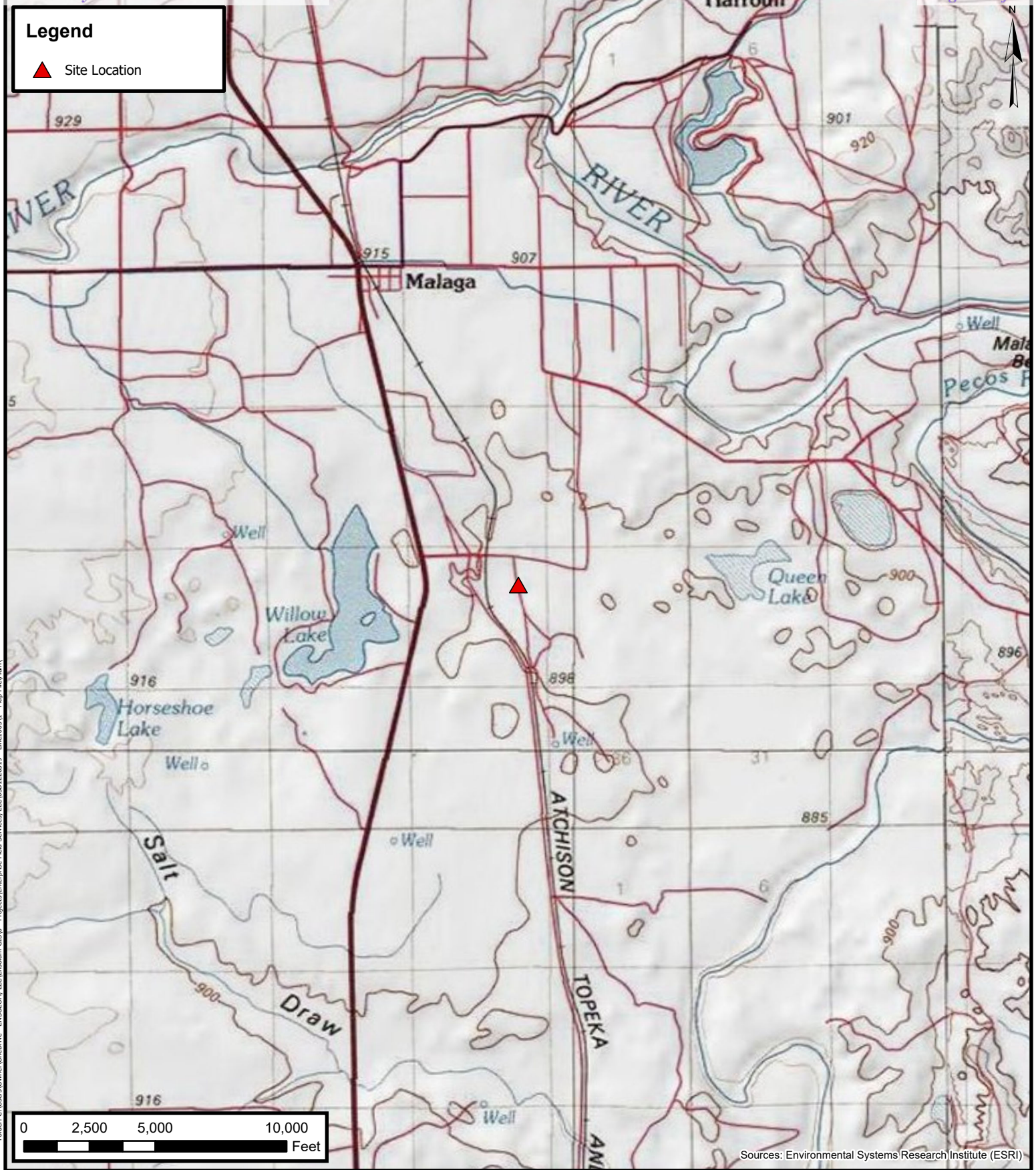


## APPENDIX A

### Figures

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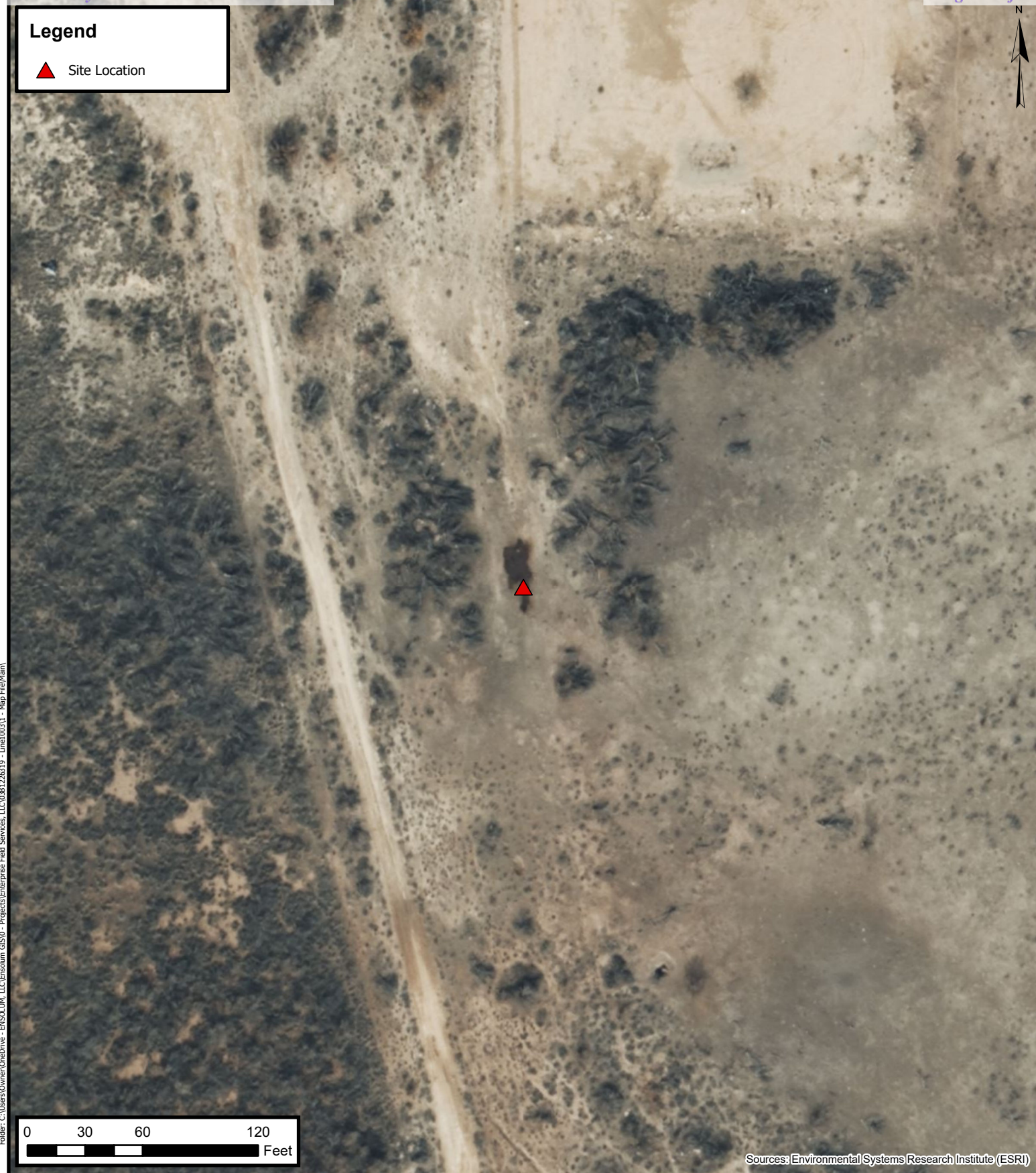




**Topographic Map**  
Enterprise Field Services, LLC.  
Line1003  
32.192149, -104.052583  
Eddy County, New Mexico  
Project Number: 03B1226319

**FIGURE**  
**1**





## Site Vicinity Map

Enterprise Field Services, LLC.

Line1003

32.192149, -104.052583

Eddy County, New Mexico

Project Number: 03B1226319

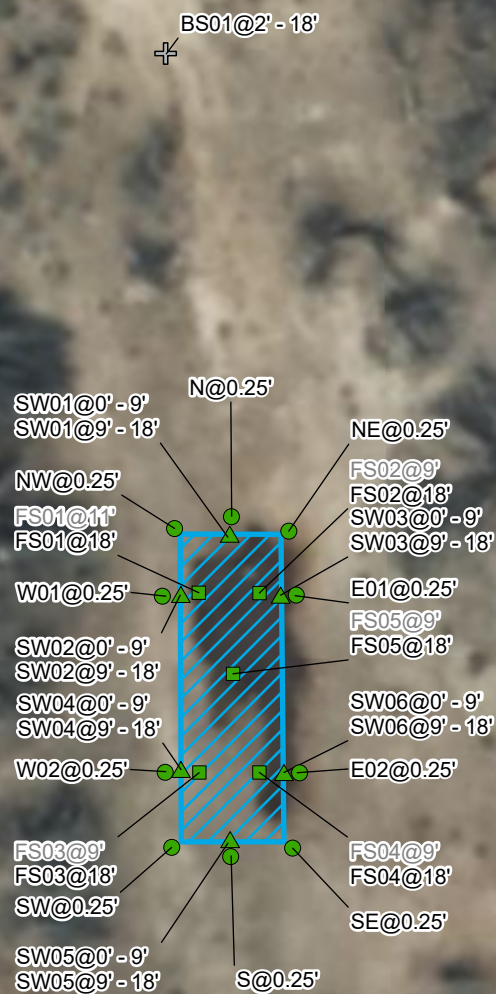
**FIGURE**

**2**



**Legend**

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- + Background Sample Location
- ▨ Excavation Extent



**Note:**  
 Sample ID @ Depth Below Ground Surface  
 Samples in Grey Indicate Additional Excavation and/or Re-Sample.

0 25 50 Feet

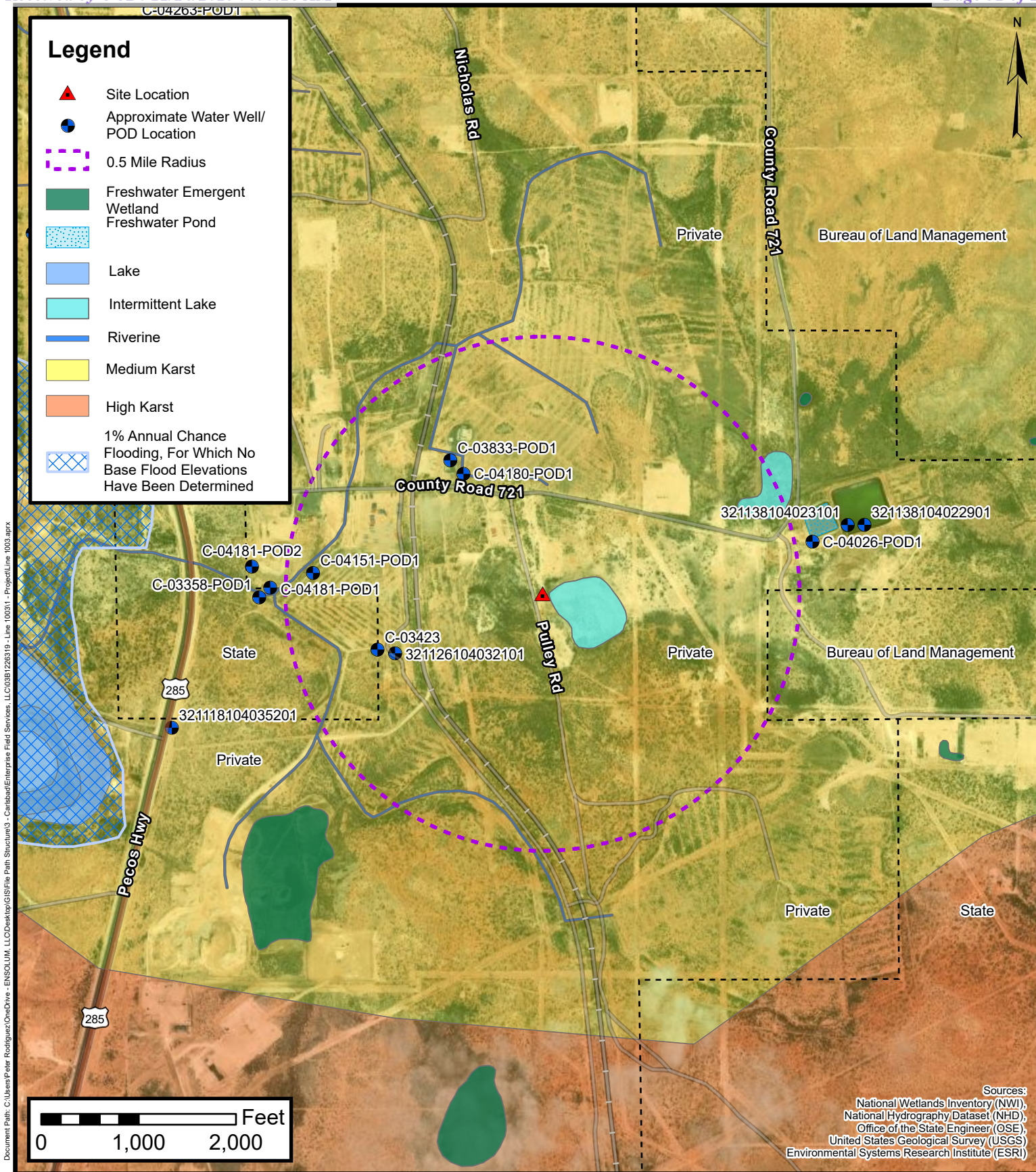
Source:  
 Environmental Systems Research Institute (ESRI)

