



August 7, 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
Trunk C Discharge
Incident Number nAPP2403733035
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 Trunk C Discharge (Site). The *Reclamation Report* documents the Site history and reclamation activities completed to date.

BACKGROUND

The Site is located in Unit A, Section 5, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.16575°, -103.89567°) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land managed by the New Mexico State Land Office (NMSLO).

On February 6, 2024, damage to the Trunk C Discharge pipeline resulted in the release of approximately 3 barrels (bbls) of condensate into the surrounding pasture and approximately 472 one-thousand cubic feet (mcf) of natural gas released to the atmosphere. No released fluids or gas were recovered. Enterprise reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on February 6, 2024, followed up with a report through the online notice of release (NOR) Form C-141 (Form C-141). The release was assigned Incident Number nAPP2403733035.

Delineation and excavation of impacted soil was completed at the Site from February 2024 through March 2024. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on May 6, 2024. The NMOCD approved the *Closure Request* on May 20, 2024. Additional details regarding the release, Site Characterization, archeological records management system (ARMS) survey, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* attached as an appendix in 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

The excavation area measured approximately 168 square feet. A total of approximately 50 cubic yards of impacted soil were removed during the excavation activities. Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured topsoil, and the disturbed area was graded and contoured to match the surrounding topography. The

Enterprise Field Services, LLC
Reclamation Report
Trunk C Discharge

excavation extent and reclamation area are depicted on the attached Figure 1. 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 topsoil backfill material on July 29, 2025. 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 constituents 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 using SM4500Cl-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.

Between March 2024 and July 2025, the disturbed area was not actively seeded, but natural vegetation processes have been observed to be established across the Site. To promote additional revegetation, the disturbed area was seeded during the week of July 7, 2025, with the below NMSLO sandy loam seed mix. The seed was applied with a broadcast seed spreader at double the rate specified in pounds of pure live seed (PLS) per acre to account for the application method.

Species/Cultivar	PLS/Acre
Galleta, "Viva" (<i>Hilaria jamesii</i>)	2.50
Bluestem, Little "Cimarron" (<i>Schizachyrium scoparium</i>)	2.50
Gramma, Blue "Lovington" (<i>Bouteloua gracilis</i>)	2.00
Gramma, Sideoats "Vaughn" (<i>Bouteloua curtipendula</i>)	2.00
Dropseed, Sand (<i>Sporobolus cryptandrus</i>)	1.00
Blanketflower, (<i>Gaillardia aristata</i>)	2.00
Flax Blue, (<i>Linum Lewisii</i>)	2.00
Saltbush Fourwing (<i>Atriplex canescens</i>)	3.75

Following broadcast seeding, the area was chained to cover the seed. Photographs of the backfilled excavation and seeding of the reclaimed area are provided in Appendix B.

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 NMSLO seed mix will be applied.

Enterprise Field Services, LLC
Reclamation Report
Trunk C Discharge

- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicators or mechanically/physically removed.

A *Re-vegetation Report* will be submitted to the NMOCD and NMSLO 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 (%) 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 nAPP2403733035.

If you have any questions or comments, please contact Ms. Kelly Lowery at (214) 733-3165 or 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:

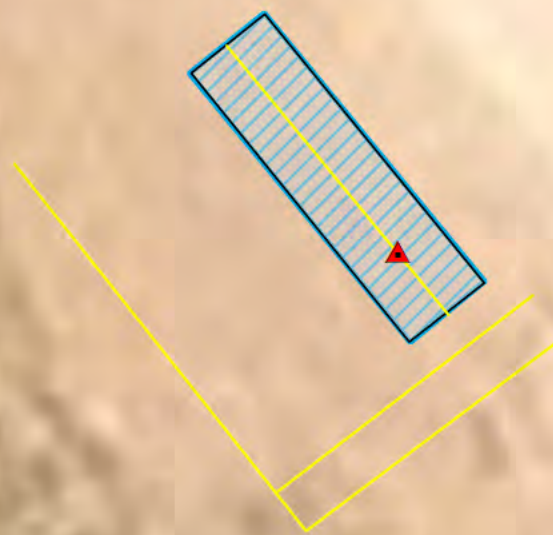
Figure 1	Excavation Extent / Reclamation Area
Table 1	Backfill Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Laboratory Analytical Report & Chain of Custody Documentation
Appendix C	Seed Mixture
Appendix D	Closure Request Report: Dated May 2, 2024



FIGURES

Legend

-  Point of Release (POR)
-  Oil and Gas Utility Line
-  Reclamation Area
-  Excavation Extent



0 3.75 7.5 15 22.5 30
Feet

Sources: Environmental Systems Research Institute (ESRI)



Excavation Extent/Reclamation Area

Enterprise Field Services, LLC
Trunk C Discharge
Project Number: 03B1226331
32.16575, -103.89567
Eddy County, New Mexico

FIGURE

1



TABLES

TABLE 1
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
 Trunk C Discharge
 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	7/29/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

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



Photographic Log
Enterprise Field Services, LLC
Trunk C Discharge
nAPP2403733035



Photograph: 1 Date: 7/29/2025
Description: Post Backfill & Reseeding Activities
View: North



Photograph: 2 Date: 7/29/2025
Description: Post Backfill & Reseeding Activities
View: East



Photograph: 3 Date: 7/29/2025
Description: Post Backfill & Reseeding Activities
View: Northwest



Photograph: 4 Date: 7/29/2025
Description: Post Backfill & Reseeding Activities
View: Northwest



APPENDIX B

Laboratory Analytical Report & Chain of Custody Documentation



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

July 30, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TRUNK C DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 07/29/25 15:23.

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.

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: 07/29/2025
 Reported: 07/30/2025
 Project Name: TRUNK C DISCHARGE
 Project Number: 03B1226331
 Project Location: OXY-CHAVES COUNTY, NM

Sampling Date: 07/29/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BF 01 0.25 (H254609-01)

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	07/30/2025	ND	1.97	98.7	2.00	.51	
Toluene*	0.050	0.050	07/ 0/2025	ND	2.1	107	2.00	1.1	
Ethylbenzene*	0.050	0.050	07/ 0/2025	ND	2.19	110	2.00	0.457	
Total Xylenes*	0.150	0.150	07/ 0/2025	ND	6.81	11	6.00	0.229	
Total BTEX	0. 00	0. 00	07/ 0/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	<16.0	16.0	07/30/2025	ND	400	100	400	3.92		

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	07/29/2025	ND	188	94.1	200	0.409	
DRO C10 C28*		10.0	10.0	07/29/2025	ND	209	104	200	0.185	
EXT DRO C28 C 6		10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.8 % 40.6-153

