

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: <b>Enterprise Field Services, LLC</b>	OGRID: <b>241602</b>
Contact Name: <b>Thomas Long</b>	Contact Telephone: <b>505-599-2286</b>
Contact email: <b>tjlong@eprod.com</b>	Incident # (assigned by OCD): <b>nAPP2125037885</b>
Contact mailing address: <b>614 Reilly Ave, Farmington, NM 87401</b>	

### Location of Release Source

Latitude **36.72897** Longitude **-108.05641** (NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>Lateral 6K-1</b>	Site Type <b>Natural Gas Gathering Pipeline</b>
Date Release Discovered: <b>09/01/2021</b>	Serial Number (if applicable): <b>N/A</b>

Unit Letter	Section	Township	Range	County
<b>E</b>	<b>13</b>	<b>29N</b>	<b>12W</b>	<b>San Juan</b>

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): <b>5-10 Barrels</b>	Volume Recovered (bbls): <b>None</b>
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): <b>97.56 MCF</b>	Volume Recovered (Mcf): <b>None</b>
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

**Cause of Release:** On September 1, 2021, Enterprise had a release of natural gas and natural gas liquids from the Lateral 6K-1 pipeline. The pipeline was isolated, depressurized, locked and tagged out. No liquids were observed on the ground surface. The release was underground. Liquids are present in the subsurface. No washes/waterways were affected. No residences were affected. No emergency services responded. Remediation was completed on October 15, 2021. The final excavation dimensions measured approximately 25 feet long by 24 feet wide and by 30 feet deep. Approximately 861 cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm. A third party closure report is included with this "Final" C-141.

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## 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:  Date: 01/06/2022

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

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by:  Date: 01/13/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

**APPROVED**

**By Nelson Velez at 8:27 am, Jan 13, 2022**

Closure Report Approved, Release Resolved.



## CLOSURE REPORT

Property:

**Lateral 6K-1 (9/1/21)  
Unit Letter E, S13 T29N R12W  
San Juan County, New Mexico**

**New Mexico EMNRD OCD Incident ID No. NAPP2125037885**

January 4, 2022  
Ensolum Project No. 05A1226158

Prepared for:

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

Prepared by:

A blue ink signature of Landon Daniell.

Landon Daniell  
Staff Geologist

A purple ink signature of Kyle Summers.

Kyle Summers, CPG  
Sr. Project Manager

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- Figure C 300 Foot Radius Watercourse and Drainage Identification
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**Appendix C: Executed C-138 Solid Waste Acceptance Form**

**Appendix D: Photographic Documentation**

**Appendix E: Regulatory Correspondence**

**Appendix F: Table 1 - Soil Analytical Summary**

**Appendix G: Laboratory Data Sheets & Chain of Custody Documentation**





## CLOSURE REPORT

**Lateral 6K-1 (9/1/21)  
Unit Letter E, S13 T29N R12W  
San Juan County, New Mexico**

**Ensolum Project No. 05A1226158**

### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

<b>Operator:</b>	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
<b>Site Name:</b>	Lateral 6K-1 (9/1/21)(Site)
<b>Incident ID</b>	NAPP2125037885
<b>Location:</b>	36.72897° North, 108.05641° West Unit Letter E, Section 13, Township 29 North, Range 12 West San Juan County, New Mexico
<b>Property:</b>	United States Bureau of Land Management (BLM)
<b>Regulatory:</b>	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 31, 2021, Enterprise discovered a release on the Lateral 6K-1 pipeline. Enterprise isolated and locked the pipeline out of service. On September 1, 2021, Enterprise determined the release was “reportable” due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified. On September 3, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact.

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

#### 1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-site soils to below the applicable NM EMNRD OCD closure criteria.

### 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. To address activities related to oil and gas releases, the NM EMNRD OCD references NM Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the NM Office of the State Engineer (OSE) and the NM EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

- The 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

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and includes an interactive map). Numerous PODs were identified in the same Public Land Survey System (PLSS) section as the Site and in adjacent sections. The average depth to water for the PODs located in this PLSS section and in adjacent PLSS sections is approximately 80 feet below grade surface (bgs). The closest PODs (SJ-00503, SJ-00496, SJ-02280, and SJ-01904) are located less than one mile from the Site. The permits for the four PODs were approved by the OSE, but apparently, the wells have not been installed, as no additional information is available (**Figure A, Appendix B**).

- One cathodic protection well (CPW) was identified in an adjacent PLSS section in the NM EMNRD OCD imaging database. The records for the cathodic protection well located near the H.J. Loe "B" Fed #2R (Sec 23, T29N, R12W) well location indicate a depth to water of approximately 235 feet bgs. This cathodic protection well is located approximately 1.2 miles southwest of the Site and is approximately 159 feet lower in elevation than the Site (**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 fresh water 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 fresh water wells or springs were identified within 1,000 feet of the Site. The residences located within the 1,000 feet may have unregistered water wells (**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 located 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 located within an area overlying a subsurface mine (**Figure G, Appendix B**). Surface gravels at this location have previously been quarried.
- The Site is not located within an unstable area.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database the location of the Site is not located 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. Applicable closure criteria for soils (below four feet) remaining in place at the Site include:

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Tier I Closure Criteria for Soils Impacted by a Release (Tier II)		
Constituent <sup>1</sup>	Method	Limit
Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
TPH (GRO+DRO+MRO) <sup>2</sup>	EPA SW-846 Method 8015	2,500 mg/kg
TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000 mg/kg
BTEX <sup>3</sup>	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

<sup>1</sup> – Constituent concentrations are in milligrams per kilograms (mg/kg).

<sup>2</sup> – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

<sup>3</sup> – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

In addition, the closure criteria (reclamation requirements of NMAC 19.15.29.13(D)(1)) for the upper four feet of soils at the Site include:

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

### 3.0 SOIL REMEDIATION ACTIVITIES

On September 3, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors (West States) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 25 feet long and 24 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 30 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of sandy gravel and cobbles underlain by sandstone.

An estimated total of 861 cubic yards of petroleum hydrocarbon affected soil was 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 laboratory-confirmed uncontaminated stockpiled soil and was 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<sup>®</sup> hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

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Ensolum's soil sampling program included the collection of 24 composite soil samples (S-1 through S-24) from the excavation for laboratory analysis. In addition, one composite soil sample (SP-1) was collected from stockpiled soil to confirm the material was suitable to use as backfill. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft<sup>2</sup>) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. An excavator bucket was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

### **First Sampling Event**

On September 10, 2021, the first sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. Composite soil samples S-1 (18') and S-2 (18') were collected from the floor of the excavation. Composite soil samples S-3 (0'-18'), S-4 (0'-18'), S-5 (0'-18'), S-6 (0'-18'), S-7 (0'-18'), and S-8 (0'-18') were collected from vertical or near vertical walls of the excavation. Composite soil sample SP-1 was collected from stockpiled soil to demonstrate the soil does not exhibit COC impact and that it was suitable for use as backfill.

Subsequent soil analytical results identified COC concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil samples S-2 and S-3. Soils associated with composite soil samples S-2 and S-3 were removed by excavation and transported to the landfarm for disposal/remediation.

### **Second Sampling Event**

On October 8, 2021, the second sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-9 (21') was collected from the floor of the excavation to replace soil sample S-2 (18'). Composite soil samples S-10 (0'-18'), S-12 (0'-18'), S-13 (0'-18'), S-14 (0'-18'), and S-15 (0'-18') were collected from vertical or near vertical walls of the extended excavation. Composite soil sample S-11 (18') was collected from the floor of the extended excavation. The subsequent soil analytical results for sample S-9 identified COC concentrations that exceeded the NM EMNRD OCD closure criteria. The excavation was deepened in the vicinity of composite soil sample S-9, and the soil associated with S-9 was transported to the landfarm for disposal/remediation.

### **Third Sampling Event**

On October 12, 2021, the third sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-16 (30') was collected from the floor in the deepest portion of the excavation to replace soil sample S-9. Composite soil samples S-17 (18'-30'), S-18 (18'-30'), S-19 (18'-30'), and S-20 (18'-30') were collected from vertical or near vertical walls in the deepest portion of the excavation. Subsequent soil analytical results indicated COC concentrations that exceeded the New Mexico EMNRD OCD closure criteria for composite soil sample S-19. In response to the data exceedance, the sample area associated with S-19 was further excavated and transported to the landfarm for disposal. To remove the deeper lateral impact associated with soil sample S-19, the overlying soil associated with soil sample S-1 also required removal to allow access.

### **Fourth Sampling Event**

On October 15, 2021, the fourth sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-21 (30') was collected from the floor of the excavation. Composite soil samples S-22 (18'-30'), S-23 (18'-30'), and S-24 (18'-30') were collected from vertical or near vertical walls in the deepened portion 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.

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## 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 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-4 through S-8, S-10 through S-18, S-20 through S-24, and SP-1) to the applicable NM EMNRD OCD Tier I closure criteria. The soil associated with composite samples S-1, S-2, S-3, S-9, and S-19 was removed from the Site; therefore, those samples are not included in the following discussion.

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-4, S-5, S-11 S-13, and S-14 indicate total BTEX concentrations ranging from 0.10 mg/kg (S-11) to 1.3 mg/kg (S-5), which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples S-4, S-5, S-13, S-11, S-13, S-14, and S-17 indicate total TPH GRO/DRO/MRO concentrations ranging from 7.6 mg/kg (S-11) to 78 mg/kg (S-5), which are less than the NM EMNRD OCD Tier I closure criteria of 100 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD Tier I closure criteria of 100 mg/kg.
- The laboratory analytical result for composite soil sample S-12 indicates a chloride concentration of 160 mg/kg, which is less than the NM EMNRD OCD Tier I closure criteria of 600 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD Tier I closure criteria of 100 mg/kg.

The laboratory analytical results are summarized in **Table 1 (Appendix F)**.

## 7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with clean imported fill and uncontaminated, stockpiled soil and compacted and contoured to the surrounding topography.

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## 8.0 FINDINGS AND RECOMMENDATION

- Twenty-four composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 861 cubic yards of petroleum hydrocarbon affected soil was transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled and contoured to surrounding grade.

**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

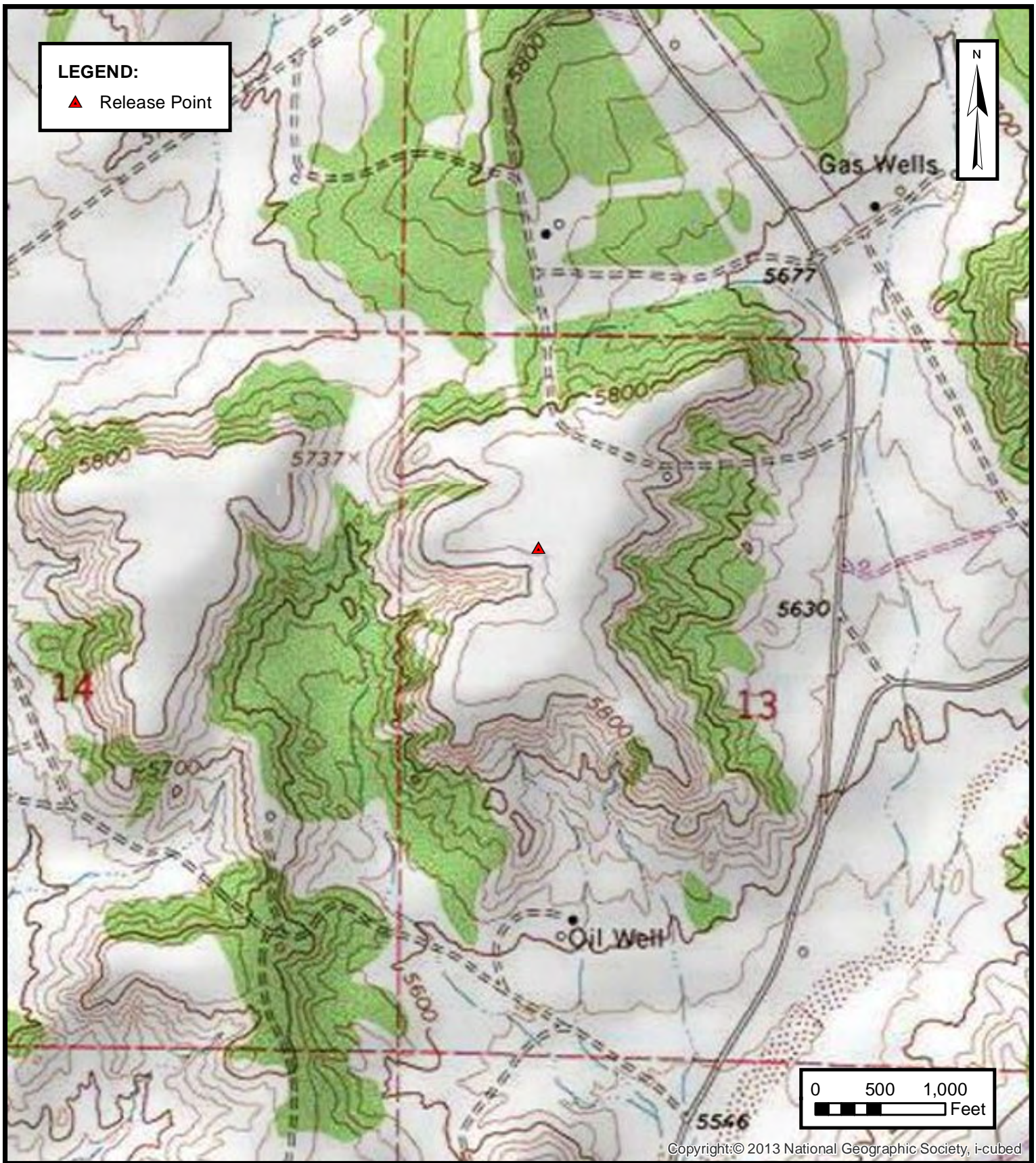
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution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



