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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **241602**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)* **nAPP2326946647**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.267572** Longitude **-106.944883** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Lateral 2C-125**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **09/26/2023**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
G	**33**	**24N**	**01W**	**Rio Arriba**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name*: **BLM**)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **Estimated 15-20 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **8.5 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On August 30, 2023, Enterprise had a release of natural gas and natural gas liquids from the Lateral 2C-125 pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. No liquids were observed on the ground surface. Repairs and remediation began September 26, 2023, at which time Enterprise determined the release reportable per NMODC regulation due the volume of impacted subsurface soil. Remediation was completed on October 5, 2023. The final excavation dimensions measured approximately 57.5 feet long by 34 feet wide by 10 feet deep. Approximately 1,148 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this “Final” C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature: Thomas Long Date: 11-29-2023

email: tjlong@eprod.com Telephone: (505) 599-2286

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 02/21/2024

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

CLOSURE REPORT

Property:

Lateral 2C-125 (09/26/23)
Unit Letter G, S33 T24N R01W
Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2326946647

November 29, 2023

Ensolum Project No. 05A1226283

Prepared for:

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

Prepared by:

Ranee Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

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LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 2C-125 (09/26/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2326946647
Location:	36.267572° North, 106.944883° West Unit Letter G, Section 33, Township 24 North, Range 01 West Rio Arriba County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 30, 2023, a release of natural gas and associate pipeline liquids from the Lateral 2C-125 pipeline was identified by Enterprise personnel. Enterprise subsequently isolated and locked the pipeline out of service. On September 25, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. On September 26, 2023, Enterprise determined the release was "reportable" due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **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 constituent of concern (COC) concentrations in the on-site soils to below the applicable NM EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site. Two PODs (RG-71779 and RG-82030) were identified in an adjacent section. There are no recorded depths to water for these PODs. These PODs are associated with livestock watering. RG-82030 is located approximately 0.85 miles northwest of the Site and RG-71779 is located approximately 1.3 miles west of the Site. (**Figure A**, **Appendix B**).

- No cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site or in the adjacent PLSS sections (**Figure B, Appendix B**).

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**). The Site is adjacent to Almagre Arroyo.

- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.

- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).

- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E**, **Appendix B**).

- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E**, **Appendix B**).

- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.

- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).

- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).

- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.

- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information, the applicable closure criteria for soils remaining in place at the Site include:

Tier I Closure Criteria for Soils Impacted by a Release		
Constituent[1]	**Method**	**Limit**
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO)[2]	EPA SW-846 Method 8015	100 mg/kg
BTEX[3]	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

[1] – Constituent concentrations are in milligrams per kilogram (mg/kg).
[2] – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).
[3] – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

3.0 SOIL REMEDIATION ACTIVITIES

On September 25, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sunland Construction Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 57.5 feet long and 34 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 10 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of sand and clay.

Approximately 1,148 cubic yards (yd^3) of petroleum hydrocarbon-affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, the excavation has not yet been backfilled at the time this document was finalized. Once the permanent repairs are completed, the pipeline excavation will be backfilled with imported fill and then contoured to the surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of 21 composite soil samples (S-1 through S-15, S-15a, and S-16 through S-20) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools or the excavator bucket were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event
On September 29, 2023, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (10'), S-2 (10'), S-3 (10'), S-4 (10'), S-5 (10'), S-6 (10'), S-7 (10'), and S-8 (10') were collected from the floor of the excavation. Composite soil samples S-9 (0' to 10'), S-10 (0' to 10'), S-11 (0' to 10'), S-12 (0' to 10'), S-13 (0' to 10'), S-14 (0' to 10'), and S-15 (0' to 10') were collected from the walls of the excavation. Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample S-15

Second Sampling Event
In response to the exceedances of composite sample S-15 during the first sampling event, the impacted soils were removed by excavation and transported to the landfarm for disposal/remediation. On October 4, 2023, sampling was again performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-16 (10') and S-17 (10') were collected from the

floor of the excavation. Composite soil samples S-15a (0' to 10'), S-18 (0' to 10'), and S-19 (0' to 10') were collected from the walls of the excavation.

Third Sampling Event
On October 5, 2023, a third sampling event was performed at the Site. Composite soil sample S-20 (0' to 10') was collected from a wall of the excavation.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, NM, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021; TPH GRO/DRO/MRO using EPA SW-846 Method 8015; and chlorides using EPA Method 300.0.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-14, S-15a, and S-16 through S-20) to the applicable NM EMNRD OCD closure criteria. The soil associated with composite soil sample S-15 was removed from the Site, and therefore, is not included in the following discussion. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for the composite soil samples associated with soil remaining at the Site indicate total benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.

- The laboratory analytical results for the composite soil samples associated with soil remaining at the Site indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil samples S-9, S-10, S-11, S-12, S-14, S-17, S-18, and S-19 indicate total combined TPH GRO/DRO/MRO concentrations ranging from 10 mg/kg (S-17, S-18, and S-19) to 76 mg/kg (S-14), which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the other composite soil samples associated with soil remaining at the Site indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for the composite soil samples associated with soil remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION

Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, the excavation has not yet been backfilled at the time this document was finalized. Once permanent pipeline repairs are completed, Enterprise will backfill the excavation with imported fill and then contour to the surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- Twenty-one composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.

- Approximately 1,148 yd^3 of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation.

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).

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 recommendation are based solely upon data available to Ensolum at the time of these services.

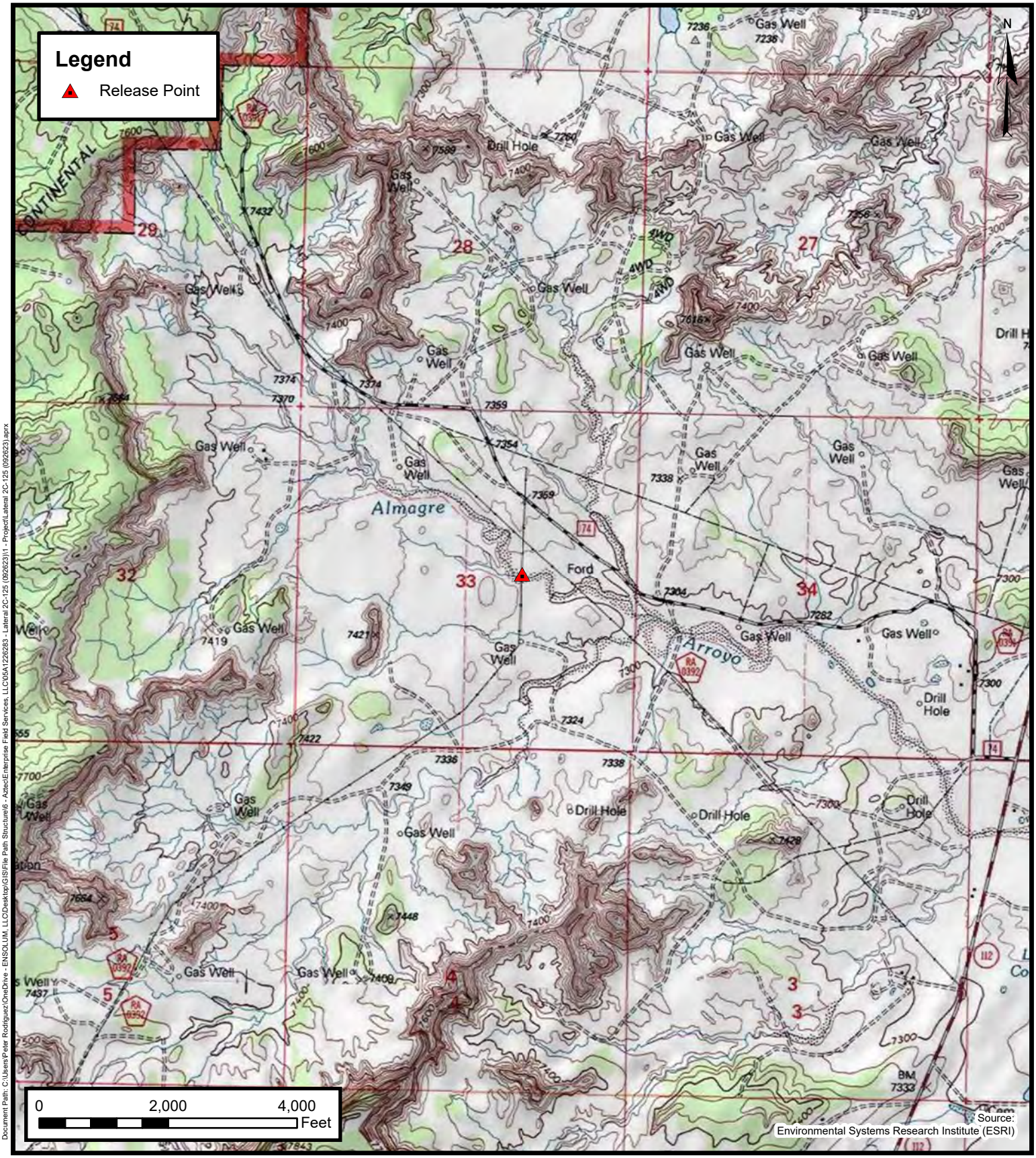
9.3 Reliance

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

ENSOLUM

APPENDIX A

Figures



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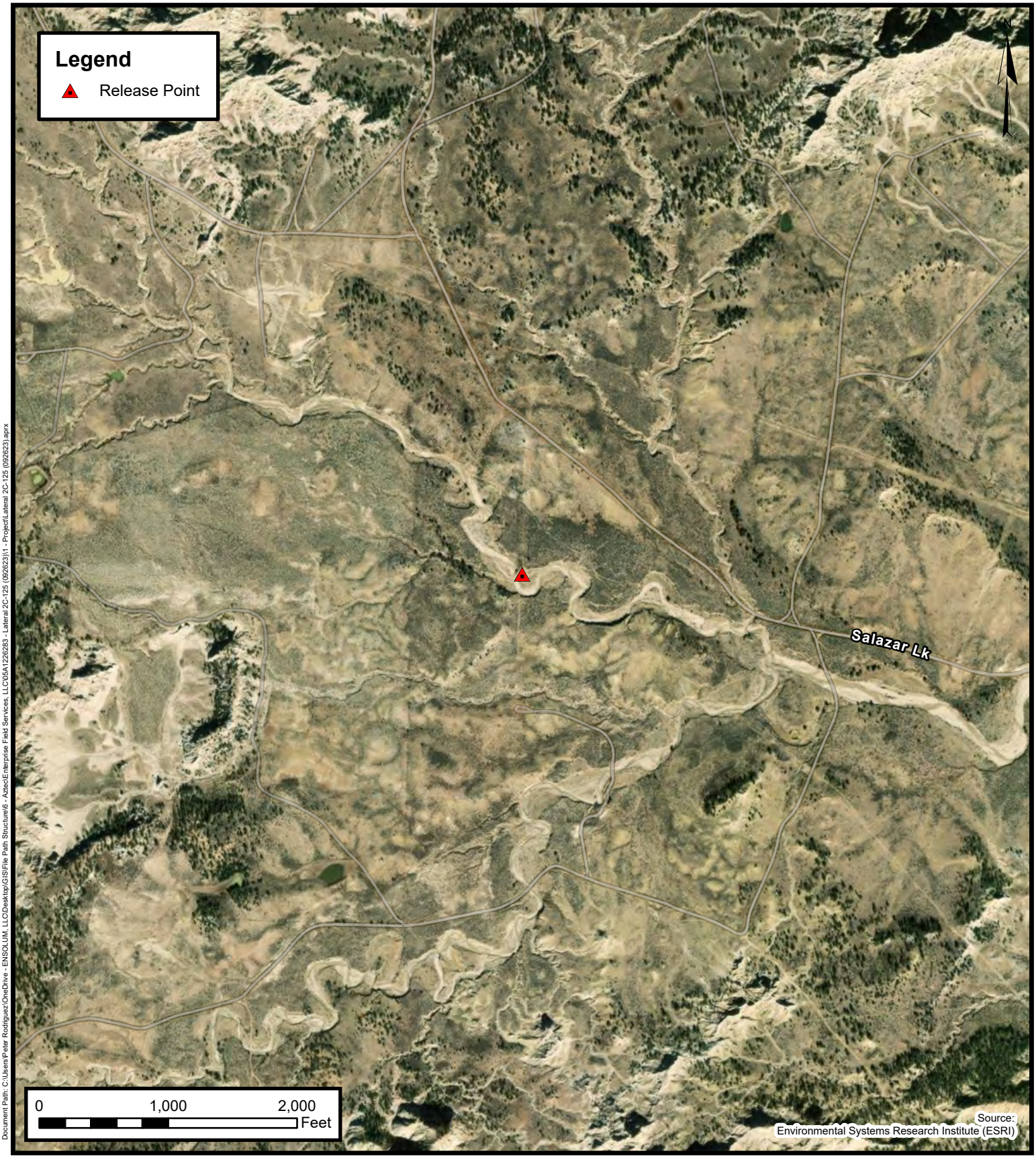
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE

1



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE
2

N

S-1
9.29.23
F (10')

Benzene...	<0.021
Toluene...	<0.041
Ethylbenzene...	<0.041
Xylene...	<0.082
Total BTEX...	ND
TPH GRO...	<4.1
TPH DRO...	<9.3
TPH MRO...	<47
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-2
9.29.23
F (10')

Benzene...	<0.025
Toluene...	<0.050
Ethylbenzene...	<0.050
Xylene...	<0.10
Total BTEX...	ND
TPH GRO...	<5.0
TPH DRO...	<9.5
TPH MRO...	<47
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-3
9.29.23
F (10')

Benzene...	<0.023
Toluene...	<0.046
Ethylbenzene...	<0.046
Xylene...	<0.091
Total BTEX...	ND
TPH GRO...	<4.6
TPH DRO...	<9.5
TPH MRO...	<48
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-4
9.29.23
F (10')

Benzene...	<0.020
Toluene...	<0.041
Ethylbenzene...	<0.041
Xylene...	<0.081
Total BTEX...	ND
TPH GRO...	<4.1
TPH DRO...	<9.5
TPH MRO...	<47
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<59

S-5
9.29.23
F (10')

Benzene...	<0.020
Toluene...	<0.039
Ethylbenzene...	<0.039
Xylene...	<0.078
Total BTEX...	ND
TPH GRO...	<3.9
TPH DRO...	<9.8
TPH MRO...	<49
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-6
9.29.23
F (10')

Benzene...	<0.023
Toluene...	<0.046
Ethylbenzene...	<0.046
Xylene...	<0.092
Total BTEX...	ND
TPH GRO...	<4.6
TPH DRO...	<9.1
TPH MRO...	<46
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-7
9.29.23
F (10')

Benzene...	<0.017
Toluene...	<0.034
Ethylbenzene...	<0.034
Xylene...	<0.068
Total BTEX...	ND
TPH GRO...	<3.4
TPH DRO...	<10
TPH MRO...	<50
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-8
9.29.23
F (10')

Benzene...	<0.021
Toluene...	<0.042
Ethylbenzene...	<0.042
Xylene...	<0.083
Total BTEX...	ND
TPH GRO...	<4.2
TPH DRO...	<9.4
TPH MRO...	<47
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-9
9.29.23
W (0' - 10')

Benzene...	<0.019
Toluene...	<0.037
Ethylbenzene...	<0.037
Xylene...	<0.074
Total BTEX...	ND
TPH GRO...	<3.7
TPH DRO...	48
TPH MRO...	<48
Total Combined TPH GRO, DRO, MRO...	48
Chloride...	<60

S-10
9.29.23
W (0' - 10')

Benzene...	<0.023
Toluene...	<0.046
Ethylbenzene...	<0.046
Xylene...	<0.092
Total BTEX...	ND
TPH GRO...	<4.6
TPH DRO...	50
TPH MRO...	<46
Total Combined TPH GRO, DRO, MRO...	50
Chloride...	<60

S-11
9.29.23
W (0' - 10')

Benzene...	<0.014
Toluene...	<0.027
Ethylbenzene...	<0.027
Xylene...	<0.054
Total BTEX...	ND
TPH GRO...	<2.7
TPH DRO...	17
TPH MRO...	<48
Total Combined TPH GRO, DRO, MRO...	17
Chloride...	<60

S-12
9.29.23
W (0' - 10')

Benzene...	<0.016
Toluene...	<0.032
Ethylbenzene...	<0.032
Xylene...	<0.063
Total BTEX...	ND
TPH GRO...	<3.2
TPH DRO...	34
TPH MRO...	<48
Total Combined TPH GRO, DRO, MRO...	34
Chloride...	<60

S-13
9.29.23
W (0' - 10')

Benzene...	<0.018
Toluene...	<0.036
Ethylbenzene...	<0.036
Xylene...	<0.072
Total BTEX...	ND
TPH GRO...	<3.6
TPH DRO...	<9.6
TPH MRO...	<48
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-14
9.29.23
W (0' - 10')

Benzene...	<0.019
Toluene...	<0.038
Ethylbenzene...	<0.038
Xylene...	<0.076
Total BTEX...	ND
TPH GRO...	<3.8
TPH DRO...	76
TPH MRO...	<49
Total Combined TPH GRO, DRO, MRO...	76
Chloride...	<60

S-15a
10.04.23
W (0' - 10')

Benzene...	<0.018
Toluene...	<0.037
Ethylbenzene...	<0.037
Xylene...	<0.074
Total BTEX...	ND
TPH GRO...	<3.7
TPH DRO...	<10
TPH MRO...	<50
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-15
9.29.23
W (0' - 10')

Benzene...	<0.016
Toluene...	<0.033
Ethylbenzene...	<0.033
Xylene...	<0.065
Total BTEX...	ND
TPH GRO...	<3.3
TPH DRO...	93
TPH MRO...	63
Total Combined TPH GRO, DRO, MRO...	160
Chloride...	<59

S-16
10.04.23
F (10')

Benzene...	<0.021
Toluene...	<0.042
Ethylbenzene...	<0.042
Xylene...	<0.084
Total BTEX...	ND
TPH GRO...	<4.2
TPH DRO...	<9.9
TPH MRO...	<49
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

S-17
10.04.23
F (10')

Benzene...	<0.018
Toluene...	<0.036
Ethylbenzene...	<0.036
Xylene...	<0.071
Total BTEX...	ND
TPH GRO...	<3.6
TPH DRO...	10
TPH MRO...	<47
Total Combined TPH GRO, DRO, MRO...	10
Chloride...	<60

S-18
10.04.23
W (0' - 10')

Benzene...	<0.017
Toluene...	<0.035
Ethylbenzene...	<0.035
Xylene...	<0.070
Total BTEX...	ND
TPH GRO...	<3.5
TPH DRO...	10
TPH MRO...	<46
Total Combined TPH GRO, DRO, MRO...	10
Chloride...	<60

S-19
10.04.23
W (0' - 10')

Benzene...	<0.018
Toluene...	<0.036
Ethylbenzene...	<0.036
Xylene...	<0.072
Total BTEX...	ND
TPH GRO...	<3.6
TPH DRO...	10
TPH MRO...	<48
Total Combined TPH GRO, DRO, MRO...	10
Chloride...	<60

S-20
10.05.23
W (0' - 10')

Benzene...	<0.016
Toluene...	<0.033
Ethylbenzene...	<0.033
Xylene...	<0.066
Total BTEX...	ND
TPH GRO...	<3.3
TPH DRO...	<9.4
TPH MRO...	<47
Total Combined TPH GRO, DRO, MRO...	ND
Chloride...	<60

Notes:
F - Floor Sample
W - Wall Sample
All concentration are listed in milligrams per kilogram (mg/kg).
All depths are listed in feet BGS.
Concentrations in **red** exceed the applicable NM EMNRD OCD Closure Criteria.
Analytical callouts in gray denote sampling location removed by excavation.

0 10 20 Feet

LEGEND

- Release Point
- Composite Soil Sample Location
- Composite Soil Sample Removed by Excavation
- Pipeline Location
- Former Sidewall
- Excavation Extent

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Map with Soil Analytical Results

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Unit Letter G, S33 T24N R01W
Rio Arriba County, New Mexico
36.267572, -106.944883

