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	NAPP2316425574
District RP	
Facility ID	
Application ID	

Release Notification

Accepted for the record. Navajo Nation approved on 09/20/2023.

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)* **nAPP2316425574**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.44256** Longitude **-108.08172** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Trunk 10A**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **06/013/2023**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
K	**35**	**26N**	**12W**	**San Juan**

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

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 5-10 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **1.6 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On May 17, 2023, Enterprise had a release of natural gas and natural gas liquids from the Trunk 10A pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. Minimal liquids were observed on the ground surface. Repairs and remediation began on June 9, 2023, and Enterprise determined the release reportable per NMOCD regulation, due to the volume of impacted subsurface soil on June 13, 2023. Repairs and remediation were completed on June 16, 2023. The final excavation dimensions measured approximately 30 feet long by 25 feet wide by 7 feet deep. A total of 220 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.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2316425574
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: 08-28-2023

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

OCD Only

Received by: Shelly Wells Date: 8/29/2023

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: _____ Date: _____

Printed Name: _____ Title: _____

ENSOLUM

CLOSURE REPORT

Property:

Trunk 10A (06/12/23)
Unit Letter K, S35 T26N R12W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2316425574

August 21, 2023

Ensolum Project No. 05A1226241

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

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Trunk 10A (06/12/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2316425574
Location:	36.44256° North, 108.08172° West Unit Letter K, Section 35, Township 26 North, Range 12 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On May 17, 2023, an Enterprise personnel discovered a release of natural gas on the Trunk 10A pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On June 8, 2023, Enterprise initiated activities to repair the pipeline and remediate potential petroleum hydrocarbon impact. On June 13, 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 NNEPA and the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced 19.15.29 New Mexico Administrative Code (NMAC), 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. One POD (SJ-01716) was identified in an adjacent PLSS section. Documentation for SJ-01716 indicates a depth to water of 210 feet below grade surface (bgs). This POD is located approximately 1.3 miles southeast of the Site and approximately 18 feet higher in elevation than 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 not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).

- 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 Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. Applicable closure criteria for Tier I soils and Tier II soils (below four feet) remaining in place at the Site include:

Tier II Closure Criteria for Soils Impacted by a Release		
Constituent[1]	**Method**	**Limit**
Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
TPH (GRO+DRO+MRO)[2]	EPA SW-846 Method 8015	2,500 mg/kg
TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000 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).

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 June 8, 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 30 feet long and 25 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 7 feet bgs. The flow path measured approximately 39 feet long and 4 feet wide. The lithology encountered during the completion of remediation activities consisted primarily of silty sand underlain by weathered sandstone.

Approximately 220 cubic yards (yd^3) of petroleum hydrocarbon-affected soils and 30 barrels (bbls) of hydo-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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 13 composite soil samples (S-1 through S-10, S-5a, S-9a, and S-9b) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) sample area or less per guidelines outlined in Section D of 19.15.29.12 NMAC. The excavator bucket or hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On June 9, 2023, sampling was performed at the Site. Composite soil sample S-1 (6') was collected from the floor of the excavation. Composite soil samples S-2 (0' to 6'), S-3 (0' to 6'), S-4 (0' to 6'), S-6 (0' to 6'), S-7 (0' to 6'), and S-8 (0' to 6'), were collected from the sloped walls of the excavation. Composite soil samples S-5 (0' to 6') and S-9 (0' to 6') were collected from soil directly beneath the pipeline (bridge soil) that was left in place to support the pipeline. Composite soil sample S-10 (0.25') was collected from the scraped flow path. Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil samples S-5 and S-9.

Second Sampling Event

In response to the exceedances of composite samples S-5 and S-9 during the first sampling event, the impacted bridge soils were removed by excavation and transported to the landfarm for disposal/remediation. Soils associated with composite soil samples S-4 and S-8 (that did not exhibit closure criteria exceedances from the first sampling event) were also partially removed to access the impacted bridge soils and address sloughing of the sand into the excavation. On June 14, 2023, a second sampling event was performed at the Site. The NNEPA and NM EMNRD OCD were notified of the sampling event although no representatives were present during the sampling activities. Composite soil samples S-5a (0' to 6') and S-9a (0' to 6') were collected from the floor and end-walls of the excavation. Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample S-9a.

Third Sampling Event

In response to the exceedances of composite sample S-9a during the second sampling event, the excavation was deepened and impacted soils were transported to the landfarm for disposal/remediation. On June 16, 2023, a third sampling event was performed at the Site. Composite soil sample S-9b (0' to 7') was collected from the floor and end-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-4, S-5a, S-6 through S-8, S-9b, and S-10) to the applicable NM EMNRD OCD closure criteria. The soils associated with composite soil samples S-5, S-9, and S-9a were removed (due to COC exceedances) from the Site, and therefore, are not included in the following discussion. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for all composite soil samples associated with soil remaining at the Site indicate 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 all 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-1, S-4, and S-8 indicate combined TPH GRO/DRO concentrations ranging from 14 mg/kg (S-4) to 190 mg/kg (S-1), which are less than the New Mexico EMNRD OCD closure criteria of 1,000 mg/kg (for soils below 4 feet at a Tier II site). Sample depths are provided in **Table 1** in **Appendix F**. The laboratory analytical results for all other composite soil samples associated with soil remaining at the Site indicate combined TPH GRO/DRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria.

- The laboratory analytical results for composite soil samples S-1, S-4, and S-8 indicate combined TPH GRO/DRO/MRO concentrations ranging from 14 mg/kg (S-4) to 430 mg/kg (S-1), which is less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg or 2,500 mg/kg (depending on the depth of the represented soil). The laboratory analytical results for all other composite soil samples associated with soil remaining at the Site indicate 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 or 2,500 mg/kg (depending on the depth of the represented soil).

- The laboratory analytical results for composite soil samples S-1, S-3, S-8, and S-10 indicate chloride concentrations ranging from 63 mg/kg (S-10) to 270 mg/kg (S-1), which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg or 10,000 mg/kg (depending on the depth of the represented soil). The laboratory analytical results for all other 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 New Mexico EMNRD OCD closure criteria of 600 mg/kg or 10,000 mg/kg (depending on the depth of the represented soil).

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding topography.

8.0 FINDINGS AND RECOMMENDATION

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

- Approximately 220 yd^3 of petroleum hydrocarbon-affected soils and 30 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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.