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

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>Enselum LLC</u>		P.O. #:
Project Manager: <u>Kelly Loney</u>		Company: <u>Enselum LLC</u>
Address: <u>601 N Marland St. Suite 400</u>		Attn:
City: <u>Midland</u> State: <u>NM</u> Zip: <u>88001</u>		Address:
Phone #: <u>214-733-3165</u> Fax #:		City:
Project #: <u>03B1226331</u> Project Owner:		State:
Project Name: <u>Target C Discharge</u>		Zip:
Project Location: <u>Charles County, NM</u>		Phone #:
Sampler Name: <u>Leandra Todor</u>		Fax #:

FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME
<u>18341400</u>	<u>BFO1</u>	<u>0125'</u>	<u>CL</u>	<u>X</u>									<u>7/29/15</u>	<u>1327</u>
<u>IT</u>														
<u>FF</u>														

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising from 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>7/29/15</u>	Received By: <u>[Signature]</u>	Date: <u>7/29/15</u>						
Relinquished By: <u>[Signature]</u>	Date: <u>3/23</u>	Received By: <u>[Signature]</u>	Date: <u>3/23</u>						
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>4.1</u>	Corrected Temp. °C <u>4.0</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>AB</u>	Turnaround Time: Thermometer ID #140 Correction Factor +0.3°C	Standard <u>24hr</u>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C <u>24hr</u>	Corrected Temp. °C

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



APPENDIX C

Seed Mixture



"NATIVE SEEDS SINCE 1951"

Quote

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

Shipping Information	
NMR Pipeline	
Contact:	Kendall Richards
Address:	[REDACTED]
Phone:	[REDACTED]
Fax:	[REDACTED]
Email:	[REDACTED]

Quote ID	Date	Quote Type	Acres	State	Project Type	Sales Rep
QUO-69918	5/15/2025	Blend - Specified	1.00	New Mexico	Retail	Brian Hays

	#/Acre	Total Pounds	\$/Acre	Sub Total
ETC Site Trunk C Discharge; NMSLO Sandy Loam	17.750	17.750	[REDACTED]	[REDACTED]

Product	UoM	#/AC	Pounds
Galleta, "Viva" (Hilaria jamesii)	PLS	2.50	2.500
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	PLS	2.50	2.500
Grama, Blue "Lovington" (Bouteloua Gracilis)	PLS	2.00	2.000
Grama, Sideoats "Vaughn" (Bouteloua curtipendula)	PLS	2.00	2.000
Dropseed, Sand (Sporobolus cryptandrus)	PLS	1.00	1.000
Blanketflower, (Gaillardia aristata)	PLS	2.00	2.000
Flax Blue, (Linum Lewisii)	PLS	2.00	2.000
Saltbush Fourwing (Atriplex canescens)	PLS	3.75	3.750
Totals:		17.750	17.750

Comments:

increases blanket flower for penstemon; increased blue flax for globemallow; increased four wing for winterfat/ apache plume due to availability .

Doubled acreage for broadcast planting

Freight	[REDACTED]
Credit Card Fee (3%)	
Handling	
Total	[REDACTED]



"NATIVE SEEDS SINCE 1951"

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.

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 changedepending 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 Request Report:
Dated May 2, 2024



CLOSURE REPORT

Property:

Trunk C Discharge

**32.16575° N, 103.89567° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2403733035**

May 2, 2024

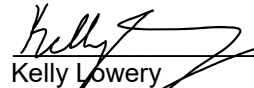
Ensolum Project No. 03B1226331

Prepared for:

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

Attn: Robert Dunaway

Prepared by:


Kelly Lowery
Project Geologist

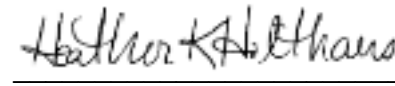

Heather Holthaus
Senior Project Manager



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CLOSURE REPORT

Trunk C Discharge

32.16575° N, 103.89567° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2403733035

Ensolum Project No. 03B1226331

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC (Enterprise)
Site Name:	Trunk C Discharge
Location:	32.16575° N, 103.89567° W Eddy County, New Mexico
Property:	New Mexico State Land Office (NMSLO)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On February 6, 2024, Enterprise discovered natural gas and produced water being released from the Trunk C Discharge pipeline. Enterprise reported the release to the New Mexico EMNRD OCD via email on February 6, 2024, followed up with a report through the online notice of release (NOR), and was assigned Incident ID: nAPP2403733035 on February 12, 2024. During the release, approximately 472 one-thousand cubic feet (MCF) of natural gas was released to the atmosphere, along with 3 barrels (bbls) of condensate released onto the ground surface, with 0 bbls recovered.

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 soils to below 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 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**.



Closure Report
Trunk C Discharge

May 2, 2024
Page 2

- 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 USGS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the USGS 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 NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's 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 low karst.
- 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
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On February 6, 2024, Enterprise discovered natural gas and condensate being released from the Trunk C Discharge pipeline. Approximately 472 MCF of natural gas was released to the atmosphere, along with 3 bbls of condensate released onto the ground surface, with 0 bbls recovered. 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 from the release area.

On February 19, 2024, Ensolum arrived on-Site to collect a total of four soil samples from the excavation floor (FS-01 and FS-02) and sidewalls (SW-01 and SW-02). The excavation floor soil samples were collected at depths of 8 feet below ground surface (bgs) and the excavation sidewall soil samples were collected at depths of 0-8 feet bgs. Additionally, one composite soil stockpile (STP-01) sample was collected from the excavated soil stockpile. Based on laboratory analytical data, no additional excavation activities were necessary.

On March 20, 2024, Ensolum arrived on-Site to resample six delineation samples outside of excavation area (DS-01 through DS-06). The delineation samples were collected at depths of 0.25 feet bgs. Based on laboratory analytical data, no additional excavation activities were necessary.

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

The final excavation area measured approximately 24 feet long and 7 feet wide at the maximum extents, with a depth of 8 feet bgs.

A total of approximately 50 cubic yards of affected soils were excavated from the Site and transported to the Lea Land, LLC facility in Carlsbad, New Mexico. The excavation extent was backfilled with clean imported fill, contoured to the original surrounding grade, and a NMSLO approved seed mixture will be sown into the surface area of the backfill for re-vegetation.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the 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 February 19, 2024 through March 20, 2024 included the collection of a total of 11 soil samples, four excavation floor and sidewalls (FS-01, FS-02, SW-01 and SW-02), six delineation soil samples from locations outside of the excavation area (DS-1 through DS-6), and one composite soil stockpile sample from the excavation soil stockpile (STP-01) staged on-Site 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 Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

Laboratory analytical results are summarized in **Table 1** 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 total benzene, total BTEX, TPH GRO/DRO/MRO, and chloride concentrations and/or laboratory sample detection limits (SDLs) associated with the final excavation soil samples (FS-01, FS-02, and SW-01, SW-02), and the final delineation soil samples (DS-1 through DS-6) for the soils left in place at the Site, and the composite soil stockpile (STP-01) sample to the NMOCD Closure Criteria.