**Site Map**

ENTERPRISE FIELD SERVICES, LLC  
 LINE 1003  
 Eddy County, New Mexico  
 32.192149, -104.052583  
 Incident Number: nAPP2332441886  
 Project Number: 03B1226319

**FIGURE**  
**3**





## Closure Criteria Map

ENTERPRISE FIELD SERVICES, LLC

LINE 1003

Eddy County, New Mexico

32.192149, -104.052583

Incident Number: nAPP2332441886

Project Number: 03B1226319

FIGURE

4

**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants



## APPENDIX B

### Supporting Documentation

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District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAPP2332441886
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: <b>Enterprise Field Services, LLC</b>	OGRID: <b>241602</b>
Contact Name: <b>Thomas Long</b>	Contact Telephone: <b>505-599-2286</b>
Contact email: <b>tjlong@eprod.com</b>	Incident # (assigned by OCD) #: <b>nAPP2332441886</b>
Contact mailing address: <b>614 Reilly Ave, Farmington, NM 87401</b>	

### Location of Release Source

Latitude **32.192149** Longitude **-104.052583** NAD 83 in decimal degrees to 5 decimal places)

Site Name: <b>Pipeline 1003</b>	Site Type <b>Natural Gas Gathering Pipeline</b>
Date Release Discovered: <b>11/20/2023</b>	Serial # (if applicable) <b>N/A</b>

Unit Letter	Section	Township	Range	County
<b>H</b>	<b>26</b>	<b>24S</b>	<b>28E</b>	<b>Eddy</b>

Surface Owner: State ☐ Federal ☐ Tribal ☒ Private (Name: **Scott Branson Land Division**)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): <b>Estimated 5 barrels</b>	Volume Recovered (bbls): <b>None</b>
<input type="checkbox"/> Natural Gas	Volume Released (Mcf): <b>1.31 MCF</b>	Volume Recovered (Mcf):
<input type="checkbox"/> Other (describe) Fire	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

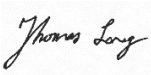
**Cause of Release:** On November 3, 2023, Enterprise had a release of natural gas and condensate from the 1003 pipeline. No washes were affected. No fires nor injuries occurred. The pipeline was isolated, depressurized, locked and tagged out. Minimal liquids were observed on the ground surface. Repairs and remediation began on October 20, 2023 at which time Enterprise determined the release reportable per NMOCD regulation due to the volume of impacted subsurface soil. A third party corrective action report will be submitted with the "Final C-141."

Incident ID	NAPP2332441886

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Thomas J. Long</u> Title: <u>Senior Environmental Scientist</u>
Signature:  Date: <u>11-29-2023</u>
email: <u>tjlong@eprod.com</u> Telephone: <u>505-599-2286</u>
<b><u>OCD Only</u></b>  Received by: <u>Shelly Wells</u> Date: <u>11/29/2023</u>

## Gas Loss Calculations

### Pipeline 1003

#### Release Parameters:

#### Pipeline Purging Calculation

Diameter of leak (inches)	0.125	
Operating Pressure PSIA	600	
Duration of Leak ( Days)	0.0058	
	1.305	MCF (Gas Loss)
% Natural Gas	100	
Total Gas Loss	1.305	

#### Emission Factors:

gm-Moles/scf	1.263	
gm/lbs	454	5

#### Components(Mol%)

N2	0.3583
CO2	0.885
C1 (ethane)	8.58
C2 (propane)	3.94
C3 (methane)	83.19
iC4 (Isobutane)	0.7251
nC4 (butane)	1.07
iC5 (iso-pentane)	0.2895
nC5 (n-pentane)	0.2895
C6+ (heptane)	0.0766
Avg MW(Total)	41.26
Avg MW(VOC)	44.63
BTU/SCF	2340.80

<b>Gas</b>	<b>Emissions to</b>
<b>Loss</b>	<b>Atmosphere</b>
	<b><u>VOC (LBS)</u></b>
1.305 MCF	138.73



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

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

CONDITIONS

Action 289356

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 289356
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/29/2023

**From:** [Dunaway, Robert](#)  
**To:** [Kelly Lowery](#)  
**Subject:** FW: Extension Request, nAPP2332441886  
**Date:** Thursday, February 8, 2024 2:43:07 PM  
**Attachments:** [image003.png](#)

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[\*\*EXTERNAL EMAIL\*\*]

For the final report. Line 1003.

Robert Dunaway  
Manager, Environmental  
3008 E Greene Street, Carlsbad, NM 88220  
Office: (575) 628-6830 | [rdunaway@eprod.com](mailto:rdunaway@eprod.com)



---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Sent:** Thursday, February 8, 2024 1:36 PM  
**To:** Dunaway, Robert <[rdunaway@eprod.com](mailto:rdunaway@eprod.com)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>; Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] Extension Request, nAPP2332441886

[Use caution with links/attachments]

RE: Incident #**NAPP2332441886**

**Robert,**

Your request for a 90-day extension to **May 8th, 2024**, is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>

**Sent:** Thursday, February 8, 2024 11:39 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] Extension Request, nAPP2332441886

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**From:** Dunaway, Robert <[rdunaway@eprod.com](mailto:rdunaway@eprod.com)>  
**Sent:** Thursday, February 8, 2024 9:57 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] Extension Request, nAPP2332441886

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

Good morning.

Enterprise would like to request an extension to 05/18/2024 for nAPP2332441886 (Line 1003).

Remediation is in process on the pipeline release. Due to a large scale remediation project for South Carlsbad Compressor Station, Enterprise has been unable to complete the project. There are still some exceedances that require further remediation that Enterprise needs additional time to address.

**Robert Dunaway**  
Manager, Environmental  
3008 E Greene Street, Carlsbad, NM 88220  
Office: (575) 628-6830 | [rdunaway@eprod.com](mailto:rdunaway@eprod.com)



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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.

**Kelly Lowery**

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Friday, December 1, 2023 11:10 AM  
**To:** Long, Thomas; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD  
**Cc:** Velez, Nelson, EMNRD; Stone, Brian; Kelly Lowery  
**Subject:** RE: [EXTERNAL] Pipeline 1003 - UL H Section 26 T24S R28E; 36.192149, -104.052583; NMOCD Incident # nAPP2332441886

[ \*\*EXTERNAL EMAIL\*\* ]

Hi Thomas,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

*Shelly*

Shelly Wells \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Long, Thomas <tjlong@eprod.com>  
**Sent:** Thursday, November 30, 2023 1:58 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Cc:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Stone, Brian <bmstone@eprod.com>; Kelly Lowery <klowery@ensolum.com>  
**Subject:** [EXTERNAL] Pipeline 1003 - UL H Section 26 T24S R28E; 36.192149, -104.052583; NMOCD Incident # nAPP2332441886

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

All,

This email is a notification that Enterprise will be collecting closure samples at the Pipeline 1003 release site on Tuesday, December 5, 2023 at 2:00 p.m. Please call or email if you have questions.

**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\*\*](mailto:tjlong@eprod.com)



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**Kelly Lowery**

---

**From:** Dunaway, Robert <rhodunaway@eprod.com>  
**Sent:** Thursday, March 14, 2024 9:01 AM  
**To:** Kelly Lowery  
**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 322837

[ \*\*EXTERNAL EMAIL\*\* ]

Robert Dunaway  
Manager, Environmental  
3008 E Greene Street, Carlsbad, NM 88220  
Office: (575) 628-6830 | Cell: (575) 307 9378  
[rhodunaway@eprod.com](mailto:rhodunaway@eprod.com)



---

**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Wednesday, March 13, 2024 8:31 AM  
**To:** Dunaway, Robert <rhodunaway@eprod.com>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 322837

[Use caution with links/attachments]

To whom it may concern (c/o Robert Dunaway for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2332441886.

The sampling event is expected to take place:

**When:** 03/20/2024 @ 09:00

**Where:** H-26-24S-28E 0 FNL 0 FEL (32.192149,-104.052583)

**Additional Information:** Kelly Lowery

[klowery@ensolum.com](mailto:klowery@ensolum.com)

(214) 733-3165

**Additional Instructions:** 32.192149 -104.052583

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505

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**Kelly Lowery**

---

**From:** Dunaway, Robert <rhodunaway@eprod.com>  
**Sent:** Tuesday, March 19, 2024 3:01 PM  
**To:** Kelly Lowery  
**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 324756

[\*\*EXTERNAL EMAIL\*\*]

**Robert Dunaway**

Manager, Environmental  
3008 E Greene Street, Carlsbad, NM 88220  
Office: (575) 628-6830 | Cell (575) 307-9378  
rhodunaway@eprod.com



---

**From:** OCDOOnline@state.nm.us <OCDOOnline@state.nm.us>  
**Sent:** Tuesday, March 19, 2024 3:00 PM  
**To:** Dunaway, Robert <rhodunaway@eprod.com>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 324756

[Use caution with links/attachments]

To whom it may concern (c/o Robert Dunaway for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2332441886.

The sampling event is expected to take place:

**When:** 03/21/2024 @ 14:00

**Where:** H-26-24S-28E 0 FNL 0 FEL (32.192149,-104.052583)

**Additional Information:** Kelly Lowery

[klowery@ensolum.com](mailto:klowery@ensolum.com)

214-733-3165

**Additional Instructions:** 32.192149 -104.052583

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.



- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

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**Kelly Lowery**

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**From:** Dunaway, Robert <rhodunaway@eprod.com>  
**Sent:** Tuesday, April 9, 2024 2:11 PM  
**To:** Kelly Lowery  
**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 331437

[\*\*EXTERNAL EMAIL\*\*]

**Robert Dunaway**

Manager, Environmental  
3008 E Greene Street, Carlsbad, NM 88220  
Office: (575) 628-6830 | Cell (575) 307-9378  
rhodunaway@eprod.com



---

**From:** OCDOOnline@state.nm.us <OCDOOnline@state.nm.us>  
**Sent:** Tuesday, April 9, 2024 2:07 PM  
**To:** Dunaway, Robert <rhodunaway@eprod.com>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 331437

[Use caution with links/attachments]

To whom it may concern (c/o Robert Dunaway for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2332441886.