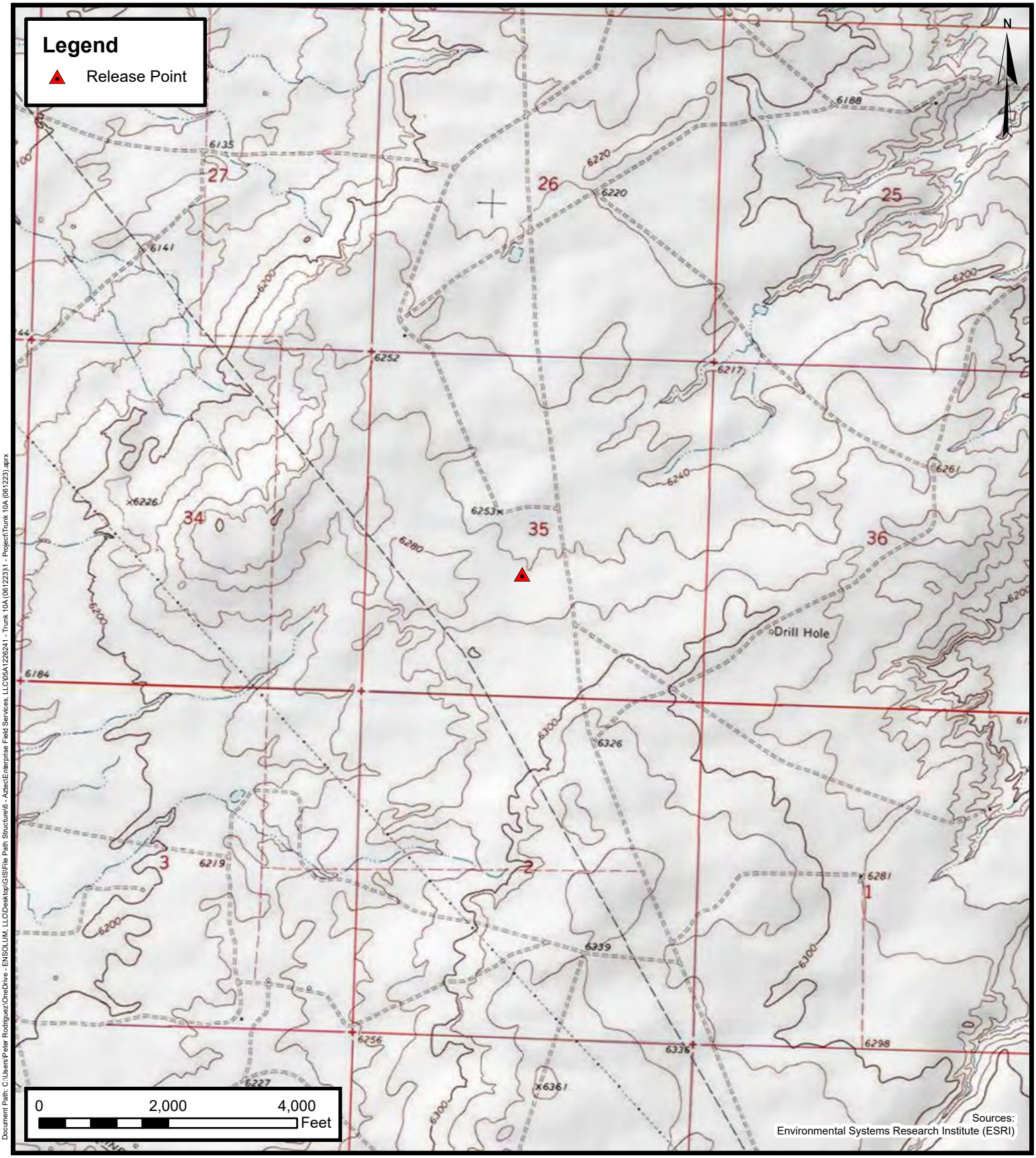
9.3 Reliance

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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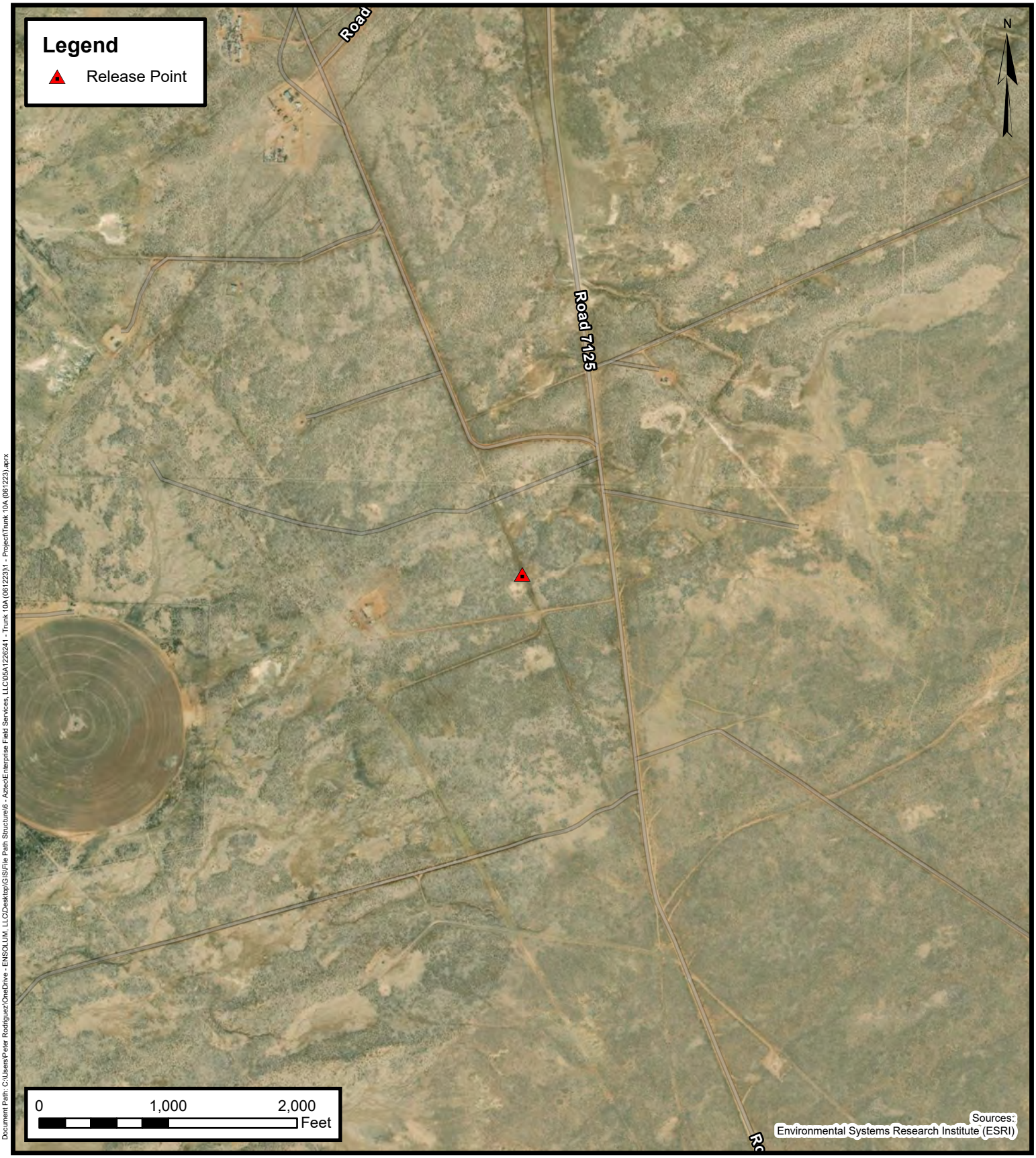
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE
1



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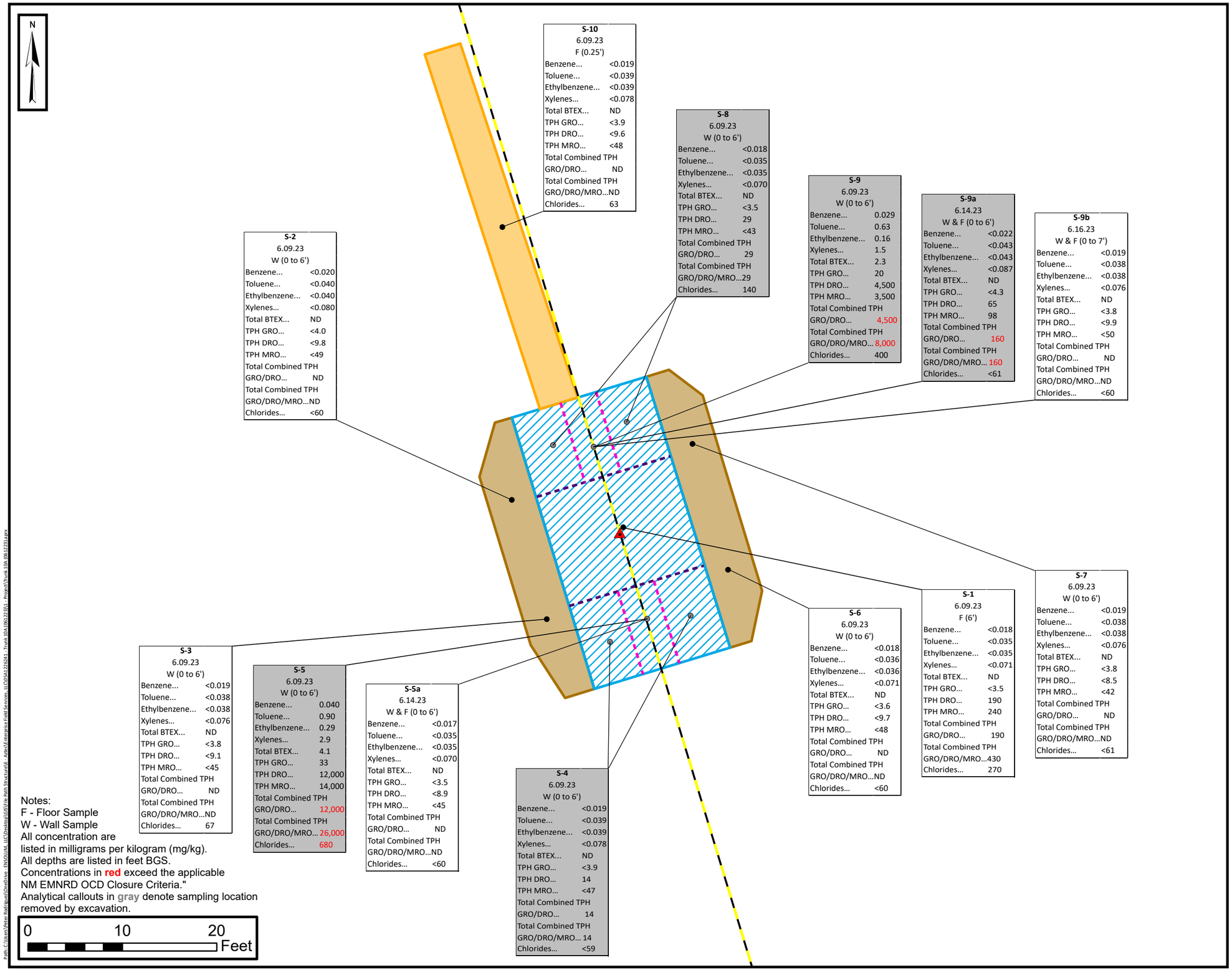
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE
2



LEGEND

- Release Point
- Composite Soil Sample Location
- Composite Soil Sample Removed by Excavation
- Pipeline Location
- Former Extent of Sloped Walkout
- Pipe Chase Overburdened Soil
- Excavation Extent
- Sloped Sidewall
- Flow Path

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Site Map with Soil Analytical Results

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Unit Letter K, S35 T26N R12W
San Juan County, New Mexico
36.44256, -108.08172