## APPENDIX A

### Figures





**ENSOLUM**  
Environmental & Hydrogeologic Consultants

### TOPOGRAPHIC MAP

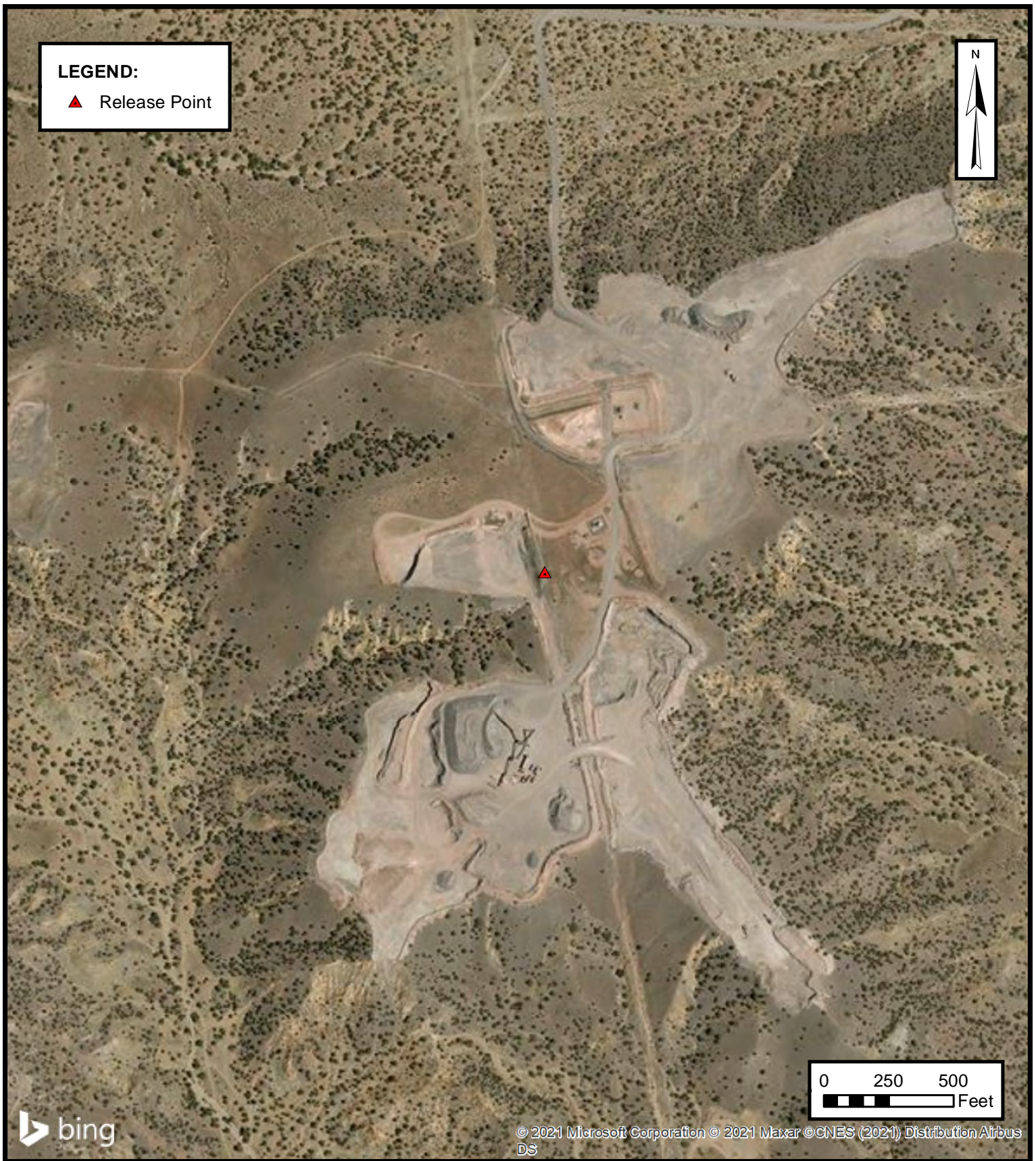
ENTERPRISE FIELD SERVICES, LLC  
LATERAL 6K-1 (9/1/21)  
Unit Letter E, S13 T29N R12W, San Juan County, New Mexico  
36.72897° N, 108.05641° W

PROJECT NUMBER: 05A1226158

**FIGURE**

**1**





**SITE VICINITY MAP**

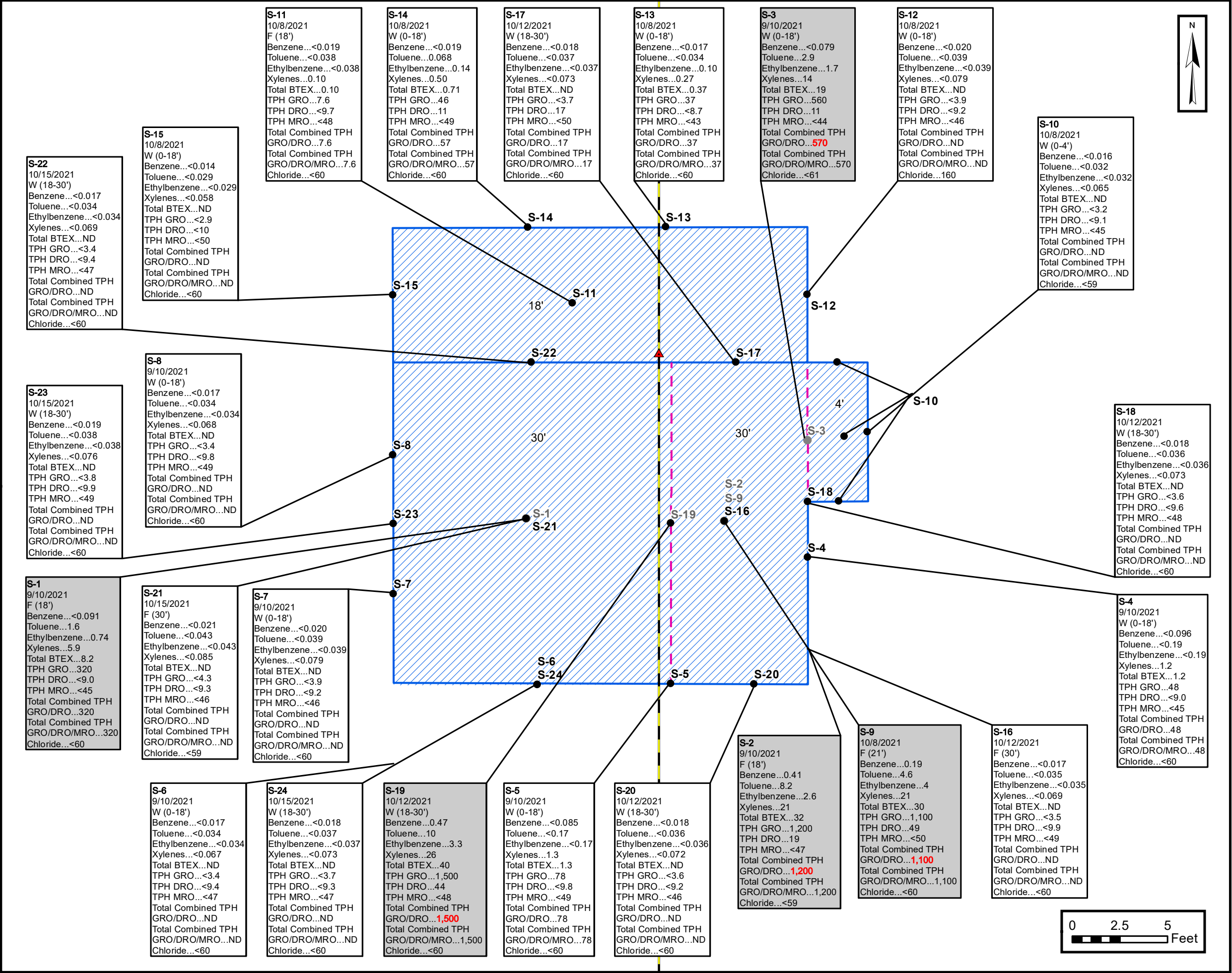
ENTERPRISE FIELD SERVICES, LLC  
LATERAL 6K-1 (9/1/21)  
Unit Letter E, S13 T29N R12W, San Juan County, New Mexico  
36.72897° N, 108.05641° W

PROJECT NUMBER: 05A1226158

**FIGURE**

**2**





- LEGEND:**
- ▲ Release Point
  - Excavation Composite Soil Samples
  - Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Diposal/Remediation
  - ▨ Extent of Excavation
  - Former Excavation Sidewall
  - Approximate Pipeline Location

**NOTES:**  
All Concentrations Are Listed in mg/Kg.  
W - Wall Sample  
F - Floor Sample  
Concentrations in **Red** Exceed the Applicable NM EMNRD OCD Closure Criteria.  
All Depths Are Listed in Feet BGS.  
Analytical Callouts in Gray Denote Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Diposal/Remediation



**SITE MAP**

ENTERPRISE FIELD SERVICES, LLC  
LATERAL 6K-1 (9/1/21)

Unit Letter E, S13, T29N, R12W , San Juan County, New Mexico  
36.72897° N, 108.05641° W

**FIGURE 3**

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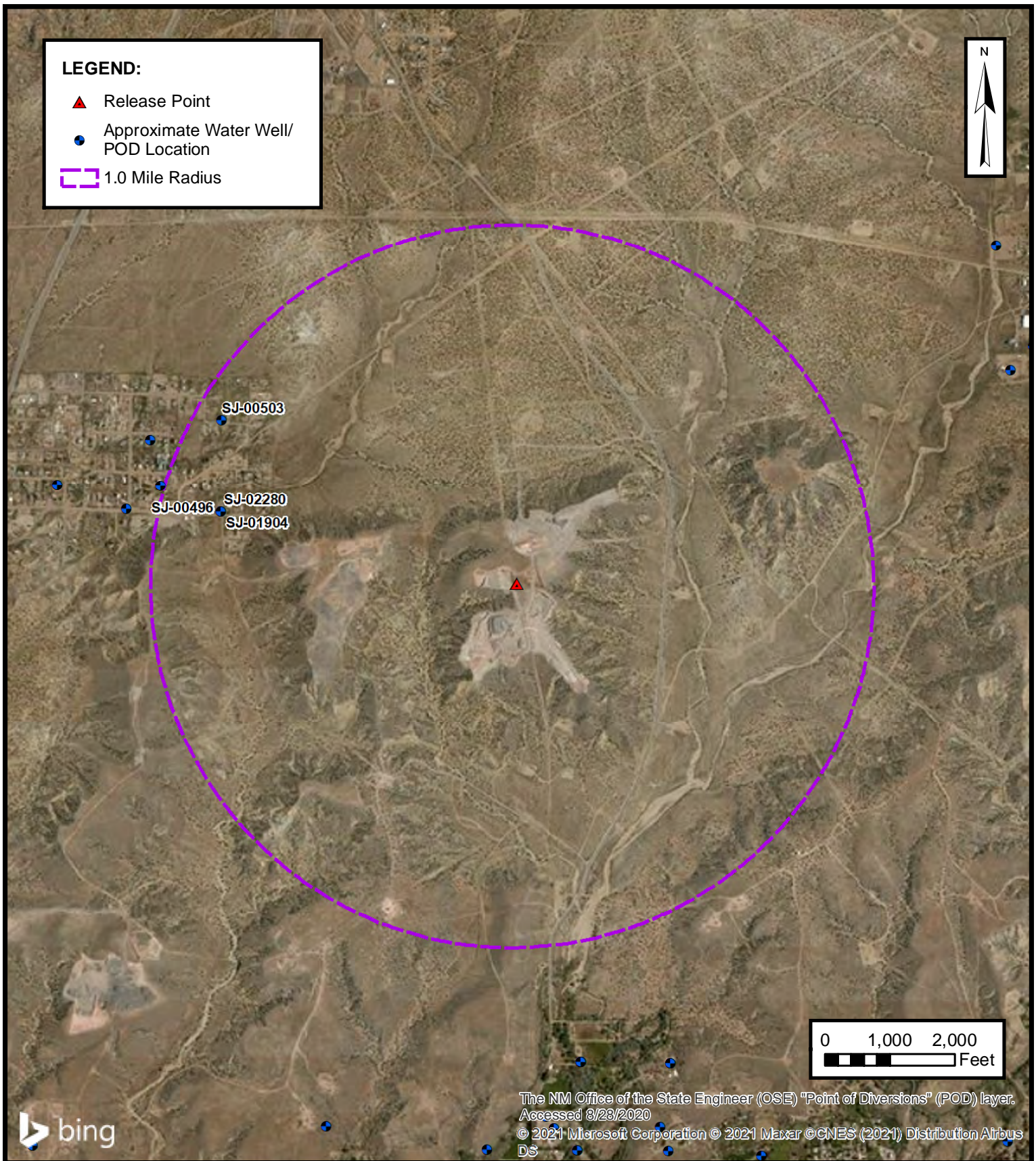


## APPENDIX B

### Siting Figures and Documentation

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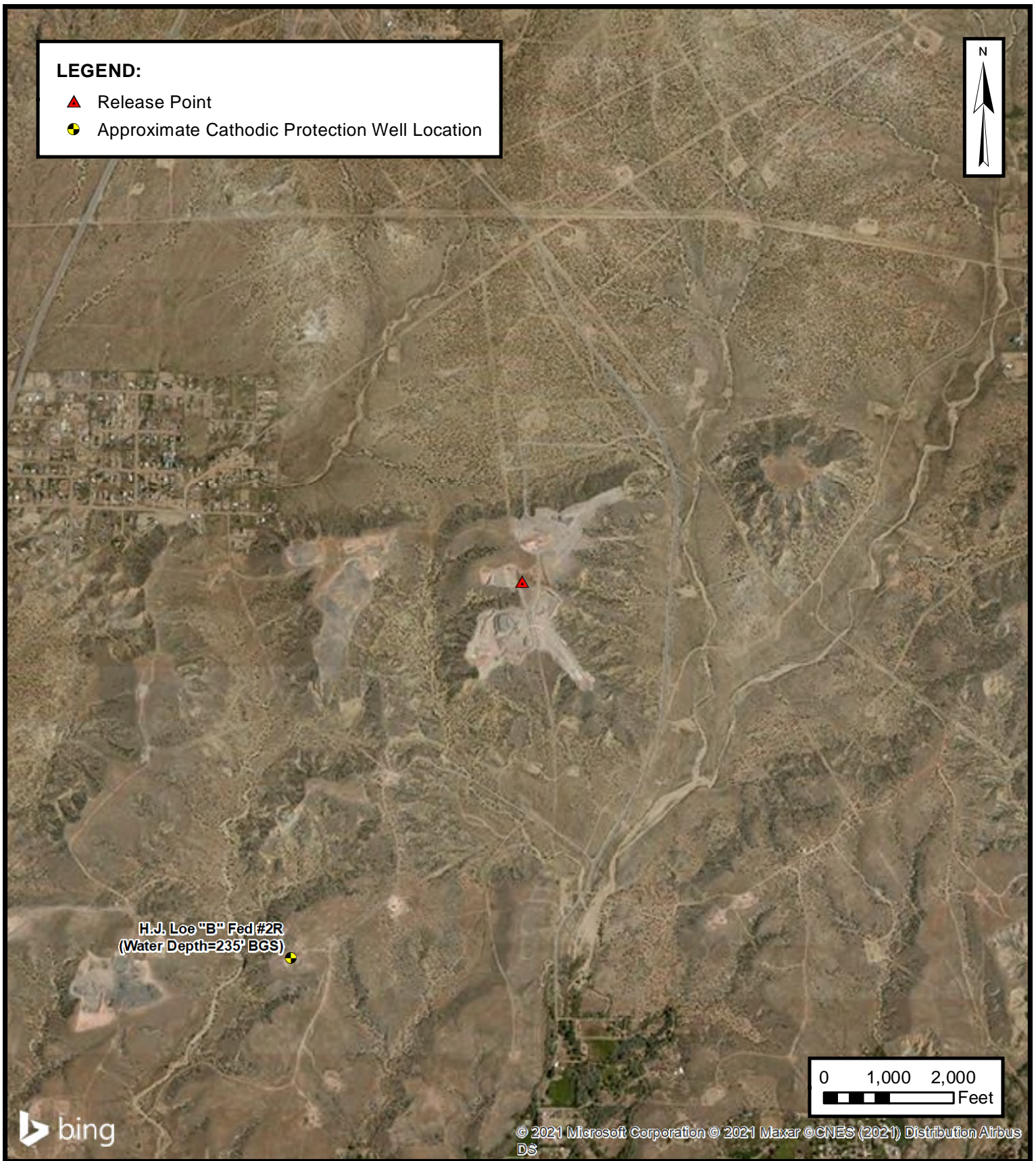
### 1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC  
 LATERAL 6K-1 (9/1/21)  
 Unit Letter E, S13 T29N R21W, San Juan County, New Mexico  
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**FIGURE**  
**A**