The sampling event is expected to take place:

**When:** 04/16/2024 @ 07:00

**Where:** H-26-24S-28E 0 FNL 0 FEL (32.192149,-104.052583)

**Additional Information:** Kelly Lowery

[klowery@ensolum.com](mailto:klowery@ensolum.com)

214-733-3165

**Additional Instructions:** 32.192149 -104.052583

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

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agency_cd	site_no	station_nn	dec_lat_va	dec_long_v	dec_coord	state_cd	county_cd	Altitude_ft	alt_datum
USGS	3.21E+14	24S.28E.2E	32.1905	-104.058	NAD83	35	15	2944.9	NGVD29

well_depth	gw_count	lev_dt	lev_va
126	8	#####	22.33



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
NA	C 04180 POD1	2	1	2	26	24S	28E	589055	3562502		
Driller License: 1706		Driller Company:				ELITE DRILLERS CORPORATION					
Driller Name:		WALLACE, BRYCE J.									
Drill Start Date: 01/08/2018		Drill Finish Date:				01/10/2018		Plug Date:			
Log File Date: 01/31/2018		PCW Rcv Date:				Source:				Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:				100 GPM	
Casing Size: 9.00		Depth Well:				160 feet		Depth Water: 58 feet			
Water Bearing Stratifications:		Top	Bottom	Description							
		20	100	Limestone/Dolomite/Chalk							
		100	160	Limestone/Dolomite/Chalk							
Casing Perforations:		Top	Bottom								
		40	160								

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/8/23 9:38 AM

POINT OF DIVERSION SUMMARY

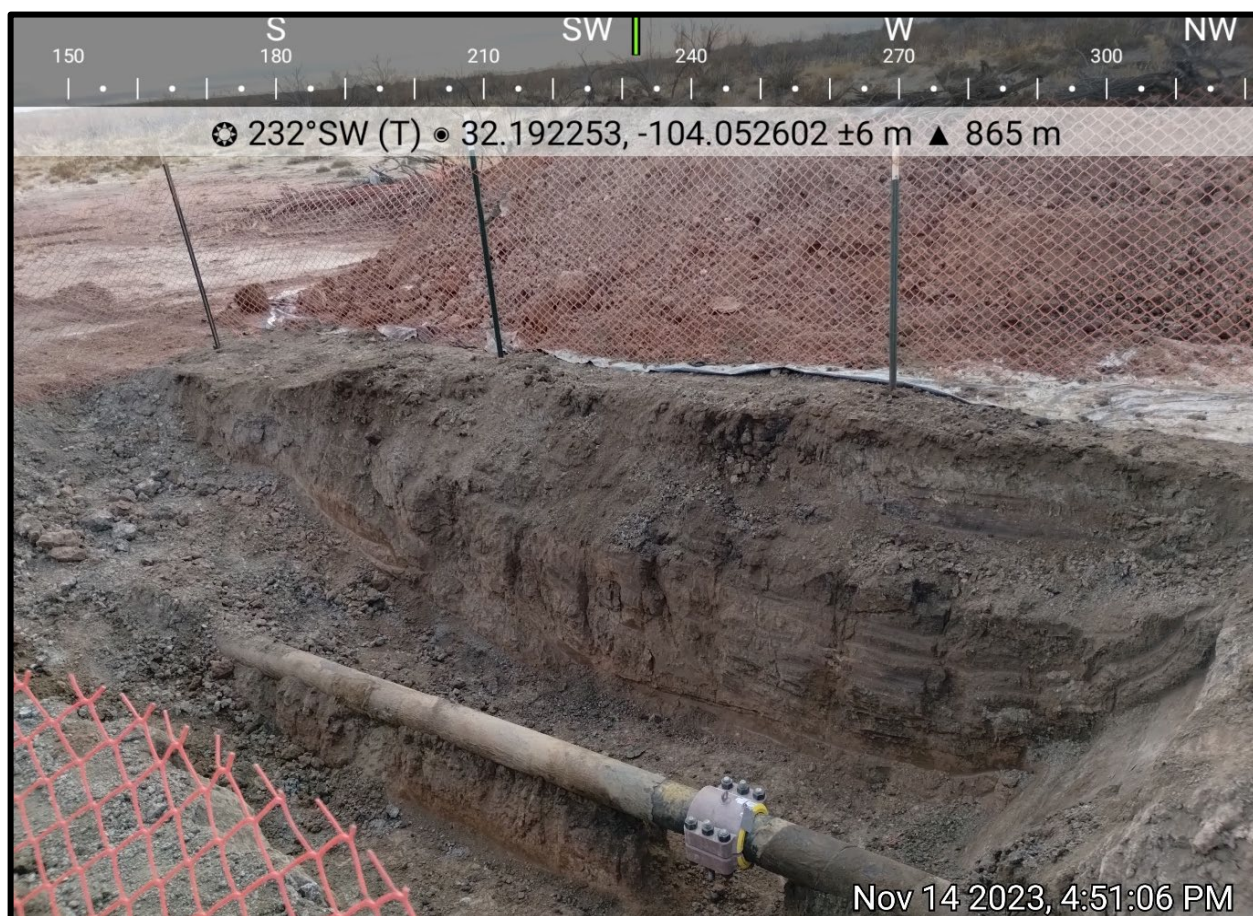


## APPENDIX C

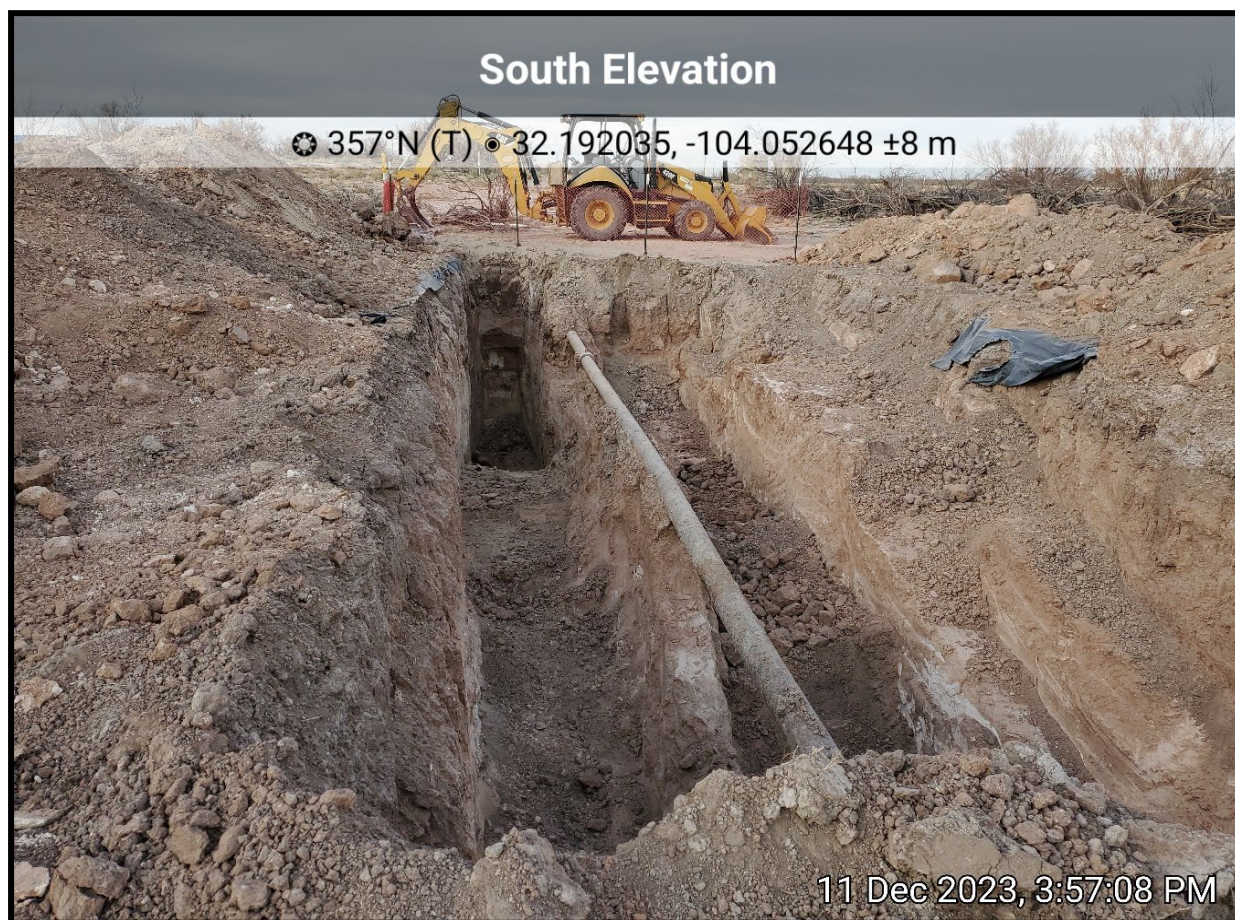
### Photographic Documentation

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View of the initial release and excavation area, facing southwest (November 14, 2023).



View of the excavation during remediation and sampling activities, facing north (December 11, 2023).





View background sample location BS01, facing east (March 21, 2024).



View background sample location BS02, facing southeast (March 21, 2024).



## East Elevation

☼ 293°W (T) • 32.192124, -104.052515 ±4m



View of the final excavation area, facing west (April 16, 2024).

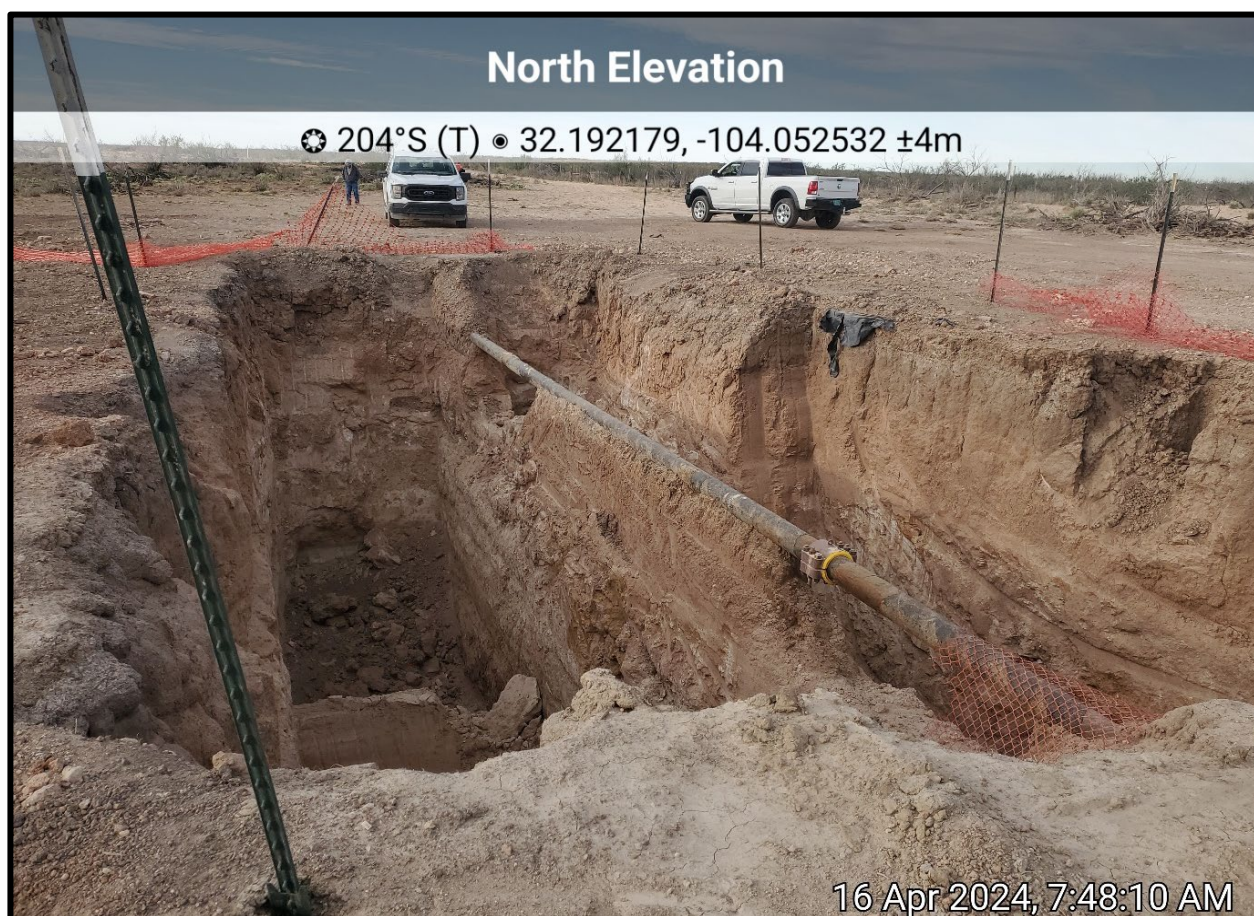
## West Elevation

☼ 115°E (T) • 32.192173, -104.052519 ±3m



View of the final excavation area, facing east (April 16, 2024).





View of the final excavation area, facing south (April 16, 2024).



View of the final excavation area, facing north (April 16, 2024).





View of the backfilled former excavation extent, facing southwest (May 3, 2024).