Figure

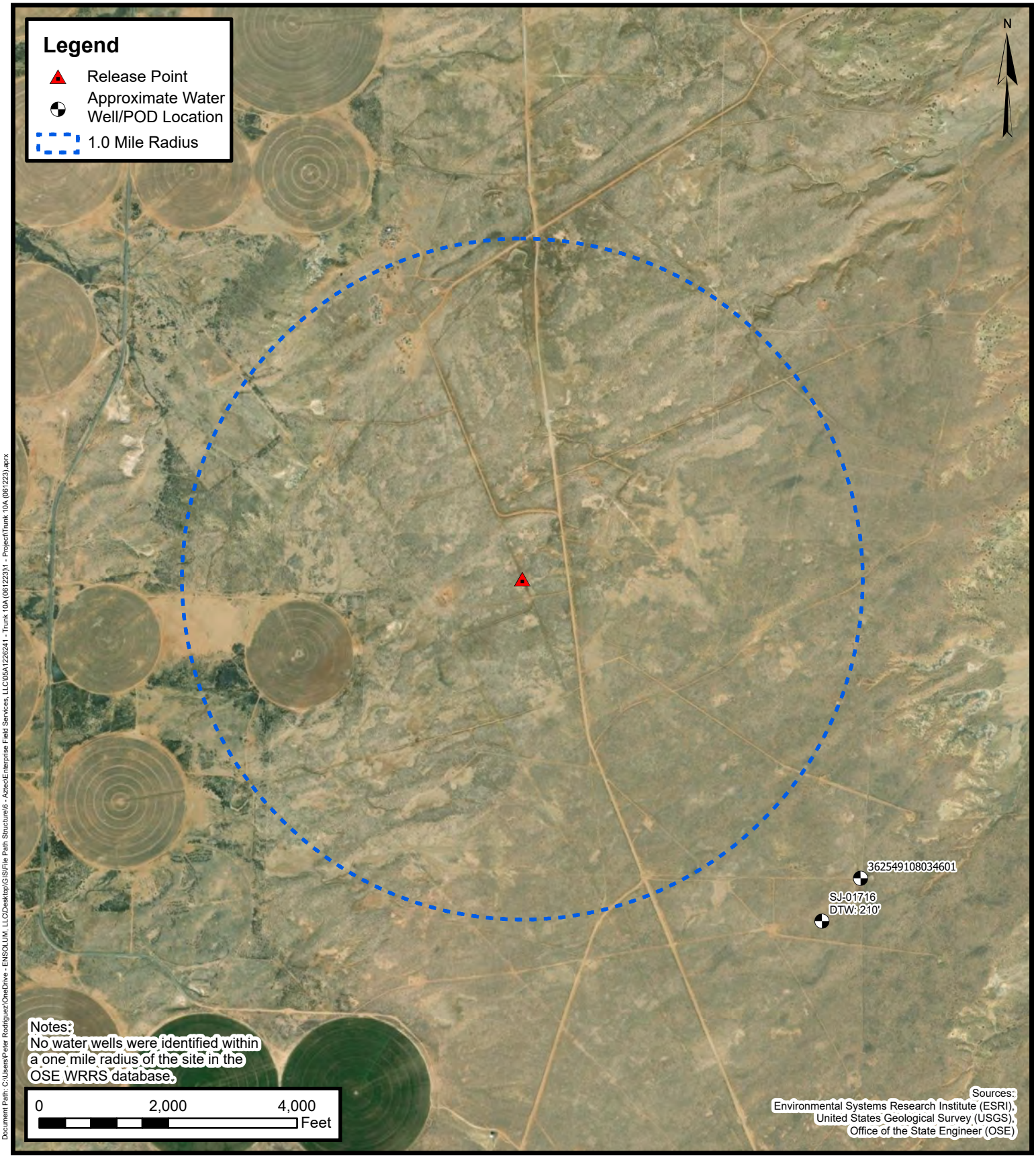
3

Project Number: 05A1226241

ENSOLUM

APPENDIX B

Siting Figures and Documentation



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1.0 Mile Radius Water Well/ Pod Location Map

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE

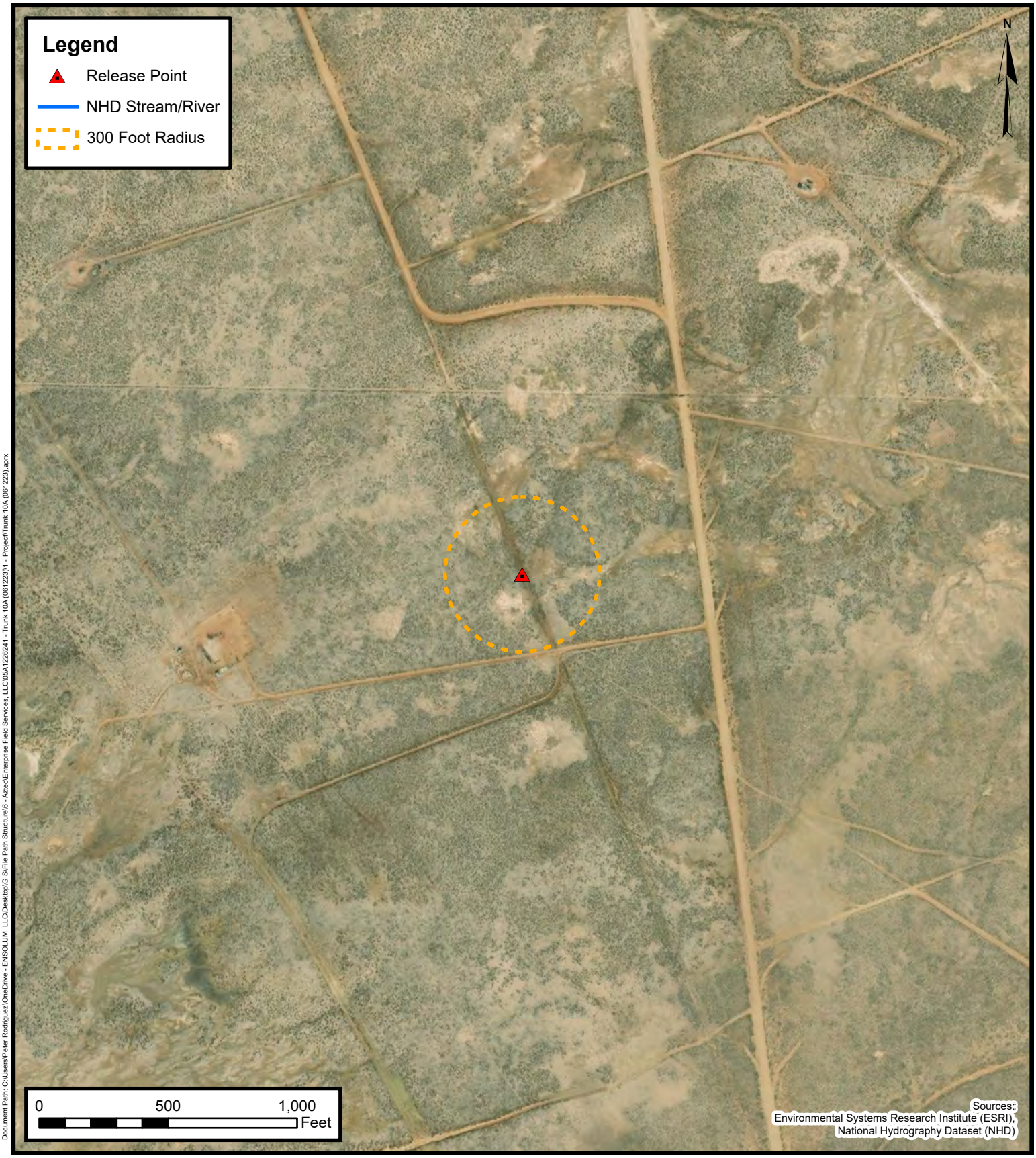
A

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE
B



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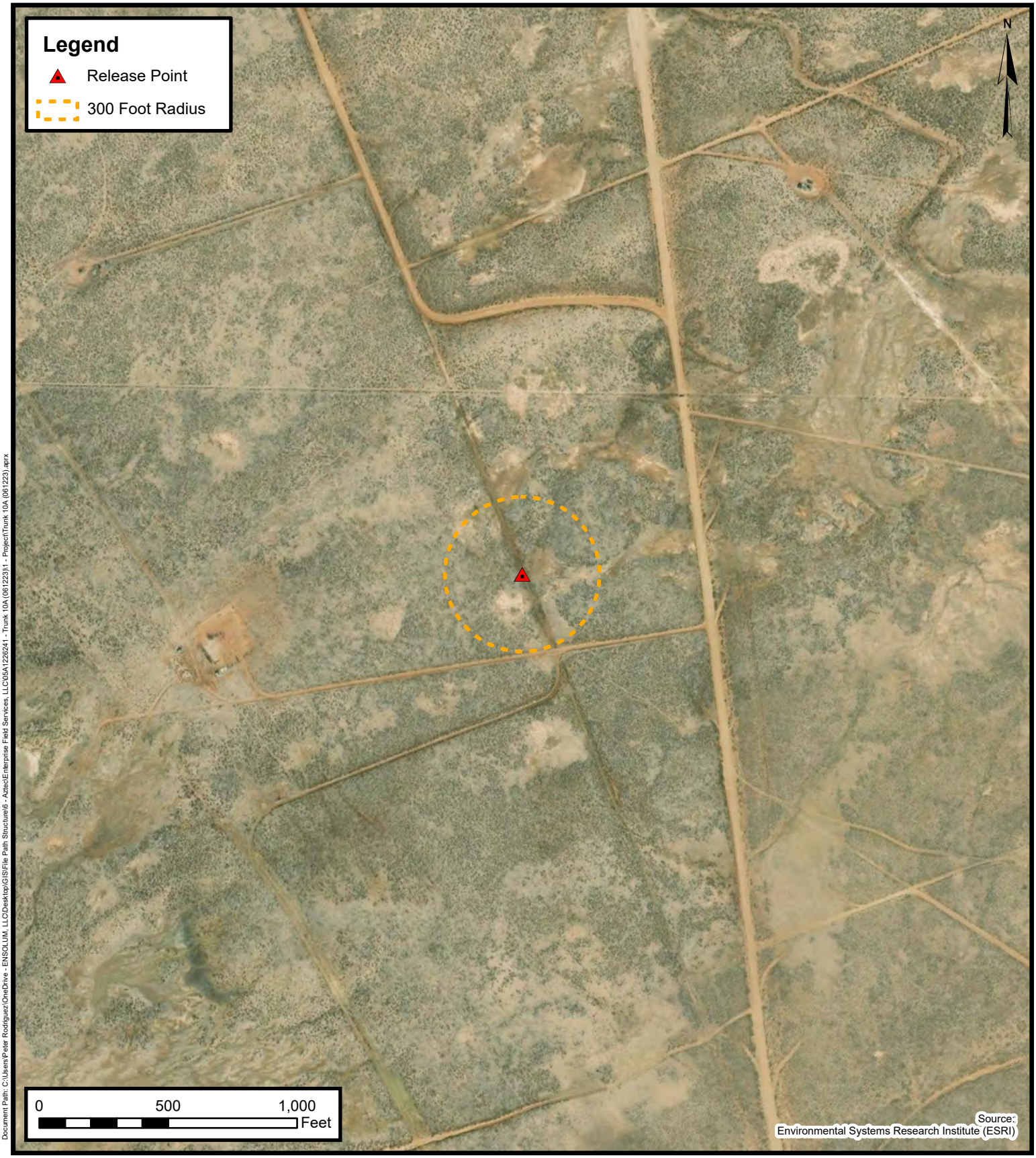
Environmental, Engineering and Hydrogeologic Consultants