- Laboratory analytical results indicate total benzene concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the laboratory SDLs or the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples 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 the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 100 mg/kg.
- Laboratory analytical results indicate chloride concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 600 mg/kg.
- Laboratory analytical results for the composite soil sample collected from the stockpile staged on-Site indicated concentrations of benzene, total BTEX, and combined TPH GRO/DRO/MRO exceeding the applicable NMOCD Closure Criteria. The soil stockpile was transported off-Site for proper disposal at the Lea Land, LLC facility in Carlsbad, New Mexico.

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

7.0 RECLAMATION AND RE-VEGETATION

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

- The excavation was backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 2 feet of topsoil has been placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: predominately gravelly loam, with some clay present;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: Coarse (CS) Sites Seed Mixture as described in the NMSLO *Revegetation Guidelines Handbook for Southeastern New Mexico*, dated 2018;
- 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 waddles 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 in the Spring 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. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;

- 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 NMSLO-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 submitted to New Mexico EMNRD OCD will also be submitted to NMSLO for final inspection and release.

8.0 FINDINGS AND RECOMMENDATION

- On February 6, 2024, Enterprise discovered natural gas and produced water being released from the Trunk C Discharge pipeline. Approximately 472 MCF of natural gas was released to the atmosphere, along with 3 bbls of produced water released onto the ground surface, with 0 bbls recovered.
- Following submittal of an emergency NM-811, corrective action activities were commenced by NMR utilizing a backhoe to excavate soils from the release area.
- Between February 19 and March 20, 2024, Ensolum arrived on-Site to collect two soil samples from the excavation floor (FS-01 and FS-02) and two soil samples from the excavation sidewalls (SW-01 and SW-02). The floor samples were collected at depths of 8 feet bgs and the sidewall samples were collected at depths of 0-8 feet bgs. Additionally, six delineation samples were collected at six locations outside of the excavation area (DS-1 through DS-6) at a depth of 0.25 feet bgs. In addition, one composite soil stockpile sample was collected from the excavated soil stockpile (STP-01) staged on-Site.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 24 feet long and 7 feet wide at the maximum extents, with a depth of 8 feet bgs.
- Based on the laboratory analytical results, the final soil samples for the soils left in place at the Site collected from the excavation area (FS-01, FS-02, SW-01 and SW-02) and the delineation samples collected outside of the impacted area (DS-1 through DS-6) did not exhibit total benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Based on the laboratory analytical results, the composite soil sample collected from the soil stockpile staged on-Site exhibited benzene, total BTEX, and combined TPH GRO/DRO/MRO concentrations above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the composite soil sampling, the soil stockpile staged on-Site was removed and taken off-Site for proper disposal. A total of approximately 50 cubic yards of soils were excavated and transported to the Lea Land, LLC facility in Carlsbad, New Mexico. The excavation area was backfilled with clean fill material, contoured to the original surrounding grade, and a SLO approved seed mixture will be sown into the surface area 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 at 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.

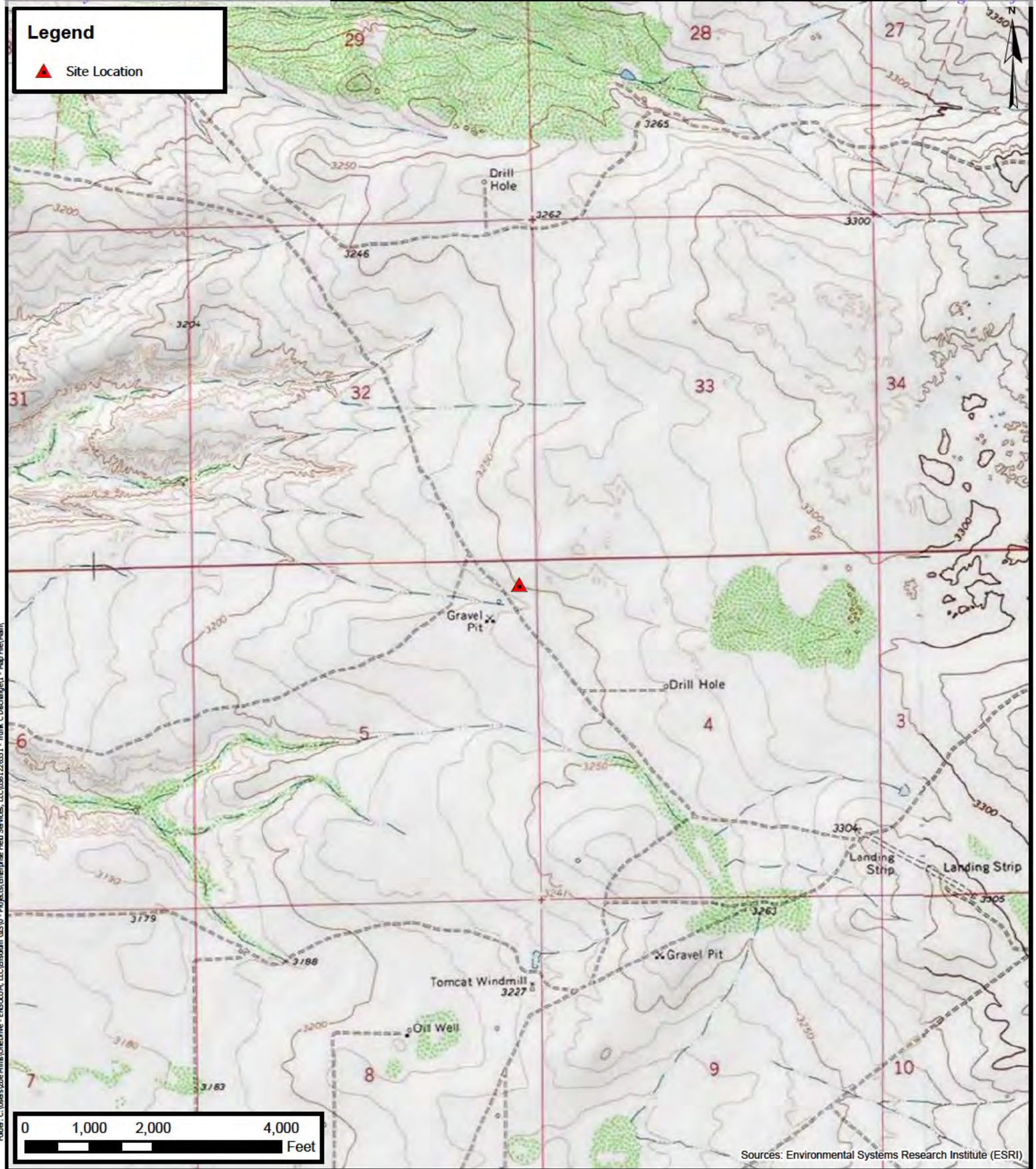
9.3 Reliance

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



Topographic Map
Enterprise Field Services, LLC
Trunk C Discharge
Incident Number: nAPP2403733035
32.16575, -103.89567
Eddy County, New Mexico
Project Number: 03B1226331