## APPENDIX D

### Table

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**

Line 1003  
Enterprise Field Services, LLC  
Eddy County, New Mexico  
Ensolum Project No. 03B1226319

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Background Site Specific Chloride Concentration based on New Mexico Administrative Code 19.15.29.11 (A) (5) (c) and (d)			NA					NA				2,270
Composite Excavation Floor Soil Sample Analytical Results												
FS01	12/11/2023	11	<0.020	<0.039	<0.039	<0.079	<0.079	<3.9	220	92	312	1,700
	03/20/2024	18	NS					<10.0	<10.0	<10.0	<10.0	1,020
FS02	12/11/2023	9	<0.099	<0.20	<0.20	<0.40	<0.40	<20	<9.0	<45	<45	1,500
	03/20/2024	18	NS					NS				704
FS03	12/11/2023	9	<0.019	<0.038	<0.038	<0.077	<0.077	<3.8	47	60	107	260
	03/20/2024	18	NS					<10.0	<10.0	<10.0	<10.0	NS
FS04	12/11/2023	9	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	48	<46	48	640
	03/20/2024	18	NS					NS				640
FS05	12/11/2023	9	0.24	2.9	0.85	6.0	9.99	210	13,000	5,800	19,010	2,000
	03/20/2024	18	NS					<10.0	<10.0	<10.0	<10.0	928
Composite Excavation Sidewall Soil Sample Analytical Results												
SW01	12/11/2023	0 - 9	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<9.5	<48	<48	920
	03/20/2024	0 - 9	NS					NS				512
	03/20/2024	9 -18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	134	25.3	159	1,280
	04/16/2024	9 -18	NS					<10.0	<10.0	<10.0	<10.0	NS
SW02	12/11/2023	0 - 9	<0.085	3.8	3.6	35	42.4	450	8,900	3,600	12,542	1,600
	03/20/2024	0 - 9	NS					914	4,790	866	6,570	656
	04/16/2024	0 - 9	NS					1,010	8,130	1,460	10,600	NS
	04/24/2024	0 - 9	NS					<10.0	<10.0	<10.0	<10.0	NS
	03/20/2024	9 -18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	12.0	12.0	1,490
SW03	12/11/2023	0 - 9	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	1,300
	03/20/2024	0 - 9	NS					NS				2,160
	03/20/2024	9 -18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	800
SW04	12/11/2023	0 - 9	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<8.4	<42	<42	430
	03/20/2024	9 -18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	944
SW05	12/11/2023	0 - 9	<0.019	<0.039	<0.039	<0.078	<0.078	<3.9	37	<43	<43	100
	03/20/2024	9 -18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	480
SW06	12/11/2023	0 - 9	<0.020	<0.040	<0.040	<0.079	<0.079	<4.0	58	60	118	170
	03/20/2024	0 - 9	NS					<10.0	56.8	10.3	67.1	NS
	03/20/2024	9 -18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	608



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**

Line 1003  
Enterprise Field Services, LLC  
Eddy County, New Mexico  
Ensolum Project No. 03B1226319

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Background Site Specific Chloride Concentration based on New Mexico Administrative Code 19.15.29.11 (A) (5) (c) and (d)			NA					NA				2,270
Delineation Soil Sample Analytical Results												
NW	12/11/2023	0.25	<0.029	<0.059	<0.059	<0.12	<0.12	<5.9	<9.7	<48	<48	<60
	03/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	7,060
	04/16/2024	0.25	NS					NS				160
NE	12/11/2023	0.25	<0.027	<0.054	<0.054	<0.11	<0.11	<5.4	34	75	109	<60
	03/20/2024	0.25	NS					<10.0	<10.0	<10.0	<10.0	NS
SW	12/11/2023	0.25	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	11	<50	<50	<60
SE	12/11/2023	0.25	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	10	<45	<45	<60
S/S-01	04/16/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	554	351	905	240
	04/24/2024	0.25	NS					<10.0	<10.0	<10.0	<10.0	NS
E 01	04/16/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	172	75.2	247	144
	04/24/2024	0.25	NS					<10.0	<10.0	<10.0	<10.0	NS
E 02	04/16/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,090	276	1,366	336
	04/24/2024	0.25	NS					<10.0	<10.0	<10.0	<10.0	NS
N/N-01	04/16/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	292	112	404	96.0
	04/24/2024	0.25	NS					<10.0	<10.0	<10.0	<10.0	NS
W 01	04/16/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	4,870	1,120	5,990	704
	04/24/2024	0.25	NS					<10.0	<10.0	<10.0	<10.0	NS
W 02	04/16/2024	0.25	<0.050	<0.050	<0.050	0.363	0.363	65.8	6,170	1,310	7,546	336
	04/24/2024	0.25	NS					<10.0	<10.0	<10.0	<10.0	NS
Composite Stockpile Soil Sample Analytical Results												
W-STK	12/11/2023	NA	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	140	120	260	170
E-STK	12/11/2023	NA	<0.019	<0.037	<0.037	<0.075	<0.075	<3.7	500	380	880	640
STOCKPILE 1	03/20/2024	NA	<0.050	<0.050	0.050	0.550	0.600	<10.0	47.4	<10.0	47.4	752
STOCKPILE 2	03/20/2024	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	314	85.4	399	592

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)

Additional Excavation and/or Re-Sample

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - Not Applicable

NE - Not Established

NS - Not Sampled

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

MRO - Motor Oil/Lube Oil Range Organics

TPH - Total Petroleum Hydrocarbon

**TABLE 2**  
**BACKGROUND SOIL SAMPLE ANALYTICAL RESULTS**

Line 1003  
Enterprise Field Services, LLC  
Eddy County, New Mexico  
Ensolum Project No. 03B1226319

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Background Site Specific Chloride Concentration based on New Mexico Administrative Code 19.15.29.11 (A) (5) (c) and (d)			NA					NA				2,270
Background Soil Sample Analytical Results												
BS01	03/21/2024	2	NS					NS				32.0
		4	NS					NS				48.0
		6	NS					NS				160
		8	NS					NS				816
		10	NS					NS				1,060
		12	NS					NS				1,490
		14	NS					NS				2,080
		16	NS					NS				1,360
		18	NS					NS				1,470
BS02	03/21/2024	2	NS					NS				112
		4	NS					NS				1,010
		6	NS					NS				944
		8	NS					NS				1,220
		10	NS					NS				1,730
		12	NS					NS				2,270
		14	NS					NS				1,650
		16	NS					NS				672
		18	NS					NS				1,280

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - Not Applicable

NE - Not Established

NS - Not Sampled

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

MRO - Motor Oil/Lube Oil Range Organics

TPH - Total Petroleum Hydrocarbon



## APPENDIX E

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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Environment Testing

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

December 28, 2023

Kelly Lowery  
Ensolum LLC  
601 Marrenfield #400  
Midland, TX 79701  
TEL: (214) 733-3165  
FAX:

RE: Line 1003

OrderNo.: 2312727

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 11 sample(s) on 12/13/2023 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: FS01

Project: Line 1003

Collection Date: 12/11/2023 1:58:00 PM

Lab ID: 2312727-001

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	220	8.8		mg/Kg	1	12/13/2023 1:00:43 PM
Motor Oil Range Organics (MRO)	92	44		mg/Kg	1	12/13/2023 1:00:43 PM
Surr: DNOP	85.9	69-147		%Rec	1	12/13/2023 1:00:43 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	12/13/2023 5:39:48 PM
Surr: BFB	116	15-244		%Rec	1	12/13/2023 5:39:48 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.020		mg/Kg	1	12/13/2023 5:39:48 PM
Toluene	ND	0.039		mg/Kg	1	12/13/2023 5:39:48 PM
Ethylbenzene	ND	0.039		mg/Kg	1	12/13/2023 5:39:48 PM
Xylenes, Total	ND	0.079		mg/Kg	1	12/13/2023 5:39:48 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	12/13/2023 5:39:48 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	1700	60		mg/Kg	20	12/13/2023 5:00:18 PM

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

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

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: FS02

Project: Line 1003

Collection Date: 12/11/2023 11:30:00 AM

Lab ID: 2312727-002

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	12/13/2023 1:11:10 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/13/2023 1:11:10 PM
Surr: DNOP	86.0	69-147		%Rec	1	12/13/2023 1:11:10 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	12/13/2023 6:03:33 PM
Surr: BFB	101	15-244		%Rec	5	12/13/2023 6:03:33 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.099		mg/Kg	5	12/13/2023 6:03:33 PM
Toluene	ND	0.20		mg/Kg	5	12/13/2023 6:03:33 PM
Ethylbenzene	ND	0.20		mg/Kg	5	12/13/2023 6:03:33 PM
Xylenes, Total	ND	0.40		mg/Kg	5	12/13/2023 6:03:33 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	5	12/13/2023 6:03:33 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	1500	60		mg/Kg	20	12/13/2023 5:15:27 PM

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

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



## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: FS03

Project: Line 1003

Collection Date: 12/11/2023 11:43:00 AM

Lab ID: 2312727-003

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	47	9.2		mg/Kg	1	12/15/2023 9:48:01 AM
Motor Oil Range Organics (MRO)	60	46		mg/Kg	1	12/15/2023 9:48:01 AM
Surr: DNOP	90.7	69-147		%Rec	1	12/15/2023 9:48:01 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	12/13/2023 6:27:22 PM
Surr: BFB	102	15-244		%Rec	1	12/13/2023 6:27:22 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.019		mg/Kg	1	12/13/2023 6:27:22 PM
Toluene	ND	0.038		mg/Kg	1	12/13/2023 6:27:22 PM
Ethylbenzene	ND	0.038		mg/Kg	1	12/13/2023 6:27:22 PM
Xylenes, Total	ND	0.077		mg/Kg	1	12/13/2023 6:27:22 PM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	12/13/2023 6:27:22 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	260	60		mg/Kg	20	12/13/2023 6:00:53 PM

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

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

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: FS04

Project: Line 1003

Collection Date: 12/11/2023 11:53:00 AM

Lab ID: 2312727-004

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	48	9.2		mg/Kg	1	12/13/2023 1:21:39 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/13/2023 1:21:39 PM
Surr: DNOP	88.9	69-147		%Rec	1	12/13/2023 1:21:39 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/13/2023 6:51:00 PM
Surr: BFB	102	15-244		%Rec	1	12/13/2023 6:51:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.025		mg/Kg	1	12/13/2023 6:51:00 PM
Toluene	ND	0.050		mg/Kg	1	12/13/2023 6:51:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/13/2023 6:51:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/13/2023 6:51:00 PM
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	12/13/2023 6:51:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	640	60		mg/Kg	20	12/13/2023 7:16:39 PM

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

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

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: FS05

Project: Line 1003

Collection Date: 12/11/2023 12:02:00 PM

Lab ID: 2312727-005

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	13000	960		mg/Kg	100	12/15/2023 10:59:28 AM
Motor Oil Range Organics (MRO)	5800	4800		mg/Kg	100	12/15/2023 10:59:28 AM
Surr: DNOP	0	69-147	S	%Rec	100	12/15/2023 10:59:28 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	210	20		mg/Kg	5	12/13/2023 7:15:12 PM
Surr: BFB	465	15-244	S	%Rec	5	12/13/2023 7:15:12 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	0.24	0.099		mg/Kg	5	12/13/2023 7:15:12 PM
Toluene	2.9	0.20		mg/Kg	5	12/13/2023 7:15:12 PM
Ethylbenzene	0.85	0.20		mg/Kg	5	12/13/2023 7:15:12 PM
Xylenes, Total	6.0	0.40		mg/Kg	5	12/13/2023 7:15:12 PM
Surr: 4-Bromofluorobenzene	120	39.1-146		%Rec	5	12/13/2023 7:15:12 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	2000	60		mg/Kg	20	12/13/2023 7:31:48 PM

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

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

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SW01

Project: Line 1003

Collection Date: 12/11/2023 3:13:00 PM

Lab ID: 2312727-006

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/13/2023 1:32:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/13/2023 1:32:09 PM
Surr: DNOP	88.9	69-147		%Rec	1	12/13/2023 1:32:09 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	12/13/2023 7:38:58 PM
Surr: BFB	109	15-244		%Rec	1	12/13/2023 7:38:58 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.026		mg/Kg	1	12/13/2023 7:38:58 PM
Toluene	ND	0.052		mg/Kg	1	12/13/2023 7:38:58 PM
Ethylbenzene	ND	0.052		mg/Kg	1	12/13/2023 7:38:58 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/13/2023 7:38:58 PM
Surr: 4-Bromofluorobenzene	99.3	39.1-146		%Rec	1	12/13/2023 7:38:58 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	920	60		mg/Kg	20	12/13/2023 7:46:58 PM

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

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

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SW02

Project: Line 1003

Collection Date: 12/11/2023 11:26:00 AM

Lab ID: 2312727-007

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: DGH
Diesel Range Organics (DRO)	8900	93		mg/Kg	10	12/14/2023 9:18:37 AM
Motor Oil Range Organics (MRO)	3600	470		mg/Kg	10	12/14/2023 9:18:37 AM
Surr: DNOP	0	69-147	S	%Rec	10	12/14/2023 9:18:37 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	450	17		mg/Kg	5	12/13/2023 8:02:48 PM
Surr: BFB	1000	15-244	S	%Rec	5	12/13/2023 8:02:48 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.085		mg/Kg	5	12/13/2023 8:02:48 PM
Toluene	3.8	0.17		mg/Kg	5	12/13/2023 8:02:48 PM
Ethylbenzene	3.6	0.17		mg/Kg	5	12/13/2023 8:02:48 PM
Xylenes, Total	35	0.34		mg/Kg	5	12/13/2023 8:02:48 PM
Surr: 4-Bromofluorobenzene	166	39.1-146	S	%Rec	5	12/13/2023 8:02:48 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	1600	60		mg/Kg	20	12/13/2023 8:02:07 PM