300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE

C



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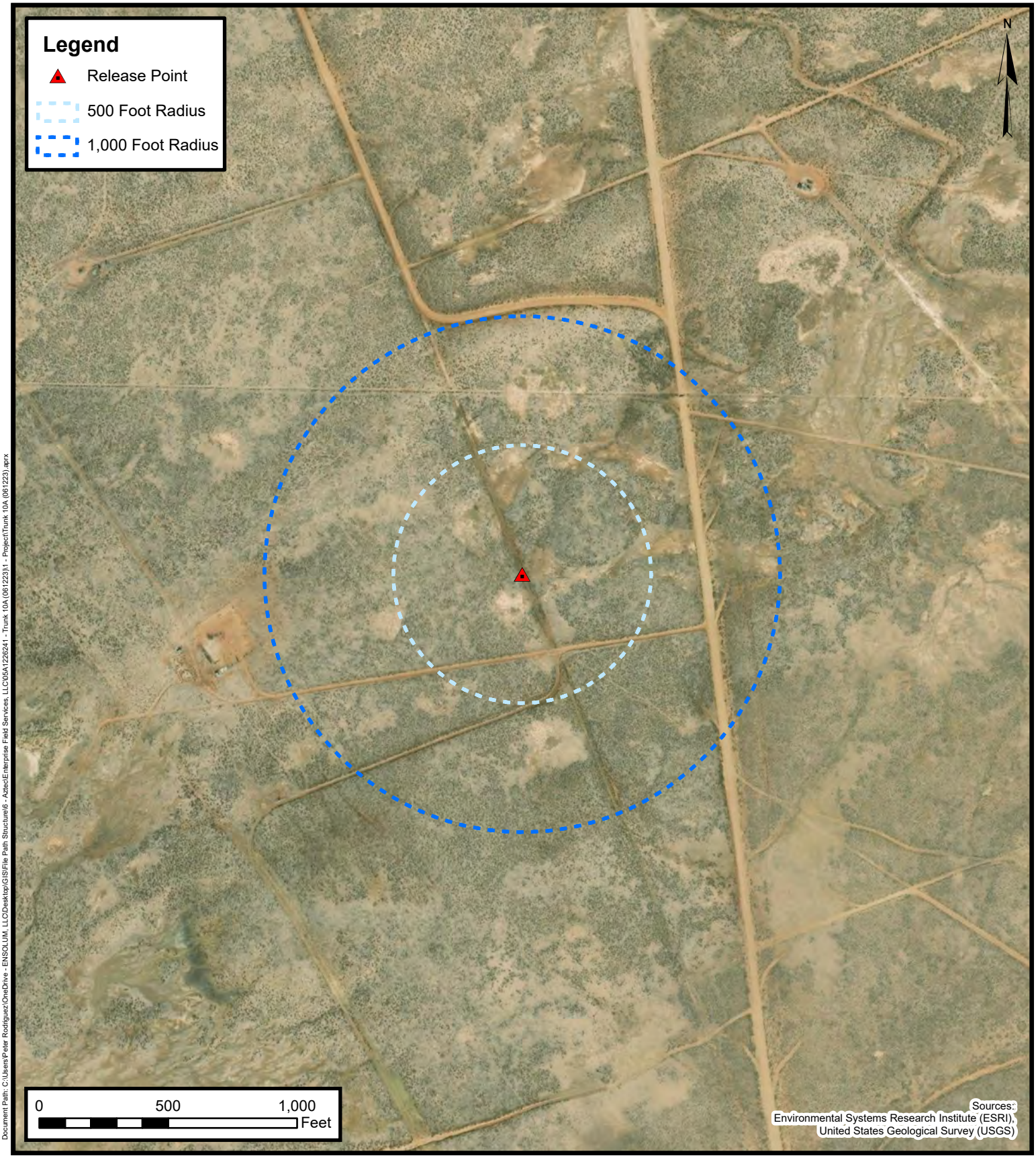
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE

D



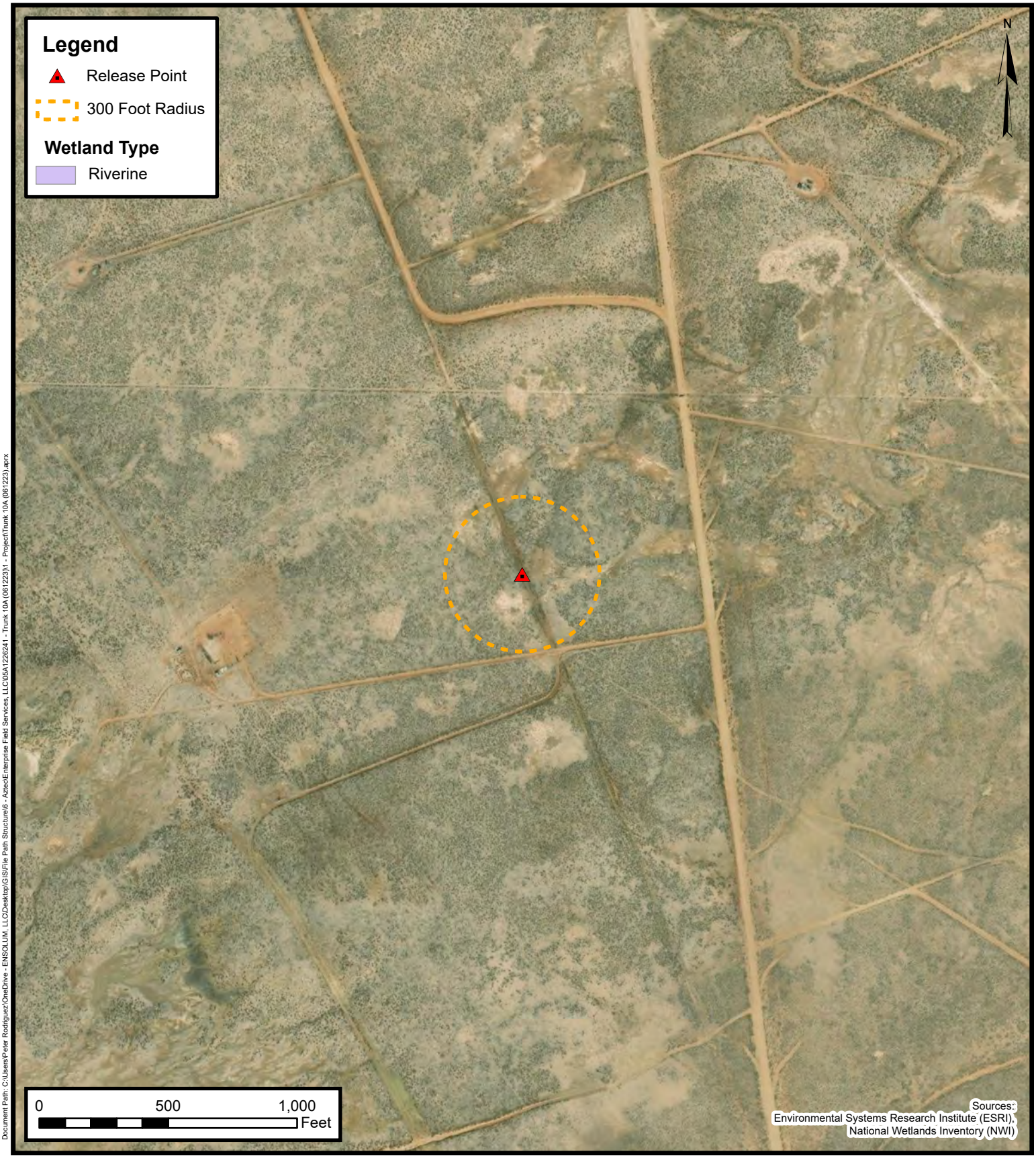
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Water Well and Natural Spring Location