FIGURE
1

Legend Site Location

0 500 1,000 2,000
Feet

Sources: Environmental Systems Research Institute (ESRI)

**Site Vicinity Map**

Enterprise Field Services, LLC

Trunk C Discharge

Incident Number: nAPP2403733035








32.16575, -103.89567

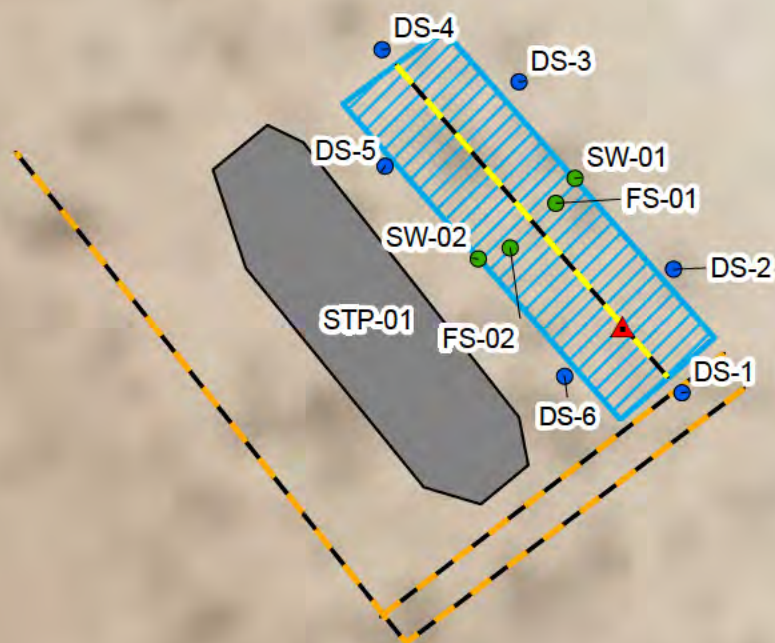
Eddy County, New Mexico

Project Number: 03B1226331

FIGURE**2**

Legend

-  Release Point
-  Excavation Soil Sample
in Compliance with
Closure Criteria
-  Delineation Soil Sample
in Compliance with
Closure Criteria
-  Enterprise Pipeline
-  XTO Pipeline
-  Excavation Extent
-  Stockpile Disposed of
off-Site



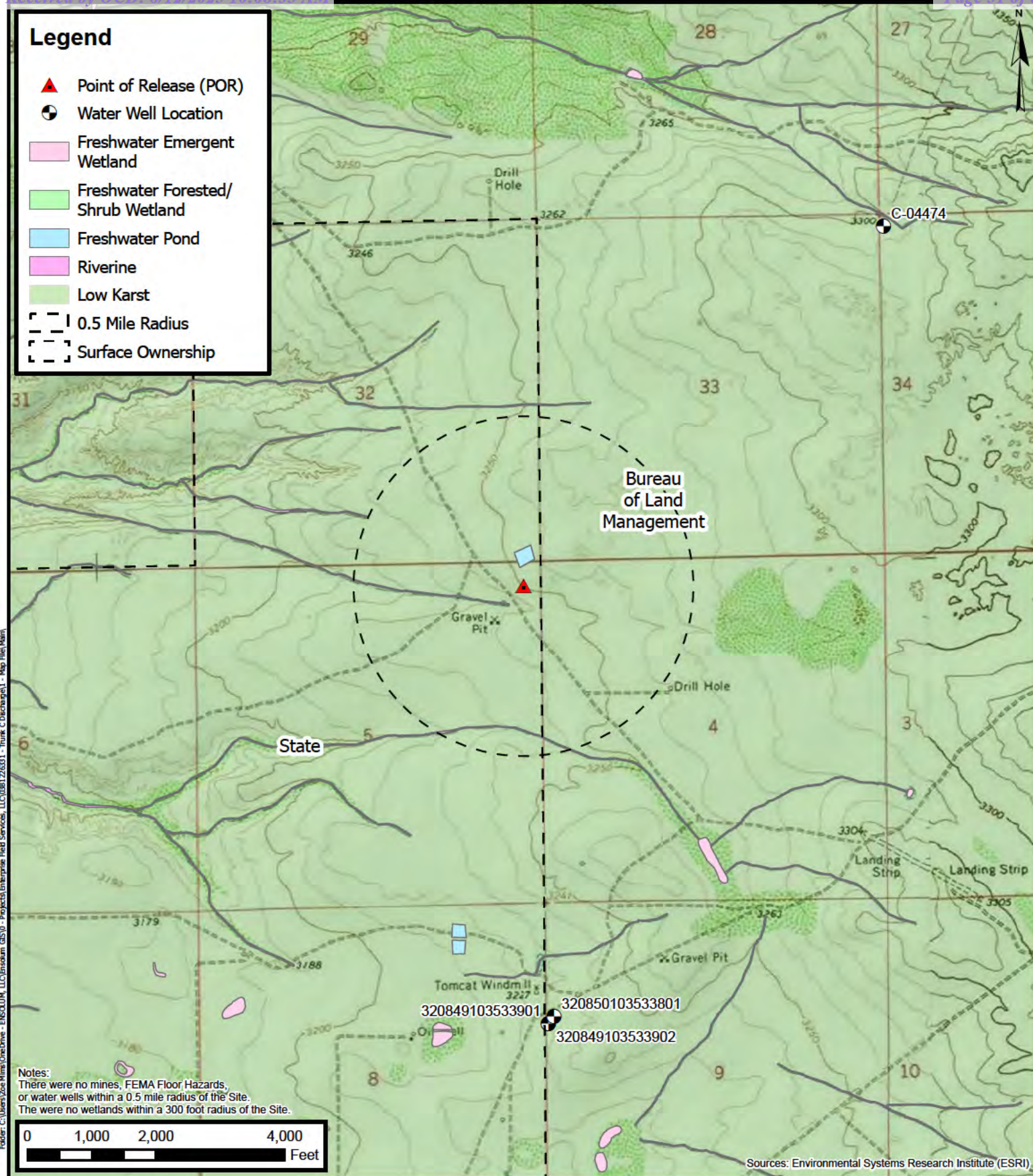
0 5 10 20
Feet

Sources: Environmental Systems Research Institute (ESRI)

**Site Map**

Enterprise Field Services, LLC
Trunk C Discharge
Incident Number: nAPP2403733035
32.16575, -103.89567
Eddy County, New Mexico
Project Number: 03B1226331

FIGURE**3**



Closure Criteria Map

Enterprise Field Services, LLC
Trunk C Discharge
Incident Number: nAPP2403733035
32.16575, -103.89567
Eddy County, New Mexico
Project Number: 03B1226331