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

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

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SW03

Project: Line 1003

Collection Date: 12/11/2023 11:35:00 AM

Lab ID: 2312727-008

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/13/2023 1:42:41 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/13/2023 1:42:41 PM
Surr: DNOP	86.9	69-147		%Rec	1	12/13/2023 1:42:41 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/13/2023 9:38:00 PM
Surr: BFB	102	15-244		%Rec	1	12/13/2023 9:38:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.025		mg/Kg	1	12/13/2023 9:38:00 PM
Toluene	ND	0.049		mg/Kg	1	12/13/2023 9:38:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/13/2023 9:38:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/13/2023 9:38:00 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	12/13/2023 9:38:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	1300	60		mg/Kg	20	12/13/2023 8:17:17 PM

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

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



## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SW04

Project: Line 1003

Collection Date: 12/11/2023 11:46:00 AM

Lab ID: 2312727-009

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	12/13/2023 1:53:12 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	12/13/2023 1:53:12 PM
Surr: DNOP	84.6	69-147		%Rec	1	12/13/2023 1:53:12 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	12/13/2023 11:13:27 PM
Surr: BFB	101	15-244		%Rec	1	12/13/2023 11:13:27 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.019		mg/Kg	1	12/13/2023 11:13:27 PM
Toluene	ND	0.038		mg/Kg	1	12/13/2023 11:13:27 PM
Ethylbenzene	ND	0.038		mg/Kg	1	12/13/2023 11:13:27 PM
Xylenes, Total	ND	0.076		mg/Kg	1	12/13/2023 11:13:27 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	12/13/2023 11:13:27 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	430	60		mg/Kg	20	12/13/2023 8:32:26 PM

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

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

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SW05

Project: Line 1003

Collection Date: 12/11/2023 11:56:00 AM

Lab ID: 2312727-010

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	37	8.6		mg/Kg	1	12/13/2023 2:03:45 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	12/13/2023 2:03:45 PM
Surr: DNOP	87.1	69-147		%Rec	1	12/13/2023 2:03:45 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	12/13/2023 11:37:36 PM
Surr: BFB	99.8	15-244		%Rec	1	12/13/2023 11:37:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.019		mg/Kg	1	12/13/2023 11:37:36 PM
Toluene	ND	0.039		mg/Kg	1	12/13/2023 11:37:36 PM
Ethylbenzene	ND	0.039		mg/Kg	1	12/13/2023 11:37:36 PM
Xylenes, Total	ND	0.078		mg/Kg	1	12/13/2023 11:37:36 PM
Surr: 4-Bromofluorobenzene	99.9	39.1-146		%Rec	1	12/13/2023 11:37:36 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	100	60		mg/Kg	20	12/13/2023 8:47:35 PM

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

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

## Analytical Report

Lab Order 2312727

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SW06

Project: Line 1003

Collection Date: 12/11/2023 11:58:00 AM

Lab ID: 2312727-011

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	58	9.5		mg/Kg	1	12/13/2023 2:14:18 PM
Motor Oil Range Organics (MRO)	60	48		mg/Kg	1	12/13/2023 2:14:18 PM
Surr: DNOP	91.6	69-147		%Rec	1	12/13/2023 2:14:18 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	12/14/2023 12:01:21 AM
Surr: BFB	99.3	15-244		%Rec	1	12/14/2023 12:01:21 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.020		mg/Kg	1	12/14/2023 12:01:21 AM
Toluene	ND	0.040		mg/Kg	1	12/14/2023 12:01:21 AM
Ethylbenzene	ND	0.040		mg/Kg	1	12/14/2023 12:01:21 AM
Xylenes, Total	ND	0.079		mg/Kg	1	12/14/2023 12:01:21 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	12/14/2023 12:01:21 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	170	60		mg/Kg	20	12/13/2023 9:02:44 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312727  
28-Dec-23

Client: Ensolum LLC  
Project: Line 1003

Sample ID: MB-79363	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 79363		RunNo: 101822							
Prep Date: 12/13/2023	Analysis Date: 12/13/2023		SeqNo: 3754014		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79363	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 79363		RunNo: 101822							
Prep Date: 12/13/2023	Analysis Date: 12/13/2023		SeqNo: 3754015		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

\*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312727

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>LCS-79345</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79345</b>			RunNo: <b>101807</b>						
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752755</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	61.9	130			
Surr: DNOP	4.2		5.000		83.8	69	147			

Sample ID: <b>MB-79345</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79345</b>			RunNo: <b>101807</b>						
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752756</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.0	69	147			

Sample ID: <b>MB-79324</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79324</b>			RunNo: <b>101809</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752938</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		105	69	147			

Sample ID: <b>LCS-79324</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79324</b>			RunNo: <b>101809</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752939</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.5	69	147			

Sample ID: <b>MB-79326</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79326</b>			RunNo: <b>101809</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3754791</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.3	69	147			

Sample ID: <b>LCS-79326</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79326</b>			RunNo: <b>101809</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3754792</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		73.1	69	147			

**Qualifiers:**

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312727

28-Dec-23

Client: Ensolum LLC

Project: Line 1003

Sample ID: 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752235		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.1	70	130			
Surr: BFB	2100		1000		209	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752237		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	15	244			

Qualifiers:

\*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312727

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>100NG BTEX LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>BS101798</b>		RunNo: <b>101798</b>							
Prep Date:	Analysis Date: <b>12/13/2023</b>		SeqNo: <b>3752248</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	70	130			
Toluene	0.92	0.050	1.000	0	91.7	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.1	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>BS101798</b>		RunNo: <b>101798</b>							
Prep Date:	Analysis Date: <b>12/13/2023</b>		SeqNo: <b>3752249</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: <b>2312727-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>FS01</b>	Batch ID: <b>BS101798</b>		RunNo: <b>101798</b>							
Prep Date:	Analysis Date: <b>12/14/2023</b>		SeqNo: <b>3753479</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.020	0.7899	0	90.6	70	130			
Toluene	0.73	0.039	0.7899	0	92.0	70	130			
Ethylbenzene	0.73	0.039	0.7899	0.009637	91.7	70	130			
Xylenes, Total	2.3	0.079	2.370	0.04028	93.4	70	130			
Surr: 4-Bromofluorobenzene	0.80		0.7899		102	39.1	146			

Sample ID: <b>2312727-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>FS01</b>	Batch ID: <b>BS101798</b>		RunNo: <b>101798</b>							
Prep Date:	Analysis Date: <b>12/14/2023</b>		SeqNo: <b>3753480</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.020	0.7899	0	86.9	70	130	4.15	20	
Toluene	0.71	0.039	0.7899	0	90.2	70	130	2.05	20	
Ethylbenzene	0.73	0.039	0.7899	0.009637	91.1	70	130	0.616	20	
Xylenes, Total	2.2	0.079	2.370	0.04028	92.2	70	130	1.24	20	
Surr: 4-Bromofluorobenzene	0.81		0.7899		102	39.1	146	0	0	

**Qualifiers:**

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

## Sample Log-In Check List

Client Name: Ensolum LLC

Work Order Number: 2312727

RcptNo: 1

Received By: Tracy Casarrubias

12/13/2023 7:50:00 AM

Completed By: Tracy Casarrubias

12/13/2023 8:17:28 AM

Reviewed By:

m 12/13/23

Chain of Custody

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

Log In

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

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: m 12/13/23Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: City, state, and zip code on mailing address and clients date and time of relinquishment ar

16. Additional remarks:

Date and time of client's relinquish signature does not match drivers

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes	Yogi		

## Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush

24 hrs

Project Name:

Line 1003

Project #:

03B1226309

Project Manager: Kelly Lowery

Sampler: SK

On Ice: ☒ Yes ☐ No

40g

# of Coolers: 1

Cooler Temp (including off): 54.0 ± 0.1 ± 5.5°

Container Type and #

Preservative Type

HEAL No.

2312323

001

002

003

004

005

006

007

008

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Environment Testing

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

December 28, 2023

Kelly Lowery  
Ensolum LLC  
601 Marrenfield #400  
Midland, TX 79701  
TEL: (214) 733-3165  
FAX:

RE: Line 1003

OrderNo.: 2312734

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 12/13/2023 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2312734

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SW

Project: Line 1003

Collection Date: 12/11/2023 3:48:00 PM

Lab ID: 2312734-001

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	11	9.9		mg/Kg	1	12/14/2023 10:28:01 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2023 10:28:01 AM
Surr: DNOP	105	69-147		%Rec	1	12/14/2023 10:28:01 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	12/14/2023 3:35:35 AM
Surr: BFB	101	15-244		%Rec	1	12/14/2023 3:35:35 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.026		mg/Kg	1	12/14/2023 3:35:35 AM
Toluene	ND	0.053		mg/Kg	1	12/14/2023 3:35:35 AM
Ethylbenzene	ND	0.053		mg/Kg	1	12/14/2023 3:35:35 AM
Xylenes, Total	ND	0.11		mg/Kg	1	12/14/2023 3:35:35 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	12/14/2023 3:35:35 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	12/13/2023 11:34:21 PM

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

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

## Analytical Report

Lab Order 2312734

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: NW

Project: Line 1003

Collection Date: 12/11/2023 3:49:00 PM

Lab ID: 2312734-002

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2023 11:16:26 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2023 11:16:26 AM
Surr: DNOP	91.8	69-147		%Rec	1	12/14/2023 11:16:26 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg	1	12/13/2023 11:51:00 PM
Surr: BFB	99.7	15-244		%Rec	1	12/13/2023 11:51:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.029		mg/Kg	1	12/13/2023 11:51:00 PM
Toluene	ND	0.059		mg/Kg	1	12/13/2023 11:51:00 PM
Ethylbenzene	ND	0.059		mg/Kg	1	12/13/2023 11:51:00 PM
Xylenes, Total	ND	0.12		mg/Kg	1	12/13/2023 11:51:00 PM
Surr: 4-Bromofluorobenzene	99.4	39.1-146		%Rec	1	12/13/2023 11:51:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	12/13/2023 11:49:30 PM

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

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

## Analytical Report

Lab Order 2312734

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: NE

Project: Line 1003

Collection Date: 12/11/2023 3:50:00 PM

Lab ID: 2312734-003

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	34	9.9		mg/Kg	1	12/14/2023 7:44:14 AM
Motor Oil Range Organics (MRO)	75	50		mg/Kg	1	12/14/2023 7:44:14 AM
Surr: DNOP	108	69-147		%Rec	1	12/14/2023 7:44:14 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	12/14/2023 12:56:00 AM
Surr: BFB	100	15-244		%Rec	1	12/14/2023 12:56:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.027		mg/Kg	1	12/14/2023 12:56:00 AM
Toluene	ND	0.054		mg/Kg	1	12/14/2023 12:56:00 AM
Ethylbenzene	ND	0.054		mg/Kg	1	12/14/2023 12:56:00 AM
Xylenes, Total	ND	0.11		mg/Kg	1	12/14/2023 12:56:00 AM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	12/14/2023 12:56:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	12/13/2023 10:41:20 PM

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

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



## Analytical Report

Lab Order 2312734

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SE

Project: Line 1003

Collection Date: 12/11/2023 3:51:00 PM

Lab ID: 2312734-004

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: DGH
Diesel Range Organics (DRO)	9.9	9.0		mg/Kg	1	12/14/2023 8:07:51 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/14/2023 8:07:51 AM
Surr: DNOP	106	69-147		%Rec	1	12/14/2023 8:07:51 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2023 2:02:00 AM
Surr: BFB	101	15-244		%Rec	1	12/14/2023 2:02:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/14/2023 2:02:00 AM
Toluene	ND	0.046		mg/Kg	1	12/14/2023 2:02:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2023 2:02:00 AM
Xylenes, Total	ND	0.091		mg/Kg	1	12/14/2023 2:02:00 AM
Surr: 4-Bromofluorobenzene	99.4	39.1-146		%Rec	1	12/14/2023 2:02:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/13/2023 11:18:34 PM

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

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312734

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>MB-79363</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBS</b>	Batch ID: <b>79363</b>		RunNo: <b>101822</b>							
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/13/2023</b>		SeqNo: <b>3754014</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-79363</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>79363</b>		RunNo: <b>101822</b>							
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/13/2023</b>		SeqNo: <b>3754015</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Sample ID: <b>MB-79375</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBS</b>	Batch ID: <b>79375</b>		RunNo: <b>101822</b>							
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/14/2023</b>		SeqNo: <b>3754047</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-79375</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>79375</b>		RunNo: <b>101822</b>							
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/14/2023</b>		SeqNo: <b>3754048</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

**Qualifiers:**

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312734

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>LCS-79345</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79345</b>			RunNo: <b>101807</b>						
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752755</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	61.9	130			
Surr: DNOP	4.2		5.000		83.8	69	147			