Figure

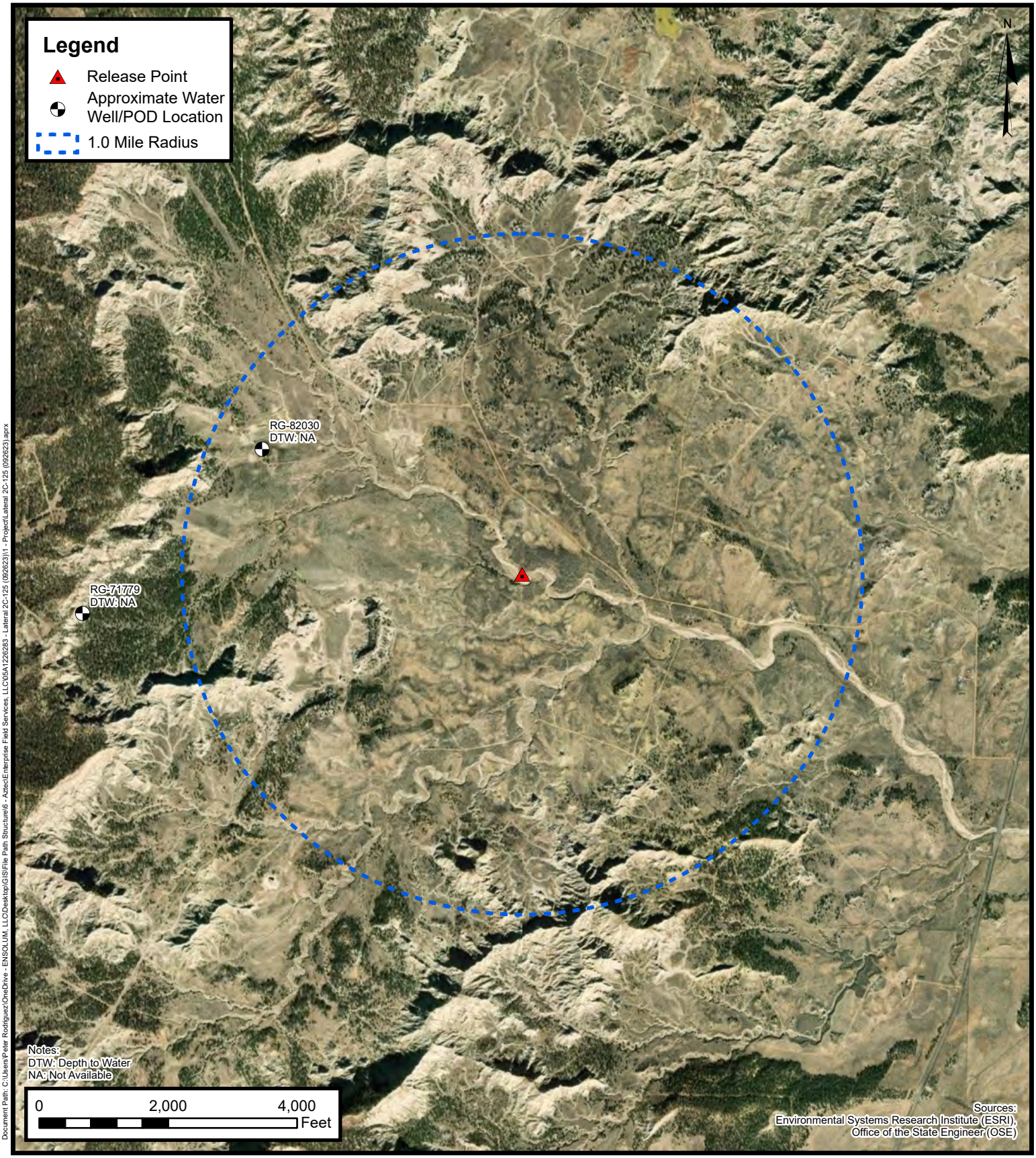
3

Project Number: 05A1226283

ENSOLUM

APPENDIX B

Siting Figures and Documentation



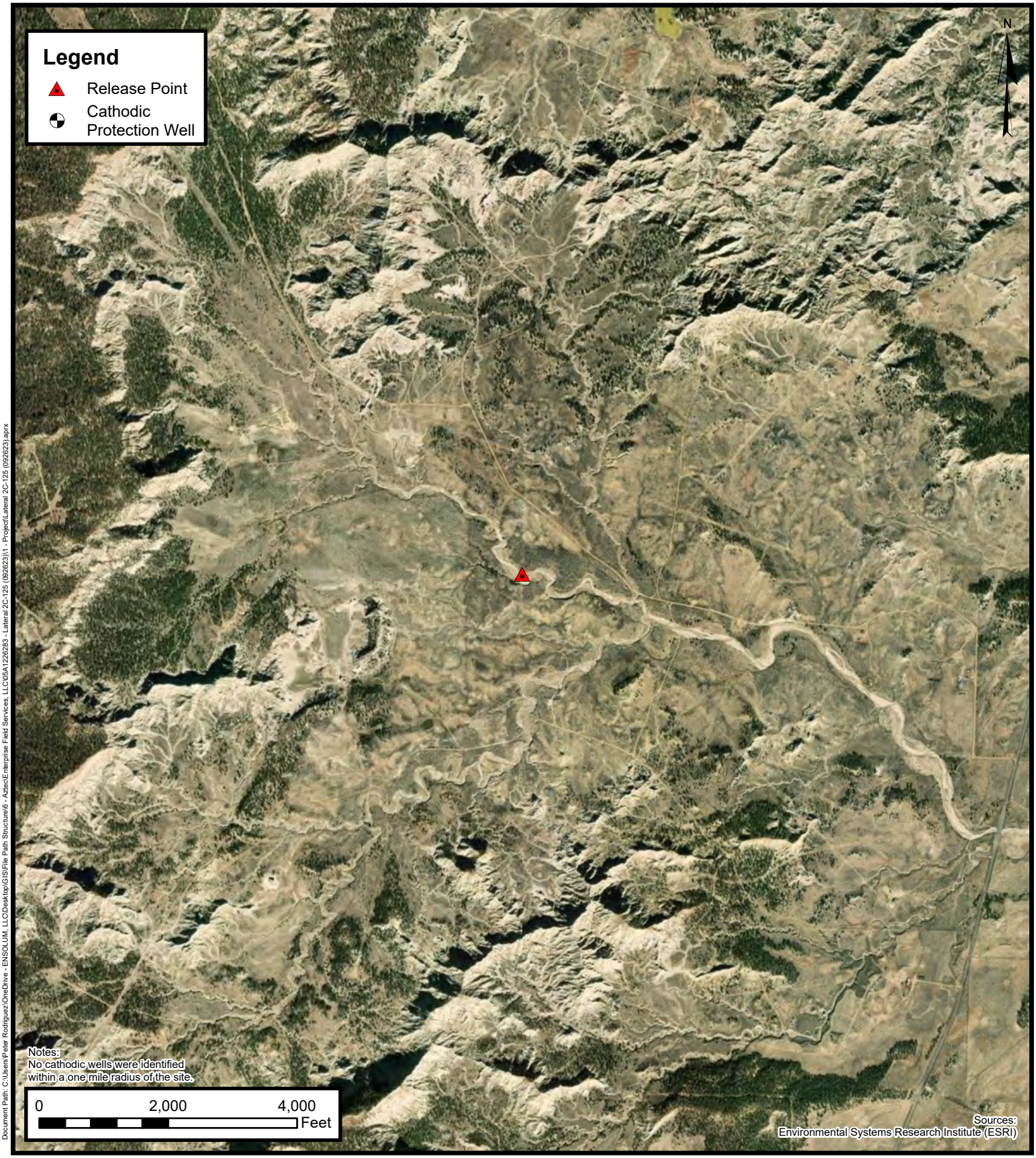
Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226283 - Lateral 2C-125 (09262323)\1 - Project\Lateral 2C-125 (092623).aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE
A

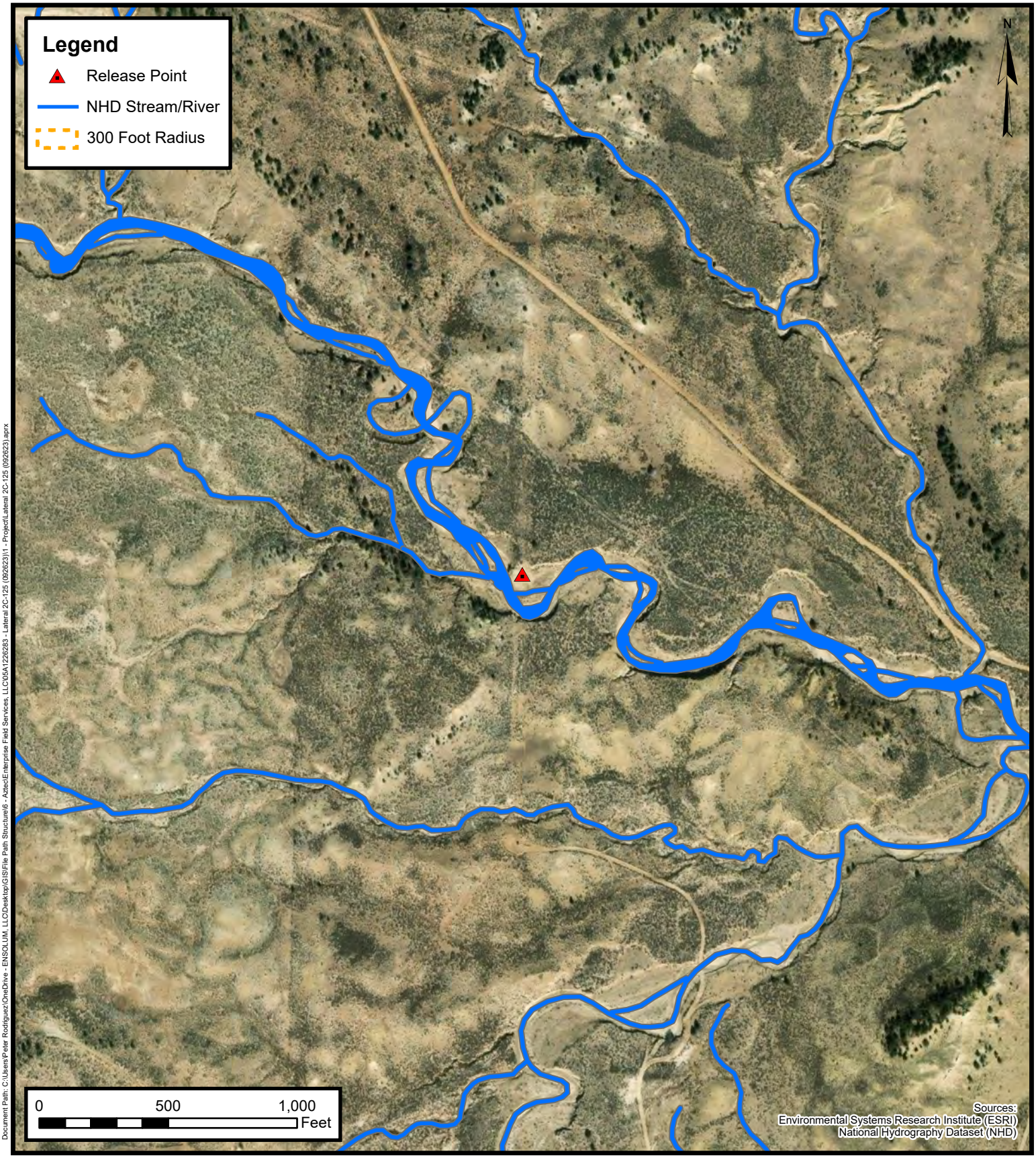


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE
B



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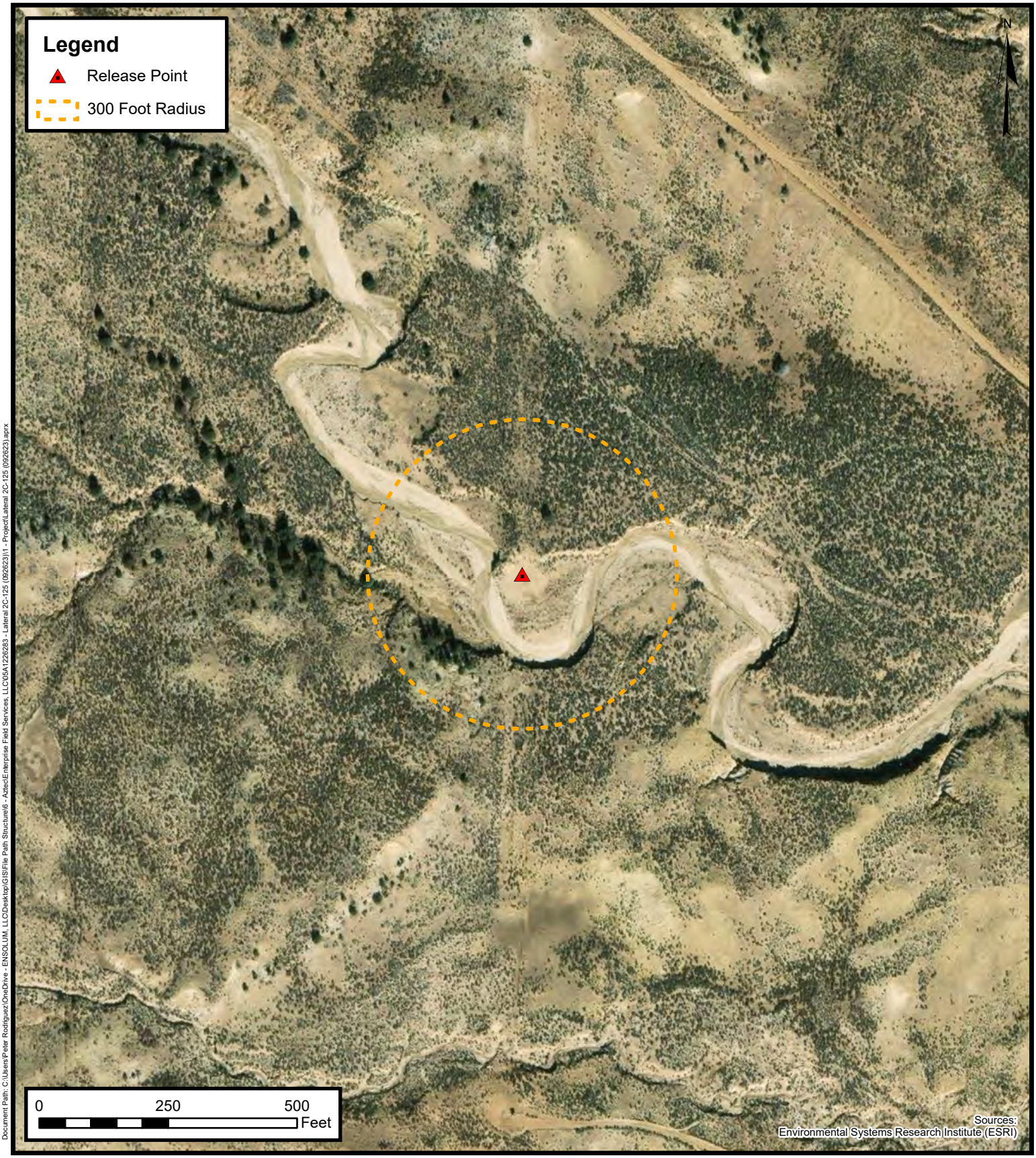
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE

C



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

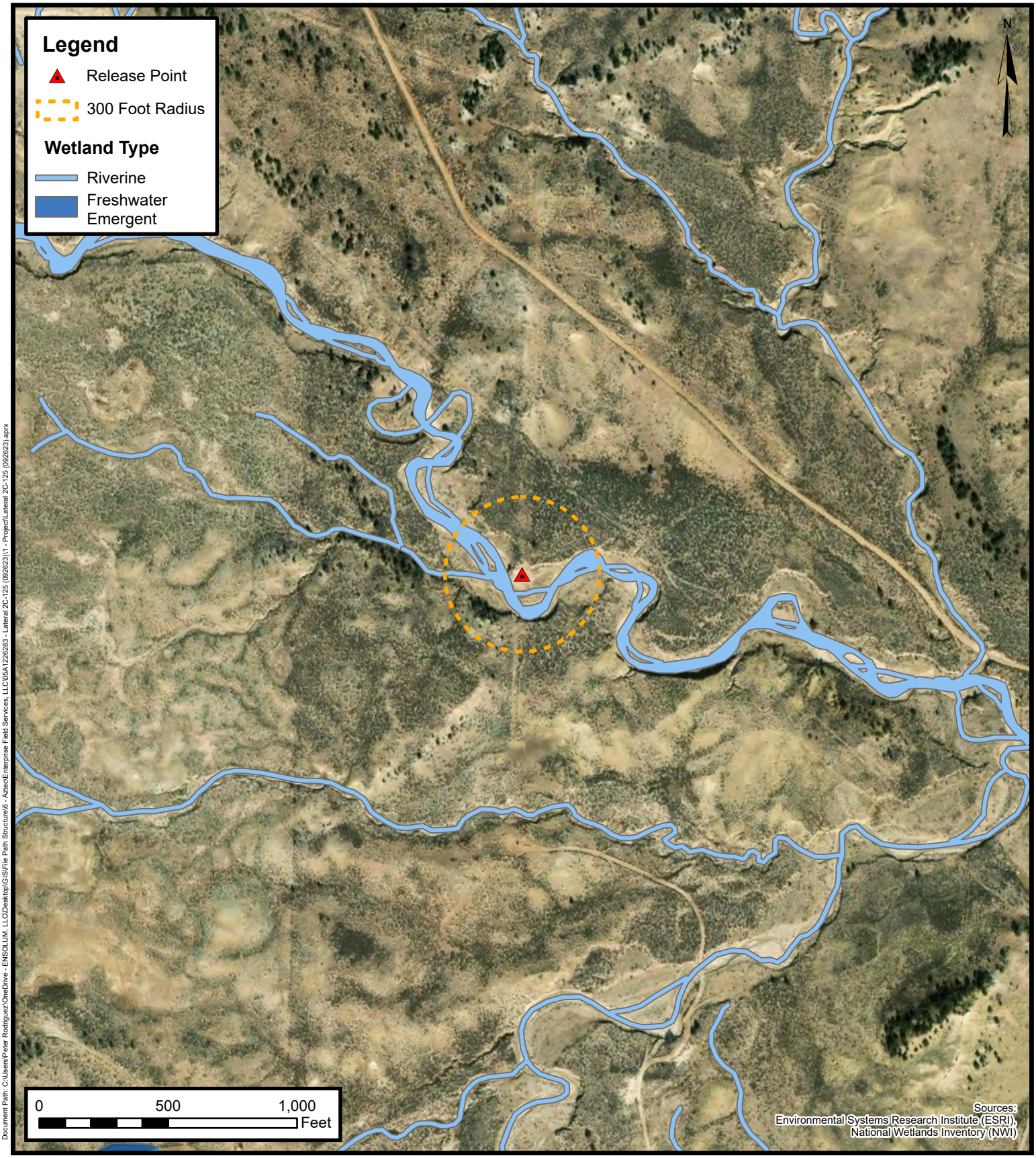
FIGURE

D

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Water Well and Natural Spring Location
Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE
E



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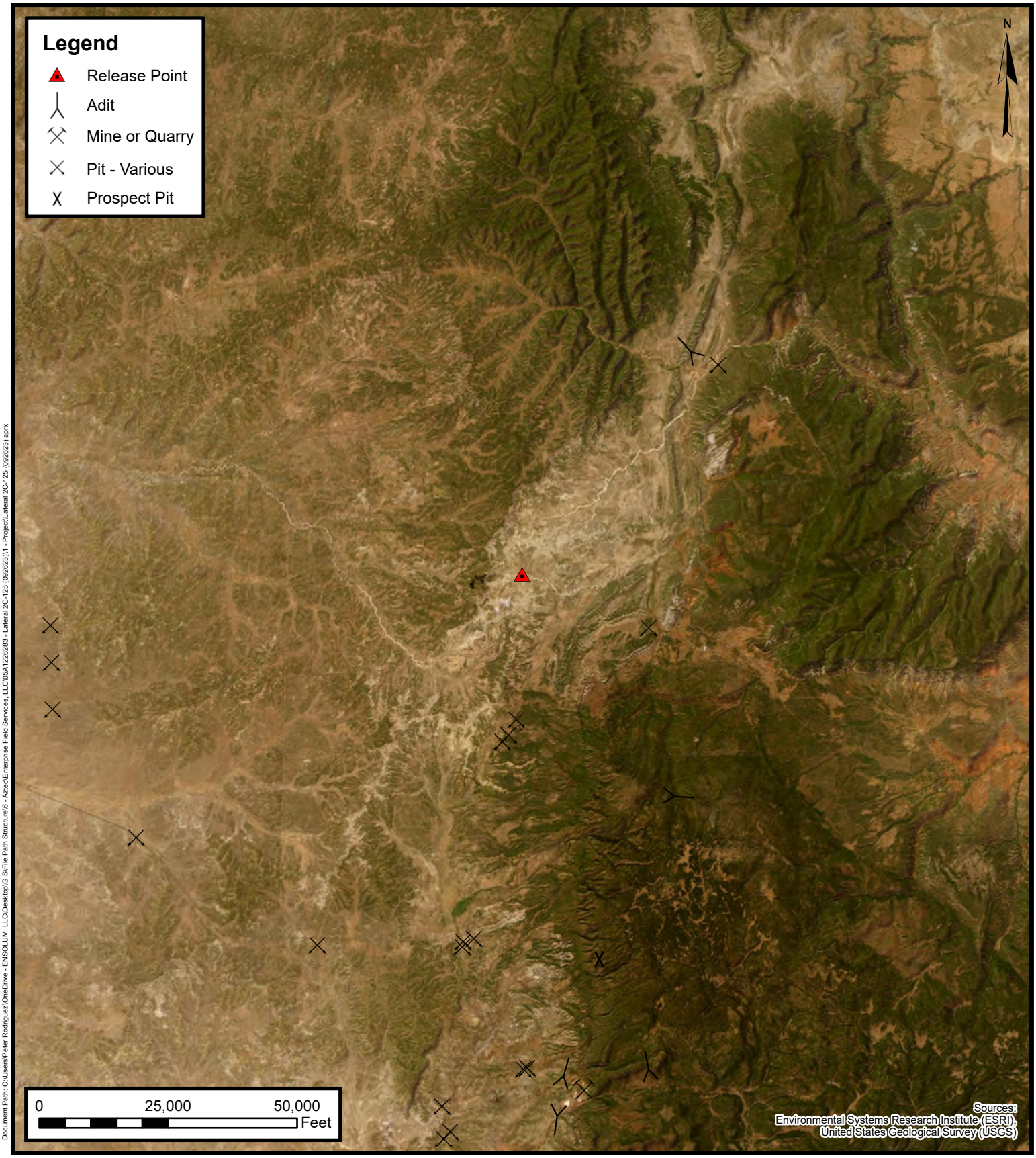
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Wetlands

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE
F



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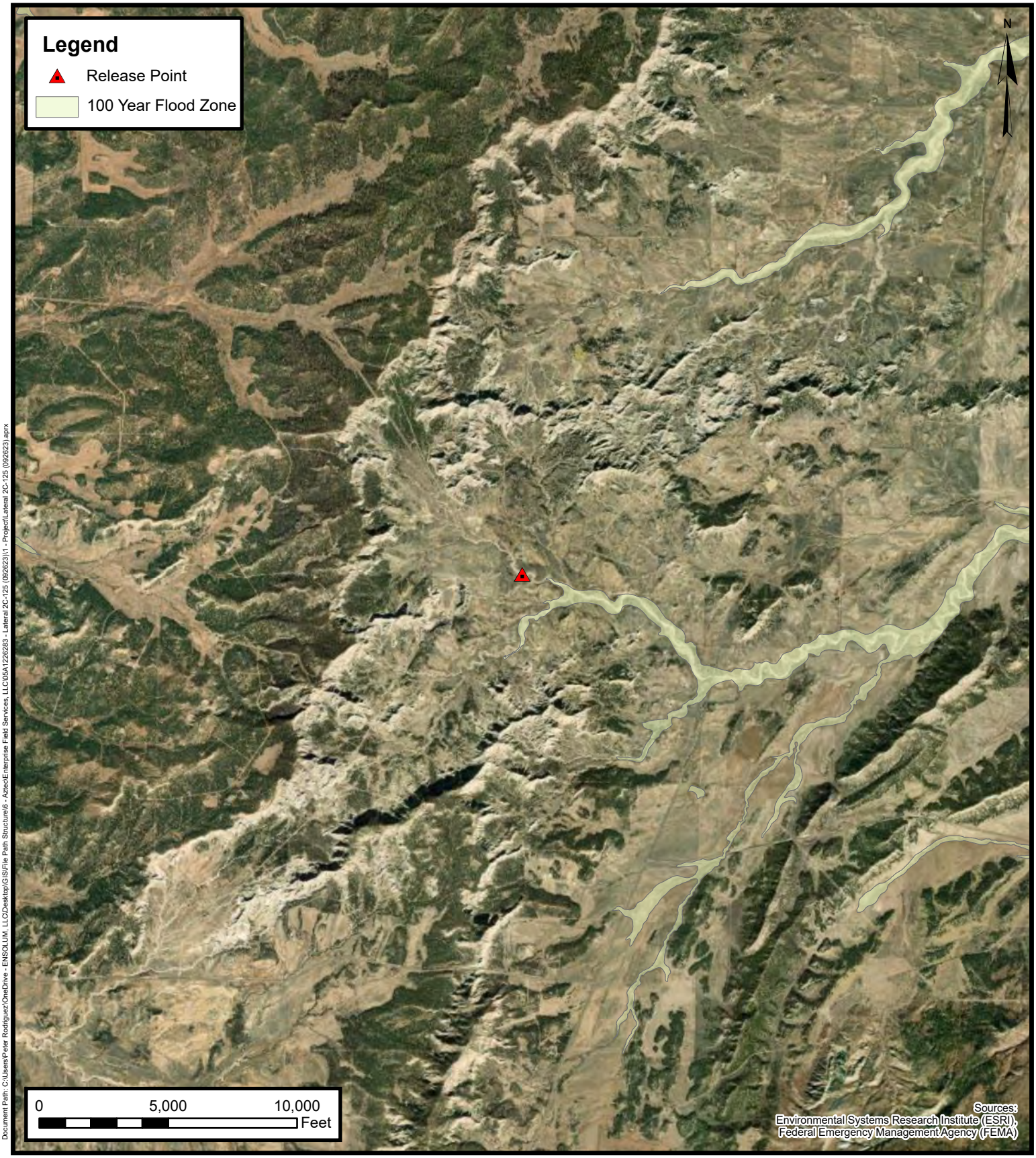
Mines, Mills, and Quarries

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE
G



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Project Number: 05A1226283
Unit Letter G, S33 T24N R01W, Rio Arriba County, New Mexico
36.267572, -106.944883