FIGURE

4



APPENDIX B

Supporting Documentation

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Phone:(575) 393-6161 Fax:(575) 393-0720
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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 311676

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 311676
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Trunk C Discharge
Date Release Discovered	02/06/2024
Surface Owner	State

Incident Details <i>Please answer all the questions in this group.</i>	
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 <i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Pipeline (Any) Produced Water Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Other Pipeline (Any) Natural Gas Vented Released: 472 Mcf Recovered: 0 Mcf Lost: 472 Mcf.
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 311676

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 311676
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 311676

ACKNOWLEDGMENTS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 311676
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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CONDITIONS

Action 311676

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 311676
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
rdunaway	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	2/6/2024

EMISSIONS EVENT RECORD				Date	2/6/2024
				Time	
				Duration (hrs)	0.5000
County		Latitude	32.16575	Longitude	-103.89567
Location	Trunk C Discharge line				

Cause	Technician launched pig and found the leak shortly after launching.
Corrective Action	

Release Inputs		LEAK RELEASE TOTAL		LEAK RELEASE 24 HOUR	
Release Type	Leak	2.68	Mscf	2.68	Mscf
PSV Flowrate (scfm)		0.00	lbs VOC	0.00	lbs VOC
Hole Length (in)	0.13	0.00	lbs H2S	0.00	lbs H2S
Hole Width (in)	0.13				
Hole Diameter (in)	0.13				
Pressure (psi gauge)	760				
Flared	No				
Cg	14				
Blowdown Inputs		BLOWDOWN RELEASE TOTAL		EVENT 24 HOUR (Leak & Blowdown)	
Pipe Length (ft)	22,000	468.92	Mscf	471.60	Mscf
Diameter (in)	8	0.00	lbs VOC	0.00	lbs VOC
Pressure (psi)	760	0.00	lbs NOx	0.00	lbs NOx
Flared	No	0.00	lbs H2S	0.00	lbs H2S
Is blowdown Part of release	Yes	0.00	lbs CO	0.00	lbs CO
		0.00	lbs SO2	0.00	lbs SO2
Atmospheric Input		EVENT TOTAL (LEAK & BLOWDOWN)		LEAK RELEASE 1 HOUR	
Pressure (psi atm.)	14.7	471.60	Mscf	2.68	Mscf
		0.00	lbs VOC	0.00	lbs gas
		0.00	lbs H2S		

Volume of Gas Leaked (MSCF) = Diameter*Diameter*(Upstream Gauge Pressure + Atmospheric Pressure)*Hours of Leak
**Reference: Pipeline Rules of Thumb Handbook, 3rd Edition, McAllister. Page 260. Assuming STP (14.7 psi and 60 F)
**Reference: Crane Technical Paper No. 410, "Flow of Fluids through Valves, Fittings, and Pipe", copies are available online from Crane Valve at www.cranevalve.com/store.htm
**Reference: SynerGEE Technical Reference for SynerGEE version 3.3 (gas)
Volume of Gas Blown Down (MSCF) = Volume at pipeline conditions (ft3)*(Gauge Pressure (psig)+Atmospheric Pressure)
*Standard Temperature/(1000 scf/mscf)*Atmospheric Pressure*Temperature(F)*Z Factor
Volume at pipeline conditions (scf) = Diameter/12 (ft)*Diameter/12 (ft)*Pi/4*Length of pipe (ft)
**Reference: Gas Pipeline Hydraulics, Mension (2005) Pages 132-134. Assuming the Ideal Gas Law and Tpipeline = Tatm.

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Santa Fe, NM 87505

QUESTIONS

Action 313507

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 313507
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403733035
Incident Name	NAPP2403733035 TRUNK C DISCHARGE @ 0
Incident Type	Natural Gas Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2122928745] Enterprise Carlsbad GS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Trunk C Discharge
Date Release Discovered	02/06/2024
Surface Owner	State

Incident Details <i>Please answer all the questions in this group.</i>	
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 <i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Pipeline (Any) Produced Water Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Other Pipeline (Any) Natural Gas Vented Released: 472 Mcf Recovered: 0 Mcf Lost: 472 Mcf.
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 313507

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 313507
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
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: Robert Dunaway Title: Environmental Manager Email: rdunaway@eprod.com Date: 02/12/2024
--	---

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

QUESTIONS, Page 3

Action 313507

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 313507
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS**Site Characterization**

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.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan

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.

Requesting a remediation plan approval with this submission	No
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.	

District I
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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 313507

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 313507
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	2/12/2024



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

☒ **ARMS Inspection/Review** - Summarize the results (select one):

- ☒ (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- ☐ (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- ☐ (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

☐ **Archaeological Survey**

Findings:

☐ **Negative** - No further archaeological review is required.

☐ **Positive** - Have avoidance and protection measures been devised? Select one:

Comments: Due to the previous survey coverage and lack of previously recorded sites within or within 100' of the proposed remediation area, no additional cultural resource work is recommended.

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant: Beaver Creek Archaeology

Project Proponent (Applicant): Ensolum on behalf of Enterprise Field Services

Project Title/Description: Enterprise Field Services' Trunk C Discharge Remediation

Project Location:

County(ies): Eddy

PLSS/Section/Township/Range): S5 T25S R30E

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

☐

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

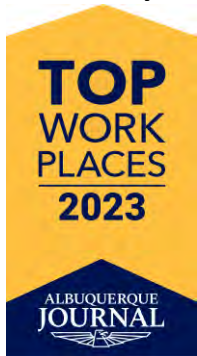
Kelly Lowery

From: Curry, Anne R. <acurry@slo.state.nm.us>
Sent: Monday, April 22, 2024 10:10 AM
To: Raina Hanley
Cc: Kelly Lowery; Wade Burns
Subject: RE: Remediation ARMS Cover Sheet Submission (BCA24-1719)

[**EXTERNAL EMAIL**]

Hi Raina,

Thank you for the submission of the attached Cover Sheet. Since the proposed remediation activities will take place in an area that has been covered by archaeological survey, Ensolum is free to move forward with remediation. Please reach out if you have additional questions-

Anne Curry

Archaeologist
Cultural Resources Office
Office: 505.827.1276
Cell: 505.469.5582
New Mexico State Land Office
310 Old Santa Fe Trail
P.O. Box 1148
Santa Fe, NM 87504-1148
acurry@slo.state.nm.us
nmstatelands.org



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From: Raina Hanley <RHanley@bcarch.org>
Sent: Friday, April 19, 2024 2:20 PM
To: Curry, Anne R. <acurry@slo.state.nm.us>
Cc: Kelly Lowery <klowery@ensolum.com>; Wade Burns <WBurns@bcarch.org>
Subject: [EXTERNAL] FW: Remediation ARMS Cover Sheet Submission (BCA24-1719)
Importance: High

Hi Anne,

I hope all is well. The Proponent is wondering if there was any way to expediate the review of ARMS review for the attached remediation project.