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE

E

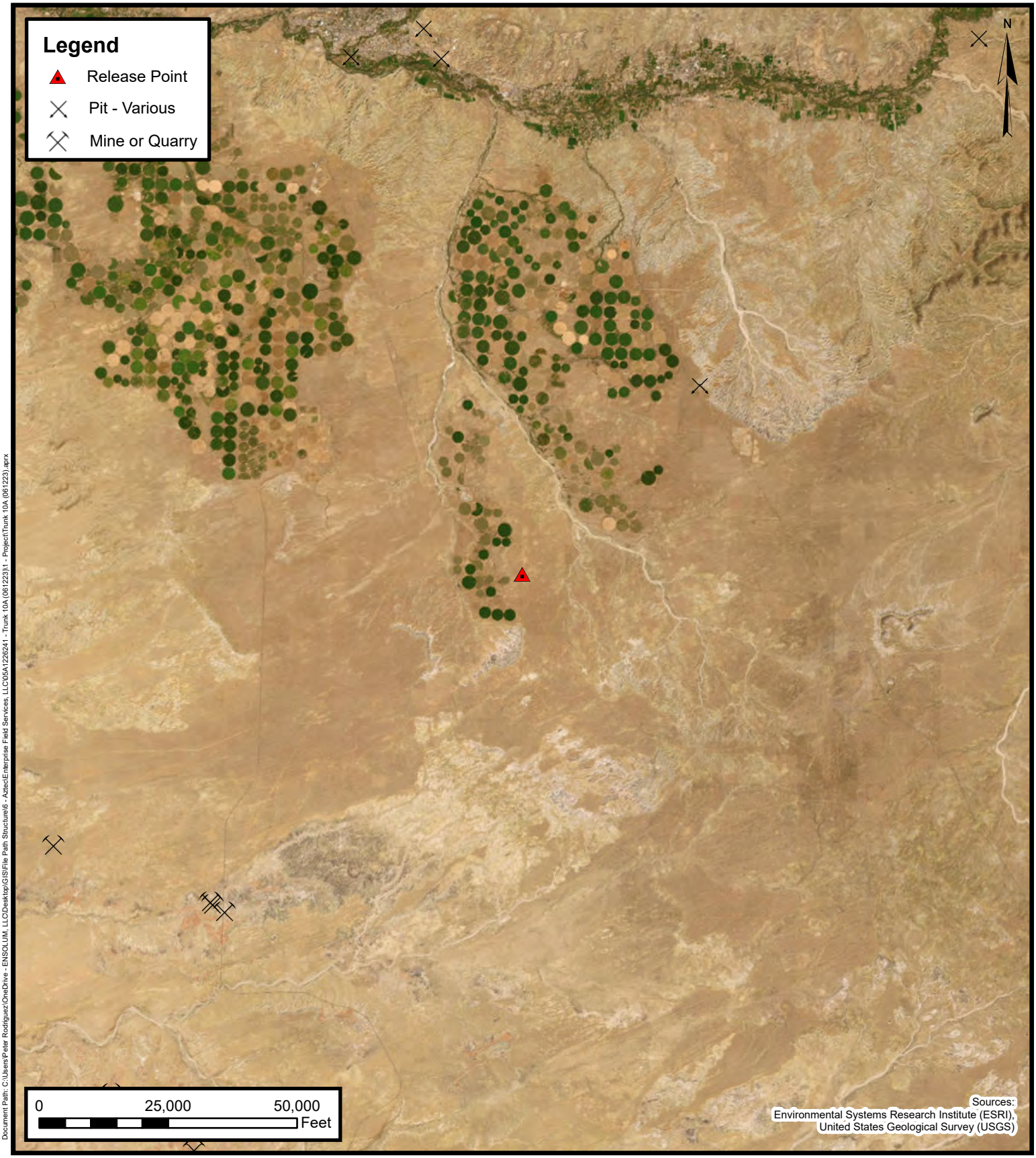


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Wetlands

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE
F

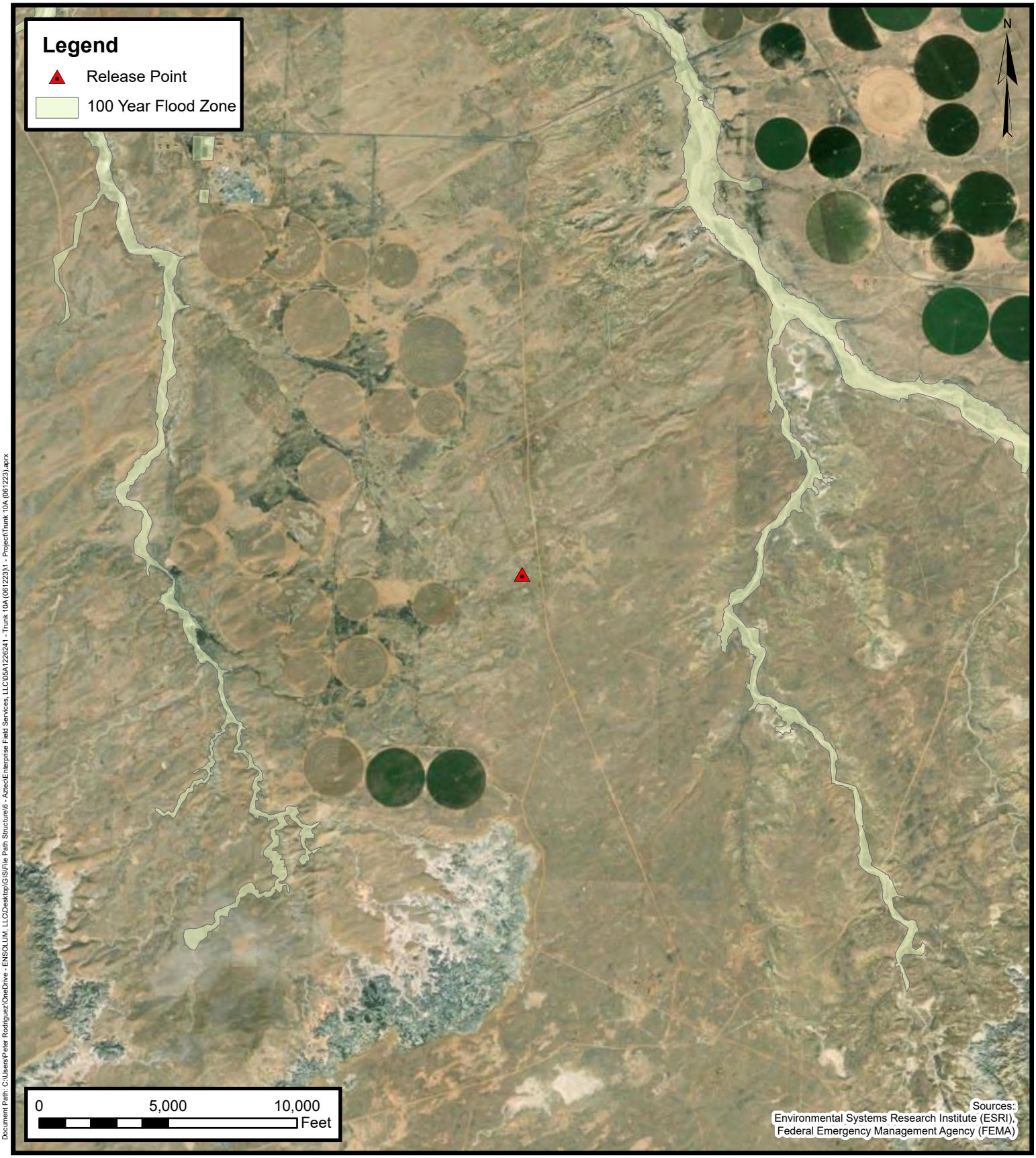


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Mines, Mills, and Quarries

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE
G



Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226241 - Trunk 10A (061223)\1 - Project\Trunk 10A (061223).aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Project Number: 05A1226241
Unit Letter K, S35 T26N R12W, San Juan County, New Mexico
36.44256, -108.08172

FIGURE
H

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

No records found.

PLSS Search:

Section(s): 35, 25, 26, 27, 34, 36 **Township:** 26N **Range:** 12W

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	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 01716	SJ	SJ	2	3	01	25N	12W		225189	4035835*	403	210	193

Average Depth to Water: **210 feet**

Minimum Depth: **210 feet**

Maximum Depth: **210 feet**

Record Count: 1

PLSS Search:

Section(s): 1, 2, 3 **Township:** 25N **Range:** 12W

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

ENSOLUM

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.

97057-1125

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:
Trunk 10A

AFE: Pending
PM: ME Eddleman
Pay Key: AM14058

2. Location of Material (Street Address, City, State or ULSTR):
Unit K Section 35 T26N R12W, San Juan County, NM; 36.44256, -108.08172

May / June 2023

4. Source and Description of Waste:
Source: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.
Description: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.
Estimated Volume 20 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 220/30 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, 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 5-17-2023, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Greg 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: TBD

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: 5/17/23

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

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Ensolum Project No. 05A1226241

ENSOLUM

Photograph 1 Photograph Description: View of the excavation (first sampling event).	
Photograph 2 Photograph Description: View of the excavation (first sampling event).	
Photograph 3 Photograph Description: View of the scraped flow path (first sampling event).	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 10A (06/12/23)
Ensolum Project No. 05A1226241

ENSOLUM

Photograph 4 Photograph Description: View of the excavation (second sampling event).	
Photograph 5 Photograph Description: View of the in-process excavation activities.	
Photograph 6 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: nnepawq@frontiernet.net
To: Long, Thomas
Cc: Velez, Nelson, EMNRD; Stone, Brian
Subject: [EXTERNAL] Re: Trunk 10A - Unit K Section 35 T26N R12W; 36.44256, -108.08172; NMOCD Incident #nAPP2316425574
Date: Tuesday, June 13, 2023 7:36:20 AM

[Use caution with links/attachments]

Thanks for the notification. Please provide the sample analysis results when they are available.

—Steve

Steve Austin
Sr. Hydrologist
NNEPA Water Quality/NPDES Program
(505) 368-1037

On Tuesday, June 13, 2023, 7:14 AM, Long, Thomas <tjlong@eprod.com> wrote:

> Steve,
>
> This email is a notification that Enterprise had a release of natural gas and condensate of the Trunk 3A on May 17, 2023. Minimal liquids were released to the surface. No fires nor injuries occurred. No washes/waterways were affected. Repairs and remediation began last Friday and Enterprise determined the release reportable due to the volume of impacted subsurface soil. The email also serves as a notification the Enterprise will be collecting soil samples for laboratory analysis at the Trunk 10A excavation tomorrow at 12:00 p.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
>
> ---
>
> This message (including any attachments) is confidential and intended for a

specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Trunk 10A (06/12/23)
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)[1] (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 and Tier II)				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**Tier II - 1,000**	**Tier I (<4 feet) - 100 Tier II - 2,500**	**Tier I (<4 feet) - 600 Tier II - 10,000**
Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Disposal/Remediation														
S-4	6.09.23	C	0 to 6	<0.019	<0.039	<0.039	<0.078	ND	<3.9	14	<47	14	14	<59
S-5	6.09.23	C	0 to 6	0.040	0.90	0.29	2.9	4.1	33	12,000	14,000	**12,000**	**26,000**	**680**
S-8	6.09.23	C	0 to 6	<0.018	<0.035	<0.035	<0.070	ND	<3.5	29	<43	29	29	140
S-9	6.09.23	C	0 to 6	0.029	0.63	0.16	1.5	2.3	20	4,500	3,500	**4,500**	**8,000**	400
S-9a	6.14.23	C	0 to 6	<0.022	<0.043	<0.043	<0.087	ND	<4.3	65	98	**160**	**160**	<61
Excavation Composite Soil Samples														
S-1	6.09.23	C	6	<0.018	<0.035	<0.035	<0.071	ND	<3.5	190	240	190	430	270
S-2	6.09.23	C	0 to 6	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.8	<49	ND	ND	<60
S-3	6.09.23	C	0 to 6	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.1	<45	ND	ND	67
S-5a	6.14.23	C	0 to 6	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<8.9	<45	ND	ND	<60
S-6	6.09.23	C	0 to 6	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.7	<48	ND	ND	<60
S-7	6.09.23	C	0 to 6	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<8.5	<42	ND	ND	<61
S-9b	6.16.23	C	0 to 7	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.9	<50	ND	ND	<60
S-10	6.09.23	C	0.25	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<9.6	<48	ND	ND	63

*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

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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