FIGURE
H

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RG 71779	CH	RA		2	3	32	24N	01W	323217	4015196*	1000		
RG 82030	CH	RA	4	2	2	32	24N	01W	324066	4015972	300		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

PLSS Search:

Section(s): 33, 27, 28, 29, 32, 34 **Township:** 24N **Range:** 01W

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 3, 4, 5 **Township:** 23N **Range:** 01W

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APPENDIX C

Executed C-138 Solid Waste Acceptance Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Lateral 2C-125

AFE: N67400
PM: Dwayne Dixon
Pay Key: AM14058

2. Location of Material (Street Address, City, State or ULSTR):
UL G Section 33 T24N R1W; 36.267572, -106.944883

4. Source and Description of Waste:
Source: Hydrocarbon contaminated soil/water/sludge associated with cleaning a natural condensate tank.
Description: Hydrocarbon contaminated soil/water/sludge associated with cleaning a natural condensate tank..
Estimated Volume 50 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 1148 (yd³) / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long (Thomas Long) , representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long) 9-25-2023, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, G. Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Enterprise Contractors

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011**
Address of Facility: **Hill Top, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 9/25/23

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Ensolum Project No. 05A1226283

ENSOLUM

Photograph 1 Photograph Description: View of the in-process excavation activities.	
Photograph 2 Photograph Description: View of the in-process excavation activities.	
Photograph 3 Photograph Description: View of the in-process excavation activities.	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 2C-125 (09/26/23)
Ensolum Project No. 05A1226283

ENSOLUM

Photograph 4 Photograph Description: View of the final excavation.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Kyle Summers
To: Chad D"Aponti
Cc: Ranee Deechilly
Subject: FW: [EXTERNAL] Lateral 2C-125 - UL G Section 33 T24N R1W; 36.267572, -106.944883; NMOCD Incident # nAPP2326946647
Date: Tuesday, October 3, 2023 1:06:23 PM
Attachments: image002.png
image004.png
image005.png
image006.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Craun, James N <jcraun@blm.gov>
Sent: Tuesday, October 3, 2023 1:05 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Long, Thomas <tjlong@eprod.com>; Adeloye, Abiodun A <aadeloye@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: Re: [EXTERNAL] Lateral 2C-125 - UL G Section 33 T24N R1W; 36.267572, -106.944883; NMOCD Incident # nAPP2326946647

[**EXTERNAL EMAIL**]

Hi Tom,

BLM hereby approves your variance request.

Best,

Nolan

J. Nolan Craun
Supervisory Realty Specialist
Farmington Field Office
Office: (505) 564-7775
Cell: (505) 444-1704
Email: jcraun@blm.gov

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Sent: Tuesday, October 3, 2023 12:57
To: Long, Thomas <tjlong@eprod.com>; Adeloye, Abiodun A <aadeloye@blm.gov>; Craun, James N <jcraun@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: Re: [EXTERNAL] Lateral 2C-125 - UL G Section 33 T24N R1W; 36.267572, -106.944883; NMOCD Incident # nAPP2326946647

Tom,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, October 3, 2023 12:31 PM
To: Adeloye, Abiodun A <aadeloye@blm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Craun, James N <jcraun@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Lateral 2C-125 - UL G Section 33 T24N R1W; 36.267572, -106.944883; NMOCD Incident # nAPP2326946647

Nelson/Nolan,

This email is a notification and variance request. Some of the samples collected last week exceeded NMOCD standards. Enterprise is requesting a variance for required 48-hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples on Wednesday, October 4, 2023 at 10:00 a.m. Please acknowledge this variance request. If you have any questions, please call or email.

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

Enterprise Products

From: Adeloye, Abiodun A <aadeloye@blm.gov>
Sent: Thursday, September 28, 2023 8:11 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Long, Thomas <tjlong@eprod.com>; Craun, James N <jcraun@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Lateral 2C-125 - UL G Section 33 T24N R1W; 36.267572, -106.944883; NMOCD Incident # nAPP2326946647

[Use caution with links/attachments]
Hi, Tom, please include Nolan (James, Craun) in all your future ROWs releases, he's the Realty Supervisor. I have included him with this reply.
Thank you.

Abiodun Adeloye (Emmanuel)
Natural Resources Specialist (NRS)
6251 College Blvd., Suite A
Farmington, NM 87402
Office: 505-564-7665
Mobile: 505-635-0984

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, September 27, 2023 7:09 AM
To: Long, Thomas <tjlong@eprod.com>; Adeloye, Abiodun A <aadeloye@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: Re: [EXTERNAL] Lateral 2C-125 - UL G Section 33 T24N R1W; 36.267572, -106.944883; NMOCD Incident # nAPP2326946647

Good morning Tom,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, September 26, 2023 1:06 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; 'aadeloye@blm.gov' <aadeloye@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: [EXTERNAL] Lateral 2C-125 - UL G Section 33 T24N R1W; 36.267572, -106.944883; NMOCD Incident # nAPP2326946647

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

Nelson/Emanual,

This email is a notification that Enterprise had a release of natural gas and condensate on the Lateral 2C-125 on 8-30-2023. The pipeline was isolated, depressurized, lock and tagged out. A small area of staining was observed on the ground surface. No washes were affected. No fire nor injuries occurred. Enterprise began remediation of the release on 9-25-2023 and determined the release reportable per NMOCD regulation due to the volume of impacted subsurface soil on 9-26-2023.

The email also serves as a sample notification. Enterprise will collect closure samples at the Lateral 2C-125 excavation on Thursday, September 28, 2023 at 11:00 a.m. If you have any questions, please call or email.

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

Enterprise Products

message.

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Lateral 2C-125 (09/26/23)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-15	9.29.23	C	0 to 10	<0.016	<0.033	<0.033	<0.065	ND	<3.3	93	63	**160**	<59
Excavation Composite Soil Samples													
S-1	9.29.23	C	10	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<9.3	<47	ND	<60
S-2	9.29.23	C	10	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.5	<47	ND	<60
S-3	9.29.23	C	10	<0.023	<0.046	<0.046	<0.091	ND	<4.6	<9.5	<48	ND	<60
S-4	9.29.23	C	10	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<9.5	<47	ND	<59
S-5	9.29.23	C	10	<0.020	<0.039	<0.039	<0.078	ND	<3.9	<9.8	<49	ND	<60
S-6	9.29.23	C	10	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.1	<46	ND	<60
S-7	9.29.23	C	10	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<10	<50	ND	<60
S-8	9.29.23	C	10	<0.021	<0.042	<0.042	<0.083	ND	<4.2	<9.4	<47	ND	<60
S-9	9.29.23	C	0 to 10	<0.019	<0.037	<0.037	<0.074	ND	<3.7	48	<48	48	<60
S-10	9.29.23	C	0 to 10	<0.023	<0.046	<0.046	<0.092	ND	<4.6	50	<46	50	<60
S-11	9.29.23	C	0 to 10	<0.014	<0.027	<0.027	<0.054	ND	<2.7	17	<48	17	<60
S-12	9.29.23	C	0 to 10	<0.016	<0.032	<0.032	<0.063	ND	<3.2	34	<48	34	<60
S-13	9.29.23	C	0 to 10	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.6	<48	ND	<60
S-14	9.29.23	C	0 to 10	<0.019	<0.038	<0.038	<0.076	ND	<3.8	76	<49	76	<60
S-15a	10.04.23	C	0 to 10	<0.018	<0.037	<0.037	<0.074	ND	<3.7	<10	<50	ND	<60
S-16	10.04.23	C	10	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.9	<49	ND	<60
S-17	10.04.23	C	10	<0.018	<0.036	<0.036	<0.071	ND	<3.6	10	<47	10	<60

ENSOLUM

TABLE 1
Lateral 2C-125 (09/26/23)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
S-18	10.04.23	C	0 to 10	<0.017	<0.035	<0.035	<0.070	ND	<3.5	10	<46	10	<60
S-19	10.04.23	C	0 to 10	<0.018	<0.036	<0.036	<0.072	ND	<3.6	10	<48	10	<60
S-20	10.05.23	C	0 to 10	<0.016	<0.033	<0.033	<0.066	ND	<3.3	<9.4	<47	ND	<60

*Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria*

[1] = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

ND = Not Detected above the Practical Quantitation Limits (PQLs) or Reporting Limits (RLs)