Thanks!

Raina Hanley
Chief Operating Officer

Beaver Creek Archaeology & Environmental
1632 Capitol Way
Bismarck, ND 58501
Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental
712 West Quay Avenue
Artesia, NM 88210
Ph: (575) 746-6142 | Fx: (701) 663-5589



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From: Raina Hanley
Sent: Wednesday, April 10, 2024 6:43 PM
To: CRO Info <croinfo@slo.state.nm.us>
Cc: eco@slo.state.nm.us
Subject: Remediation ARMS Cover Sheet Submission (BCA24-1719)
Importance: High

Good Evening,

Attached please find the following ARMS review cover sheet for Ensolum on behalf of Enterprise Field Services:

- Enterprise Field Services' Trunk C Discharge Remediation

The associated project files have been uploaded and submitted through the CPP. Please let us know if you have any questions or need any additional information.

Thank you,

Raina Hanley
Chief Operating Officer

Beaver Creek Archaeology & Environmental
1632 Capitol Way
Bismarck, ND 58501
Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental

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APPENDIX C

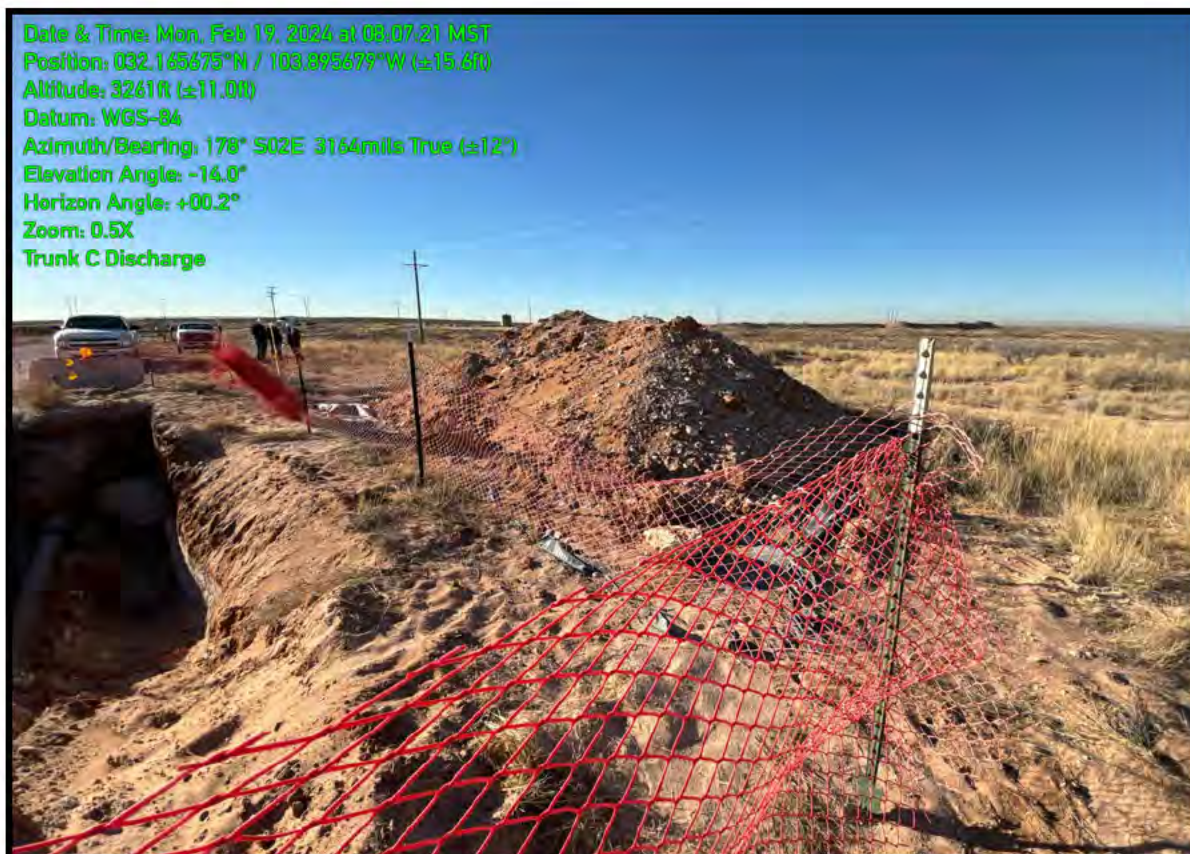
Photographic Documentation



View of excavation activities, facing southwest. (02/19/2024)



View of excavation activities, facing southeast. (02/19/2024)



View of excavation stockpile, facing south. (02/19/2024)



View of excavation, post reclamation activities, facing northwest. (03/05/2024)



View of excavation, post reclamation activities, facing north. (03/05/2024)



View of excavation, post reclamation activities, facing east. (03/05/2024)



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Trunk C Discharge
Enterprise Field Services, LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226331

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
Composite Excavation Floor Soil Sample Analytical Results												
FS-01	02/19/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-02	02/19/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
Composite Excavation Sidewall Soil Sample Analytical Results												
SW-01	02/19/2024	0 - 8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW-02	02/19/2024	0 - 8	0.394	0.518	<0.050	<0.150	0.912	11.6	<10.0	<10.0	11.6	64.0
Delineation Soil Sample Analytical Results												
DS-1	03/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS-2	03/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
DS-3	03/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
DS-4	03/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
DS-5	03/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
DS-6	03/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Composite Stockpile Soil Sample Analytical Results												
STP-01	02/19/2024	NA	101	291	27.6	158	577	8,560	52.1	56.6	8,669	288

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

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - Not Applicable

NE - Not Established

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



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

February 20, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TRUNK C DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 02/19/24 14:03.

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.