Sample ID: <b>MB-79345</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79345</b>			RunNo: <b>101807</b>						
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752756</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.0	69	147			

Sample ID: <b>MB-79324</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79324</b>			RunNo: <b>101809</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752938</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		105	69	147			

Sample ID: <b>LCS-79324</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79324</b>			RunNo: <b>101809</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752939</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.5	69	147			

Sample ID: <b>MB-79326</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79326</b>			RunNo: <b>101809</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3754791</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.3	69	147			

Sample ID: <b>LCS-79326</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79326</b>			RunNo: <b>101809</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3754792</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		73.1	69	147			

**Qualifiers:**

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312734

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>GS101798</b>			RunNo: <b>101798</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752235</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.1	70	130			
Surr: BFB	2100		1000		209	15	244			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>GS101798</b>			RunNo: <b>101798</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752237</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	15	244			

Sample ID: <b>lcs-79309</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79309</b>			RunNo: <b>101820</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753733</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		213	15	244			

Sample ID: <b>mb-79309</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79309</b>			RunNo: <b>101820</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753734</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		106	15	244			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>GS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753757</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	70	130			
Surr: BFB	2300		1000		227	15	244			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>GS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753758</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	15	244			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2312734

28-Dec-23

Client: Ensolum LLC

Project: Line 1003

Sample ID: 2312734-002ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: NW	Batch ID: GS101820		RunNo: 101820							
Prep Date:	Analysis Date: 12/14/2023		SeqNo: 3753760		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.9	29.31	0	86.8	70	130			
Surr: BFB	2500		1172		213	15	244			

Sample ID: 2312734-002amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: NW	Batch ID: GS101820		RunNo: 101820							
Prep Date:	Analysis Date: 12/14/2023		SeqNo: 3753761		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.9	29.31	0	84.4	70	130	2.85	20	
Surr: BFB	2500		1172		217	15	244	0	0	

### Qualifiers:

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312734

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>100NG BTEX LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>BS101798</b>			RunNo: <b>101798</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752248</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	70	130			
Toluene	0.92	0.050	1.000	0	91.7	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.1	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>BS101798</b>			RunNo: <b>101798</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3752249</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: <b>lcs-79309</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79309</b>			RunNo: <b>101820</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753933</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	39.1	146			

Sample ID: <b>mb-79309</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79309</b>			RunNo: <b>101820</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753935</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>BS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753975</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	70	130			
Toluene	0.97	0.050	1.000	0	97.2	70	130			
Ethylbenzene	0.99	0.050	1.000	0	98.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.8	70	130			

**Qualifiers:**

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312734

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>BS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753975</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		105	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>BS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753976</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	39.1	146			

Sample ID: <b>2312734-003ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>NE</b>	Batch ID: <b>BS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/14/2023</b>			SeqNo: <b>3753981</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.027	1.073	0	93.8	70	130			
Toluene	1.0	0.054	1.073	0	95.1	70	130			
Ethylbenzene	1.0	0.054	1.073	0	96.3	70	130			
Xylenes, Total	3.1	0.11	3.219	0	97.0	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.073		99.7	39.1	146			

Sample ID: <b>2312734-003amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>NE</b>	Batch ID: <b>BS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/14/2023</b>			SeqNo: <b>3753983</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.027	1.073	0	96.5	70	130	2.82	20	
Toluene	1.1	0.054	1.073	0	98.3	70	130	3.31	20	
Ethylbenzene	1.1	0.054	1.073	0	99.9	70	130	3.64	20	
Xylenes, Total	3.2	0.11	3.219	0	101	70	130	3.93	20	
Surr: 4-Bromofluorobenzene	1.1		1.073		102	39.1	146	0	0	

**Qualifiers:**

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





Environment Testin

Eurofins Environment Testing South  
Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

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

Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Ensolum LLC

Work Order Number: 2312734

RcptNo: 1

Received By: Tracy Casarrubias 12/13/2023 7:50:00 AM

Completed By: Tracy Casarrubias 12/13/2023 8:52:55 AM

Reviewed By: *m 12/13/23*Chain of Custody

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

Log In

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

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: *m 12/13/23*Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: City, state, and zip code on mailing address and clients date and time of relinquishment ar

16. Additional remarks:

Date and time of client's relinquish signature does not match drivers

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

**Mailing Address:** 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: [klowery@ensolum.com](mailto:klowery@ensolum.com)

QA/QC Package:

☒ Standard

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

□ EDD (Type)

**Turn-Around Time:**

☐ Standard ☒ Rush

Project Name:

Line 1003

Project #:

03B1226319

**Project Manager:** Kelly Lowery

Sampler: 4K

On ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---------	---	-----------------------------

# of Coolers 1

Cooler Tempm...

## Container

Type and #

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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100	30	1	100
-----	----	---	-----

3 2 1 1

20	1	1
----	---	---

823

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

Relinquished by:

Received by:	Via:	Date	Time
--------------	------	------	------

Relinquished by:

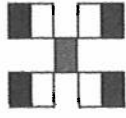
Received by: Via: courier Date \_\_\_\_\_ Time \_\_\_\_\_

Aluminum

12/13/23

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

Released to Imaging: 1/27/2026 3:12:33 PM



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

Remarks:	Bill to: Tom Long
----------	-------------------

Email: [tjlong@epord.com](mailto:tjlong@epord.com)  
Enterprise Field Services, LLC

Pavkev/AFE/NonAFE:

V68035



Environment Testing

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

December 28, 2023

Kelly Lowery  
Ensolum LLC  
601 Marrenfield #400  
Midland, TX 79701  
TEL: (214) 733-3165  
FAX:

RE: Line 1003

OrderNo.: 2312735

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 12/13/2023 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2312735

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: W-STK

Project: Line 1003

Collection Date: 12/11/2023 3:42:00 PM

Lab ID: 2312735-001

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	140	8.5		mg/Kg	1	12/15/2023 11:01:30 AM
Motor Oil Range Organics (MRO)	120	42		mg/Kg	1	12/15/2023 11:01:30 AM
Surr: DNOP	76.4	69-147		%Rec	1	12/15/2023 11:01:30 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/14/2023 2:24:00 AM
Surr: BFB	106	15-244		%Rec	1	12/14/2023 2:24:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/14/2023 2:24:00 AM
Toluene	ND	0.050		mg/Kg	1	12/14/2023 2:24:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/14/2023 2:24:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/14/2023 2:24:00 AM
Surr: 4-Bromofluorobenzene	99.9	39.1-146		%Rec	1	12/14/2023 2:24:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	170	60		mg/Kg	20	12/14/2023 12:20:38 AM

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

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

## Analytical Report

Lab Order 2312735

Date Reported: 12/28/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: E-STK

Project: Line 1003

Collection Date: 12/11/2023 3:45:00 PM

Lab ID: 2312735-002

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	500	18		mg/Kg	2	12/15/2023 11:26:04 AM
Motor Oil Range Organics (MRO)	380	92		mg/Kg	2	12/15/2023 11:26:04 AM
Surr: DNOP	93.6	69-147		%Rec	2	12/15/2023 11:26:04 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	12/14/2023 2:46:00 AM
Surr: BFB	103	15-244		%Rec	1	12/14/2023 2:46:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	12/14/2023 2:46:00 AM
Toluene	ND	0.037		mg/Kg	1	12/14/2023 2:46:00 AM
Ethylbenzene	ND	0.037		mg/Kg	1	12/14/2023 2:46:00 AM
Xylenes, Total	ND	0.075		mg/Kg	1	12/14/2023 2:46:00 AM
Surr: 4-Bromofluorobenzene	99.4	39.1-146		%Rec	1	12/14/2023 2:46:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: RBC
Chloride	640	60		mg/Kg	20	12/14/2023 4:11:06 PM

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

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



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312735

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>MB-79375</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBS</b>	Batch ID: <b>79375</b>		RunNo: <b>101822</b>							
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/14/2023</b>		SeqNo: <b>3754047</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-79375</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>79375</b>		RunNo: <b>101822</b>							
Prep Date: <b>12/13/2023</b>	Analysis Date: <b>12/14/2023</b>		SeqNo: <b>3754048</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Sample ID: <b>MB-79380</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBS</b>	Batch ID: <b>79380</b>		RunNo: <b>101858</b>							
Prep Date: <b>12/14/2023</b>	Analysis Date: <b>12/14/2023</b>		SeqNo: <b>3755669</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-79380</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>79380</b>		RunNo: <b>101858</b>							
Prep Date: <b>12/14/2023</b>	Analysis Date: <b>12/14/2023</b>		SeqNo: <b>3755670</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

**Qualifiers:**

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312735  
28-Dec-23

Client: Ensolum LLC  
Project: Line 1003

Sample ID: MB-79350	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79350	RunNo: 101833								
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754727	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	69	147			

Sample ID: LCS-79350	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79350	RunNo: 101833								
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754728	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	49	10	50.00	0	97.5	61.9	130			
Surr: DNOP	4.5		5.000		90.9	69	147			

Qualifiers:

\*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312735

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>lcs-79309</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>79309</b>			RunNo: <b>101820</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753733</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		213	15	244			

Sample ID: <b>mb-79309</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>79309</b>			RunNo: <b>101820</b>						
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753734</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		106	15	244			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>GS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753757</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	70	130			
Surr: BFB	2300		1000		227	15	244			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>GS101820</b>			RunNo: <b>101820</b>						
Prep Date:	Analysis Date: <b>12/13/2023</b>			SeqNo: <b>3753758</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	15	244			

**Qualifiers:**

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312735

28-Dec-23

**Client:** Ensolum LLC**Project:** Line 1003

Sample ID: <b>lcs-79309</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>79309</b>		RunNo: <b>101820</b>							
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>		SeqNo: <b>3753933</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	39.1	146			

Sample ID: <b>mb-79309</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>79309</b>		RunNo: <b>101820</b>							
Prep Date: <b>12/12/2023</b>	Analysis Date: <b>12/13/2023</b>		SeqNo: <b>3753935</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>BS101820</b>		RunNo: <b>101820</b>							
Prep Date:	Analysis Date: <b>12/13/2023</b>		SeqNo: <b>3753975</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	70	130			
Toluene	0.97	0.050	1.000	0	97.2	70	130			
Ethylbenzene	0.99	0.050	1.000	0	98.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.8	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>BS101820</b>		RunNo: <b>101820</b>							
Prep Date:	Analysis Date: <b>12/13/2023</b>		SeqNo: <b>3753976</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	39.1	146			

**Qualifiers:**

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



Environment Testin

Eurofins Environment Testing South  
Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

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

Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Ensolum LLC

Work Order Number: 2312735

RcptNo: 1

Received By: Tracy Casarrubias 12/13/2023 7:50:00 AM

Completed By: Tracy Casarrubias 12/13/2023 8:58:11 AM

Reviewed By: *ju 12/13/23*Chain of Custody

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

Log In

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

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: *ju 12/13/23*Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: City, state, and zip code on mailing address and clients date and time of relinquishment ar

16. Additional remarks:

Date and time of client's relinquish signature does not match drivers

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes	Yogi		







PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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March 21, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LINE 1003

Enclosed are the results of analyses for samples received by the laboratory on 03/20/24 15:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 06 0-9' (H241463-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
<b>DRO &gt;C10-C28*</b>	<b>56.8</b>	10.0	03/21/2024	ND	234	117	200	8.53	
<b>EXT DRO &gt;C28-C36</b>	<b>10.3</b>	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

**Sample ID: SW 06 9-18' (H241463-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2024	ND	2.04	102	2.00	8.44	
Toluene*	<0.050	0.050	03/21/2024	ND	2.03	102	2.00	8.86	
Ethylbenzene*	<0.050	0.050	03/21/2024	ND	1.99	99.3	2.00	8.98	
Total Xylenes*	<0.150	0.150	03/21/2024	ND	6.05	101	6.00	8.03	
Total BTX	<0.300	0.300	03/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>608</b>	16.0	03/21/2024	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 06 9-18' (H241463-02)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane	85.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	88.6 %	49.1-148							

**Sample ID: FS 01 18' (H241463-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	03/21/2024	ND	432	108	400	7.14	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane	102 %	48.2-134							
Surrogate: 1-Chlorooctadecane	104 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS 02 18' (H241463-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/21/2024	ND	432	108	400	7.14	

**Sample ID: FS 03 18' (H241463-05)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

**Sample ID: FS 04 18' (H241463-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/21/2024	ND	432	108	400	7.14	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS 05 18' (H241463-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	03/21/2024	ND	432	108	400	3.64	QM-07
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane		101 %	48.2-134						
Surrogate: 1-Chlorooctadecane		101 %	49.1-148						