June 19, 2023

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

RE: Trunk 10A May 2023 OrderNo.: 2306558

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 6/10/2023 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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-1
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:15:00 AM
Lab ID: 2306558-001 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	270	60		mg/Kg	20	6/12/2023 12:01:15 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	190	9.6		mg/Kg	1	6/11/2023 12:26:05 PM	75511
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	6/11/2023 12:26:05 PM	75511
Surr: DNOP	91.2	69-147		%Rec	1	6/11/2023 12:26:05 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/12/2023 12:25:21 PM	GS97366
Surr: BFB	104	15-244		%Rec	1	6/12/2023 12:25:21 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.018		mg/Kg	1	6/12/2023 12:25:21 PM	R97366
Toluene	ND	0.035		mg/Kg	1	6/12/2023 12:25:21 PM	R97366
Ethylbenzene	ND	0.035		mg/Kg	1	6/12/2023 12:25:21 PM	R97366
Xylenes, Total	ND	0.071		mg/Kg	1	6/12/2023 12:25:21 PM	R97366
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	6/12/2023 12:25:21 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-2
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:20:00 AM
Lab ID: 2306558-002 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	6/12/2023 12:13:39 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/11/2023 12:36:49 PM	75511
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/11/2023 12:36:49 PM	75511
Surr: DNOP	88.3	69-147		%Rec	1	6/11/2023 12:36:49 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	6/12/2023 12:48:50 PM	GS97366
Surr: BFB	101	15-244		%Rec	1	6/12/2023 12:48:50 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.020		mg/Kg	1	6/12/2023 12:48:50 PM	R97366
Toluene	ND	0.040		mg/Kg	1	6/12/2023 12:48:50 PM	R97366
Ethylbenzene	ND	0.040		mg/Kg	1	6/12/2023 12:48:50 PM	R97366
Xylenes, Total	ND	0.080		mg/Kg	1	6/12/2023 12:48:50 PM	R97366
Surr: 4-Bromofluorobenzene	91.4	39.1-146		%Rec	1	6/12/2023 12:48:50 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-3
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:25:00 AM
Lab ID: 2306558-003 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	67	60		mg/Kg	20	6/12/2023 12:26:04 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/11/2023 12:47:34 PM	75511
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/11/2023 12:47:34 PM	75511
Surr: DNOP	83.4	69-147		%Rec	1	6/11/2023 12:47:34 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	6/12/2023 1:12:22 PM	GS97366
Surr: BFB	102	15-244		%Rec	1	6/12/2023 1:12:22 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.019		mg/Kg	1	6/12/2023 1:12:22 PM	R97366
Toluene	ND	0.038		mg/Kg	1	6/12/2023 1:12:22 PM	R97366
Ethylbenzene	ND	0.038		mg/Kg	1	6/12/2023 1:12:22 PM	R97366
Xylenes, Total	ND	0.076		mg/Kg	1	6/12/2023 1:12:22 PM	R97366
Surr: 4-Bromofluorobenzene	91.2	39.1-146		%Rec	1	6/12/2023 1:12:22 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-4
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:30:00 AM
Lab ID: 2306558-004 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	59		mg/Kg	20	6/12/2023 12:38:29 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	14	9.4		mg/Kg	1	6/11/2023 12:58:21 PM	75511
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/11/2023 12:58:21 PM	75511
Surr: DNOP	82.8	69-147		%Rec	1	6/11/2023 12:58:21 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/12/2023 1:36:02 PM	GS97366
Surr: BFB	101	15-244		%Rec	1	6/12/2023 1:36:02 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.019		mg/Kg	1	6/12/2023 1:36:02 PM	R97366
Toluene	ND	0.039		mg/Kg	1	6/12/2023 1:36:02 PM	R97366
Ethylbenzene	ND	0.039		mg/Kg	1	6/12/2023 1:36:02 PM	R97366
Xylenes, Total	ND	0.078		mg/Kg	1	6/12/2023 1:36:02 PM	R97366
Surr: 4-Bromofluorobenzene	89.6	39.1-146		%Rec	1	6/12/2023 1:36:02 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-5
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:35:00 AM
Lab ID: 2306558-005 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	680	60		mg/Kg	20	6/12/2023 12:50:54 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	12000	910		mg/Kg	100	6/12/2023 1:13:10 PM	75511
Motor Oil Range Organics (MRO)	14000	4600		mg/Kg	100	6/12/2023 1:13:10 PM	75511
Surr: DNOP	0	69-147	S	%Rec	100	6/12/2023 1:13:10 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	33	3.4		mg/Kg	1	6/12/2023 1:59:43 PM	GS97366
Surr: BFB	227	15-244		%Rec	1	6/12/2023 1:59:43 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	0.040	0.017		mg/Kg	1	6/12/2023 1:59:43 PM	R97366
Toluene	0.90	0.034		mg/Kg	1	6/12/2023 1:59:43 PM	R97366
Ethylbenzene	0.29	0.034		mg/Kg	1	6/12/2023 1:59:43 PM	R97366
Xylenes, Total	2.9	0.067		mg/Kg	1	6/12/2023 1:59:43 PM	R97366
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	6/12/2023 1:59:43 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-6
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:40:00 AM
Lab ID: 2306558-006 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	6/12/2023 1:28:07 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/11/2023 1:09:09 PM	75511
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/11/2023 1:09:09 PM	75511
Surr: DNOP	80.4	69-147		%Rec	1	6/11/2023 1:09:09 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/12/2023 2:23:20 PM	GS97366
Surr: BFB	103	15-244		%Rec	1	6/12/2023 2:23:20 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.018		mg/Kg	1	6/12/2023 2:23:20 PM	R97366
Toluene	ND	0.036		mg/Kg	1	6/12/2023 2:23:20 PM	R97366
Ethylbenzene	ND	0.036		mg/Kg	1	6/12/2023 2:23:20 PM	R97366
Xylenes, Total	ND	0.071		mg/Kg	1	6/12/2023 2:23:20 PM	R97366
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	6/12/2023 2:23:20 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-7
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:45:00 AM
Lab ID: 2306558-007 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	61		mg/Kg	20	6/12/2023 1:40:31 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	6/11/2023 1:19:57 PM	75511
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	6/11/2023 1:19:57 PM	75511
Surr: DNOP	86.2	69-147		%Rec	1	6/11/2023 1:19:57 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	6/12/2023 2:47:00 PM	GS97366
Surr: BFB	103	15-244		%Rec	1	6/12/2023 2:47:00 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.019		mg/Kg	1	6/12/2023 2:47:00 PM	R97366
Toluene	ND	0.038		mg/Kg	1	6/12/2023 2:47:00 PM	R97366
Ethylbenzene	ND	0.038		mg/Kg	1	6/12/2023 2:47:00 PM	R97366
Xylenes, Total	ND	0.076		mg/Kg	1	6/12/2023 2:47:00 PM	R97366
Surr: 4-Bromofluorobenzene	92.1	39.1-146		%Rec	1	6/12/2023 2:47:00 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-8
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:50:00 AM
Lab ID: 2306558-008 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	140	60		mg/Kg	20	6/12/2023 1:52:55 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	29	8.7		mg/Kg	1	6/11/2023 1:30:47 PM	75511
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/11/2023 1:30:47 PM	75511
Surr: DNOP	88.2	69-147		%Rec	1	6/11/2023 1:30:47 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/12/2023 3:10:43 PM	GS97366
Surr: BFB	100	15-244		%Rec	1	6/12/2023 3:10:43 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.018		mg/Kg	1	6/12/2023 3:10:43 PM	R97366
Toluene	ND	0.035		mg/Kg	1	6/12/2023 3:10:43 PM	R97366
Ethylbenzene	ND	0.035		mg/Kg	1	6/12/2023 3:10:43 PM	R97366
Xylenes, Total	ND	0.070		mg/Kg	1	6/12/2023 3:10:43 PM	R97366
Surr: 4-Bromofluorobenzene	89.7	39.1-146		%Rec	1	6/12/2023 3:10:43 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-9
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 10:55:00 AM
Lab ID: 2306558-009 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	400	60		mg/Kg	20	6/12/2023 2:05:19 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	4500	97		mg/Kg	10	6/11/2023 1:52:46 PM	75511
Motor Oil Range Organics (MRO)	3500	480		mg/Kg	10	6/11/2023 1:52:46 PM	75511
Surr: DNOP	0	69-147	S	%Rec	10	6/11/2023 1:52:46 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	20	3.6		mg/Kg	1	6/12/2023 12:01:49 PM	GS97366
Surr: BFB	154	15-244		%Rec	1	6/12/2023 12:01:49 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	0.029	0.018		mg/Kg	1	6/12/2023 12:01:49 PM	R97366
Toluene	0.63	0.036		mg/Kg	1	6/12/2023 12:01:49 PM	R97366
Ethylbenzene	0.16	0.036		mg/Kg	1	6/12/2023 12:01:49 PM	R97366
Xylenes, Total	1.5	0.072		mg/Kg	1	6/12/2023 12:01:49 PM	R97366
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	6/12/2023 12:01:49 PM	R97366

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 **2306558**
Date Reported: **6/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-10
Project: Trunk 10A May 2023
Collection Date: 6/9/2023 11:00:00 AM
Lab ID: 2306558-010 **Matrix:** SOIL **Received Date:** 6/10/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	63	60		mg/Kg	20	6/12/2023 2:17:43 PM	75516
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/11/2023 1:41:46 PM	75511
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/11/2023 1:41:46 PM	75511
Surr: DNOP	84.7	69-147		%Rec	1	6/11/2023 1:41:46 PM	75511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/12/2023 3:34:25 PM	GS97366
Surr: BFB	102	15-244		%Rec	1	6/12/2023 3:34:25 PM	GS97366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.019		mg/Kg	1	6/12/2023 3:34:25 PM	R97366
Toluene	ND	0.039		mg/Kg	1	6/12/2023 3:34:25 PM	R97366
Ethylbenzene	ND	0.039		mg/Kg	1	6/12/2023 3:34:25 PM	R97366
Xylenes, Total	ND	0.078		mg/Kg	1	6/12/2023 3:34:25 PM	R97366
Surr: 4-Bromofluorobenzene	89.9	39.1-146		%Rec	1	6/12/2023 3:34:25 PM	R97366

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#: **2306558**

19-Jun-23

Client: ENSOLUM

Project: Trunk 10A May 2023

Sample ID: **MB-75516**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **75516**	RunNo: **97377**
Prep Date: **6/12/2023**	Analysis Date: **6/12/2023**	SeqNo: **3538506** Units: **mg/Kg**

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

Sample ID: **LCS-75516**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **75516**	RunNo: **97377**
Prep Date: **6/12/2023**	Analysis Date: **6/12/2023**	SeqNo: **3538507** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	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#: **2306558**

19-Jun-23

Client: ENSOLUM

Project: Trunk 10A May 2023

Sample ID: **2306558-010AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-10** Batch ID: **75511** RunNo: **97344**

Prep Date: **6/11/2023** Analysis Date: **6/11/2023** SeqNo: **3536657** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	49.75	0	80.9	54.2	135			
Surr: DNOP	3.9		4.975		79.4	69	147			

Sample ID: **2306558-010AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-10** Batch ID: **75511** RunNo: **97344**

Prep Date: **6/11/2023** Analysis Date: **6/11/2023** SeqNo: **3536658** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.7	48.69	0	75.8	54.2	135	8.71	29.2	
Surr: DNOP	4.1		4.869		83.7	69	147	0	0	

Sample ID: **LCS-75511** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **75511** RunNo: **97344**

Prep Date: **6/11/2023** Analysis Date: **6/11/2023** SeqNo: **3536659** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	70.7	61.9	130			
Surr: DNOP	3.8		5.000		76.3	69	147			