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: 02/19/2024
 Reported: 02/20/2024
 Project Name: TRUNK C DISCHARGE
 Project Number: 03B1226331
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 01 8' (H240789-01)

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	02/19/2024	ND	1.98	99.0	2.00	6.00	
Toluene*	<0.050	0.050	02/19/2024	ND	2.05	103	2.00	0.516	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.12	106	2.00	1.46	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.24	104	6.00	1.65	
Total BTEX	<0.300	0.300	02/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/20/2024	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	02/19/2024	ND	200	100	200	0.616	
DRO C10 C28*		10.0	10.0	02/19/2024	ND	200	100	200	0.04 9	
EXT DRO C28 C 6		10.0	10.0	02/19/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 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: 02/19/2024
 Reported: 02/20/2024
 Project Name: TRUNK C DISCHARGE
 Project Number: 03B1226331
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 02 8' (H240789-02)

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	02/19/2024	ND	1.98	99.0	2.00	6.00	
Toluene*	<0.050	0.050	02/19/2024	ND	2.05	103	2.00	0.516	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.12	106	2.00	1.46	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.24	104	6.00	1.65	
Total BTEX	<0.300	0.300	02/19/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/20/2024	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	02/19/2024	ND	200	100	200	0.616	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	200	100	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 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: 02/19/2024
 Reported: 02/20/2024
 Project Name: TRUNK C DISCHARGE
 Project Number: 03B1226331
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 01 0-8' (H240789-03)

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	02/19/2024	ND	1.98	99.0	2.00	6.00		
Toluene*	<0.050	0.050	02/19/2024	ND	2.05	103	2.00	0.516		
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.12	106	2.00	1.46		
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.24	104	6.00	1.65		
Total BTEx	<0.300	0.300	02/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/20/2024	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	02/19/2024	ND	200	100	200	0.616	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	200	100	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.9 % 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: 02/19/2024
 Reported: 02/20/2024
 Project Name: TRUNK C DISCHARGE
 Project Number: 03B1226331
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 02 0-8' (H240789-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.394	0.050	02/19/2024	ND	1.98	99.0	2.00	6.00	
Toluene*	0.518	0.050	02/19/2024	ND	2.05	103	2.00	0.516	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.12	106	2.00	1.46	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.24	104	6.00	1.65	
Total BTEX	0.912	0.300	02/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/20/2024	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*	11.6	10.0	02/19/2024	ND	200	100	200	0.616	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	200	100	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 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: 02/19/2024
 Reported: 02/20/2024
 Project Name: TRUNK C DISCHARGE
 Project Number: 03B1226331
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: STP - 01 (H240789-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	101	2.00	02/20/2024	ND	1.98	99.0	2.00	6.00	
Toluene*	291	2.00	02/20/2024	ND	2.05	103	2.00	0.516	
Ethylbenzene*	27.6	2.00	02/20/2024	ND	2.12	106	2.00	1.46	
Total Xylenes*	158	6.00	02/20/2024	ND	6.24	104	6.00	1.65	
Total BTEX	577	12.0	02/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/20/2024	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*	8560	10.0	02/20/2024	ND	200	100	200	0.616	
DRO >C10-C28*	52.1	10.0	02/20/2024	ND	200	100	200	0.0439	
EXT DRO >C28-C36	56.6	10.0	02/20/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 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".

Celey D. Keene, Lab Director/Quality Manager

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: TRUNK C DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 03/20/24 13:13.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DS - 1 @ 0.25'	H241451-01	Soil	20-Mar-24 11:10	20-Mar-24 13:13
DS - 2 @ 0.25'	H241451 02	Soil	20-Mar-24 10:22	20-Mar-24 13:13
DS - 3 @ 0.25'	H241451-03	Soil	20-Mar-24 10:24	20-Mar-24 13:13
DS - 4 @ 0.25'	H241451-04	Soil	20-Mar-24 10:26	20-Mar-24 13:13
DS - 5 @ 0.25'	H241451-05	Soil	20-Mar-24 10:29	20-Mar-24 13:13
DS - 6 @ 0.25'	H241451-06	Soil	20-Mar-24 10:30	20-Mar-24 13:13

03/25/24 - Client added depths to all samples (see COC). This is the revised report and will replace the one sent on 03/21/22.

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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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

DS - 1 @ 0.25'**H241451-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4032050	CT	21-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4032027	JH	20-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %	71.5-134		4032027	JH	20-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4032003	MS	20-Mar-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4032003	MS	20-Mar-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4032003	MS	20-Mar-24	8015B	

Surrogate: 1-Chlorooctane		94.7 %	48.2-134		4032003	MS	20-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane		89.5 %	49.1-148		4032003	MS	20-Mar-24	8015B	
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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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

DS - 2 @ 0.25'**H241451-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	4032050	CT	21-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032027	JH	20 Mar 24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032027	JH	20-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %		71.5-134	4032027	JH	20-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	

Surrogate: 1-Chlorooctane			88.7 %		48.2-134	4032034	MS	20-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			82.8 %		49.1-148	4032034	MS	20-Mar-24	8015B	
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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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

DS - 3 @ 0.25'**H241451-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	4032050	CT	21-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032027	JH	20 Mar 24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032027	JH	20-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134 4032027 JH 20-Mar-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	

Surrogate: 1-Chlorooctane 80.7 % 48.2-134 4032034 MS 20-Mar-24 8015B

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148 4032034 MS 20-Mar-24 8015B

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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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

DS - 4 @ 0.25'**H241451-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	4032050	CT	21-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032027	JH	20 Mar 24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032027	JH	20-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %		71.5-134	4032027	JH	20-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	

Surrogate: 1-Chlorooctane			98.4 %		48.2-134	4032034	MS	20-Mar-24	8015B	
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Surrogate: 1-Chlorooctadecane			90.9 %		49.1-148	4032034	MS	20-Mar-24	8015B	
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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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

DS - 5 @ 0.25'**H241451-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4032050	CT	21-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4032027	JH	20 Mar 24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4032027	JH	20-Mar-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134 4032027 JH 20-Mar-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	

Surrogate: 1-Chlorooctane 102 % 48.2-134 4032034 MS 20-Mar-24 8015B

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148 4032034 MS 20-Mar-24 8015B

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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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

DS - 6 @ 0.25'**H241451-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4032050	CT	21-Mar-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4032027	JH	20 Mar 24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4032027	JH	20-Mar-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4032027	JH	20-Mar-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		111 %		71.5-134	4032027	JH	20-Mar-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4032034	MS	20-Mar-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>		106 %		48.2-134	4032034	MS	20-Mar-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		99.4 %		49.1-148	4032034	MS	20-Mar-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4032050 - 1:4 DI Water									
Blank (4032050-BLK1)				Prepared & Analyzed: 20-Mar-24					
Chloride	ND	16.0	mg/kg						
LCS (4032050-BS1)				Prepared & Analyzed: 20-Mar-24					
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (4032050-BSD1)				Prepared & Analyzed: 20-Mar-24					
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20

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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4032027 - Volatiles**Blank (4032027-BLK1)**

Prepared & Analyzed: 20-Mar-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0583		mg/kg	0.0500		117	71.5-134			

LCS (4032027-BS1)

Prepared & Analyzed: 20-Mar-24

Benzene	2.06	0.050	mg/kg	2.00		103	82.8-130			
Toluene	2.23	0.050	mg/kg	2.00		112	86-128			
Ethylbenzene	2.39	0.050	mg/kg	2.00		120	85.9-128			
m,p-Xylene	4.76	0.100	mg/kg	4.00		119	89-129			
o-Xylene	2.39	0.050	mg/kg	2.00		119	86.1-125			
Total Xylenes	7.15	0.150	mg/kg	6.00		119	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0590		mg/kg	0.0500		118	71.5-134			