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: STOCKPILE 1 (H241463-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2024	ND	2.04	102	2.00	8.44	
Toluene*	<0.050	0.050	03/21/2024	ND	2.03	102	2.00	8.86	
Ethylbenzene*	0.050	0.050	03/21/2024	ND	1.99	99.3	2.00	8.98	
Total Xylenes*	0.550	0.150	03/21/2024	ND	6.05	101	6.00	8.03	
Total BTEX	0.600	0.300	03/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	47.4	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: STOCKPILE 2 (H241463-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2024	ND	2.04	102	2.00	8.44		
Toluene*	<0.050	0.050	03/21/2024	ND	2.03	102	2.00	8.86		
Ethylbenzene*	<0.050	0.050	03/21/2024	ND	1.99	99.3	2.00	8.98		
Total Xylenes*	<0.150	0.150	03/21/2024	ND	6.05	101	6.00	8.03		
Total BTEx	<0.300	0.300	03/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	314	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	85.4	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: NE (H241463-10)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane	79.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	77.8 %	49.1-148							

**Sample ID: SW 01 0-9' (H241463-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/21/2024	ND	432	108	400	3.64	

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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 01 9-18' (H241463-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2024	ND	2.04	102	2.00	8.44	
Toluene*	<0.050	0.050	03/21/2024	ND	2.03	102	2.00	8.86	
Ethylbenzene*	<0.050	0.050	03/21/2024	ND	1.99	99.3	2.00	8.98	
Total Xylenes*	<0.150	0.150	03/21/2024	ND	6.05	101	6.00	8.03	
Total BTEx	<0.300	0.300	03/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	134	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	25.3	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 02 0-9' (H241463-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	03/21/2024	ND	432	108	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	914	10.0	03/21/2024	ND	219	109	200	7.55		
DRO >C10-C28*	4790	10.0	03/21/2024	ND	234	117	200	8.53		
EXT DRO >C28-C36	866	10.0	03/21/2024	ND						
Surrogate: 1-Chlorooctane	183 %	48.2-134								
Surrogate: 1-Chlorooctadecane	102 %	49.1-148								

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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 02 9-18' (H241463-14)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2024	ND	1.70	84.9	2.00	12.6	
Toluene*	<0.050	0.050	03/21/2024	ND	1.83	91.3	2.00	10.3	
Ethylbenzene*	<0.050	0.050	03/21/2024	ND	1.80	90.0	2.00	10.2	
Total Xylenes*	<0.150	0.150	03/21/2024	ND	5.46	91.1	6.00	9.87	
Total BTX	<0.300	0.300	03/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	12.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
KELLY LOWERY  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 03/20/2024  
Reported: 03/21/2024  
Project Name: LINE 1003  
Project Number: 03B1226319  
Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Dionica Hinojos

**Sample ID: SW 03 0-9' (H241463-15)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	03/21/2024	ND	432	108	400	3.64		

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 03 9-18' (H241463-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2024	ND	1.70	84.9	2.00	12.6		
Toluene*	<0.050	0.050	03/21/2024	ND	1.83	91.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	03/21/2024	ND	1.80	90.0	2.00	10.2		
Total Xylenes*	<0.150	0.150	03/21/2024	ND	5.46	91.1	6.00	9.87		
Total BTX	<0.300	0.300	03/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	219	109	200	7.55	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	234	117	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 04 9-18' (H241463-17)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2024	ND	1.70	84.9	2.00	12.6	
Toluene*	<0.050	0.050	03/21/2024	ND	1.83	91.3	2.00	10.3	
Ethylbenzene*	<0.050	0.050	03/21/2024	ND	1.80	90.0	2.00	10.2	
Total Xylenes*	<0.150	0.150	03/21/2024	ND	5.46	91.1	6.00	9.87	
Total BTEX	<0.300	0.300	03/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	231	115	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	210	105	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 05 9-18' (H241463-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2024	ND	1.70	84.9	2.00	12.6		
Toluene*	<0.050	0.050	03/21/2024	ND	1.83	91.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	03/21/2024	ND	1.80	90.0	2.00	10.2		
Total Xylenes*	<0.150	0.150	03/21/2024	ND	5.46	91.1	6.00	9.87		
Total BTEX	<0.300	0.300	03/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	231	115	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	210	105	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/20/2024  
 Reported: 03/21/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: NW (H241463-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2024	ND	1.70	84.9	2.00	12.6		
Toluene*	<0.050	0.050	03/21/2024	ND	1.83	91.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	03/21/2024	ND	1.80	90.0	2.00	10.2		
Total Xylenes*	<0.150	0.150	03/21/2024	ND	5.46	91.1	6.00	9.87		
Total BTEX	<0.300	0.300	03/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	03/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	231	115	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	210	105	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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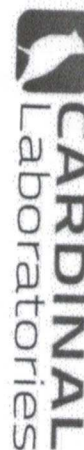
\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**Company Name:** Ensolum, LLC  
**Project Manager:** Kelly Lowery  
**Address:** 601 N. Martenfield St. STE 400  
**City:** Midland **State:** TX **Zip:** 79701  
**Phone #:** 214-733-3165 **Email:** klowery@ensolum.com  
**Project #:** 0351276319 **Project Owner:**  
**Project Name:** Linc 1053  
**Project Location:**  
**Sample Name:**  
**Sample Location:**

**BILL TO**  
**P.O. #:**  
**Company:**  
**Attn:**  
**Address:**  
**City:**  
**State:** **Zip:**  
**Phone #:**  
**Email:**

**Lab I.D.** **Sample I.D.** **Sample Depth (feet)**

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE: ICE COOL OTHER :			
1	SW06	0-9	C	1									
3	SW06	9-18											
4	FS01	19											
5	FS02	19											
6	FS03	19											
7	FS04	18											
8	FS05	18											
9	stack pile 1	-											
10	stack pile 2	-											

**PLATE NOTE:** Liability and OSHA compliance records for any data relating whether based in torsion or test shall be limited to the answer paid by the client for the analysis.  
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 All clients including those for negligence and any other liability shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.  
 In no event shall Cardinal be liable for negligence or consequential damages incurred by the client, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

**Relinquished By:** *[Signature]* **Date:** 5-20-24 **Received By:** *[Signature]* **Date:** 5-20-24

**Relinquished By:** *[Signature]* **Date:** 5-20-24 **Received By:** *[Signature]* **Date:** 5-20-24

**Delivered By:** (Circle One) **Observed Temp. °C** 24.00 **Sample Condition** ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ No **CHECKED BY:** *[Signature]* **(Initials)**

**Remarks:** 24 hours **Thermometer ID** #44504 **Correction Factor** 45°C **Correction** 3-20-24 **Observed Temp. °C** **Thermometer ID** **Correction Factor** **Correction** **Observed Temp. °C**

**Verbal Result:** ☐ Yes ☒ No **Add'l Phone #:**

**All Results are emailed. Please provide Email address:** klowery@ensolum.com

**ANALYSIS REQUEST**

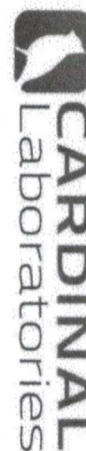


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Kelly Lowery		Address: 601 N. Marland St. STE 400		Company:			
City: Midland State: TX Zip: 79701		Email: klowery@ensolum.com		City:			
Phone #: 214-733-3165		Project Owner:		State:			
Project Name: Line 003		Phone #:		Zip:			
Project Location:		Email:					
Sample Name: SK		Matrix:		PRESERV.		SAMPLING	
Lab I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS	
H24146.3		11 SW01		Q-9		1	
12 SW01		Q-18		1		1	
13 SW02		Q-9		1		1	
14 SW02		Q-18		1		1	
15 SW03		Q-9		1		1	
16 SW03		Q-18		1		1	
17 SW04		Q-18		1		1	
18 SW05		Q-18		1		1	
19 SW05		Q-18		1		1	
20 SW05		Q-18		1		1	
21 SW05		Q-18		1		1	
22 SW05		Q-18		1		1	
23 SW05		Q-18		1		1	
24 SW05		Q-18		1		1	
25 SW05		Q-18		1		1	
26 SW05		Q-18		1		1	
27 SW05		Q-18		1		1	
28 SW05		Q-18		1		1	
29 SW05		Q-18		1		1	
30 SW05		Q-18		1		1	
31 SW05		Q-18		1		1	
32 SW05		Q-18		1		1	
33 SW05		Q-18		1		1	
34 SW05		Q-18		1		1	
35 SW05		Q-18		1		1	
36 SW05		Q-18		1		1	
37 SW05		Q-18		1		1	
38 SW05		Q-18		1		1	
39 SW05		Q-18		1		1	
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41 SW05		Q-18		1		1	
42 SW05		Q-18		1		1	
43 SW05		Q-18		1		1	
44 SW05		Q-18		1		1	
45 SW05		Q-18		1		1	
46 SW05		Q-18		1		1	
47 SW05		Q-18		1		1	
48 SW05		Q-18		1		1	
49 SW05		Q-18		1		1	
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51 SW05		Q-18		1		1	
52 SW05		Q-18		1		1	
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55 SW05		Q-18		1		1	
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57 SW05		Q-18		1		1	
58 SW05		Q-18		1		1	
59 SW05		Q-18		1		1	
60 SW05		Q-18		1		1	
61 SW05		Q-18		1		1	
62 SW05		Q-18		1		1	
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187 SW05		Q-18		1		1	
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194 SW05		Q-18		1		1	
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201 SW05		Q-18		1		1	
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251 SW05		Q-18		1		1	
252 SW05		Q-18		1		1	
253 SW05		Q-18		1		1	
254 SW05		Q-18		1		1	
255 SW05		Q-18		1		1	
2							





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

March 25, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LINE 1003

Enclosed are the results of analyses for samples received by the laboratory on 03/22/24 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/22/2024  
 Reported: 03/25/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS 01 18' (H241508-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	03/25/2024	ND	464	116	400	3.51	

**Sample ID: BS 02 18' (H241508-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	03/25/2024	ND	464	116	400	3.51	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





---

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

April 04, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LINE 1003

Enclosed are the results of analyses for samples received by the laboratory on 03/22/24 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/22/2024  
 Reported: 04/04/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS 01 2' (H241510-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/03/2024	ND	432	108	400	3.64		

**Sample ID: BS 01 4' (H241510-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/03/2024	ND	432	108	400	3.64		

**Sample ID: BS 01 6' (H241510-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2024	ND	432	108	400	3.64		

**Sample ID: BS 01 8' (H241510-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	04/03/2024	ND	432	108	400	3.64		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/22/2024  
 Reported: 04/04/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS 01 10' (H241510-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	04/03/2024	ND	432	108	400	3.64		

**Sample ID: BS 01 12' (H241510-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	04/03/2024	ND	432	108	400	3.64		

**Sample ID: BS 01 14' (H241510-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	04/03/2024	ND	432	108	400	3.64		

**Sample ID: BS 01 16' (H241510-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	04/03/2024	ND	432	108	400	3.77		

**Sample ID: BS 02 2' (H241510-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/03/2024	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/22/2024  
 Reported: 04/04/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS 02 4' (H241510-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	04/03/2024	ND	432	108	400	3.77		

**Sample ID: BS 02 6' (H241510-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	04/03/2024	ND	432	108	400	3.77		

**Sample ID: BS 02 8' (H241510-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	04/03/2024	ND	432	108	400	3.77	

**Sample ID: BS 02 10' (H241510-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	04/03/2024	ND	432	108	400	3.77		

**Sample ID: BS 02 12' (H241510-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2270	16.0	04/03/2024	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/22/2024  
 Reported: 04/04/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 03/21/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS 02 14' (H241510-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	04/03/2024	ND	432	108	400	3.77		

**Sample ID: BS 02 16' (H241510-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	04/03/2024	ND	432	108	400	3.77		

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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Kelly Lowery		Address: 601 N. Marland St. STE 400		Company:			
City: Midland		State: TX Zip: 79701		Address:			
Phone #: 214-733-3165		Email: Klowery@ensolum.com		City:			
Project #: 03B1226319		Project Owner:		State:			
Project Name: Line 1003		City:		Zip:			
Project Location:		Phone #:		Email:			
Sampler Name: SK		FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING
H241510	B502	2			GROUNDWATER		
10		4			WASTEWATER		
11		6			SOIL		
12		8			OIL		
13		10			SLUDGE		
14		12			OTHER:		
15		14			ACID/BASE:		
16	B501	16			ICE / COOL		
17		18			OTHER:		
18		20			DATE		
19		22			TIME		
20		24					
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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April 17, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LINE 1003

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 11:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2024  
 Reported: 04/17/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 01 9-18' (H241990-01)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	184	91.8	200	2.86	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	197	98.5	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	105 %	48.2-134							
Surrogate: 1-Chlorooctadecane	122 %	49.1-148							