NA = Not Analyzed

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 04, 2023

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

RE: Lateral 2C 125 OrderNo.: 2309H63

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/30/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:00:00 AM
Lab ID: 2309H63-001 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 3:41:59 PM	77868
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/2/2023 10:30:02 AM	77874
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/2/2023 10:30:02 AM	77874
Surr: DNOP	98.6	69-147		%Rec	1	10/2/2023 10:30:02 AM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/30/2023 5:30:00 PM	R100114
Surr: BFB	99.9	15-244		%Rec	1	9/30/2023 5:30:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.021		mg/Kg	1	9/30/2023 5:30:00 PM	B100114
Toluene	ND	0.041		mg/Kg	1	9/30/2023 5:30:00 PM	B100114
Ethylbenzene	ND	0.041		mg/Kg	1	9/30/2023 5:30:00 PM	B100114
Xylenes, Total	ND	0.082		mg/Kg	1	9/30/2023 5:30:00 PM	B100114
Surr: 4-Bromofluorobenzene	91.0	39.1-146		%Rec	1	9/30/2023 5:30:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:05:00 AM
Lab ID: 2309H63-002 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 3:54:24 PM	77868
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/2/2023 10:40:37 AM	77874
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/2/2023 10:40:37 AM	77874
Surr: DNOP	121	69-147		%Rec	1	10/2/2023 10:40:37 AM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/30/2023 5:51:00 PM	R100114
Surr: BFB	103	15-244		%Rec	1	9/30/2023 5:51:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	9/30/2023 5:51:00 PM	B100114
Toluene	ND	0.050		mg/Kg	1	9/30/2023 5:51:00 PM	B100114
Ethylbenzene	ND	0.050		mg/Kg	1	9/30/2023 5:51:00 PM	B100114
Xylenes, Total	ND	0.10		mg/Kg	1	9/30/2023 5:51:00 PM	B100114
Surr: 4-Bromofluorobenzene	88.7	39.1-146		%Rec	1	9/30/2023 5:51:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:10:00 AM
Lab ID: 2309H63-003 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 4:06:49 PM	77868
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/2/2023 10:51:12 AM	77874
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/2/2023 10:51:12 AM	77874
Surr: DNOP	105	69-147		%Rec	1	10/2/2023 10:51:12 AM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/30/2023 6:13:00 PM	R100114
Surr: BFB	102	15-244		%Rec	1	9/30/2023 6:13:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	9/30/2023 6:13:00 PM	B100114
Toluene	ND	0.046		mg/Kg	1	9/30/2023 6:13:00 PM	B100114
Ethylbenzene	ND	0.046		mg/Kg	1	9/30/2023 6:13:00 PM	B100114
Xylenes, Total	ND	0.091		mg/Kg	1	9/30/2023 6:13:00 PM	B100114
Surr: 4-Bromofluorobenzene	91.6	39.1-146		%Rec	1	9/30/2023 6:13:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:15:00 AM
Lab ID: 2309H63-004 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	59		mg/Kg	20	9/30/2023 4:44:02 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/2/2023 11:01:47 AM	77874
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/2/2023 11:01:47 AM	77874
Surr: DNOP	105	69-147		%Rec	1	10/2/2023 11:01:47 AM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/30/2023 6:35:00 PM	R100114
Surr: BFB	103	15-244		%Rec	1	9/30/2023 6:35:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.020		mg/Kg	1	9/30/2023 6:35:00 PM	B100114
Toluene	ND	0.041		mg/Kg	1	9/30/2023 6:35:00 PM	B100114
Ethylbenzene	ND	0.041		mg/Kg	1	9/30/2023 6:35:00 PM	B100114
Xylenes, Total	ND	0.081		mg/Kg	1	9/30/2023 6:35:00 PM	B100114
Surr: 4-Bromofluorobenzene	90.6	39.1-146		%Rec	1	9/30/2023 6:35:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:20:00 AM
Lab ID: 2309H63-005 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 4:56:27 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/2/2023 11:12:26 AM	77874
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/2/2023 11:12:26 AM	77874
Surr: DNOP	100	69-147		%Rec	1	10/2/2023 11:12:26 AM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/30/2023 6:57:00 PM	R100114
Surr: BFB	102	15-244		%Rec	1	9/30/2023 6:57:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.020		mg/Kg	1	9/30/2023 6:57:00 PM	B100114
Toluene	ND	0.039		mg/Kg	1	9/30/2023 6:57:00 PM	B100114
Ethylbenzene	ND	0.039		mg/Kg	1	9/30/2023 6:57:00 PM	B100114
Xylenes, Total	ND	0.078		mg/Kg	1	9/30/2023 6:57:00 PM	B100114
Surr: 4-Bromofluorobenzene	91.2	39.1-146		%Rec	1	9/30/2023 6:57:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:25:00 AM
Lab ID: 2309H63-006 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 6:23:18 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/2/2023 11:23:06 AM	77874
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/2/2023 11:23:06 AM	77874
Surr: DNOP	78.4	69-147		%Rec	1	10/2/2023 11:23:06 AM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/30/2023 7:19:00 PM	R100114
Surr: BFB	103	15-244		%Rec	1	9/30/2023 7:19:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	9/30/2023 7:19:00 PM	B100114
Toluene	ND	0.046		mg/Kg	1	9/30/2023 7:19:00 PM	B100114
Ethylbenzene	ND	0.046		mg/Kg	1	9/30/2023 7:19:00 PM	B100114
Xylenes, Total	ND	0.092		mg/Kg	1	9/30/2023 7:19:00 PM	B100114
Surr: 4-Bromofluorobenzene	90.5	39.1-146		%Rec	1	9/30/2023 7:19:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-7
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:30:00 AM
Lab ID: 2309H63-007 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 6:35:43 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2023 11:44:24 AM	77874
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/2/2023 11:44:24 AM	77874
Surr: DNOP	102	69-147		%Rec	1	10/2/2023 11:44:24 AM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/30/2023 7:40:00 PM	R100114
Surr: BFB	100	15-244		%Rec	1	9/30/2023 7:40:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.017		mg/Kg	1	9/30/2023 7:40:00 PM	B100114
Toluene	ND	0.034		mg/Kg	1	9/30/2023 7:40:00 PM	B100114
Ethylbenzene	ND	0.034		mg/Kg	1	9/30/2023 7:40:00 PM	B100114
Xylenes, Total	ND	0.068		mg/Kg	1	9/30/2023 7:40:00 PM	B100114
Surr: 4-Bromofluorobenzene	89.6	39.1-146		%Rec	1	9/30/2023 7:40:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-8
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:35:00 AM
Lab ID: 2309H63-008 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 6:48:08 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/2/2023 11:55:04 AM	77874
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/2/2023 11:55:04 AM	77874
Surr: DNOP	99.7	69-147		%Rec	1	10/2/2023 11:55:04 AM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	9/30/2023 8:02:00 PM	R100114
Surr: BFB	97.4	15-244		%Rec	1	9/30/2023 8:02:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.021		mg/Kg	1	9/30/2023 8:02:00 PM	B100114
Toluene	ND	0.042		mg/Kg	1	9/30/2023 8:02:00 PM	B100114
Ethylbenzene	ND	0.042		mg/Kg	1	9/30/2023 8:02:00 PM	B100114
Xylenes, Total	ND	0.083		mg/Kg	1	9/30/2023 8:02:00 PM	B100114
Surr: 4-Bromofluorobenzene	86.5	39.1-146		%Rec	1	9/30/2023 8:02:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-9
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:40:00 AM
Lab ID: 2309H63-009 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 7:00:33 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	48	9.6		mg/Kg	1	10/2/2023 12:05:46 PM	77874
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/2/2023 12:05:46 PM	77874
Surr: DNOP	101	69-147		%Rec	1	10/2/2023 12:05:46 PM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/30/2023 8:24:00 PM	R100114
Surr: BFB	102	15-244		%Rec	1	9/30/2023 8:24:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	9/30/2023 8:24:00 PM	B100114
Toluene	ND	0.037		mg/Kg	1	9/30/2023 8:24:00 PM	B100114
Ethylbenzene	ND	0.037		mg/Kg	1	9/30/2023 8:24:00 PM	B100114
Xylenes, Total	ND	0.074		mg/Kg	1	9/30/2023 8:24:00 PM	B100114
Surr: 4-Bromofluorobenzene	87.5	39.1-146		%Rec	1	9/30/2023 8:24:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-10
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:45:00 AM
Lab ID: 2309H63-010 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 7:12:57 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	50	9.2		mg/Kg	1	10/2/2023 12:16:29 PM	77874
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/2/2023 12:16:29 PM	77874
Surr: DNOP	99.8	69-147		%Rec	1	10/2/2023 12:16:29 PM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/30/2023 8:45:00 PM	R100114
Surr: BFB	106	15-244		%Rec	1	9/30/2023 8:45:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	9/30/2023 8:45:00 PM	B100114
Toluene	ND	0.046		mg/Kg	1	9/30/2023 8:45:00 PM	B100114
Ethylbenzene	ND	0.046		mg/Kg	1	9/30/2023 8:45:00 PM	B100114
Xylenes, Total	ND	0.092		mg/Kg	1	9/30/2023 8:45:00 PM	B100114
Surr: 4-Bromofluorobenzene	87.1	39.1-146		%Rec	1	9/30/2023 8:45:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-11
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:50:00 AM
Lab ID: 2309H63-011 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 7:25:21 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	17	9.6		mg/Kg	1	10/2/2023 12:27:11 PM	77874
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/2/2023 12:27:11 PM	77874
Surr: DNOP	101	69-147		%Rec	1	10/2/2023 12:27:11 PM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	9/30/2023 9:29:00 PM	R100114
Surr: BFB	98.8	15-244		%Rec	1	9/30/2023 9:29:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.014		mg/Kg	1	9/30/2023 9:29:00 PM	B100114
Toluene	ND	0.027		mg/Kg	1	9/30/2023 9:29:00 PM	B100114
Ethylbenzene	ND	0.027		mg/Kg	1	9/30/2023 9:29:00 PM	B100114
Xylenes, Total	ND	0.054		mg/Kg	1	9/30/2023 9:29:00 PM	B100114
Surr: 4-Bromofluorobenzene	88.1	39.1-146		%Rec	1	9/30/2023 9:29:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-12
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 11:55:00 AM
Lab ID: 2309H63-012 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 8:02:35 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	34	9.6		mg/Kg	1	10/2/2023 12:37:54 PM	77874
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/2/2023 12:37:54 PM	77874
Surr: DNOP	101	69-147		%Rec	1	10/2/2023 12:37:54 PM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	9/30/2023 9:50:00 PM	R100114
Surr: BFB	101	15-244		%Rec	1	9/30/2023 9:50:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.016		mg/Kg	1	9/30/2023 9:50:00 PM	B100114
Toluene	ND	0.032		mg/Kg	1	9/30/2023 9:50:00 PM	B100114
Ethylbenzene	ND	0.032		mg/Kg	1	9/30/2023 9:50:00 PM	B100114
Xylenes, Total	ND	0.063		mg/Kg	1	9/30/2023 9:50:00 PM	B100114
Surr: 4-Bromofluorobenzene	88.0	39.1-146		%Rec	1	9/30/2023 9:50:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-13
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 12:00:00 PM
Lab ID: 2309H63-013 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 8:14:59 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/2/2023 12:48:38 PM	77874
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/2/2023 12:48:38 PM	77874
Surr: DNOP	121	69-147		%Rec	1	10/2/2023 12:48:38 PM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/30/2023 10:12:00 PM	R100114
Surr: BFB	100	15-244		%Rec	1	9/30/2023 10:12:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.018		mg/Kg	1	9/30/2023 10:12:00 PM	B100114
Toluene	ND	0.036		mg/Kg	1	9/30/2023 10:12:00 PM	B100114
Ethylbenzene	ND	0.036		mg/Kg	1	9/30/2023 10:12:00 PM	B100114
Xylenes, Total	ND	0.072		mg/Kg	1	9/30/2023 10:12:00 PM	B100114
Surr: 4-Bromofluorobenzene	89.9	39.1-146		%Rec	1	9/30/2023 10:12:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-14
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 12:05:00 PM
Lab ID: 2309H63-014 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	9/30/2023 8:27:24 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	76	9.8		mg/Kg	1	10/2/2023 12:59:22 PM	77874
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/2/2023 12:59:22 PM	77874
Surr: DNOP	111	69-147		%Rec	1	10/2/2023 12:59:22 PM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/30/2023 10:34:00 PM	R100114
Surr: BFB	101	15-244		%Rec	1	9/30/2023 10:34:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	9/30/2023 10:34:00 PM	B100114
Toluene	ND	0.038		mg/Kg	1	9/30/2023 10:34:00 PM	B100114
Ethylbenzene	ND	0.038		mg/Kg	1	9/30/2023 10:34:00 PM	B100114
Xylenes, Total	ND	0.076		mg/Kg	1	9/30/2023 10:34:00 PM	B100114
Surr: 4-Bromofluorobenzene	88.4	39.1-146		%Rec	1	9/30/2023 10:34:00 PM	B100114

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

Qualifiers:

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

Analytical Report
Lab Order **2309H63**
Date Reported: **10/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-15
Project: Lateral 2C 125 **Collection Date:** 9/29/2023 12:10:00 PM
Lab ID: 2309H63-015 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2023 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	59		mg/Kg	20	9/30/2023 8:39:48 PM	77869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	93	9.2		mg/Kg	1	10/2/2023 1:10:07 PM	77874
Motor Oil Range Organics (MRO)	63	46		mg/Kg	1	10/2/2023 1:10:07 PM	77874
Surr: DNOP	112	69-147		%Rec	1	10/2/2023 1:10:07 PM	77874
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	9/30/2023 10:56:00 PM	R100114
Surr: BFB	97.8	15-244		%Rec	1	9/30/2023 10:56:00 PM	R100114
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.016		mg/Kg	1	9/30/2023 10:56:00 PM	B100114
Toluene	ND	0.033		mg/Kg	1	9/30/2023 10:56:00 PM	B100114
Ethylbenzene	ND	0.033		mg/Kg	1	9/30/2023 10:56:00 PM	B100114
Xylenes, Total	ND	0.065		mg/Kg	1	9/30/2023 10:56:00 PM	B100114
Surr: 4-Bromofluorobenzene	88.3	39.1-146		%Rec	1	9/30/2023 10:56:00 PM	B100114

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309H63**

04-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID:	**MB-77868**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**77868**	RunNo:	**100121**					
Prep Date:	**9/29/2023**	Analysis Date:	**9/30/2023**	SeqNo:	**3664006**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-77868**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**77868**	RunNo:	**100121**					
Prep Date:	**9/29/2023**	Analysis Date:	**9/30/2023**	SeqNo:	**3664007**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309H63**

04-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **2309H63-015AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-15**	Batch ID: **77874**	RunNo: **100132**
Prep Date: **10/2/2023**	Analysis Date: **10/2/2023**	SeqNo: **3664626** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	9.3	46.43	93.03	34.9	54.2	135			S
Surr: DNOP	5.2		4.643		111	69	147			

Sample ID: **2309H63-015AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-15**	Batch ID: **77874**	RunNo: **100132**
Prep Date: **10/2/2023**	Analysis Date: **10/2/2023**	SeqNo: **3664627** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	99	10	49.80	93.03	11.9	54.2	135	9.84	29.2	S
Surr: DNOP	5.5		4.980		110	69	147	0	0	

Sample ID: **LCS-77874**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77874**	RunNo: **100132**
Prep Date: **10/2/2023**	Analysis Date: **10/2/2023**	SeqNo: **3664629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	61.9	130			
Surr: DNOP	5.5		5.000		110	69	147			