LCS Dup (4032027-BSD1)

Prepared & Analyzed: 20-Mar-24

Benzene	2.27	0.050	mg/kg	2.00		113	82.8-130	9.35	15.8	
Toluene	2.34	0.050	mg/kg	2.00		117	86-128	4.58	15.9	
Ethylbenzene	2.50	0.050	mg/kg	2.00		125	85.9-128	4.31	16	
m,p-Xylene	4.96	0.100	mg/kg	4.00		124	89-129	4.05	16.2	
o-Xylene	2.49	0.050	mg/kg	2.00		124	86.1-125	4.11	16.7	
Total Xylenes	7.45	0.150	mg/kg	6.00		124	88.2-128	4.07	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0562		mg/kg	0.0500		112	71.5-134			

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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4032003 - General Prep - Organics**Blank (4032003-BLK1)**

Prepared & Analyzed: 20-Mar-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO C28 C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.6	48.2-134			
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0		94.8	49.1-148			

LCS (4032003-BS1)

Prepared & Analyzed: 20-Mar-24

GRO C6-C10	209	10.0	mg/kg	200		105	66.4-123			
DRO >C10-C28	207	10.0	mg/kg	200		103	66.5-118			
Total TPH C6-C28	416	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	49.1-148			

LCS Dup (4032003-BS1)

Prepared & Analyzed: 20-Mar-24

GRO C6-C10	187	10.0	mg/kg	200		93.3	66.4-123	11.5	17.7	
DRO C10 C28	183	10.0	mg/kg	200		91.5	66.5-118	12.2	21	
Total TPH C6-C28	370	10.0	mg/kg	400		92.4	77.6-123	11.9	18.5	
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.6	48.2-134			
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	49.1-148			

Batch 4032034 General Prep Organics**Blank (4032034-BLK1)**

Prepared & Analyzed: 20-Mar-24

GRO C6-C10	ND	10.0	mg/kg							
DRO C10 C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.5	48.2-134			
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		90.9	49.1-148			

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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C DISCHARGE
Project Number: 03B1226331
Project Manager: KELLY LOWERY
Fax To:

Reported:
25-Mar-24 09:56

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4032034 - General Prep - Organics**LCS (4032034-BS1)**

Prepared & Analyzed: 20-Mar-24

GRO C6-C10	213	10.0	mg/kg	200		107	66.4-123			
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118			
Total TPH C6 C28	419	10.0	mg/kg	400		105	77.6-123			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	48.2-134			
Surrogate: 1-Chlorooctadecane	50.3		mg/kg	50.0		101	49.1-148			

LCS Dup (4032034-BS1)

Prepared & Analyzed: 20-Mar-24

GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123	1.59	17.7	
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118	0.149	21	
Total TPH C6-C28	416	10.0	mg/kg	400		104	77.6-123	0.879	18.5	
Surrogate: 1-Chlorooctane	52.8		mg/kg	50.0		106	48.2-134			
Surrogate: 1-Chlorooctadecane	49.5		mg/kg	50.0		99.0	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".

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. Marienfield St, STE 400

City: Midland State: TX Zip: 79701

Phone #: 214-733-3165 Fax #:

Project #: 0381826331 Project Owner:

Project Name: TRUNK C Discharge

Project Location: 38.16575°N, -103.89567

Sampler Name: Mario SARKIS

BILL TO

P.O. #:

Company: ENSOLUM, LLC

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY	MATRIX	PRESERV	SAMPLING	DATE	TIME	BTX	TPH	Chlorides			
Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	ICE/COOL	OTHER
DS-1	✓	2	✓	3/20/24	11:10	✓	✓	✓			
DS-2	✓	2	✓	3/20/24	10:22	✓	✓	✓			
DS-3	✓	2	✓	3/20/24	10:24	✓	✓	✓			
DS-4	✓	2	✓	3/20/24	10:26	✓	✓	✓			
DS-5	✓	2	✓	3/20/24	10:29	✓	✓	✓			
DS-6	✓	2	✓	3/20/24	10:30	✓	✓	✓			

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Relinquished By: *[Signature]* Date: 3/20/24 Time: 13:13 Received By: *[Signature]*

Delivered By: (Circle One) Observed Temp. °C 3.52 Sample Condition Cool Intact ☒ Yes ☐ No CHECKED BY: (Initials) *[Signature]*

Sampler - UPS - Bus - Other: Corrected Temp. °C *[Signature]* Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: klowery@ensolum.com / msarkis@ensolum.com

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Phone: (505) 476-3441

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Online Phone Directory
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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 494867

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403733035
Incident Name	NAPP2403733035 TRUNK C DISCHARGE @ 0
Incident Type	Natural Gas Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2122928745] Enterprise Carlsbad GS

Location of Release Source*Please answer all the questions in this group.*

Site Name	Trunk C Discharge
Date Release Discovered	02/06/2024
Surface Owner	State

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	Cause: Other Pipeline (Any) Produced Water Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Other Pipeline (Any) Natural Gas Vented Released: 472 MCF Recovered: 0 MCF Lost: 472 MCF.
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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State of New Mexico
Energy, Minerals and Natural Resources
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QUESTIONS, Page 2

Action 494867

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
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: Robert Dunaway Title: Environmental Manager Email: rdunaway@eprod.com Date: 02/12/2024
--	---

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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, Page 3

Action 494867

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<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 100 and 500 (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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<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
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	288
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8669
GRO+DRO (EPA SW-846 Method 8015M)	8612
BTEX (EPA SW-846 Method 8021B or 8260B)	577
Benzene (EPA SW-846 Method 8021B or 8260B)	101
<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	02/07/2024
On what date will (or did) the final sampling or liner inspection occur	03/20/2024
On what date will (or was) the remediation complete(d)	03/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	168
What is the estimated volume (in cubic yards) that will be reclaimed	50
What is the estimated surface area (in square feet) that will be remediated	168
What is the estimated volume (in cubic yards) that will be remediated	50
<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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 494867

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site 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: Robert Dunaway Title: Environmental Manager Email: rhodunaway@eprod.com Date: 05/06/2024
<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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QUESTIONS, Page 5

Action 494867

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	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 494867

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	322845
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	500

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	168
What was the total volume (cubic yards) remediated	50
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	168
What was the total volume (in cubic yards) reclaimed	50
Summarize any additional remediation activities not included by answers (above)	no additional
<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: Robert Dunaway Title: Environmental Manager Email: rdunaway@eprod.com Date: 05/06/2024

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QUESTIONS, Page 7

Action 494867

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<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	168
What was the total volume of replacement material (in cubic yards) for this site	50
<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)	Area was re-seeded with NMSLO Sandy Loam Seed Mix during the week of 07/07/2025.
<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 reseeded 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: 08/12/2025

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Action 494867

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<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 494867

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 494867
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/15/2025