Sample ID: **MB-75511** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **75511** RunNo: **97344**

Prep Date: **6/11/2023** Analysis Date: **6/11/2023** SeqNo: **3536660** 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	8.3		10.00		83.2	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: **2306558**

19-Jun-23

Client: ENSOLUM

Project: Trunk 10A May 2023

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS97366**	RunNo: **97366**
Prep Date:	Analysis Date: **6/12/2023**	SeqNo: **3537356** 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	98.5	70	130			
Surr: BFB	2100		1000		205	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS97366**	RunNo: **97366**
Prep Date:	Analysis Date: **6/12/2023**	SeqNo: **3537369** 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		99.7	15	244			

Sample ID: **2306558-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **GS97366**	RunNo: **97366**
Prep Date:	Analysis Date: **6/12/2023**	SeqNo: **3537972** 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	105	70	130			
Surr: BFB	2100		1000		215	15	244			

Sample ID: **2306558-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **GS97366**	RunNo: **97366**
Prep Date:	Analysis Date: **6/12/2023**	SeqNo: **3537973** 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	104	70	130	1.19	20	
Surr: BFB	2100		1000		215	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#: **2306558**

19-Jun-23

Client: ENSOLUM

Project: Trunk 10A May 2023

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R97366**	RunNo: **97366**
Prep Date:	Analysis Date: **6/12/2023**	SeqNo: **3537358** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.025	1.000	0	73.3	70	130			
Toluene	0.73	0.050	1.000	0	72.9	70	130			
Ethylbenzene	0.71	0.050	1.000	0	70.6	70	130			
Xylenes, Total	2.2	0.10	3.000	0	71.8	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R97366**	RunNo: **97366**
Prep Date:	Analysis Date: **6/12/2023**	SeqNo: **3537371** 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		89.9	39.1	146			

Sample ID: **2306558-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **R97366**	RunNo: **97366**
Prep Date:	Analysis Date: **6/12/2023**	SeqNo: **3537989** 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	89.9	70	130			
Toluene	0.91	0.050	1.000	0	91.2	70	130			
Ethylbenzene	0.90	0.050	1.000	0	90.1	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.9	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	39.1	146			

Sample ID: **2306558-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **R97366**	RunNo: **97366**
Prep Date:	Analysis Date: **6/12/2023**	SeqNo: **3537990** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	70	130	1.26	20	
Toluene	0.89	0.050	1.000	0	89.3	70	130	2.13	20	
Ethylbenzene	0.90	0.050	1.000	0	90.0	70	130	0.122	20	
Xylenes, Total	2.7	0.10	3.000	0	90.1	70	130	0.788	20	
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	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: 2306558 | RcptNo: 1

Received By: Juan Rojas 6/10/2023 7:20:00 AM

Completed By: Juan Rojas 6/10/2023 7:58:10 AM

Reviewed By: CMC 6/12/23 (6/10/23) CMC Clarified

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: JR 6/10/23

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:

Client missing phone number. JR 6/10/23

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolum.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: SAME DAY
☐ Standard ☒ Rush 100%

Project Name: Trunk 10A (May 2023)

Project #: See notes

Project Manager: KSummers

Sampler: RDeechilly
On Ice: ☐ Yes ☐ No
# of Coolers: 1 Yogi
Cooler Temp(including CF): 0.1+0.1=0.2 (°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. 2306558	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)	Chloride
6/9/23	1015	S	S-1	(1) 4oz Jar	Cool	-001	X	X									X
6/9/23	1020	S	S-2	(1) 4oz Jar	Cool	-002	X	X									X
6/9/23	1025	S	S-3	(1) 4oz Jar	Cool	-003	X	X									X
6/9/23	1030	S	S-4	(1) 4oz Jar	Cool	-004	X	X									X
6/9/23	1035	S	S-5	(1) 4oz Jar	Cool	-005	X	X									X
6/9/23	1040	S	S-6	(1) 4oz Jar	Cool	-006	X	X									X
6/9/23	1045	S	S-7	(1) 4oz Jar	Cool	-007	X	X									X
6/9/23	1050	S	S-8	(1) 4oz Jar	Cool	-008	X	X									X
6/9/23	1055	S	S-9	(1) 4oz Jar	Cool	-009	X	X									X
6/9/23	1100	S	S-10	(1) 4oz Jar	Cool	-010	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/9/23	1507				6/9/23	1507
6/9/23	1746			courier	6/10/23	7:20

Remarks:
SAME DAY
PM-Tom Long (EPROD)
PayKey - RB21200
NonAFE - N66407

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

June 21, 2023

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

RE: Trunk 10A OrderNo.: 2306785

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/15/2023 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 **2306785**
Date Reported: **6/21/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5a
Project: Trunk 10A **Collection Date:** 6/14/2023 12:00:00 PM
Lab ID: 2306785-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/15/2023 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	6/15/2023 10:39:18 AM	75612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/15/2023 10:33:02 AM	75602
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/15/2023 10:33:02 AM	75602
Surr: DNOP	99.2	69-147		%Rec	1	6/15/2023 10:33:02 AM	75602
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/15/2023 11:12:33 AM	GS97464
Surr: BFB	102	15-244		%Rec	1	6/15/2023 11:12:33 AM	GS97464
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.017		mg/Kg	1	6/15/2023 11:12:33 AM	R97464
Toluene	ND	0.035		mg/Kg	1	6/15/2023 11:12:33 AM	R97464
Ethylbenzene	ND	0.035		mg/Kg	1	6/15/2023 11:12:33 AM	R97464
Xylenes, Total	ND	0.070		mg/Kg	1	6/15/2023 11:12:33 AM	R97464
Surr: 4-Bromofluorobenzene	89.4	39.1-146		%Rec	1	6/15/2023 11:12:33 AM	R97464

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 **2306785**
Date Reported: **6/21/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-9a
Project: Trunk 10A **Collection Date:** 6/14/2023 12:05:00 PM
Lab ID: 2306785-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/15/2023 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	61		mg/Kg	20	6/15/2023 10:51:42 AM	75612
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	65	9.6		mg/Kg	1	6/15/2023 10:43:40 AM	75602
Motor Oil Range Organics (MRO)	98	48		mg/Kg	1	6/15/2023 10:43:40 AM	75602
Surr: DNOP	97.2	69-147		%Rec	1	6/15/2023 10:43:40 AM	75602
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	6/15/2023 11:36:04 AM	GS97464
Surr: BFB	101	15-244		%Rec	1	6/15/2023 11:36:04 AM	GS97464
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.022		mg/Kg	1	6/15/2023 11:36:04 AM	R97464
Toluene	ND	0.043		mg/Kg	1	6/15/2023 11:36:04 AM	R97464
Ethylbenzene	ND	0.043		mg/Kg	1	6/15/2023 11:36:04 AM	R97464
Xylenes, Total	ND	0.087		mg/Kg	1	6/15/2023 11:36:04 AM	R97464
Surr: 4-Bromofluorobenzene	88.1	39.1-146		%Rec	1	6/15/2023 11:36:04 AM	R97464

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#: **2306785**

21-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **MB-75612**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **75612**	RunNo: **97471**
Prep Date: **6/15/2023**	Analysis Date: **6/15/2023**	SeqNo: **3542337** Units: **mg/Kg**

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

Sample ID: **LCS-75612**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **75612**	RunNo: **97471**
Prep Date: **6/15/2023**	Analysis Date: **6/15/2023**	SeqNo: **3542338** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	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#: **2306785**

21-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **2306785-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-9a**	Batch ID: **75602**	RunNo: **97480**
Prep Date: **6/15/2023**	Analysis Date: **6/15/2023**	SeqNo: **3541821** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	67	9.6	48.22	64.86	4.10	54.2	135			S
Surr: DNOP	4.6		4.822		96.0	69	147			

Sample ID: **2306785-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-9a**	Batch ID: **75602**	RunNo: **97480**
Prep Date: **6/15/2023**	Analysis Date: **6/15/2023**	SeqNo: **3541822** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	9.9	49.36	64.86	-3.21	54.2	135	5.48	29.2	S
Surr: DNOP	4.8		4.936		97.4	69	147	0	0	

Sample ID: **LCS-75602**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **75602**	RunNo: **97480**
Prep Date: **6/15/2023**	Analysis Date: **6/15/2023**	SeqNo: **3541825** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	69.7	61.9	130			
Surr: DNOP	4.4		5.000		87.5	69	147			

Sample ID: **MB-75602**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **75602**	RunNo: **97480**
Prep Date: **6/15/2023**	Analysis Date: **6/15/2023**	SeqNo: **3541828** 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	9.7		10.00		96.8	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: **2306785**

21-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS97464**	RunNo: **97464**
Prep Date:	Analysis Date: **6/15/2023**	SeqNo: **3541220** 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	2000		1000		202	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS97464**	RunNo: **97464**
Prep Date:	Analysis Date: **6/15/2023**	SeqNo: **3541221** 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	980		1000		98.2	15	244			

Sample ID: **2306785-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-5a**	Batch ID: **GS97464**	RunNo: **97464**
Prep Date:	Analysis Date: **6/15/2023**	SeqNo: **3542776** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.5	17.42	0	105	70	130			
Surr: BFB	4100		696.9		590	15	244			S

Sample ID: **2306785-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-5a**	Batch ID: **GS97464**	RunNo: **97464**
Prep Date:	Analysis Date: **6/15/2023**	SeqNo: **3542777** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.5	17.42	0	97.8	70	130	7.14	20	
Surr: BFB	1500		696.9		209	15	244	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: **2306785**

21-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R97464**	RunNo: **97464**
Prep Date:	Analysis Date: **6/15/2023**	SeqNo: **3541223** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	1.000	0	78.8	70	130			
Toluene	0.81	0.050	1.000	0	80.8	70	130			
Ethylbenzene	0.80	0.050	1.000	0	80.1	70	130			
Xylenes, Total	2.4	0.10	3.000	0	81.1	70	130			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.5	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R97464**	RunNo: **97464**
Prep Date:	Analysis Date: **6/15/2023**	SeqNo: **3541224** 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	0.85		1.000		85.0	39.1	146			

Sample ID: **2306785-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-9a**	Batch ID: **R97464**	RunNo: **97464**
Prep Date:	Analysis Date: **6/16/2023**	SeqNo: **3542811** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.022	0.8696	0	79.3	70	130			
Toluene	0.70	0.043	0.8696	0	80.5	70	130			
Ethylbenzene	0.69	0.043	0.8696	0	79.4	70	130			
Xylenes, Total	2.1	0.087	2.609	0	80.2	70	130			
Surr: 4-Bromofluorobenzene	0.75		0.8696		86.0	39.1	146			

Sample ID: **2306785-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-9a**	Batch ID: **R97464**	RunNo: **97464**
Prep Date:	Analysis Date: **6/16/2023**	SeqNo: **3542812** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.022	0.8696	0	76.8	70	130	3.23	20	
Toluene	0.68	0.043	0.8696	0	78.0	70	130	3.15	20	
Ethylbenzene	0.68	0.043	0.8696	0	78.1	70	130	1.66	20	
Xylenes, Total	2.0	0.087	2.609	0	78.1	70	130	2.67	20	
Surr: 4-Bromofluorobenzene	0.75		0.8696		86.6	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: 2306785 RcptNo: 1

Received By: **Cheyenne Cason** 6/15/2023 7:00:00 AM

Completed By: **Tracy Casarrubias** 6/15/2023 7:22:55 AM

Reviewed By: CMC 6/16/23

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 ☑		# of preserved bottles checked for pH:
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐		(<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: 6/15/23

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 are missing on COC- TMC 6/15/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC.