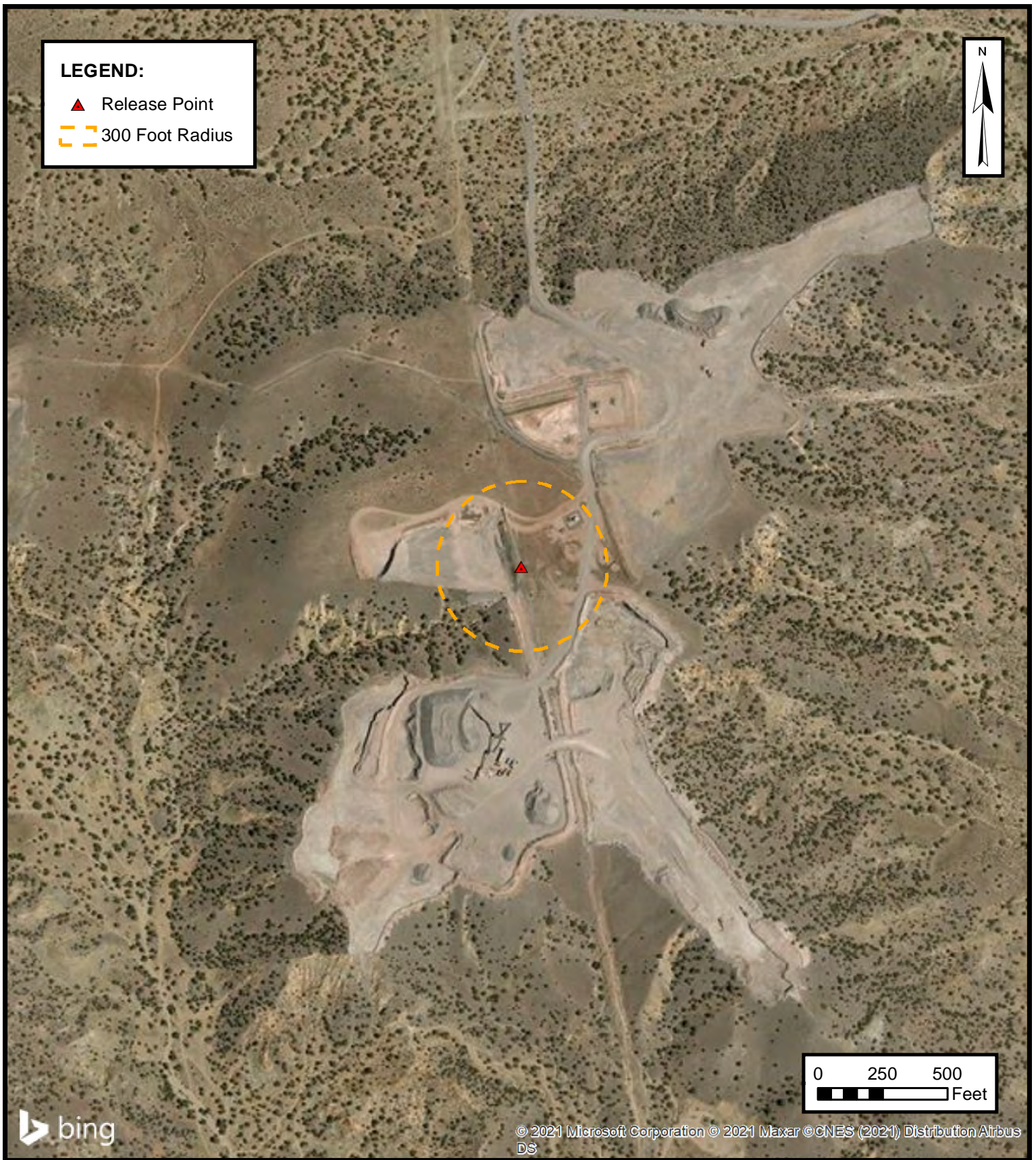
**CATHODIC PROTECTION WELL RECORDED  
DEPTH TO WATER**

ENTERPRISE FIELD SERVICES, LLC  
LATERAL 6K-1 (9/1/21)  
Unit Letter E, S13 T29N R12W, San Juan County, New Mexico  
36.72897° N, 108.05641° W

PROJECT NUMBER: 05A1226158

**FIGURE  
B**





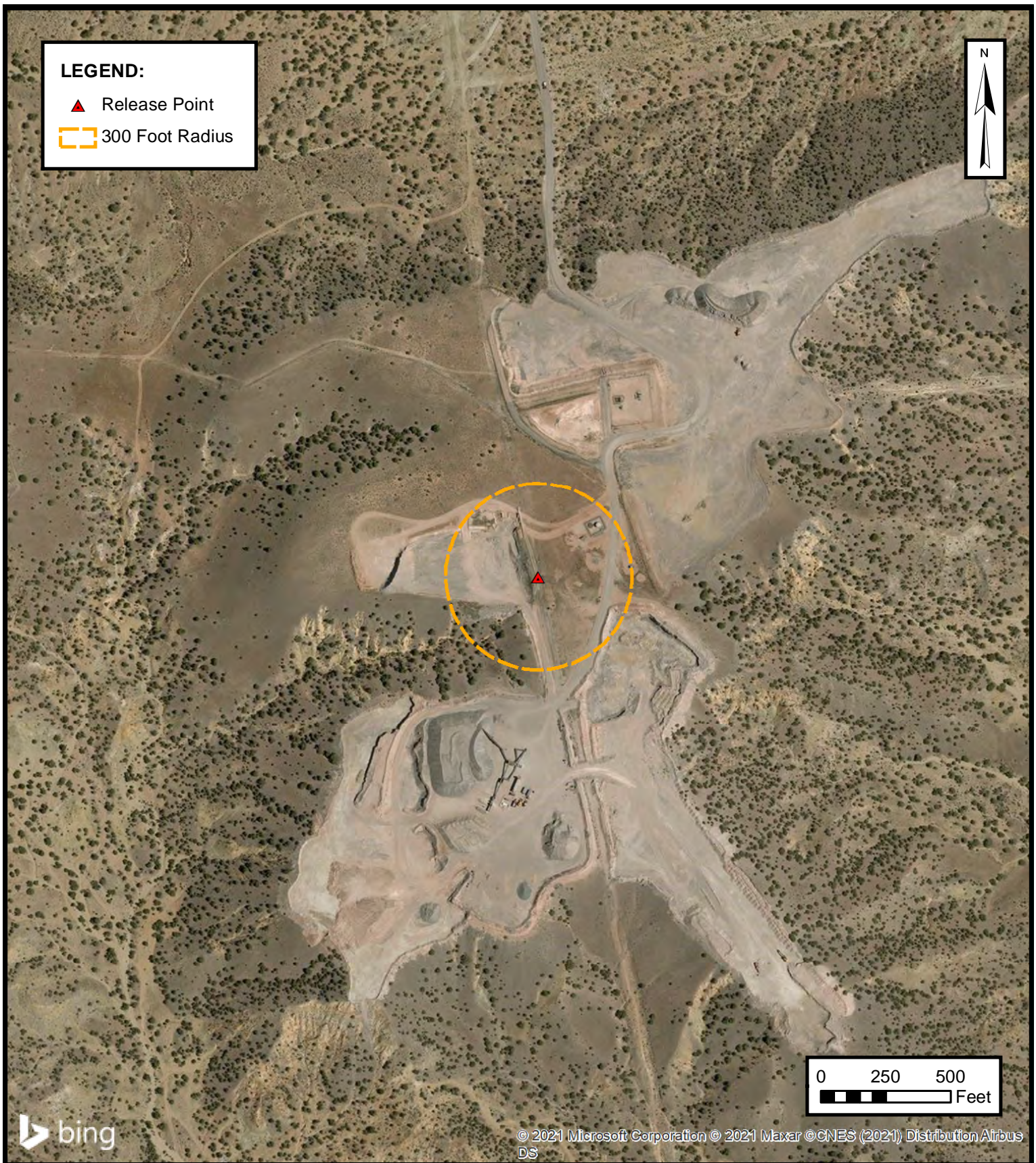
**ENSOLUM**  
Environmental & Hydrogeologic Consultants

**300 FOOT RADIUS  
WATERCOURSE AND DRAINAGE IDENTIFICATION**  
ENTERPRISE FIELD SERVICES, LLC  
LATERAL 6K-1 (9/1/21)  
Unit Letter E, S13 T29N R12W, San Juan County, New Mexico  
36.72897° N, 108.05641° W

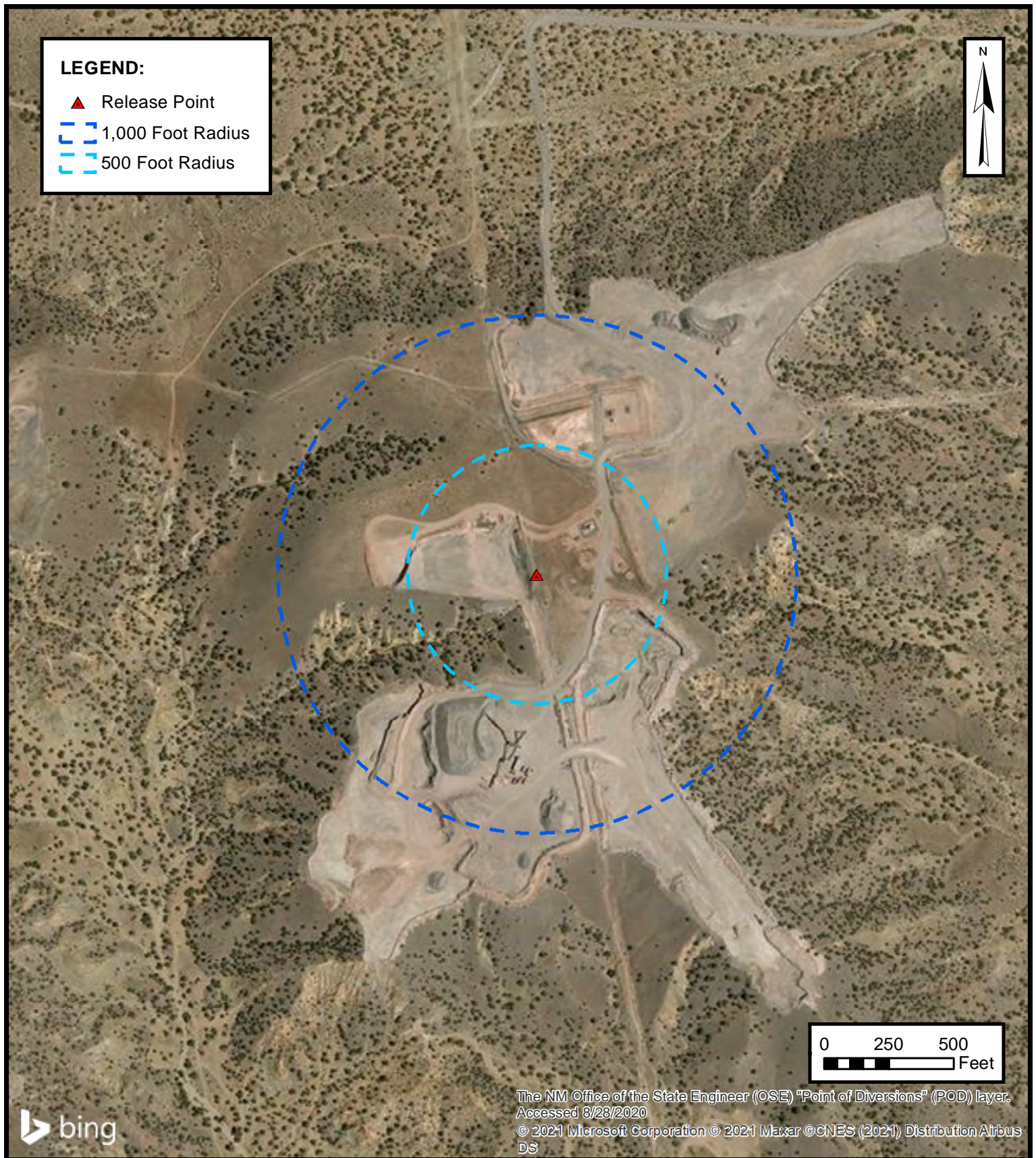
PROJECT NUMBER: 05A1226158

**FIGURE  
C**









**ENSOLUM**  
Environmental & Hydrogeologic Consultants

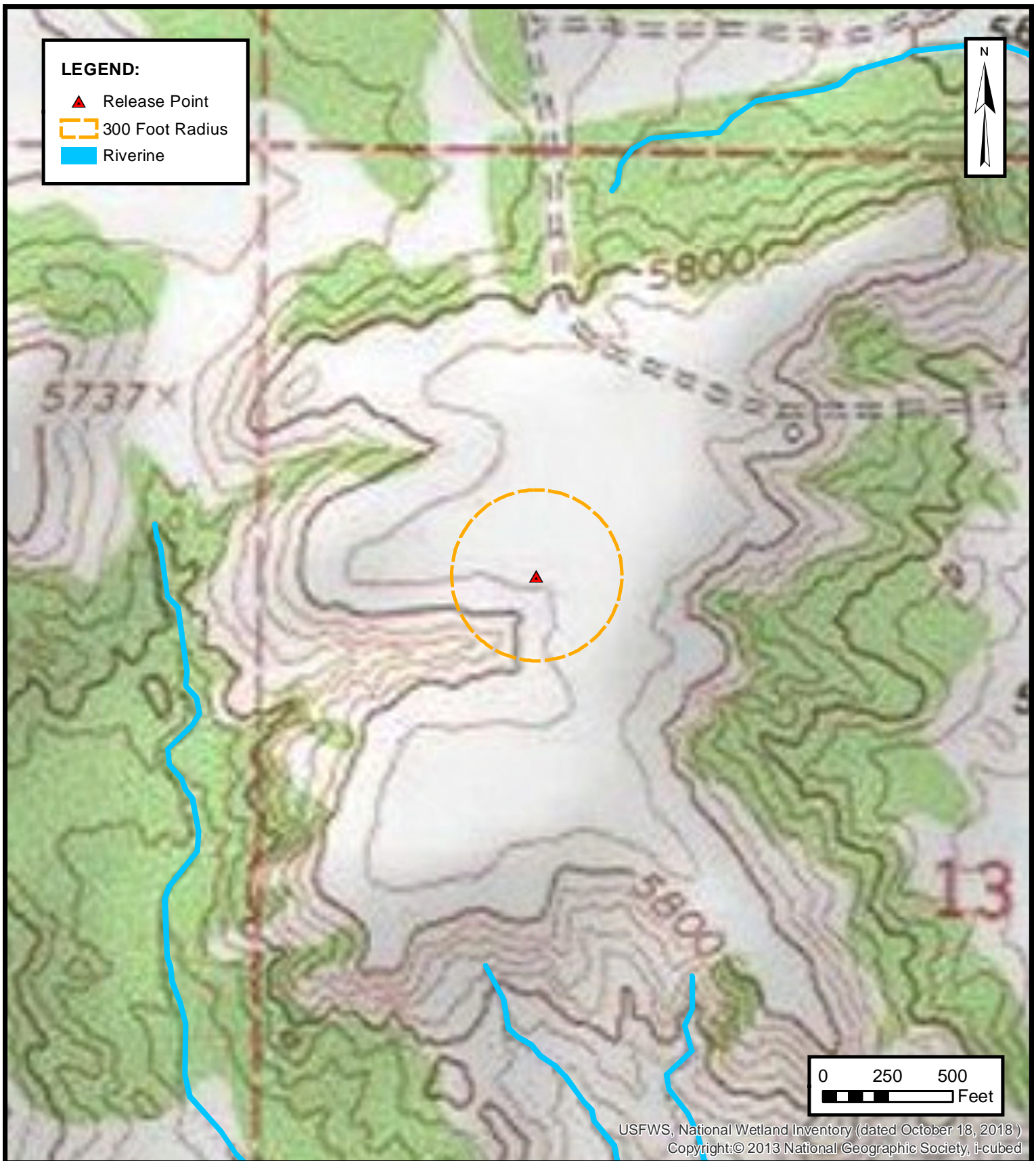
### WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC  
LATERAL 6K-1 (9/1/21)  
Unit Letter E, S13 T29N R12W, San Juan County, New Mexico  
36.72897° N, 108.05641° W