**Sample ID: SW 02 0-9' (H241990-02)**

TPH 8015M	mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1010	10.0	04/16/2024	ND	184	91.8	200	2.86	
DRO >C10-C28*	8130	10.0	04/16/2024	ND	197	98.5	200	4.12	
EXT DRO >C28-C36	1460	10.0	04/16/2024	ND					
Surrogate: 1-Chlorooctane	191 %	48.2-134							
Surrogate: 1-Chlorooctadecane	138 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



**BILL TO**

ANALYSIS REQUEST

[illegible]

Verbal Result: ☐ Yes ☒ No Add'l phone #:

**All Results are emailed. Please provide Email address:**

REMARKS: K10wery @ cens/cmr.C.D.m

24 hours

non AF = Nb34a

Delivered By: (Circle One)		Observed Temp. °C 3.1		Sample Condition Cool Infant <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)		Turnaround Time:		Standard Rush		Bacteria (only) Sample Condition Cool Infant <input checked="" type="checkbox"/> Observed Temp. °C	
Sampler - UPS - Bus - Other:		Corrected Temp. °C						Thermometer # 241046		Non HFE: N6348			

Observed Temp., °C	Corrected Temp., °C
10.0	10.0
10.5	10.5
11.0	11.0
11.5	11.5
12.0	12.0
12.5	12.5
13.0	13.0
13.5	13.5
14.0	14.0
14.5	14.5
15.0	15.0
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81.5	81.5
82.0	82.0
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83.0	83.0
83.5	83.5
84.0	84.0
84.5	84.5

**Sample Condition**  
**Cool Intact**  
☒ Yes ☐ Yes

CHECKED BY:  
(Initials)

Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Rush	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cool Intact Observed Temp. °C

---

† Cardinal cannot accept verbal changes. Please email changes to [colby.leena@cardinallabsnm.com](mailto:colby.leena@cardinallabsnm.com)



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

April 17, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LINE 1003

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 11:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2024  
 Reported: 04/17/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S 0.25' (H241989-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2024	ND	2.07	103	2.00	0.662		
Toluene*	<0.050	0.050	04/16/2024	ND	2.09	104	2.00	1.16		
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.04	102	2.00	1.35		
Total Xylenes*	<0.150	0.150	04/16/2024	ND	6.20	103	6.00	1.20		
Total BTX	<0.300	0.300	04/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	184	91.8	200	2.86	
DRO >C10-C28*	554	10.0	04/16/2024	ND	197	98.5	200	4.12	QM-07
EXT DRO >C28-C36	351	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2024  
 Reported: 04/17/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E 02 0.25' (H241989-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2024	ND	2.07	103	2.00	0.662	
Toluene*	<0.050	0.050	04/16/2024	ND	2.09	104	2.00	1.16	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.04	102	2.00	1.35	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	6.20	103	6.00	1.20	
Total BTX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/17/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	184	91.8	200	2.86	
DRO >C10-C28*	1090	10.0	04/16/2024	ND	197	98.5	200	4.12	
EXT DRO >C28-C36	276	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2024  
 Reported: 04/17/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E 01 0.25' (H241989-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2024	ND	2.07	103	2.00	0.662	
Toluene*	<0.050	0.050	04/16/2024	ND	2.09	104	2.00	1.16	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.04	102	2.00	1.35	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	6.20	103	6.00	1.20	
Total BTEX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	184	91.8	200	2.86	
DRO >C10-C28*	172	10.0	04/16/2024	ND	197	98.5	200	4.12	
EXT DRO >C28-C36	75.2	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2024  
 Reported: 04/17/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N 0.25' (H241989-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2024	ND	2.07	103	2.00	0.662		
Toluene*	<0.050	0.050	04/16/2024	ND	2.09	104	2.00	1.16		
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.04	102	2.00	1.35		
Total Xylenes*	<0.150	0.150	04/16/2024	ND	6.20	103	6.00	1.20		
Total BTEx	<0.300	0.300	04/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	184	91.8	200	2.86	
DRO >C10-C28*	292	10.0	04/16/2024	ND	197	98.5	200	4.12	
EXT DRO >C28-C36	112	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2024  
 Reported: 04/17/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 01 0.25' (H241989-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2024	ND	2.07	103	2.00	0.662	
Toluene*	<0.050	0.050	04/16/2024	ND	2.09	104	2.00	1.16	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.04	102	2.00	1.35	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	6.20	103	6.00	1.20	
Total BTX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	04/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	184	91.8	200	2.86	
DRO >C10-C28*	4870	10.0	04/16/2024	ND	197	98.5	200	4.12	
EXT DRO >C28-C36	1120	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2024  
 Reported: 04/17/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 02 0.25' (H241989-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2024	ND	2.07	103	2.00	0.662		
Toluene*	<0.050	0.050	04/16/2024	ND	2.09	104	2.00	1.16		
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.04	102	2.00	1.35		
Total Xylenes*	0.363	0.150	04/16/2024	ND	6.20	103	6.00	1.20		
Total BTEX	0.363	0.300	04/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/17/2024	ND	448	112	400	3.51	
TPH 8015M	mg/kg		Analyzed By: MS						S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>65.8</b>	10.0	04/16/2024	ND	184	91.8	200	2.86	
<b>DRO &gt;C10-C28*</b>	<b>6170</b>	10.0	04/16/2024	ND	197	98.5	200	4.12	
<b>EXT DRO &gt;C28-C36</b>	<b>1310</b>	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
KELLY LOWERY  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 04/16/2024  
Reported: 04/17/2024  
Project Name: LINE 1003  
Project Number: 03B1226319  
Project Location: NONE GIVEN

Sampling Date: 04/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: NW 0.25' (H241989-07)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: CT**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	04/17/2024	ND	448	112	400	3.51	

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Project Manager:</b> Kelly Leary <b>Address:</b> 601 N. Marienth St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 214-733-345 <b>Fax #:</b> <b>Project #:</b> 53B1226319 <b>Project Owner:</b> <b>Project Name:</b> Line 1003 <b>Project Location:</b> <b>Sampler Name:</b> Kaoru Shimada <b>FOR LAB USE ONLY</b>		<b>P.O. #:</b> <b>Company:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>Company Name:</b> Ensolum, LLC		<b>BILL TO</b>	
<b>Lab I.D.</b> H241989		<b>ANALYSIS REQUEST</b>	
<b>Sample I.D.</b> 1 S 2 E-02 3 ED1 4 N 5 W01 6 W02 7 NW	<b>Depth (feet)</b> 0.25 7 7 7 7 7 7	<b>(G)RAB OR (C)OMP.</b> G G G G G G G	<b># CONTAINERS</b> 1 1 1 1 1 1 1
<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		<b>PRESERV</b> ACID/BASE: ICE / COOL OTHER :	<b>SAMPLING</b> DATE TIME
9/16/24 6:42 9/16/24 6:44 9/16/24 6:49 9/16/24 6:52 9/16/24 6:54 9/16/24 6:56		BTEX 8021B TPH 8015M Chloride 4500	
<b>PLEASE NOTE:</b> Liability and Damages. Cardinal's facility and clients assume liability for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Retention of samples shall be based upon any of the above stated reasons or otherwise.		<b>REMARKS:</b> 24 hours 10/14/24 10:15 AM	
<b>Relinquished By:</b> Kaoru Shimada <b>Date:</b> 9/16/24 <b>Time:</b> 11:09 <b>Received By:</b> [Signature] <b>Date:</b> 9/16/24 <b>Time:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b> <b>All Results are emailed. Please provide Email address:</b> klover@ensolum.com	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> 3.1 <b>Corrected Temp. °C</b> <b>Sample Condition</b> Cool intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>CHECKED BY:</b> [Signature] <b>Turnaround Time:</b> 24 hours <b>Standard</b> <input checked="" type="checkbox"/> <b>Bacteria (only) Sample Condition</b> Cool intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Thermometer ID #419 - #140</b> <b>Correction Factor -0.5°C</b> 9/16/24 <b>Observed Temp. °C</b> <b>Corrected Temp. °C</b>	

† Cardinal cannot accept verbal changes. Please email changes to caley.leary@cardinallabsnm.com





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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April 26, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LINE 1003

Enclosed are the results of analyses for samples received by the laboratory on 04/25/24 15:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/25/2024  
 Reported: 04/26/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E - 01 0.25' (H242229-01)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2024	ND	196	98.0	200	2.24	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	199	99.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					
Surrogate: 1-Chlorooctane	108 %	48.2-134							
Surrogate: 1-Chlorooctadecane	114 %	49.1-148							

**Sample ID: E - 02 0.25' (H242229-02)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	196	98.0	200	2.24	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	199	99.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					
Surrogate: 1-Chlorooctane	96.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.9 %	49.1-148							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/25/2024  
 Reported: 04/26/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N - 01 0.25' (H242229-03)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	196	98.0	200	2.24	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	199	99.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					
Surrogate: 1-Chlorooctane	113 %	48.2-134							
Surrogate: 1-Chlorooctadecane	121 %	49.1-148							

**Sample ID: W - 01 0.25' (H242229-04)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	196	98.0	200	2.24	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	199	99.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					
Surrogate: 1-Chlorooctane	115 %	48.2-134							
Surrogate: 1-Chlorooctadecane	123 %	49.1-148							

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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/25/2024  
 Reported: 04/26/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - 02 0.25' (H242229-05)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	196	98.0	200	2.24	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	199	99.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					
Surrogate: 1-Chlorooctane	120 %	48.2-134							
Surrogate: 1-Chlorooctadecane	125 %	49.1-148							

**Sample ID: S - 01 0.25' (H242229-06)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	196	98.0	200	2.24	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	199	99.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					
Surrogate: 1-Chlorooctane	97.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.6 %	49.1-148							

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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/25/2024  
 Reported: 04/26/2024  
 Project Name: LINE 1003  
 Project Number: 03B1226319  
 Project Location: NONE GIVEN

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 02 0-9 (H242229-07)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2024	ND	196	98.0	200	2.24	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	199	99.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					
Surrogate: 1-Chlorooctane	108 %	48.2-134							
Surrogate: 1-Chlorooctadecane	110 %	49.1-148							

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager





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

QUESTIONS

Action 516172

**QUESTIONS**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 516172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2332441886
Incident Name	NAPP2332441886 PIPELINE 1003 @ H-26-24S-28E
Incident Type	Natural Gas Release
Incident Status	Reclamation Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	PIPELINE 1003
Date Release Discovered	11/20/2023
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

Incident Type	Natural Gas Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Condensate   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 516172

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 516172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Julianna Falcomata Title: Field Environmental Scientist Email: JRFalcomata@eprod.com Date: 10/16/2025
--	--

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**Energy, Minerals and Natural Resources**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 516172

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 516172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 100 and 200 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	7060
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	19010
GRO+DRO (EPA SW-846 Method 8015M)	13210
BTEX (EPA SW-846 Method 8021B or 8260B)	42.4
Benzene (EPA SW-846 Method 8021B or 8260B)	0.2
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	11/21/2023
On what date will (or did) the final sampling or liner inspection occur	04/24/2024
On what date will (or was) the remediation complete(d)	04/24/2024
What is the estimated surface area (in square feet) that will be reclaimed	520
What is the estimated volume (in cubic yards) that will be reclaimed	347
What is the estimated surface area (in square feet) that will be remediated	520
What is the estimated volume (in cubic yards) that will be remediated	347
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 516172

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 516172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	<a href="#">fEEM0112342028 LEA LAND LANDFILL</a>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Julianna Falcomata Title: Field Environmental Scientist Email: <a href="mailto:JRFalcomata@eprod.com">JRFalcomata@eprod.com</a> Date: 11/24/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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Action 516172

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 516172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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Action 516172

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 516172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	335204
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	520
What was the total volume (cubic yards) remediated	347
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	520
What was the total volume (in cubic yards) reclaimed	347
Summarize any additional remediation activities not included by answers (above)	none
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Julianna Falcomata Title: Field Environmental Scientist Email: JRFalcomata@eprod.com Date: 11/24/2025

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Action 516172

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 516172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	6240
What was the total volume of replacement material (in cubic yards) for this site	350
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	07/07/2025
Summarize any additional reclamation activities not included by answers (above)	A 65' x 96' area was re-seeded on 07/07/2025 using the Pecos District BLM Seed Mix - Loamy SD-3 blend using a tractor operated seed spreader. Annual inspections will be conducted to monitor revegetation progress. Additional applications will be conducted if necessary. A revegetation report will be submitted once the regrowth satisfies the requirements of NMAC 19.15.29.13 D(3).
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Julianna Falcomata Title: Field Environmental Scientist Email: JRFalcomata@eprod.com Date: 11/24/2025

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Action 516172

QUESTIONS (continued)

Operator:  Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:  241602
	Action Number:  516172
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 516172

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 516172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	1/27/2026