Mailing Address: 606 S Rio Grande Suite 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 6-15-23

Project Name: Trunk 10A

Project #:

Project Manager: K Summers

Sampler: C DiPonte

On Ice: ☒ Yes ☐ No Yog

# of Coolers: 1

Cooler Temp(Including CF): 2.4-0=2.4 (°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. 2306795	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)
6/14	1200	S	S-5a	1-4oz Jar	Cool	001	✓	✓					✓			
6/14	1205	S	S-9a	1-4oz Jar	Cool	007	✓	✓					✓			

Date	Time	Relinquished by:	Received by:	Via	Date	Time
6/14/23	1412					
6/14/23	1618					

Remarks: Tom Long
AFE # N66407

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

June 22, 2023

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

RE: Trunk 10A OrderNo.: 2306944

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/17/2023 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2306944**
Date Reported: **6/22/2023**

CLIENT: ENSOLUM
Client Sample ID: S-9b
Project: Trunk 10A
Collection Date: 6/16/2023 9:00:00 AM
Lab ID: 2306944-001
Matrix: MEOH (SOIL)
Received Date: 6/17/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	6/19/2023 10:53:10 AM	75693
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2023 11:57:17 AM	75692
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2023 11:57:17 AM	75692
Surr: DNOP	97.5	69-147		%Rec	1	6/19/2023 11:57:17 AM	75692
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	6/18/2023 6:22:36 PM	GS97534
Surr: BFB	105	15-244		%Rec	1	6/18/2023 6:22:36 PM	GS97534
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.019		mg/Kg	1	6/18/2023 6:22:36 PM	R97534
Toluene	ND	0.038		mg/Kg	1	6/18/2023 6:22:36 PM	R97534
Ethylbenzene	ND	0.038		mg/Kg	1	6/18/2023 6:22:36 PM	R97534
Xylenes, Total	ND	0.076		mg/Kg	1	6/18/2023 6:22:36 PM	R97534
Surr: 4-Bromofluorobenzene	87.5	39.1-146		%Rec	1	6/18/2023 6:22:36 PM	R97534

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#: **2306944**

22-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **MB-75693**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **75693**	RunNo: **97545**
Prep Date: **6/19/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547028** Units: **mg/Kg**

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

Sample ID: **LCS-75693**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **75693**	RunNo: **97545**
Prep Date: **6/19/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547029** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	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#: **2306944**

22-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **2306944-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-9b**	Batch ID: **75692**	RunNo: **97548**
Prep Date: **6/19/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547367** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.7	48.69	0	92.0	54.2	135			
Surr: DNOP	4.6		4.869		95.1	69	147			

Sample ID: **2306944-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-9b**	Batch ID: **75692**	RunNo: **97548**
Prep Date: **6/19/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547368** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.0	44.80	0	91.7	54.2	135	8.61	29.2	
Surr: DNOP	4.1		4.480		90.7	69	147	0	0	

Sample ID: **LCS-75621**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **75621**	RunNo: **97548**
Prep Date: **6/16/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547375** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.7	69	147			

Sample ID: **LCS-75692**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **75692**	RunNo: **97548**
Prep Date: **6/19/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547376** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	76.0	61.9	130			
Surr: DNOP	4.3		5.000		86.2	69	147			

Sample ID: **MB-75621**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **75621**	RunNo: **97548**
Prep Date: **6/16/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547377** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		92.7	69	147			

Sample ID: **MB-75692**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **75692**	RunNo: **97548**
Prep Date: **6/19/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547378** 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								

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#: **2306944**

22-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **MB-75692**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **75692**	RunNo: **97548**
Prep Date: **6/19/2023**	Analysis Date: **6/19/2023**	SeqNo: **3547378** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.6	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#: **2306944**

22-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R97534**	RunNo: **97534**
Prep Date:	Analysis Date: **6/18/2023**	SeqNo: **3544468** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		216	15	244			

Sample ID: **lcs-75595**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **75595**	RunNo: **97534**
Prep Date: **6/14/2023**	Analysis Date: **6/18/2023**	SeqNo: **3544469** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		203	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS97534**	RunNo: **97534**
Prep Date:	Analysis Date: **6/18/2023**	SeqNo: **3544470** 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		107	15	244			

Sample ID: **mb-75595**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **75595**	RunNo: **97534**
Prep Date: **6/14/2023**	Analysis Date: **6/18/2023**	SeqNo: **3544471** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	15	244			

Sample ID: **2306944-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-9b**	Batch ID: **GS97534**	RunNo: **97534**
Prep Date:	Analysis Date: **6/18/2023**	SeqNo: **3544494** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.8	19.01	0	102	70	130			
Surr: BFB	1600		760.5		216	15	244			

Sample ID: **2306944-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-9b**	Batch ID: **GS97534**	RunNo: **97534**
Prep Date:	Analysis Date: **6/18/2023**	SeqNo: **3544495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.8	19.01	0	102	70	130	0.588	20	
Surr: BFB	1700		760.5		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#: **2306944**

22-Jun-23

Client: ENSOLUM

Project: Trunk 10A

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R97534**	RunNo: **97534**
Prep Date:	Analysis Date: **6/18/2023**	SeqNo: **3544607** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	1.000	0	78.7	70	130			
Toluene	0.80	0.050	1.000	0	80.3	70	130			
Ethylbenzene	0.80	0.050	1.000	0	80.3	70	130			
Xylenes, Total	2.4	0.10	3.000	0	81.3	70	130			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	39.1	146			

Sample ID: **LCS-75595**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **75595**	RunNo: **97534**
Prep Date: **6/14/2023**	Analysis Date: **6/18/2023**	SeqNo: **3544608** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R97534**	RunNo: **97534**
Prep Date:	Analysis Date: **6/18/2023**	SeqNo: **3544609** 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	0.89		1.000		89.0	39.1	146			

Sample ID: **mb-75595**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **75595**	RunNo: **97534**
Prep Date: **6/14/2023**	Analysis Date: **6/18/2023**	SeqNo: **3544610** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		86.7	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: 2306944 RcptNo: 1

Received By: Tracy Casarrubias 6/17/2023 7:50:00 AM

Completed By: Tracy Casarrubias 6/17/2023 9:48:22 AM

Reviewed By: JM 6/19/23

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: TMC 6/17/23

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 # missing on COC- TMC 6/17/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	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: 100%
☐ Standard ☑ Rush 6-19-23

Project Name: Trunk 10A

Project #:

Project Manager: K Summers

Sampler: C DAponti

On Ice: ☒ Yes ☐ No Yogi

# of Coolers: 1

Cooler Temp(Including CF): 2.6-0.1=2.5 (°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. 23069144	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)
6/16	900	S	S-9b	1-4oz Jar	Cool	001	✓	✓					✓			

Date: 6/16/23 Time: 1614 Relinquished by:

Received by: Via: Date Time 6/16/23 1614

Date: 6/16/23 Time: 1800 Relinquished by:

Received by: Via: Courier Date Time 7:50 6/17/23

Remarks: Tom Long
AFE # N66407
Sam Dang

[EXTERNAL] RE: Trunk 10A - Unit K Section 35 T26N R12W; 36.44256, -108.08172; NMOCD Incident #nAPP2316425574

nnepawq@frontiernet.net <nnepawq@frontiernet.net>
Wed 9/20/2023 3:53 PM

To:'Long, Thomas' <tjlong@eprod.com>
Cc:Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>;'Stone, Brian' <bmstone@eprod.com>

Hi Tom,

Based on the information provided, the Trunk 10A release on 6/12/2023 (NMOCD Incident #nAPP2316425574) has satisfied NNEPA remediation requirements and has been closed out. Please let me know if you need anything else.

--Steve

Steve Austin
Senior Hydrologist
NNEPA WQ/NPDES Program
505-368-1037

From: nnepawq@frontiernet.net <nnepawq@frontiernet.net>
Sent: Tuesday, June 13, 2023 7:36 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Stone, Brian <bmstone@eprod.com>
Subject: Re: Trunk 10A - Unit K Section 35 T26N R12W; 36.44256, -108.08172; NMOCD Incident #nAPP2316425574

Thanks for the notification. Please provide the sample analysis results when they are available.

—Steve

Steve Austin
Sr. Hydrologist
NNEPA Water Quality/NPDES Program
(505) 368-1037

On Tuesday, June 13, 2023, 7:14 AM, Long, Thomas <tjlong@eprod.com> wrote:

> Steve,
>
> This email is a notification that Enterprise had a release of natural gas and condensate of the Trunk 3A on May 17, 2023. Minimal liquids were released to the surface. No fires nor injuries occurred. No washes/waterways were affected. Repairs and remediation began last Friday and Enterprise determined the release reportable due to the volume of impacted subsurface soil. The email also serves as a notification the Enterprise will be collecting soil samples for laboratory analysis at the Trunk 10A excavation tomorrow at 12:00 p.m. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

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

CONDITIONS

Action 258322

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 258322
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Navajo Nation approved the closure on 09/20/2023. Approval email attached to closure report. Release resolved.	11/7/2023