PROJECT NUMBER: 05A1226158

**FIGURE**  
**E**





**ENSOLUM**  
Environmental & Hydrogeologic Consultants

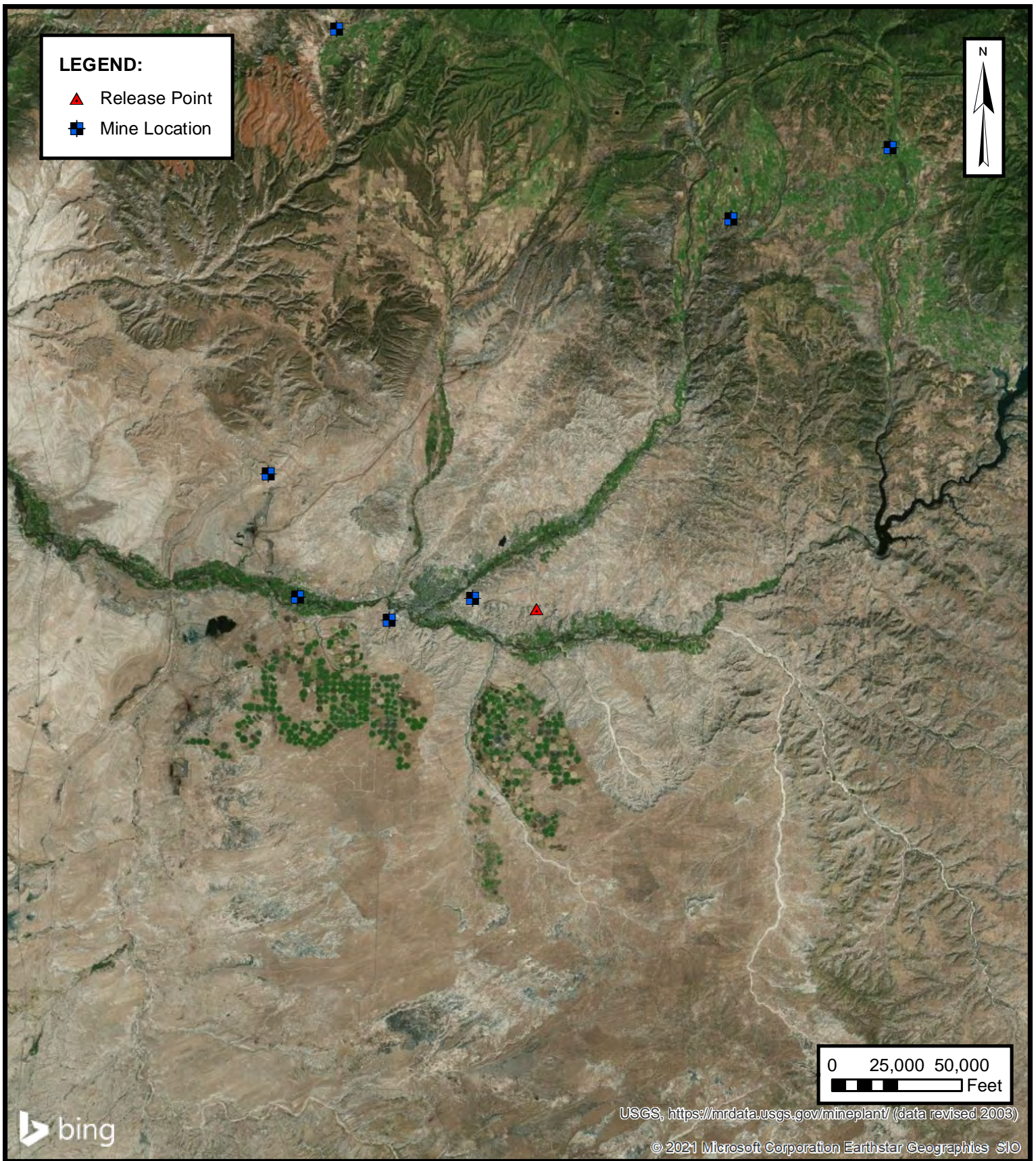
#### WETLANDS

ENTERPRISE FIELD SERVICES, LLC  
LATERAL 6K-1 (9/1/21)  
Unit Letter E, S13 T29N R12W, San Juan County, New Mexico  
36.72897° N, 108.05641° W

PROJECT NUMBER: 05A1226158

**FIGURE**  
**F**





**ENSOLUM**  
Environmental & Hydrogeologic Consultants

### MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC

LATERAL 6K-1 (9/1/21)

Unit Letter E, S13 T29N R12W, San Juan County, New Mexico  
36.72897° N, 108.05641° W

PROJECT NUMBER: 05A1226158

FIGURE

**G**





### 100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC  
 LATERAL 6K-1 (9/1/21)

Unit Letter E, S13 T29N R12W, San Juan County, New Mexico  
 36.72897° N, 108.05641° W

PROJECT NUMBER: 05A1226158

**FIGURE**  
**H**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">SJ 00400</a>	SJM2	SJ		4	3	24	29N	12W		227265	4066668*	83	35	48
<a href="#">SJ 00548</a>	SJM2	SJ		1	1	14	29N	12W		225368	4069558*	180	60	120
<a href="#">SJ 01597</a>	SJM2	SJ		2	3	24	29N	12W		227290	4067056*	40	15	25
<a href="#">SJ 02555</a>	SJM2	SJ		3	3	24	29N	12W		226865	4066683*	21	6	15
<a href="#">SJ 03410</a>	SJM2	SJ		4	3	3	11	29N	12W	225484	4069859*	75		
<a href="#">SJ 03414</a>	SJM2	SJ		2	1	1	14	29N	12W	225524	4069656	90	70	20
<a href="#">SJ 03507</a>	SJM2	SJ		1	4	3	24	29N	12W	227164	4066767*	60		
<a href="#">SJ 03735 POD1</a>	SJM2	SJ		1	4	3	24	29N	12W	227164	4066767*	100	15	85
<a href="#">SJ 03786 POD1</a>	SJM2	SJ		1	4	3	24	29N	12W	227128	4066819	35	11	24
<a href="#">SJ 04179 POD1</a>	SJM2	SJ		1	3	4	24	29N	12W	227631	4066759	280	180	100

Average Depth to Water: **49 feet**

Minimum Depth: **6 feet**

Maximum Depth: **180 feet**

Record Count: 10

PLSS Search:

Section(s): 13, 11, 12, 14, 23, 24 Township: 29N Range: 12W

\*UTM location was derived from PLSS - see Help

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

9/8/21 8:38 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER





# 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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">SJ 00867</a>	SJM2	SJ		4	07	29N	11W			229570	4069949*	77	55	22
<a href="#">SJ 01250</a>	SJM2	SJ		4	4	19	29N	11W		229660	4066529*	60	20	40
<a href="#">SJ 01302</a>	SJM2	SJ		1	4	07	29N	11W		229381	4070147*	250	210	40
<a href="#">SJ 01641</a>	SJM2	SJ		3	2	2	19	29N	11W	229603	4067633*	120	55	65
<a href="#">SJ 01891</a>	SJM2	SJ		3	1	4	07	29N	11W	229280	4070046*	157		
<a href="#">SJ 02026</a>	SJM2	SJ		1	3	19	29N	11W		228572	4066989	27	6	21
<a href="#">SJ 02970</a>	SJM2	SJ		2	3	4	19	29N	11W	229361	4066647*	100	18	82
<a href="#">SJ 03749 POD1</a>	SJM2	SJ		1	3	2	07	29N	11W	229235	4070593	440	140	300
<a href="#">SJ 04253 POD1</a>	SJ	SJ		4	4	07	29N	11W		229807	4069852	290	238	52
<a href="#">SJ 04253 POD2</a>	SJ	SJ		2	4	07	29N	11W		229742	4070079	248	238	10
<a href="#">SJ 04392 POD1</a>	SJM2	SJ		4	2	19	29N	11W		229747	4066925	60		

Average Depth to Water: **108 feet**

Minimum Depth: **6 feet**

Maximum Depth: **238 feet**

Record Count: 11

PLSS Search:

Section(s): 18, 7, 19

Township: 29N

Range: 11W

\*UTM location was derived from PLSS - see Help

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

9/8/21 8:39 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

30-045-22163

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO  
(Submit 3 copies to OCD Aztec Office)

Operator Texaco E&P Inc. Location: Unit G Sec. 23 Twp 29N Rng 12W

Name of Well/Wells or Pipeline Serviced H.J. Loe "B" Fed #2R

Elevation \_\_\_\_\_ Completion Date 4/19/89 Total Depth 380' Land Type\* \_\_\_\_\_

Casing, Sizes, Types & Depths 6 3/4" hole to 380'

If Casing is cemented, show amounts & types used Unknown

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
Unknown

Depths & thickness of water zones with description of water when possible:  
Fresh, Clear, Salty, Sulphur, Etc. See attached log

Depths gas encountered: \_\_\_\_\_

Type & amount of coke breeze used: \_\_\_\_\_

Depths anodes placed: See attached log

Depths vent pipes placed: \_\_\_\_\_

Vent pipe perforations: \_\_\_\_\_

Remarks: \_\_\_\_\_

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.

DATA SHEET NO. 1

COMPANY TEXACO INC JOB No. 6142 DATE: 5-19-91  
 WELL: H.T. LAR "B" FEDERAL WELL NO. 2 PIPELINE:  
 LOCATION: SEC. 23 TWP. 29N RGE. 12W CO. SAN JUAN STATE NEW MEX  
 ELEV. \_\_\_\_\_ FT: ROTARY 380 FT: CABLE TOOL \_\_\_\_\_ FT: CASING \_\_\_\_\_ FT.  
 GROUNDBED: DEPTH 380 FT. DIA. 6 3/4 IN. GAS \_\_\_\_\_ LBS. ANODES 10 1 1/2 X 60" CO-51

DEPTH, FT.	DRILLER'S LOG	DRILL PIPE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		E	I	R	E	I	R	
0-5	SAND & GRAVEL							
5-10								
10-15								
15-20	SAND							
20-25								
25-30								6
30-35								
35-40								
40-45								
45-50								
50-55								
55-60								
60-65								
65-70								
70-75								
75-80								
80-85								
85-90								
90-95								
95-100								
100-105	SHALE w/ SAND STRINGS							
105-110								
110-115								
115-120								
120-125								
125-130								
130-135								
135-140								
140-145								
145-150								
150-155								
155-160								
160-165								
165-170								
170-175								
175-180								
180-185								
185-190								
190-195								1.10
195-200								1.10
200-205								3.90
205-210								4.30
210-215					19.0			4.20

GROUNDBED RESISTANCE: (1) VOLTS \_\_\_\_\_ + AMPS \_\_\_\_\_ - \_\_\_\_\_ OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS



catholic protection service

HOUSTON TEXAS

DATA SHEET NO. 2

COMPANY TEXACO INC. JOB No. 6142 DATE: 5-19-71  
 WELL: H. J. L. OF "B" FEDERAL WELL NO. 2 PIPELINE:  
 LOCATION: SEC. 23 TWP. 29N RGE. 12W CO. SAN JUAN STATE NEW MEX  
 ELEV. \_\_\_\_\_ FT: ROTARY 380 FT: CABLE TOOL \_\_\_\_\_ FT: CASING \_\_\_\_\_ FT.  
 GROUND BED: DEPTH 380 FT. DIA. 6 3/4 IN. GAS \_\_\_\_\_ LBS. ANODES 10 1 1/2" x 60" CD-51

DEPTH, FT.	DRILLER'S LOG	DRILL PIPE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		E	I	R	E	I	R	
215-220					13.0	3.0		
220-225						2.40		
225-230						2.50		
230-235						2.60		
235-240	SAND WATER					2.0		
240-245						1.50		
245-250						2.20		
250-255						2.20		
255-260						2.60		
260-265						2.80		2.55
265-270						3.40		
270-275						2.80		2.65
275-280						2.10		
280-285						2.10		2.75
285-290						2.10		
290-295						2.0		2.85
295-300						2.0		
300-305						1.80		2.95
305-310						1.40		
310-315						1.60		
315-320	SHALE					2.20		3.10
320-325						3.10		
325-330						2.40		3.20
330-335						1.60		
335-340	SAND					1.60		3.30
340-345						1.60		
345-350						1.90		3.40
350-355						2.0		
355-360						2.10		3.50
360-365						1.65		
365-370						1.40		
370-375					13.0	1.40		
375-380								
ANODES		WATER		COKE				
	1	2.0		2.00		2.40		
	2	1.40		2.0		1.80		
	3	2.60		3.0		2.60		
	4	3.40		3.60		3.40		
	5	1.80		1.0	1.10	1.10		
	6	2.0		2.00		2.0		
	7	2.10		2.10		2.10		
	8	2.60		2.90		2.40		
	9	2.80		2.40		3.40		
	10	2.80		2.80		2.60		

GROUND BED RESISTANCE: (1) VOLTS 12 + AMPS 15 - \_\_\_\_\_ OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS



cathodic protection service

HOUSTON, TEXAS





## 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.  
~~140~~ 97057-1125

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

### 1. Generator Name and Address:

Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

PayKey: RB21200

PM: Matt Melvin

AFE: N55007

### 2. Originating Site:

Lateral 6K-1

### 3. Location of Material (Street Address, City, State or ULSTR):

UL E Section 13 T29N R12W; 36.728970, -108.056400

Sup/Oct 2021

### 4. Source and Description of Waste:

Source: Remediation activities associated with a natural gas pipeline leak.

Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.

Estimated Volume 50 yd<sup>3</sup>/bbls Known Volume (to be entered by the operator at the end of the haul) 867 yd<sup>3</sup>/bbls

### 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long *Thomas Long*, representative or authorized agent for Enterprise Products Operating do hereby

#### Generator Signature

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

### GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long *Thomas Long* 9-7-2021, representative for Enterprise Products Operating authorizes Envirotech, Inc. 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: West States Energy Contractors and Subcontractors Doug Fouts, HBL

### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility \* Permit #: NM 01-0011

Address of Facility: Hilltop, 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

SIGNATURE: [Signature]

TITLE: Enviro Manager

TELEPHONE NO.:

DATE: 9/7/21

Surface Waste Management Facility Authorized Agent

505-632-0615



## APPENDIX D

### Photographic Documentation



## SITE PHOTOGRAPHS

Closure Report  
Enterprise Field Services, LLC  
Lateral 6K-1 (9/1/21)  
Ensolum Project No. 05A1226158

**Photograph 1**

Photograph Description: View of the initial excavation activities.

**Photograph 2**

Photograph Description: View of in-process excavation activities.

**Photograph 3**

Photograph Description: View of in-process excavation activities.



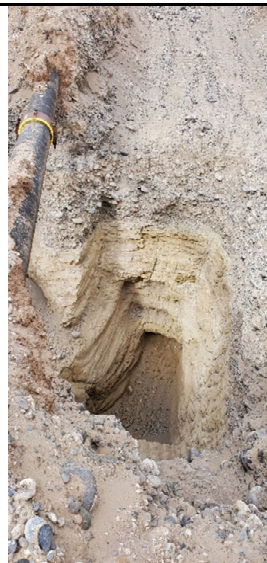


## SITE PHOTOGRAPHS

Closure Report  
Enterprise Field Services, LLC  
Lateral 6K-1 (9/1/21)  
Ensolum Project No. 05A1226158

**Photograph 4**

Photograph Description: View of in-process excavation activities.

**Photograph 5**

Photograph Description: View of deeper portion of the excavation.

**Photograph 6**

Photograph Description: View of the site after restoration.





## APPENDIX E

### Regulatory Correspondence

---

**From:** [Long, Thomas](#)  
**To:** ["Smith, Cory, EMNRD \(Cory.Smith@state.nm.us\)"; rjoyner@blm.gov](#)  
**Cc:** [Stone, Brian](#)  
**Subject:** FW: Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885  
**Date:** Monday, October 18, 2021 2:28:00 PM  
**Attachments:** [Trunk 6K-1 Site Map v5.jpg](#)  
[Lateral Trunk 6K.pdf](#)  
[Trunk 6K 1.pdf](#)

---

Cory/Ryan,

Please find the attached site sketch and lab reports for the Lateral 6K-1 excavation. All sample results are now below the NMOCD Tier I remediation standard. Enterprise will backfill the excavation with clean imported fill material. 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](mailto:tjlong@eprod.com)



---

**From:** Long, Thomas  
**Sent:** Thursday, October 14, 2021 12:17 PM  
**To:** 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; rjoyner@blm.gov  
**Cc:** Stone, Brian <bmstone@eprod.com>  
**Subject:** FW: Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885

Cory/Ryan,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Lateral 6K-1 excavation tomorrow, October 15, 2021 at 11:00 a.m. If you have any questions, please call or email.

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



---

**From:** Long, Thomas  
**Sent:** Monday, October 11, 2021 1:17 PM  
**To:** 'Smith, Cory, EMNRD ([Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us))' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [rjoyner@blm.gov](mailto:rjoyner@blm.gov)  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** FW: Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885

Cory/Ryan,

Please find the attached site sketch and lab report for the Lateral 6K-1 excavation. One sample S-9 exceeds the NMOCD TPH (DRO/GRO) standard. Enterprise will be excavating more on the base tomorrow. We will be collecting soils samples at 1:00 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](mailto:tjlong@eprod.com)



---

**From:** Long, Thomas  
**Sent:** Wednesday, October 6, 2021 9:52 AM  
**To:** 'Smith, Cory, EMNRD ([Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us))' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [rjoyner@blm.gov](mailto:rjoyner@blm.gov)  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** FW: Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885

Cory,

This email is a notification that Enterprise has continued the remediation at the Lateral 6K-1 excavation and will be collecting soil samples for laboratory analysis on Friday, October 8, 2021 at 9:00 a.m. If you have any questions, please call or email.



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



---

**From:** Long, Thomas  
**Sent:** Tuesday, September 14, 2021 10:07 AM  
**To:** 'Smith, Cory, EMNRD ([Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us))' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; [rjoyner@blm.gov](mailto:rjoyner@blm.gov)  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** FW: Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885

Cory/Ryan,

This email is a follow up to our phone conversation earlier. Enterprise had a flash fire at the Lateral 6K-1 remediation excavation. It was a small flash fire within the excavation and burned off in seconds. The job was shut down to evaluate safety conditions. No injuries occurred. No emergency responders were notified or responded. No other hazards are present. Please let me know if you like Enterprise to submit a separate C-141 for this fire incident. 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](mailto:tjlong@eprod.com)



---

**From:** Long, Thomas  
**Sent:** Tuesday, September 14, 2021 7:51 AM  
**To:** 'Smith, Cory, EMNRD ([Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us))' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; 'rjoyner@blm.gov' <[rjoyner@blm.gov](mailto:rjoyner@blm.gov)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>

**Subject:** FW: Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885

Cory/Ryan,

Please find the attached site sketch and lab report of the Lateral 6K-1 excavation. All sample results are below the NMOCD Tier III remediation standard. Enterprise will partially backfill the excavation with clean imported fill material and continue remediating to the north. This email is also a sample notification that Enterprise will be collecting soil samples for laboratory analysis tomorrow September 15, 2021 at 10:00. 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](mailto:tjlong@eprod.com)



---

**From:** Long, Thomas  
**Sent:** Thursday, September 9, 2021 7:13 AM  
**To:** 'Smith, Cory, EMNRD ([Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us))' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; 'rjoyner@blm.gov' <[rjoyner@blm.gov](mailto:rjoyner@blm.gov)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** FW: Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885

Cory/Ryan,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Lateral 6K-1 excavation tomorrow September 10, 2021 at 8:00 a.m. If you have any questions, please call or email.

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



---

**From:** Long, Thomas  
**Sent:** Wednesday, September 8, 2021 1:35 PM  
**To:** 'Smith, Cory, EMNRD ([Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us))' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** FW: Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885

Cory,

This email is a notification that Enterprise has postponed sampling activities at the Lateral 6K-1 excavation due limited field personnel. I will keep you informed as to when the activities will be rescheduled.

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



---

**From:** Long, Thomas  
**Sent:** Tuesday, September 7, 2021 2:15 PM  
**To:** 'Smith, Cory, EMNRD ([Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us))' <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; 'rjoyner@blm.gov' <[rjoyner@blm.gov](mailto:rjoyner@blm.gov)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** Lateral 6K-1 - UL E Section 13 T29N R12W; 36.728970, -108.056400 - Incident # nAPP2125037885

Cory/Ryan,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Lateral 6K-1 excavation tomorrow, September 8, 2021 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](mailto:tjlong@eprod.com)**





## APPENDIX F

### Table 1 – Soil Analytical Summary

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**TABLE 1**  
Lateral 6K-1 (9/1/21)  
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX <sup>1</sup>	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH (GRO/DRO) <sup>1</sup>	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup>	Chloride
		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I and Tier II)				10	NE	NE	NE	50				1,000	Tier I (< 4') - 100 Tier II - 2,500	Tier I (< 4') - 600 Tier II - 10,000
Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Diposal/Remediation														
S-1	9.10.21	C	18	<0.091	1.6	0.74	5.9	8.2	320	<9.0	<45	320	320	<60
S-2	9.10.21	C	18	0.41	8.2	2.6	21	32	1,200	19	<47	1,200	1,200	<59
S-3	9.10.21	C	0 to 18	<0.079	2.9	1.7	14	19	560	11	<44	570	570	<61
S-9	10.8.21	C	21	0.19	4.6	4	21	30	1,100	49	<50	1,100	1,100	<60
S-19	10.12.21	C	18 to 30	0.47	10	3.3	26	40	1,500	44	<48	1,500	1,500	<60
Composite Soil Sample Collected from Stockpiled Soil														
SP-1	9.10.21	C	Stockpile	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.3	<47	ND	ND	<61
Excavation Composite Soil Samples														
S-4	9.10.21	C	0 to 18	<0.096	<0.19	<0.19	1.2	1.2	48	<9.0	<45	48	48	<60
S-5	9.10.21	C	0 to 18	<0.085	<0.17	<0.17	1.3	1.3	78	<9.8	<49	78	78	<60
S-6	9.10.21	C	0 to 18	<0.017	<0.034	<0.034	<0.067	ND	<3.4	<9.4	<47	ND	ND	<60
S-7	9.10.21	C	0 to 18	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<9.2	<46	ND	ND	<60
S-8	9.10.21	C	0 to 18	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.8	<49	ND	ND	<60
S-10	10.8.21	C	0 to 4	<0.016	<0.032	<0.032	<0.065	ND	<3.2	<9.1	<45	ND	ND	<59
S-11	10.8.21	C	18	<0.019	<0.038	<0.038	0.10	0.10	7.6	<9.7	<48	7.6	7.6	<60
S-12	10.8.21	C	0 to 18	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<9.2	<46	ND	ND	160
S-13	10.8.21	C	0 to 18	<0.017	<0.034	0.10	0.27	0.37	37	<8.7	<43	37	37	<60
S-14	10.8.21	C	0 to 18	<0.019	0.068	0.14	0.50	0.71	46	11	<49	57	57	<60
S-15	10.8.21	C	0 to 18	<0.014	<0.029	<0.029	<0.058	ND	<2.9	<10	<50	ND	ND	<60
S-16	10.12.21	C	30	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.9	<49	ND	ND	<60
S-17	10.12.21	C	18 to 30	<0.018	<0.037	<0.037	<0.073	ND	<3.7	17	<50	17	17	<60
S-18	10.12.21	C	18 to 30	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.6	<48	ND	ND	<60
S-20	10.12.21	C	18 to 30	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.2	<46	ND	ND	<60
S-21	10.15.21	C	30	<0.021	<0.043	<0.043	<0.085	ND	<4.3	<9.3	<46	ND	ND	<59
S-22	10.15.21	C	18 to 30	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<9.4	<47	ND	ND	<60

**TABLE 1**  
Lateral 6K-1 (9/1/21)  
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX <sup>1</sup>	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH (GRO/DRO) <sup>1</sup>	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup>	Chloride
		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I and Tier II)				10	NE	NE	NE	50				1,000	Tier I (< 4') - 100 Tier II - 2,500	Tier I (< 4') - 600 Tier II - 10,000
S-23	10.15.21	C	18 to 30	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.9	<49	ND	ND	<60
S-24	10.15.21	C	18 to 30	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.3	<47	ND	ND	<60

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

<sup>1</sup> = 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)

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

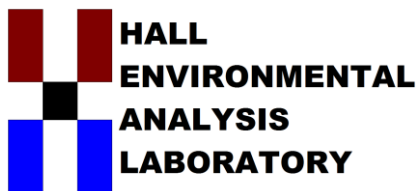
MRO = Motor Oil/Lube Oil Range Organics



## APPENDIX G

### Laboratory Data Sheets & Chain of Custody Documentation

---



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

September 15, 2021

Kyle Summers

ENSOLUM

606 S Rio Grande Ste A

Aztec, NM 87410

TEL:

FAX

RE: Trunk 6K 1

OrderNo.: 2109582

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/11/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2109582

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-1

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:50:00 AM

Lab ID: 2109582-001

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	9/13/2021 6:06:30 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/11/2021 4:21:20 PM	62523
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/11/2021 4:21:20 PM	62523
Surr: DNOP	98.7	70-130		%Rec	1	9/11/2021 4:21:20 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/13/2021 10:18:50 AM	G81229
Surr: BFB	103	70-130		%Rec	1	9/13/2021 10:18:50 AM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	9/13/2021 10:18:50 AM	B81229
Toluene	ND	0.036		mg/Kg	1	9/13/2021 10:18:50 AM	B81229
Ethylbenzene	ND	0.036		mg/Kg	1	9/13/2021 10:18:50 AM	B81229
Xylenes, Total	ND	0.073		mg/Kg	1	9/13/2021 10:18:50 AM	B81229
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	9/13/2021 10:18:50 AM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 5



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

WO#: 2109582

15-Sep-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>MB-62526</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62526</b>	RunNo: <b>81207</b>								
Prep Date: <b>9/13/2021</b>	Analysis Date: <b>9/13/2021</b>	SeqNo: <b>2868182</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-62526</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62526</b>	RunNo: <b>81207</b>								
Prep Date: <b>9/13/2021</b>	Analysis Date: <b>9/13/2021</b>	SeqNo: <b>2868183</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 2 of 5

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

WO#: 2109582

15-Sep-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>MB-62523</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>62523</b>		RunNo: <b>81216</b>							
Prep Date: <b>9/11/2021</b>	Analysis Date: <b>9/11/2021</b>		SeqNo: <b>2867368</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.0	70	130			

Sample ID: <b>LCS-62523</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>62523</b>		RunNo: <b>81216</b>							
Prep Date: <b>9/11/2021</b>	Analysis Date: <b>9/11/2021</b>		SeqNo: <b>2867369</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	68.9	135			
Surr: DNOP	4.4		5.000		88.6	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 3 of 5

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

WO#: 2109582

15-Sep-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>G81229</b>	RunNo: <b>81229</b>								
Prep Date:	Analysis Date: <b>9/13/2021</b>	SeqNo: <b>2868112</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>G81229</b>	RunNo: <b>81229</b>								
Prep Date:	Analysis Date: <b>9/13/2021</b>	SeqNo: <b>2868113</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	78.6	131			
Surr: BFB	1200		1000		118	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2109582

15-Sep-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>PBS</b>	Batch ID: <b>B81229</b>				RunNo: <b>81229</b>					
Prep Date:	Analysis Date: <b>9/13/2021</b>				SeqNo: <b>2868148</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>B81229</b>				RunNo: <b>81229</b>					
Prep Date:	Analysis Date: <b>9/13/2021</b>				SeqNo: <b>2868153</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: <b>2109582-001ams</b>	SampType: <b>MS</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>SP-1</b>	Batch ID: <b>B81229</b>				RunNo: <b>81229</b>					
Prep Date:	Analysis Date: <b>9/13/2021</b>				SeqNo: <b>2868154</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.018	0.7257	0	89.9	80	120			
Toluene	0.67	0.036	0.7257	0	92.3	80	120			
Ethylbenzene	0.67	0.036	0.7257	0	92.9	80	120			
Xylenes, Total	2.0	0.073	2.177	0	91.8	80	120			
Surr: 4-Bromofluorobenzene	0.66		0.7257		91.0	70	130			

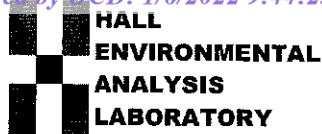
Sample ID: <b>2109582-001amsd</b>	SampType: <b>MSD</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>SP-1</b>	Batch ID: <b>B81229</b>				RunNo: <b>81229</b>					
Prep Date:	Analysis Date: <b>9/13/2021</b>				SeqNo: <b>2868155</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.018	0.7257	0	89.4	80	120	0.558	20	
Toluene	0.67	0.036	0.7257	0	91.7	80	120	0.652	20	
Ethylbenzene	0.67	0.036	0.7257	0	92.5	80	120	0.431	20	
Xylenes, Total	2.0	0.073	2.177	0	91.2	80	120	0.758	20	
Surr: 4-Bromofluorobenzene	0.67		0.7257		91.8	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit





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

## Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2109582

RcptNo: 1

Received By: Desiree Dominguez 9/11/2021 8:50:00 AM

Completed By: Desiree Dominguez 9/11/2021 9:13:33 AM

Reviewed By: *[Signature]* 09/11/2021*[Signature]**[Signature]*Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

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

Adjusted?