Sample ID: **MB-77874**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77874**	RunNo: **100132**
Prep Date: **10/2/2023**	Analysis Date: **10/2/2023**	SeqNo: **3664631** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	69	147			

Sample ID: **LCS-77851**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77851**	RunNo: **100132**
Prep Date: **9/29/2023**	Analysis Date: **10/2/2023**	SeqNo: **3665777** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		104	69	147			

Sample ID: **LCS-77867**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77867**	RunNo: **100132**
Prep Date: **9/29/2023**	Analysis Date: **10/2/2023**	SeqNo: **3665778** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309H63**

04-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **LCS-77867**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77867**	RunNo: **100132**
Prep Date: **9/29/2023**	Analysis Date: **10/2/2023**	SeqNo: **3665778** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: **MB-77851**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77851**	RunNo: **100132**
Prep Date: **9/29/2023**	Analysis Date: **10/2/2023**	SeqNo: **3665780** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		105	69	147			

Sample ID: **MB-77867**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77867**	RunNo: **100132**
Prep Date: **9/29/2023**	Analysis Date: **10/2/2023**	SeqNo: **3665781** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	69	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309H63**

04-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R100114**	RunNo: **100114**
Prep Date:	Analysis Date: **9/30/2023**	SeqNo: **3663745** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	15	244			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R100114**	RunNo: **100114**
Prep Date:	Analysis Date: **9/30/2023**	SeqNo: **3663765** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB	2300		1000		232	15	244			

Sample ID: **2309h63-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **R100114**	RunNo: **100114**
Prep Date:	Analysis Date: **10/1/2023**	SeqNo: **3663766** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.1	20.59	0	101	70	130			
Surr: BFB	1800		823.7		222	15	244			

Sample ID: **2309h63-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **R100114**	RunNo: **100114**
Prep Date:	Analysis Date: **10/1/2023**	SeqNo: **3663767** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.1	20.59	0	96.6	70	130	4.37	20	
Surr: BFB	1800		823.7		218	15	244	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309H63**

04-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B100114**	RunNo: **100114**
Prep Date:	Analysis Date: **9/30/2023**	SeqNo: **3663772** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	70	130			
Toluene	0.91	0.050	1.000	0	91.5	70	130			
Ethylbenzene	0.94	0.050	1.000	0	93.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.2	70	130			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.2	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B100114**	RunNo: **100114**
Prep Date:	Analysis Date: **9/30/2023**	SeqNo: **3663773** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	39.1	146			

Sample ID: **2309h63-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **B100114**	RunNo: **100114**
Prep Date:	Analysis Date: **10/1/2023**	SeqNo: **3663793** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9960	0	88.4	70	130			
Toluene	0.89	0.050	0.9960	0	89.6	70	130			
Ethylbenzene	0.91	0.050	0.9960	0	91.7	70	130			
Xylenes, Total	2.8	0.10	2.988	0	92.4	70	130			
Surr: 4-Bromofluorobenzene	0.90		0.9960		89.9	39.1	146			

Sample ID: **2309h63-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **B100114**	RunNo: **100114**
Prep Date:	Analysis Date: **10/1/2023**	SeqNo: **3663794** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9960	0	85.5	70	130	3.33	20	
Toluene	0.86	0.050	0.9960	0	86.8	70	130	3.18	20	
Ethylbenzene	0.89	0.050	0.9960	0	89.2	70	130	2.80	20	
Xylenes, Total	2.7	0.10	2.988	0	89.5	70	130	3.16	20	
Surr: 4-Bromofluorobenzene	0.87		0.9960		87.0	39.1	146	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM | Work Order Number: 2309H63 | RcptNo: 1

Received By: Tracy Casarrubias 9/30/2023 8:10:00 AM

Completed By: Tracy Casarrubias 9/30/2023 9:14:58 AM

Reviewed By: RA 9/30/23

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: TMC 9/30/23

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Phone number and Email/Fax are missing on COC - TMC 9/30/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes	Yogi		
2	2.3	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Enso/Lm

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 100%
☐ Standard ☒ Rush 10-2-23

Project Name: Lateral 2C-125

Project #:

Project Manager: K Summers

Sampler: C D Aponte

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(Including CF): See Checklist (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2309H63	BTEX / ~~MTBE~~ / ~~TMB~~'s (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, ~~F~~, ~~Br~~, ~~NO3~~, ~~NO2~~, ~~PO4~~, ~~SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/29	1100	S	S-1	1 4oz Jar	Cool	001	✓	✓					✓			
9/29	1105	S	S-2		Cool	002	✓	✓					✓			
9/29	1110	S	S-3		Cool	003	✓	✓					✓			
9/29	1115	S	S-4		Cool	004	✓	✓					✓			
9/29	1120	S	S-5		Cool	005	✓	✓					✓			
9/29	1125	S	S-6		Cool	006	✓	✓					✓			
9/29	1130	S	S-7		Cool	007	✓	✓					✓			
9/29	1135	S	S-8		Cool	008	✓	✓					✓			
9/29	1140	S	S-9		Cool	009	✓	✓					✓			
9/29	1145	S	S-10		Cool	010	✓	✓					✓			
9/29	1150	S	S-11		Cool	011	✓	✓					✓			
9/29	1155	S	S-12		Cool	012	✓	✓					✓			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
~~9/29/23~~ 9/29/23	1315				9/29/23	1315
9/29/23	1754			Courier	9/30/23	8:10

Remarks: Tom Long

1 of 2

Sample Log-In Check List

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

Chain-of-Custody Record

Client: Enterprise

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 1000e
☐ Standard ☑ Rush 10-2-23

Project Name: Lateral 2C-25

Project #:

Project Manager: K Summers

Sampler: C DAponte

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(Including CF): See Checklist (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2309H63	BTEX / ~~MTBE~~ / ~~TMB~~'s (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, ~~Br~~, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/29	1200	S	S-13	1402 Jar	Cool	013	✓	✓					✓			
9/29	1205	S	S-14		Cool	014	✓	✓					✓			
9/29	1210	S	S-15		Cool	015	✓	✓					✓			
~~9/29~~	~~1215~~	~~S~~	~~S-16~~		~~Cool~~		~~✓~~	~~✓~~					~~✓~~	✓		
~~9/29~~	~~1220~~	~~S~~	~~S-17~~		~~Cool~~		~~✓~~	~~✓~~					~~✓~~	✓		
~~9/29~~	~~1225~~	~~S~~	~~S-18~~		~~Cool~~		~~✓~~	~~✓~~					~~✓~~	✓		

Date: 9/29/23 Time: 1315 Relinquished by:

Received by: Via: Date 9/29/23 Time 1315

Date: 9/29/23 Time: 1754 Relinquished by:

Received by: Via: courier Date 9/30/23 Time 8:10

Remarks: 2 of 2

Signature

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 16, 2023

Kyle Summers

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

RE: Lateral 2C 125 OrderNo.: 2310232

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/5/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2310232**
Date Reported: **10/16/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-15a
Project: Lateral 2C 125 **Collection Date:** 10/4/2023 10:00:00 AM
Lab ID: 2310232-001 **Matrix:** MEOH (SOIL) **Received Date:** 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	10/5/2023 10:19:56 AM	77973
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/5/2023 12:32:10 PM	77971
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/5/2023 12:32:10 PM	77971
Surr: DNOP	94.2	69-147		%Rec	1	10/5/2023 12:32:10 PM	77971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/5/2023 12:24:00 PM	GS10024
Surr: BFB	105	15-244		%Rec	1	10/5/2023 12:24:00 PM	GS10024
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.018		mg/Kg	1	10/5/2023 12:24:00 PM	BS10024
Toluene	ND	0.037		mg/Kg	1	10/5/2023 12:24:00 PM	BS10024
Ethylbenzene	ND	0.037		mg/Kg	1	10/5/2023 12:24:00 PM	BS10024
Xylenes, Total	ND	0.074		mg/Kg	1	10/5/2023 12:24:00 PM	BS10024
Surr: 4-Bromofluorobenzene	91.7	39.1-146		%Rec	1	10/5/2023 12:24:00 PM	BS10024

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

Qualifiers:

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

Analytical Report
Lab Order **2310232**
Date Reported: **10/16/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-16
Project: Lateral 2C 125 **Collection Date:** 10/4/2023 10:05:00 AM
Lab ID: 2310232-002 **Matrix:** MEOH (SOIL) **Received Date:** 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	10/5/2023 10:32:21 AM	77973
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/5/2023 12:42:52 PM	77971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/5/2023 12:42:52 PM	77971
Surr: DNOP	92.4	69-147		%Rec	1	10/5/2023 12:42:52 PM	77971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	10/5/2023 12:45:00 PM	GS10024
Surr: BFB	103	15-244		%Rec	1	10/5/2023 12:45:00 PM	GS10024
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.021		mg/Kg	1	10/5/2023 12:45:00 PM	BS10024
Toluene	ND	0.042		mg/Kg	1	10/5/2023 12:45:00 PM	BS10024
Ethylbenzene	ND	0.042		mg/Kg	1	10/5/2023 12:45:00 PM	BS10024
Xylenes, Total	ND	0.084		mg/Kg	1	10/5/2023 12:45:00 PM	BS10024
Surr: 4-Bromofluorobenzene	88.7	39.1-146		%Rec	1	10/5/2023 12:45:00 PM	BS10024

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

Qualifiers:

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

Analytical Report
Lab Order **2310232**
Date Reported: **10/16/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-17
Project: Lateral 2C 125 **Collection Date:** 10/4/2023 10:10:00 AM
Lab ID: 2310232-003 **Matrix:** MEOH (SOIL) **Received Date:** 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	10/5/2023 10:44:45 AM	77973
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	10	9.3		mg/Kg	1	10/5/2023 12:53:39 PM	77971
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/5/2023 12:53:39 PM	77971
Surr: DNOP	95.1	69-147		%Rec	1	10/5/2023 12:53:39 PM	77971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/5/2023 1:07:00 PM	GS10024
Surr: BFB	102	15-244		%Rec	1	10/5/2023 1:07:00 PM	GS10024
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.018		mg/Kg	1	10/5/2023 1:07:00 PM	BS10024
Toluene	ND	0.036		mg/Kg	1	10/5/2023 1:07:00 PM	BS10024
Ethylbenzene	ND	0.036		mg/Kg	1	10/5/2023 1:07:00 PM	BS10024
Xylenes, Total	ND	0.071		mg/Kg	1	10/5/2023 1:07:00 PM	BS10024
Surr: 4-Bromofluorobenzene	89.7	39.1-146		%Rec	1	10/5/2023 1:07:00 PM	BS10024

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

Qualifiers:

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

Analytical Report
Lab Order **2310232**
Date Reported: **10/16/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-18
Project: Lateral 2C 125 **Collection Date:** 10/4/2023 10:15:00 AM
Lab ID: 2310232-004 **Matrix:** MEOH (SOIL) **Received Date:** 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	10/5/2023 10:57:09 AM	77973
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	10	9.3		mg/Kg	1	10/5/2023 1:04:24 PM	77971
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/5/2023 1:04:24 PM	77971
Surr: DNOP	98.7	69-147		%Rec	1	10/5/2023 1:04:24 PM	77971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/5/2023 1:29:00 PM	GS10024
Surr: BFB	101	15-244		%Rec	1	10/5/2023 1:29:00 PM	GS10024
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.017		mg/Kg	1	10/5/2023 1:29:00 PM	BS10024
Toluene	ND	0.035		mg/Kg	1	10/5/2023 1:29:00 PM	BS10024
Ethylbenzene	ND	0.035		mg/Kg	1	10/5/2023 1:29:00 PM	BS10024
Xylenes, Total	ND	0.070		mg/Kg	1	10/5/2023 1:29:00 PM	BS10024
Surr: 4-Bromofluorobenzene	90.5	39.1-146		%Rec	1	10/5/2023 1:29:00 PM	BS10024

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

Qualifiers:

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

Analytical Report
Lab Order **2310232**
Date Reported: **10/16/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-19
Project: Lateral 2C 125 **Collection Date:** 10/4/2023 10:20:00 AM
Lab ID: 2310232-005 **Matrix:** MEOH (SOIL) **Received Date:** 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	10/5/2023 11:09:34 AM	77973
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	10	9.5		mg/Kg	1	10/5/2023 1:15:11 PM	77971
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2023 1:15:11 PM	77971
Surr: DNOP	99.6	69-147		%Rec	1	10/5/2023 1:15:11 PM	77971
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/5/2023 1:50:00 PM	GS10024
Surr: BFB	103	15-244		%Rec	1	10/5/2023 1:50:00 PM	GS10024
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.018		mg/Kg	1	10/5/2023 1:50:00 PM	BS10024
Toluene	ND	0.036		mg/Kg	1	10/5/2023 1:50:00 PM	BS10024
Ethylbenzene	ND	0.036		mg/Kg	1	10/5/2023 1:50:00 PM	BS10024
Xylenes, Total	ND	0.072		mg/Kg	1	10/5/2023 1:50:00 PM	BS10024
Surr: 4-Bromofluorobenzene	91.8	39.1-146		%Rec	1	10/5/2023 1:50:00 PM	BS10024

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310232**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **MB-77973**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **77973**	RunNo: **100251**
Prep Date: **10/5/2023**	Analysis Date: **10/5/2023**	SeqNo: **3671796** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-77973**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **77973**	RunNo: **100251**
Prep Date: **10/5/2023**	Analysis Date: **10/5/2023**	SeqNo: **3671797** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310232**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **LCS-77971** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **77971** RunNo: **100239**

Prep Date: **10/5/2023** Analysis Date: **10/5/2023** SeqNo: **3670281** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	61.9	130			
Surr: DNOP	4.2		5.000		84.4	69	147			

Sample ID: **MB-77971** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **77971** RunNo: **100239**

Prep Date: **10/5/2023** Analysis Date: **10/5/2023** SeqNo: **3670282** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.1	69	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310232**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS100246**	RunNo: **100246**
Prep Date:	Analysis Date: **10/5/2023**	SeqNo: **3670164** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	70	130			
Surr: BFB	2300		1000		228	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS100246**	RunNo: **100246**
Prep Date:	Analysis Date: **10/5/2023**	SeqNo: **3670165** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	15	244			
% GRO Hydrocarbons: <C6	ND	0								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310232**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **BS100246** RunNo: **100246**

Prep Date: Analysis Date: **10/5/2023** SeqNo: **3670143** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.7	70	130			
Toluene	0.86	0.050	1.000	0	86.0	70	130			
Ethylbenzene	0.88	0.050	1.000	0	88.1	70	130			
Xylenes, Total	2.7	0.10	3.000	0	88.6	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	39.1	146			
m,p-Xylene	1.8	0.050	2.000	0	88.1	70	130			
o-Xylene	0.90	0.050	1.000	0	89.7	70	130			
1,2,4-Trimethylbenzene	0.88	0.050	1.000	0	87.7	70	130			
1,3,5-Trimethylbenzene	0.86	0.050	1.000	0	85.6	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **BS100246** RunNo: **100246**

Prep Date: Analysis Date: **10/5/2023** SeqNo: **3670144** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			
m,p-Xylene	ND	0.050								
o-Xylene	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								

Sample ID: **2310232-001ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-15a** Batch ID: **BS100246** RunNo: **100246**

Prep Date: Analysis Date: **10/5/2023** SeqNo: **3671283** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.018	0.7353	0	84.3	70	130			
Toluene	0.63	0.037	0.7353	0	85.5	70	130			
Ethylbenzene	0.65	0.037	0.7353	0	88.0	70	130			
Xylenes, Total	1.9	0.074	2.206	0	88.0	70	130			
Surr: 4-Bromofluorobenzene	0.66		0.7353		90.0	39.1	146			
m,p-Xylene	1.3	0.037	1.471	0	87.4	70	130			
o-Xylene	0.65	0.037	0.7353	0	89.1	70	130			
1,2,4-Trimethylbenzene	0.64	0.037	0.7353	0	86.5	70	130			
1,3,5-Trimethylbenzene	0.62	0.037	0.7353	0	84.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310232**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **2310232-001amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-15a** Batch ID: **BS100246** RunNo: **100246**

Prep Date: Analysis Date: **10/5/2023** SeqNo: **3671284** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.60	0.018	0.7353	0	82.0	70	130	2.75	20	
Toluene	0.61	0.037	0.7353	0	83.6	70	130	2.26	20	
Ethylbenzene	0.63	0.037	0.7353	0	85.7	70	130	2.64	20	
Xylenes, Total	1.9	0.074	2.206	0	86.1	70	130	2.18	20	
Surr: 4-Bromofluorobenzene	0.64		0.7353		87.6	39.1	146	0	0	
m,p-Xylene	1.3	0.037	1.471	0	85.6	70	130	0	20	
o-Xylene	0.64	0.037	0.7353	0	86.9	70	130	0	20	
1,2,4-Trimethylbenzene	0.62	0.037	0.7353	0	84.4	70	130	0	20	
1,3,5-Trimethylbenzene	0.61	0.037	0.7353	0	82.5	70	130	0	20	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2310232 RcptNo: 1

Received By: Tracy Casarrubias 10/5/2023 6:35:00 AM

Completed By: Tracy Casarrubias 10/5/2023 7:21:15 AM

Reviewed By: SCM 10/5/23

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: TMC 10/5/23

Special Handling (if applicable)

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

Person Notified: ____ Date: ____

By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: ____

Client Instructions: Phone number and Email/Fax are missing on COC - TMC 10/5/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: Same Day
☐ Standard ☒ Rush 10-5-23

Project Name: Lateral 2C-125

Project #:

Project Manager: K Summers

Sampler: C DAponti

On Ice: ☒ Yes ☐ No 4pcj

# of Coolers: 1

Cooler Temp(including CF): 3.3-0=3.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2310232	BTEX / ~~MTBE~~ / ~~TMB~~'s (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, ~~F~~, ~~Br~~, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/4	1000	S	S-15	1-40z Jar	Cool	001	✓	✓					✓			
10/4	1005	S	S-16		Cool	002	✓	✓					✓			
10/4	1010	S	S-17		Cool	003	✓	✓					✓			
10/4	1015	S	S-18		Cool	004	✓	✓					✓			
10/4	1020	S	S-19		Cool	005	✓	✓					✓			
~~10/4~~	~~1025~~	S	S-20		Cool		✓	✓					✓			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/4/23	1409			Walk	10/4/23	1409
10/4/23	1830			Courier	10/5/23	6:35

Remarks: Tom Long

Same Day

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 16, 2023

Kyle Summers

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

RE: Lateral 2C 125 OrderNo.: 2310317

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/6/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2310317**
Date Reported: **10/16/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-20
Project: Lateral 2C 125 **Collection Date:** 10/5/2023 7:00:00 AM
Lab ID: 2310317-001 **Matrix:** MEOH (SOIL) **Received Date:** 10/6/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	10/6/2023 1:47:53 PM	78001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/6/2023 10:21:21 AM	77998
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/6/2023 10:21:21 AM	77998
Surr: DNOP	100	69-147		%Rec	1	10/6/2023 10:21:21 AM	77998
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/6/2023 4:48:00 PM	GS10028
Surr: BFB	96.7	15-244		%Rec	1	10/6/2023 4:48:00 PM	GS10028
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.016		mg/Kg	1	10/6/2023 4:48:00 PM	BS10028
Toluene	ND	0.033		mg/Kg	1	10/6/2023 4:48:00 PM	BS10028
Ethylbenzene	ND	0.033		mg/Kg	1	10/6/2023 4:48:00 PM	BS10028
Xylenes, Total	ND	0.066		mg/Kg	1	10/6/2023 4:48:00 PM	BS10028
Surr: 4-Bromofluorobenzene	87.1	39.1-146		%Rec	1	10/6/2023 4:48:00 PM	BS10028

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310317**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID:	**MB-78001**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**78001**	RunNo:	**100281**					
Prep Date:	**10/6/2023**	Analysis Date:	**10/6/2023**	SeqNo:	**3673357**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-78001**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**78001**	RunNo:	**100281**					
Prep Date:	**10/6/2023**	Analysis Date:	**10/6/2023**	SeqNo:	**3673358**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310317**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **LCS-77998** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **77998** RunNo: **100270**

Prep Date: **10/6/2023** Analysis Date: **10/6/2023** SeqNo: **3671583** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	61.9	130			
Surr: DNOP	4.4		5.000		87.7	69	147			

Sample ID: **MB-77998** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **77998** RunNo: **100270**

Prep Date: **10/6/2023** Analysis Date: **10/6/2023** SeqNo: **3671584** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.0	69	147			

Sample ID: **2310317-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-20** Batch ID: **77998** RunNo: **100270**

Prep Date: **10/6/2023** Analysis Date: **10/6/2023** SeqNo: **3673544** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.44	0	93.2	54.2	135			
Surr: DNOP	4.3		4.744		90.1	69	147			

Sample ID: **2310317-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-20** Batch ID: **77998** RunNo: **100270**

Prep Date: **10/6/2023** Analysis Date: **10/6/2023** SeqNo: **3673545** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.5	47.57	0	97.8	54.2	135	5.07	29.2	
Surr: DNOP	4.5		4.757		93.7	69	147	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310317**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS100284**	RunNo: **100284**
Prep Date:	Analysis Date: **10/6/2023**	SeqNo: **3672190** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	70	130			
Surr: BFB	2200		1000		223	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS100284**	RunNo: **100284**
Prep Date:	Analysis Date: **10/6/2023**	SeqNo: **3672191** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	244			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310317**

16-Oct-23

Client: ENSOLUM

Project: Lateral 2C 125

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **BS100284**	RunNo: **100284**
Prep Date:	Analysis Date: **10/6/2023**	SeqNo: **3672186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.9	70	130			
Toluene	0.86	0.050	1.000	0	86.0	70	130			
Ethylbenzene	0.88	0.050	1.000	0	87.8	70	130			
Xylenes, Total	2.6	0.10	3.000	0	87.6	70	130			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.2	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BS100284**	RunNo: **100284**
Prep Date:	Analysis Date: **10/6/2023**	SeqNo: **3672187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	39.1	146			

Sample ID: **2310317-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-20**	Batch ID: **BS100284**	RunNo: **100284**
Prep Date:	Analysis Date: **10/6/2023**	SeqNo: **3673438** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.57	0.016	0.6592	0	86.8	70	130			
Toluene	0.57	0.033	0.6592	0	86.9	70	130			
Ethylbenzene	0.58	0.033	0.6592	0	88.6	70	130			
Xylenes, Total	1.7	0.066	1.978	0	87.9	70	130			
Surr: 4-Bromofluorobenzene	0.57		0.6592		85.9	39.1	146			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM | Work Order Number: 2310317 | RcptNo: 1

Received By: Juan Rojas 10/6/2023 7:35:00 AM

Completed By: Cheyenne Cason 10/6/2023 8:05:08 AM

Reviewed By: SCM 10/6/23

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JM 10/6/23

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes	Morty		

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 10 % Same Day
☐ Standard ☐ Rush 10-6-23

Project Name: Lateral 2C-125

Project #:

Project Manager: K Summers

Sampler: C Dapont;

On Ice: ☐ Yes ☐ No

# of Coolers: 1 Yog°

Cooler Temp(Including CF): 0.8+0.1=0.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2310317	BTEX / ~~MTBE~~ / ~~TMB~~'s (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	~~Cl, F, Br, NO3, NO2, PO4, SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/5	700	S	S-20	1 4oz Jar	Cool	001	✓	✓					✓			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/5/23	1204				10/5/23	1204
10/5/23	1756			courier	10/6/23	7:35

Remarks: T Long Same Day

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

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

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

CONDITIONS

Action 289483

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 289483
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/21/2024