Checked by: *DAD 9/11/21*Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Yes			

## Chain-of-Custody Record

Client: Ensolum, LLCMailing Address: 600 S. Riolande Suite AAztec, 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 6K-1

Project #: scenatg

Project Manager: Ksummers

Sampler: R. Summerville

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.8 - 0.0 ± 0.8 (°C)

Container Type and #

Preservative Type

HEAL No.

2109582WatersCOB-001

Received by: Chris Ward Date: 9/10/21 Time: 1328

Relinquished by: Chris Ward Date: 9/10/21 Time: 1804

Received by: Chris Ward Date: 9/11/21 Time: 8:50

## Analysis Request

BTEX / MTBE / TMBs (8021) X

TPH: 8015D (GRO / DRO / MRO) X

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent) Chloride

Remarks: SAME DAY

PM - Tom Long (EPR01)

Paykey - RBA160

NON ATE - NS5007



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

September 15, 2021

Kyle Summers  
ENSOLUM  
606 S Rio Grande Ste A  
Aztec, NM 87410  
TEL:  
FAX

RE: Trunk 6K 1

OrderNo.: 2109584

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/11/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2109584

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:10:00 AM

Lab ID: 2109584-001

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/13/2021 6:43:43 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	9/11/2021 5:57:25 PM	62523
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/11/2021 5:57:25 PM	62523
Surr: DNOP	96.3	70-130		%Rec	1	9/11/2021 5:57:25 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	320	18		mg/Kg	5	9/13/2021 11:29:27 AM	G81229
Surr: BFB	386	70-130	S	%Rec	5	9/13/2021 11:29:27 AM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.091		mg/Kg	5	9/13/2021 11:29:27 AM	B81229
Toluene	1.6	0.18		mg/Kg	5	9/13/2021 11:29:27 AM	B81229
Ethylbenzene	0.74	0.18		mg/Kg	5	9/13/2021 11:29:27 AM	B81229
Xylenes, Total	5.9	0.37		mg/Kg	5	9/13/2021 11:29:27 AM	B81229
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	5	9/13/2021 11:29:27 AM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109584

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:15:00 AM

Lab ID: 2109584-002

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	9/13/2021 6:56:07 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	19	9.3		mg/Kg	1	9/11/2021 6:21:30 PM	62523
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/11/2021 6:21:30 PM	62523
Surr: DNOP	97.7	70-130		%Rec	1	9/11/2021 6:21:30 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	1200	37		mg/Kg	10	9/13/2021 11:53:02 AM	G81229
Surr: BFB	494	70-130	S	%Rec	10	9/13/2021 11:53:02 AM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.41	0.19		mg/Kg	10	9/13/2021 11:53:02 AM	B81229
Toluene	8.2	0.37		mg/Kg	10	9/13/2021 11:53:02 AM	B81229
Ethylbenzene	2.6	0.37		mg/Kg	10	9/13/2021 11:53:02 AM	B81229
Xylenes, Total	21	0.75		mg/Kg	10	9/13/2021 11:53:02 AM	B81229
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	10	9/13/2021 11:53:02 AM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109584

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:20:00 AM

Lab ID: 2109584-003

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	9/13/2021 7:08:32 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	11	8.8		mg/Kg	1	9/11/2021 6:45:35 PM	62523
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/11/2021 6:45:35 PM	62523
Surr: DNOP	96.2	70-130		%Rec	1	9/11/2021 6:45:35 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	560	16		mg/Kg	5	9/13/2021 12:16:35 PM	G81229
Surr: BFB	520	70-130	S	%Rec	5	9/13/2021 12:16:35 PM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.079		mg/Kg	5	9/13/2021 12:16:35 PM	B81229
Toluene	2.9	0.16		mg/Kg	5	9/13/2021 12:16:35 PM	B81229
Ethylbenzene	1.7	0.16		mg/Kg	5	9/13/2021 12:16:35 PM	B81229
Xylenes, Total	14	0.32		mg/Kg	5	9/13/2021 12:16:35 PM	B81229
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	5	9/13/2021 12:16:35 PM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109584

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:25:00 AM

Lab ID: 2109584-004

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/13/2021 7:20:56 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	9/11/2021 7:09:41 PM	62523
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/11/2021 7:09:41 PM	62523
Surr: DNOP	95.5	70-130		%Rec	1	9/11/2021 7:09:41 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	48	19		mg/Kg	5	9/13/2021 12:40:03 PM	G81229
Surr: BFB	147	70-130	S	%Rec	5	9/13/2021 12:40:03 PM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.096		mg/Kg	5	9/13/2021 12:40:03 PM	B81229
Toluene	ND	0.19		mg/Kg	5	9/13/2021 12:40:03 PM	B81229
Ethylbenzene	ND	0.19		mg/Kg	5	9/13/2021 12:40:03 PM	B81229
Xylenes, Total	1.2	0.38		mg/Kg	5	9/13/2021 12:40:03 PM	B81229
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	5	9/13/2021 12:40:03 PM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109584

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:30:00 AM

Lab ID: 2109584-005

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/13/2021 7:58:08 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/11/2021 7:33:44 PM	62523
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/11/2021 7:33:44 PM	62523
Surr: DNOP	97.3	70-130		%Rec	1	9/11/2021 7:33:44 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	78	17		mg/Kg	5	9/13/2021 1:03:40 PM	G81229
Surr: BFB	159	70-130	S	%Rec	5	9/13/2021 1:03:40 PM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.085		mg/Kg	5	9/13/2021 1:03:40 PM	B81229
Toluene	ND	0.17		mg/Kg	5	9/13/2021 1:03:40 PM	B81229
Ethylbenzene	ND	0.17		mg/Kg	5	9/13/2021 1:03:40 PM	B81229
Xylenes, Total	1.3	0.34		mg/Kg	5	9/13/2021 1:03:40 PM	B81229
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	5	9/13/2021 1:03:40 PM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109584

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-6

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:35:00 AM

Lab ID: 2109584-006

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/13/2021 8:10:33 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/11/2021 7:57:48 PM	62523
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/11/2021 7:57:48 PM	62523
Surr: DNOP	96.4	70-130		%Rec	1	9/11/2021 7:57:48 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/13/2021 1:27:19 PM	G81229
Surr: BFB	105	70-130		%Rec	1	9/13/2021 1:27:19 PM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	9/13/2021 1:27:19 PM	B81229
Toluene	ND	0.034		mg/Kg	1	9/13/2021 1:27:19 PM	B81229
Ethylbenzene	ND	0.034		mg/Kg	1	9/13/2021 1:27:19 PM	B81229
Xylenes, Total	ND	0.067		mg/Kg	1	9/13/2021 1:27:19 PM	B81229
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	9/13/2021 1:27:19 PM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109584

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-7

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:40:00 AM

Lab ID: 2109584-007

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/13/2021 8:22:57 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/11/2021 8:21:49 PM	62523
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/11/2021 8:21:49 PM	62523
Surr: DNOP	98.4	70-130		%Rec	1	9/11/2021 8:21:49 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/13/2021 2:14:48 PM	G81229
Surr: BFB	105	70-130		%Rec	1	9/13/2021 2:14:48 PM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.020		mg/Kg	1	9/13/2021 2:14:48 PM	B81229
Toluene	ND	0.039		mg/Kg	1	9/13/2021 2:14:48 PM	B81229
Ethylbenzene	ND	0.039		mg/Kg	1	9/13/2021 2:14:48 PM	B81229
Xylenes, Total	ND	0.079		mg/Kg	1	9/13/2021 2:14:48 PM	B81229
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	9/13/2021 2:14:48 PM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2109584

Date Reported: 9/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-8

Project: Trunk 6K 1

Collection Date: 9/10/2021 8:45:00 AM

Lab ID: 2109584-008

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	9/13/2021 8:35:22 AM	62526
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/11/2021 8:45:47 PM	62523
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/11/2021 8:45:47 PM	62523
Surr: DNOP	96.8	70-130		%Rec	1	9/11/2021 8:45:47 PM	62523
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/13/2021 2:38:29 PM	G81229
Surr: BFB	103	70-130		%Rec	1	9/13/2021 2:38:29 PM	G81229
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	9/13/2021 2:38:29 PM	B81229
Toluene	ND	0.034		mg/Kg	1	9/13/2021 2:38:29 PM	B81229
Ethylbenzene	ND	0.034		mg/Kg	1	9/13/2021 2:38:29 PM	B81229
Xylenes, Total	ND	0.068		mg/Kg	1	9/13/2021 2:38:29 PM	B81229
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	9/13/2021 2:38:29 PM	B81229

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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

WO#: 2109584

15-Sep-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>MB-62526</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62526</b>	RunNo: <b>81207</b>								
Prep Date: <b>9/13/2021</b>	Analysis Date: <b>9/13/2021</b>	SeqNo: <b>2868182</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-62526</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62526</b>	RunNo: <b>81207</b>								
Prep Date: <b>9/13/2021</b>	Analysis Date: <b>9/13/2021</b>	SeqNo: <b>2868183</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2109584

15-Sep-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>MB-62523</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62523</b>	RunNo: <b>81216</b>								
Prep Date: <b>9/11/2021</b>	Analysis Date: <b>9/11/2021</b>	SeqNo: <b>2867368</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.0	70	130			

Sample ID: <b>LCS-62523</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62523</b>	RunNo: <b>81216</b>								
Prep Date: <b>9/11/2021</b>	Analysis Date: <b>9/11/2021</b>	SeqNo: <b>2867369</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	68.9	135			
Surr: DNOP	4.4		5.000		88.6	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2109584

15-Sep-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>G81229</b>		RunNo: <b>81229</b>							
Prep Date:	Analysis Date: <b>9/13/2021</b>		SeqNo: <b>2868112</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>G81229</b>		RunNo: <b>81229</b>							
Prep Date:	Analysis Date: <b>9/13/2021</b>		SeqNo: <b>2868113</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	78.6	131			
Surr: BFB	1200		1000		118	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2109584

15-Sep-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>PBS</b>	Batch ID: <b>B81229</b>				RunNo: <b>81229</b>					
Prep Date:	Analysis Date: <b>9/13/2021</b>				SeqNo: <b>2868148</b>	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

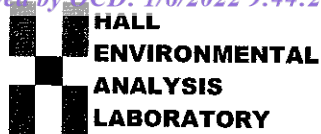
Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>B81229</b>				RunNo: <b>81229</b>					
Prep Date:	Analysis Date: <b>9/13/2021</b>				SeqNo: <b>2868153</b>	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

## Sample Log-In Check List

Client Name: **ENSOLUM**Work Order Number: **2109584**

RcptNo: 1

Received By: **Desiree Dominguez** 9/11/2021 8:50:00 AMCompleted By: **Desiree Dominguez** 9/11/2021 9:21:28 AMReviewed By: *AD 09/11/2021**AD**AD*

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

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

Adjusted?

Checked by: *DAD 9/11/21*

### Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Yes			

## Chain-of-Custody Record

Client: EnsoLum, LLCMailing Address: 100 S. Rio Grande Suite AAlbuquerque, NM 87102

Phone #:

email or Fax #: ks@mmseersolum.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 60K-1

Project #:

See notesProject Manager: K SummersSampler: R DechilloOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CP): 0.8-0.0-0.8 (°C)HEAL No: 2109584

Container Type and #

Preservative Type

HEAL No

1 x 4oz Jar Cool -001

1 x 4oz Jar Cool -002

1 x 4oz Jar Cool -003

1 x 4oz Jar Cool -004

1 x 4oz Jar Cool -005

1 x 4oz Jar Cool -006

1 x 4oz Jar Cool -007

1 x 4oz Jar Cool -008

Relinquished by: R DechilloDate: 9/10/21Time: 1328Relinquished by: Chris WaelderDate: 9/10/21Time: 1804Received by: Chris WaelderVia: LabelDate: 9/10/21Time: 1328Received by: Chris WaelderVia: CourierDate: 9/11/21Time: 8:50

## Analysis Request

BTEX / MTBE / TMBs (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<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride

Remarks:

SAME DAY

PM-Turn Long (EPR20)

Pay Key - R22200

Non AFE - N55007

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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

October 13, 2021

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 6K 1

OrderNo.: 2110514

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/9/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2110514

Date Reported: 10/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-9

Project: Trunk 6K 1

Collection Date: 10/8/2021 9:00:00 AM

Lab ID: 2110514-001

Matrix: MEOH (SOIL)

Received Date: 10/9/2021 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	10/10/2021 3:13:42 PM	63181
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	49	10		mg/Kg	1	10/9/2021 9:36:27 PM	63175
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2021 9:36:27 PM	63175
Surr: DNOP	86.7	70-130		%Rec	1	10/9/2021 9:36:27 PM	63175
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	1100	17		mg/Kg	5	10/9/2021 10:49:00 AM	G81915
Surr: BFB	434	70-130	S	%Rec	5	10/9/2021 10:49:00 AM	G81915
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	0.19	0.086		mg/Kg	5	10/9/2021 10:49:00 AM	R81915
Toluene	4.6	0.17		mg/Kg	5	10/9/2021 10:49:00 AM	R81915
Ethylbenzene	4.0	0.17		mg/Kg	5	10/9/2021 10:49:00 AM	R81915
Xylenes, Total	21	0.34		mg/Kg	5	10/9/2021 10:49:00 AM	R81915
Surr: 4-Bromofluorobenzene	137	70-130	S	%Rec	5	10/9/2021 10:49:00 AM	R81915

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2110514

Date Reported: 10/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-10

Project: Trunk 6K 1

Collection Date: 10/8/2021 9:05:00 AM

Lab ID: 2110514-002

Matrix: MEOH (SOIL)

Received Date: 10/9/2021 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	59		mg/Kg	20	10/10/2021 3:26:03 PM	63181
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/9/2021 9:49:28 PM	63175
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/9/2021 9:49:28 PM	63175
Surr: DNOP	85.0	70-130		%Rec	1	10/9/2021 9:49:28 PM	63175
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	10/9/2021 11:09:00 AM	G81915
Surr: BFB	112	70-130		%Rec	1	10/9/2021 11:09:00 AM	G81915
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.016		mg/Kg	1	10/9/2021 11:09:00 AM	R81915
Toluene	ND	0.032		mg/Kg	1	10/9/2021 11:09:00 AM	R81915
Ethylbenzene	ND	0.032		mg/Kg	1	10/9/2021 11:09:00 AM	R81915
Xylenes, Total	ND	0.065		mg/Kg	1	10/9/2021 11:09:00 AM	R81915
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	10/9/2021 11:09:00 AM	R81915

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2110514

Date Reported: 10/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-11

Project: Trunk 6K 1

Collection Date: 10/8/2021 9:10:00 AM

Lab ID: 2110514-003

Matrix: MEOH (SOIL)

Received Date: 10/9/2021 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	10/10/2021 3:38:25 PM	63181
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2021 10:02:33 PM	63175
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2021 10:02:33 PM	63175
Surr: DNOP	85.2	70-130		%Rec	1	10/9/2021 10:02:33 PM	63175
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	7.6	3.8		mg/Kg	1	10/9/2021 11:28:00 AM	G81915
Surr: BFB	121	70-130		%Rec	1	10/9/2021 11:28:00 AM	G81915
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.019		mg/Kg	1	10/9/2021 11:28:00 AM	R81915
Toluene	ND	0.038		mg/Kg	1	10/9/2021 11:28:00 AM	R81915
Ethylbenzene	ND	0.038		mg/Kg	1	10/9/2021 11:28:00 AM	R81915
Xylenes, Total	0.10	0.077		mg/Kg	1	10/9/2021 11:28:00 AM	R81915
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	10/9/2021 11:28:00 AM	R81915

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2110514

Date Reported: 10/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-12

Project: Trunk 6K 1

Collection Date: 10/8/2021 9:15:00 AM

Lab ID: 2110514-004

Matrix: MEOH (SOIL)

Received Date: 10/9/2021 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	160	60		mg/Kg	20	10/10/2021 3:50:47 PM	63181
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/9/2021 10:15:41 PM	63175
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/9/2021 10:15:41 PM	63175
Surr: DNOP	86.3	70-130		%Rec	1	10/9/2021 10:15:41 PM	63175
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	10/9/2021 11:48:00 AM	G81915
Surr: BFB	99.5	70-130		%Rec	1	10/9/2021 11:48:00 AM	G81915
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.020		mg/Kg	1	10/9/2021 11:48:00 AM	R81915
Toluene	ND	0.039		mg/Kg	1	10/9/2021 11:48:00 AM	R81915
Ethylbenzene	ND	0.039		mg/Kg	1	10/9/2021 11:48:00 AM	R81915
Xylenes, Total	ND	0.079		mg/Kg	1	10/9/2021 11:48:00 AM	R81915
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	10/9/2021 11:48:00 AM	R81915

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2110514

Date Reported: 10/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-13

Project: Trunk 6K 1

Collection Date: 10/8/2021 9:20:00 AM

Lab ID: 2110514-005

Matrix: MEOH (SOIL)

Received Date: 10/9/2021 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	10/10/2021 4:03:08 PM	63181
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	10/9/2021 10:28:49 PM	63175
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	10/9/2021 10:28:49 PM	63175
Surr: DNOP	83.5	70-130		%Rec	1	10/9/2021 10:28:49 PM	63175
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	37	3.4		mg/Kg	1	10/9/2021 12:07:00 PM	G81915
Surr: BFB	303	70-130	S	%Rec	1	10/9/2021 12:07:00 PM	G81915
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.017		mg/Kg	1	10/9/2021 12:07:00 PM	R81915
Toluene	ND	0.034		mg/Kg	1	10/9/2021 12:07:00 PM	R81915
Ethylbenzene	0.10	0.034		mg/Kg	1	10/9/2021 12:07:00 PM	R81915
Xylenes, Total	0.27	0.069		mg/Kg	1	10/9/2021 12:07:00 PM	R81915
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	10/9/2021 12:07:00 PM	R81915

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2110514

Date Reported: 10/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-14

Project: Trunk 6K 1

Collection Date: 10/8/2021 9:25:00 AM

Lab ID: 2110514-006

Matrix: MEOH (SOIL)

Received Date: 10/9/2021 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	10/10/2021 4:15:30 PM	63181
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	11	9.7		mg/Kg	1	10/9/2021 10:42:02 PM	63175
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2021 10:42:02 PM	63175
Surr: DNOP	83.4	70-130		%Rec	1	10/9/2021 10:42:02 PM	63175
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	46	3.8		mg/Kg	1	10/9/2021 12:27:00 PM	G81915
Surr: BFB	209	70-130	S	%Rec	1	10/9/2021 12:27:00 PM	G81915
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.019		mg/Kg	1	10/9/2021 12:27:00 PM	R81915
Toluene	0.068	0.038		mg/Kg	1	10/9/2021 12:27:00 PM	R81915
Ethylbenzene	0.14	0.038		mg/Kg	1	10/9/2021 12:27:00 PM	R81915
Xylenes, Total	0.50	0.076		mg/Kg	1	10/9/2021 12:27:00 PM	R81915
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	10/9/2021 12:27:00 PM	R81915

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2110514

Date Reported: 10/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-15

Project: Trunk 6K 1

Collection Date: 10/8/2021 9:30:00 AM

Lab ID: 2110514-007

Matrix: MEOH (SOIL)

Received Date: 10/9/2021 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	10/10/2021 4:27:52 PM	63181
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2021 10:55:09 PM	63175
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2021 10:55:09 PM	63175
Surr: DNOP	84.8	70-130		%Rec	1	10/9/2021 10:55:09 PM	63175
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	10/9/2021 12:47:00 PM	G81915
Surr: BFB	94.1	70-130		%Rec	1	10/9/2021 12:47:00 PM	G81915
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.014		mg/Kg	1	10/9/2021 12:47:00 PM	R81915
Toluene	ND	0.029		mg/Kg	1	10/9/2021 12:47:00 PM	R81915
Ethylbenzene	ND	0.029		mg/Kg	1	10/9/2021 12:47:00 PM	R81915
Xylenes, Total	ND	0.058		mg/Kg	1	10/9/2021 12:47:00 PM	R81915
Surr: 4-Bromofluorobenzene	77.9	70-130		%Rec	1	10/9/2021 12:47:00 PM	R81915

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 11

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2110514  
13-Oct-21

Client: ENSOLUM  
Project: Trunk 6K 1

Sample ID: MB-63181	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 63181	RunNo: 81928
Prep Date: 10/10/2021	Analysis Date: 10/10/2021	SeqNo: 2899760 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-63181	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 63181	RunNo: 81928
Prep Date: 10/10/2021	Analysis Date: 10/10/2021	SeqNo: 2899761 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 Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



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

WO#: 2110514

13-Oct-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>MB-63175</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63175</b>	RunNo: <b>81929</b>								
Prep Date: <b>10/9/2021</b>	Analysis Date: <b>10/9/2021</b>	SeqNo: <b>2899833</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.9	70	130			

Sample ID: <b>LCS-63175</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63175</b>	RunNo: <b>81929</b>								
Prep Date: <b>10/9/2021</b>	Analysis Date: <b>10/9/2021</b>	SeqNo: <b>2899836</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.3	68.9	135			
Surr: DNOP	4.5		5.000		89.2	70	130			

Sample ID: <b>2110514-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-9</b>	Batch ID: <b>63175</b>	RunNo: <b>81929</b>								
Prep Date: <b>10/9/2021</b>	Analysis Date: <b>10/9/2021</b>	SeqNo: <b>2899883</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	85	9.2	45.87	48.60	78.9	39.3	155			
Surr: DNOP	4.1		4.587		89.3	70	130			

Sample ID: <b>2110514-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-9</b>	Batch ID: <b>63175</b>	RunNo: <b>81929</b>								
Prep Date: <b>10/9/2021</b>	Analysis Date: <b>10/9/2021</b>	SeqNo: <b>2899884</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	90	9.4	46.86	48.60	88.9	39.3	155	6.28	23.4	
Surr: DNOP	4.2		4.686		90.0	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2110514

13-Oct-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: 2110514-001ams		SampType: MS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: S-9		Batch ID: G81915			RunNo: 81915					
Prep Date:		Analysis Date: 10/9/2021			SeqNo: 2898688		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1100	17	17.12	1111	118	61.3	114			S
Surr: BFB	13000		3424		391	70	130			S

Sample ID: 2110514-001amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: S-9		Batch ID: G81915			RunNo: 81915					
Prep Date:		Analysis Date: 10/9/2021			SeqNo: 2898689		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1100	17	17.12	1111	91.8	61.3	114	0.394	20	
Surr: BFB	14000		3424		416	70	130	0	0	S

Sample ID: <b>mb-water</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>		Batch ID: <b>R81915</b>		RunNo: <b>81915</b>						
Prep Date:		Analysis Date: <b>10/9/2021</b>		SeqNo: <b>2902438</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	70	130			

Sample ID: 2.5ug gro lcs		SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS		Batch ID: R81915			RunNo: 81915					
Prep Date:		Analysis Date: 10/9/2021			SeqNo: 2902439		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1300		1000		128	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2110514

13-Oct-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>2110514-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S-10</b>	Batch ID: <b>R81915</b>	RunNo: <b>81915</b>								
Prep Date:	Analysis Date: <b>10/9/2021</b>	SeqNo: <b>2899546</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.86	0.050	1.000	0	85.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.0	80	120			
Surr: 4-Bromofluorobenzene	0.77		1.000		76.7	70	130			

Sample ID: <b>2110514-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S-10</b>	Batch ID: <b>R81915</b>	RunNo: <b>81915</b>								
Prep Date:	Analysis Date: <b>10/9/2021</b>	SeqNo: <b>2899549</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.8	80	120	0.531	20	
Toluene	0.89	0.050	1.000	0	88.6	80	120	3.08	20	
Ethylbenzene	0.87	0.050	1.000	0	87.4	80	120	4.43	20	
Xylenes, Total	2.7	0.10	3.000	0	88.4	80	120	0.661	20	
Surr: 4-Bromofluorobenzene	0.74		1.000		74.5	70	130	0	0	

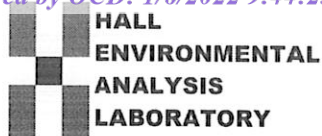
Sample ID: <b>mb-water</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R81915</b>	RunNo: <b>81915</b>								
Prep Date:	Analysis Date: <b>10/9/2021</b>	SeqNo: <b>2902440</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R81915</b>	RunNo: <b>81915</b>								
Prep Date:	Analysis Date: <b>10/9/2021</b>	SeqNo: <b>2902441</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.4	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



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

## Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2110514

RcptNo: 1

Received By: Isaiah Ortiz

10/9/2021 8:00:00 AM

I-Ox

Completed By: Isaiah Ortiz

10/9/2021 8:40:09 AM

I-Ox

Reviewed By:

① 10/09/2021

Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

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

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

Checked by: \_\_\_\_\_

Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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

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

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

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

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

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

October 18, 2021

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

RE: Lateral Trunk 6K

OrderNo.: 2110603

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/13/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2110603

Date Reported: 10/18/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-16

Project: Lateral Trunk 6K

Collection Date: 10/12/2021 1:30:00 PM

Lab ID: 2110603-001

Matrix: MEOH (SOIL)

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/13/2021 10:05:33 AM	63261
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/13/2021 10:28:07 AM	63260
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/13/2021 10:28:07 AM	63260
Surr: DNOP	83.2	70-130		%Rec	1	10/13/2021 10:28:07 AM	63260
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/13/2021 10:52:16 AM	G82011
Surr: BFB	100	70-130		%Rec	1	10/13/2021 10:52:16 AM	G82011
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	10/13/2021 10:52:16 AM	R82011
Toluene	ND	0.035		mg/Kg	1	10/13/2021 10:52:16 AM	R82011
Ethylbenzene	ND	0.035		mg/Kg	1	10/13/2021 10:52:16 AM	R82011
Xylenes, Total	ND	0.069		mg/Kg	1	10/13/2021 10:52:16 AM	R82011
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	10/13/2021 10:52:16 AM	R82011

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2110603

Date Reported: 10/18/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-17

Project: Lateral Trunk 6K

Collection Date: 10/12/2021 1:40:00 PM

Lab ID: 2110603-002

Matrix: MEOH (SOIL)

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/13/2021 10:17:58 AM	63261
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	17	10		mg/Kg	1	10/13/2021 10:39:58 AM	63260
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/13/2021 10:39:58 AM	63260
Surr: DNOP	83.6	70-130		%Rec	1	10/13/2021 10:39:58 AM	63260
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/13/2021 11:15:51 AM	G82011
Surr: BFB	103	70-130		%Rec	1	10/13/2021 11:15:51 AM	G82011
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	10/13/2021 11:15:51 AM	R82011
Toluene	ND	0.037		mg/Kg	1	10/13/2021 11:15:51 AM	R82011
Ethylbenzene	ND	0.037		mg/Kg	1	10/13/2021 11:15:51 AM	R82011
Xylenes, Total	ND	0.073		mg/Kg	1	10/13/2021 11:15:51 AM	R82011
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	10/13/2021 11:15:51 AM	R82011

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2110603

Date Reported: 10/18/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-18

Project: Lateral Trunk 6K

Collection Date: 10/12/2021 1:50:00 PM

Lab ID: 2110603-003

Matrix: MEOH (SOIL)

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/13/2021 10:30:22 AM	63261
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/13/2021 10:52:20 AM	63260
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/13/2021 10:52:20 AM	63260
Surr: DNOP	85.4	70-130		%Rec	1	10/13/2021 10:52:20 AM	63260
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/13/2021 11:39:29 AM	G82011
Surr: BFB	102	70-130		%Rec	1	10/13/2021 11:39:29 AM	G82011
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	10/13/2021 11:39:29 AM	R82011
Toluene	ND	0.036		mg/Kg	1	10/13/2021 11:39:29 AM	R82011
Ethylbenzene	ND	0.036		mg/Kg	1	10/13/2021 11:39:29 AM	R82011
Xylenes, Total	ND	0.073		mg/Kg	1	10/13/2021 11:39:29 AM	R82011
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	10/13/2021 11:39:29 AM	R82011

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2110603

Date Reported: 10/18/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-19

Project: Lateral Trunk 6K

Collection Date: 10/12/2021 2:00:00 PM

Lab ID: 2110603-004

Matrix: MEOH (SOIL)

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/13/2021 10:42:46 AM	63261
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	44	9.6		mg/Kg	1	10/13/2021 11:04:23 AM	63260
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/13/2021 11:04:23 AM	63260
Surr: DNOP	98.6	70-130		%Rec	1	10/13/2021 11:04:23 AM	63260
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	1500	180		mg/Kg	50	10/13/2021 12:50:14 PM	G82011
Surr: BFB	186	70-130	S	%Rec	50	10/13/2021 12:50:14 PM	G82011
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.47	0.091		mg/Kg	5	10/13/2021 12:03:04 PM	R82011
Toluene	10	0.18		mg/Kg	5	10/13/2021 12:03:04 PM	R82011
Ethylbenzene	3.3	0.18		mg/Kg	5	10/13/2021 12:03:04 PM	R82011
Xylenes, Total	26	0.36		mg/Kg	5	10/13/2021 12:03:04 PM	R82011
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	5	10/13/2021 12:03:04 PM	R82011

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2110603

Date Reported: 10/18/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-20

Project: Lateral Trunk 6K

Collection Date: 10/12/2021 2:10:00 PM

Lab ID: 2110603-005

Matrix: MEOH (SOIL)

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/13/2021 10:55:10 AM	63261
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/13/2021 11:16:34 AM	63260
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/13/2021 11:16:34 AM	63260
Surr: DNOP	87.6	70-130		%Rec	1	10/13/2021 11:16:34 AM	63260
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/15/2021 9:06:29 AM	G82011
Surr: BFB	109	70-130		%Rec	1	10/15/2021 9:06:29 AM	G82011
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	10/13/2021 12:26:35 PM	R82011
Toluene	ND	0.036		mg/Kg	1	10/13/2021 12:26:35 PM	R82011
Ethylbenzene	ND	0.036		mg/Kg	1	10/13/2021 12:26:35 PM	R82011
Xylenes, Total	ND	0.072		mg/Kg	1	10/13/2021 12:26:35 PM	R82011
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	10/13/2021 12:26:35 PM	R82011

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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

WO#: 2110603

18-Oct-21

**Client:** ENSOLUM**Project:** Lateral Trunk 6K

Sample ID: <b>MB-63261</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63261</b>	RunNo: <b>81995</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2904588</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-63261</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63261</b>	RunNo: <b>81995</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2904589</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2110603

18-Oct-21

**Client:** ENSOLUM**Project:** Lateral Trunk 6K

Sample ID: <b>2110603-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-16</b>	Batch ID: <b>63260</b>	RunNo: <b>82006</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2903897</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.7	48.36	0	91.0	39.3	155			
Surr: DNOP	4.6		4.836		94.6	70	130			

Sample ID: <b>2110603-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-16</b>	Batch ID: <b>63260</b>	RunNo: <b>82006</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2903898</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.8	49.16	0	87.9	39.3	155	1.79	23.4	
Surr: DNOP	4.6		4.916		93.4	70	130	0	0	

Sample ID: <b>LCS-63260</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63260</b>	RunNo: <b>82006</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2903903</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.0	68.9	135			
Surr: DNOP	4.5		5.000		89.7	70	130			

Sample ID: <b>MB-63260</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63260</b>	RunNo: <b>82006</b>								
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2903904</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		86.6	70	130			

Sample ID: <b>MB-63232</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63232</b>	RunNo: <b>82006</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2905873</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	70	130			

Sample ID: <b>LCS-63232</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63232</b>	RunNo: <b>82006</b>								
Prep Date: <b>10/12/2021</b>	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2905880</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2110603  
18-Oct-21

Client: ENSOLUM  
Project: Lateral Trunk 6K

Sample ID: LCS-63232	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63232	RunNo: 82006								
Prep Date: 10/12/2021	Analysis Date: 10/13/2021	SeqNo: 2905880		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		112	70	130			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2110603

18-Oct-21

**Client:** ENSOLUM**Project:** Lateral Trunk 6K

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>G82011</b>		RunNo: <b>82011</b>							
Prep Date:	Analysis Date: <b>10/13/2021</b>		SeqNo: <b>2904417</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>G82011</b>		RunNo: <b>82011</b>							
Prep Date:	Analysis Date: <b>10/13/2021</b>		SeqNo: <b>2904418</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: <b>2110603-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-16</b>	Batch ID: <b>G82011</b>		RunNo: <b>82011</b>							
Prep Date:	Analysis Date: <b>10/13/2021</b>		SeqNo: <b>2904425</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.5	17.29	0	106	61.3	114			
Surr: BFB	770		691.6		111	70	130			

Sample ID: <b>2110603-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-16</b>	Batch ID: <b>G82011</b>		RunNo: <b>82011</b>							
Prep Date:	Analysis Date: <b>10/13/2021</b>		SeqNo: <b>2904426</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.5	17.29	0	105	61.3	114	0.266	20	
Surr: BFB	770		691.6		111	70	130	0	0	

Sample ID: <b>mb-63278</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>63278</b>		RunNo: <b>82076</b>							
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/15/2021</b>		SeqNo: <b>2908287</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	70	130			

Sample ID: <b>lcs-63278</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>63278</b>		RunNo: <b>82076</b>							
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/15/2021</b>		SeqNo: <b>2908288</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		113	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2110603

18-Oct-21

**Client:** ENSOLUM**Project:** Lateral Trunk 6K

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R82011</b>	RunNo: <b>82011</b>								
Prep Date:	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2904485</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.83		1.000		83.1	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R82011</b>	RunNo: <b>82011</b>								
Prep Date:	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2904500</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.97	0.050	1.000	0	97.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.6	70	130			

Sample ID: <b>2110603-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S-17</b>	Batch ID: <b>R82011</b>	RunNo: <b>82011</b>								
Prep Date:	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2904552</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.018	0.7315	0	92.6	80	120			
Toluene	0.71	0.037	0.7315	0	97.0	80	120			
Ethylbenzene	0.70	0.037	0.7315	0	95.5	80	120			
Xylenes, Total	2.1	0.073	2.194	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	0.63		0.7315		85.7	70	130			

Sample ID: <b>2110603-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S-17</b>	Batch ID: <b>R82011</b>	RunNo: <b>82011</b>								
Prep Date:	Analysis Date: <b>10/13/2021</b>	SeqNo: <b>2904557</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.018	0.7315	0	95.4	80	120	2.87	20	
Toluene	0.72	0.037	0.7315	0	98.8	80	120	1.76	20	
Ethylbenzene	0.71	0.037	0.7315	0	97.3	80	120	1.89	20	
Xylenes, Total	2.1	0.073	2.194	0	95.6	80	120	1.61	20	
Surr: 4-Bromofluorobenzene	0.63		0.7315		86.7	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2110603

18-Oct-21

Client: ENSOLUM

Project: Lateral Trunk 6K

Sample ID: <b>mb-63278</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>PBS</b>	Batch ID: <b>63278</b>				RunNo: <b>82076</b>					
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/15/2021</b>				SeqNo: <b>2908369</b>	Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

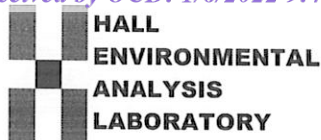
Sample ID: <b>LCS-63278</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>63278</b>				RunNo: <b>82076</b>					
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/15/2021</b>				SeqNo: <b>2908370</b>	Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.9	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

## Sample Log-In Check List

Client Name: **ENSOLUM**Work Order Number: **2110603**RcptNo: **1**Received By: **Cheyenne Cason**

10/13/2021 7:20:00 AM

*CC*Completed By: **Desiree Dominguez**

10/13/2021 8:24:06 AM

*DD*Reviewed By: **KPG 10/13/21**

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *jc 10/13/21*

### Special Handling (if applicable)

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

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

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

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

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

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

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			

## Chain-of-Custody Record

Client: Ensolam, LLC

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

Phone #: \_\_\_\_\_

email or Fax#: KSummers@ensolam.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: Lateral Trunk 6K

Project #: See Notes

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: ( ) \_\_\_\_\_

Cooler Temp (including CF): 3, 2-0.1 ± 3.1 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10/12/21	13:30	S	S-16	14oz jar	cool	-001
10/12/21	13:40	S	S-17	14oz jar	cool	-002
10/12/21	13:50	S	S-18	14oz jar	cool	-003
10/12/21	14:00	S	S-19	14oz jar	cool	-004
10/12/21	14:10	S	S-20	14oz jar	cool	-005

Date: 10/12/21 Time: 1522

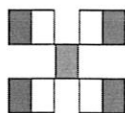
Date: 10/12/21 Time: 1756

Relinquished by: [Signature]

Relinquished by: [Signature]

Received by: Chad Date: 10/12/21 Time: 1522

Received by: Core Carr Date: 10/13/21 Time: 0726



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

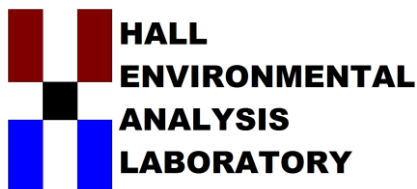
BTX / MTBE / TMB's (8021)	TPH: 8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			

Remarks:

PM Tom Long  
 Non AFE: N55007  
 Pay Key: R521200

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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

October 19, 2021

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 6K 1

OrderNo.: 2110779

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2110779

Date Reported: 10/19/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-21

Project: Trunk 6K 1

Collection Date: 10/15/2021 11:00:00 AM

Lab ID: 2110779-001

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	10/18/2021 9:32:55 AM	63346
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/18/2021 11:07:06 AM	63343
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/18/2021 11:07:06 AM	63343
Surr: DNOP	99.4	70-130		%Rec	1	10/18/2021 11:07:06 AM	63343
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	10/18/2021 8:54:18 AM	G82119
Surr: BFB	110	70-130		%Rec	1	10/18/2021 8:54:18 AM	G82119
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.021		mg/Kg	1	10/18/2021 8:54:18 AM	B82119
Toluene	ND	0.043		mg/Kg	1	10/18/2021 8:54:18 AM	B82119
Ethylbenzene	ND	0.043		mg/Kg	1	10/18/2021 8:54:18 AM	B82119
Xylenes, Total	ND	0.085		mg/Kg	1	10/18/2021 8:54:18 AM	B82119
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	10/18/2021 8:54:18 AM	B82119

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 10

## Analytical Report

Lab Order 2110779

Date Reported: 10/19/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-22

Project: Trunk 6K 1

Collection Date: 10/15/2021 11:05:00 AM

Lab ID: 2110779-002

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/18/2021 9:45:19 AM	63346
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/18/2021 11:17:48 AM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 11:17:48 AM	63343
Surr: DNOP	95.1	70-130		%Rec	1	10/18/2021 11:17:48 AM	63343
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	10/18/2021 9:17:52 AM	G82119
Surr: BFB	110	70-130		%Rec	1	10/18/2021 9:17:52 AM	G82119
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	10/18/2021 9:17:52 AM	B82119
Toluene	ND	0.034		mg/Kg	1	10/18/2021 9:17:52 AM	B82119
Ethylbenzene	ND	0.034		mg/Kg	1	10/18/2021 9:17:52 AM	B82119
Xylenes, Total	ND	0.069		mg/Kg	1	10/18/2021 9:17:52 AM	B82119
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	10/18/2021 9:17:52 AM	B82119

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2110779

Date Reported: 10/19/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-23

Project: Trunk 6K 1

Collection Date: 10/15/2021 11:10:00 AM

Lab ID: 2110779-003

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/18/2021 9:57:43 AM	63346
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/18/2021 11:28:29 AM	63343
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2021 11:28:29 AM	63343
Surr: DNOP	83.1	70-130		%Rec	1	10/18/2021 11:28:29 AM	63343
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	10/18/2021 9:41:22 AM	G82119
Surr: BFB	112	70-130		%Rec	1	10/18/2021 9:41:22 AM	G82119
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.019		mg/Kg	1	10/18/2021 9:41:22 AM	B82119
Toluene	ND	0.038		mg/Kg	1	10/18/2021 9:41:22 AM	B82119
Ethylbenzene	ND	0.038		mg/Kg	1	10/18/2021 9:41:22 AM	B82119
Xylenes, Total	ND	0.076		mg/Kg	1	10/18/2021 9:41:22 AM	B82119
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	10/18/2021 9:41:22 AM	B82119

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2110779

Date Reported: 10/19/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-24

Project: Trunk 6K 1

Collection Date: 10/15/2021 11:15:00 AM

Lab ID: 2110779-004

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	10/18/2021 10:10:09 AM	63346
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/18/2021 11:39:14 AM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 11:39:14 AM	63343
Surr: DNOP	94.1	70-130		%Rec	1	10/18/2021 11:39:14 AM	63343
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/18/2021 10:04:57 AM	G82119
Surr: BFB	110	70-130		%Rec	1	10/18/2021 10:04:57 AM	G82119
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	10/18/2021 10:04:57 AM	B82119
Toluene	ND	0.037		mg/Kg	1	10/18/2021 10:04:57 AM	B82119
Ethylbenzene	ND	0.037		mg/Kg	1	10/18/2021 10:04:57 AM	B82119
Xylenes, Total	ND	0.073		mg/Kg	1	10/18/2021 10:04:57 AM	B82119
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	10/18/2021 10:04:57 AM	B82119

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 10



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

WO#: 2110779

19-Oct-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>MB-63346</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63346</b>	RunNo: <b>82117</b>								
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2909812</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-63346</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63346</b>	RunNo: <b>82117</b>								
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2909813</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2110779

19-Oct-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>LCS-63343</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>63343</b>			RunNo: <b>82125</b>						
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>			SeqNo: <b>2909300</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	68.9	135			
Surr: DNOP	4.5		5.000		90.8	70	130			

Sample ID: <b>MB-63343</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>63343</b>			RunNo: <b>82125</b>						
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>			SeqNo: <b>2909301</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		80.3	70	130			

Sample ID: <b>2110779-001AMS</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>S-21</b>	Batch ID: <b>63343</b>			RunNo: <b>82125</b>						
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>			SeqNo: <b>2909587</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.7	48.59	0	113	39.3	155			
Surr: DNOP	4.3		4.859		88.5	70	130			

Sample ID: <b>2110779-001AMSD</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>S-21</b>	Batch ID: <b>63343</b>			RunNo: <b>82125</b>						
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>			SeqNo: <b>2909588</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.5	47.53	0	119	39.3	155	3.30	23.4	
Surr: DNOP	4.5		4.753		94.6	70	130	0	0	

Sample ID: <b>LCS-63353</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>63353</b>			RunNo: <b>82125</b>						
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>			SeqNo: <b>2910288</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		103	70	130			

Sample ID: <b>MB-63353</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>63353</b>			RunNo: <b>82125</b>						
Prep Date: <b>10/18/2021</b>	Analysis Date: <b>10/18/2021</b>			SeqNo: <b>2910289</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 6 of 10

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2110779  
19-Oct-21

Client: ENSOLUM  
Project: Trunk 6K 1

Sample ID: MB-63353	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63353	RunNo: 82125								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2910289		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		85.9	70	130			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2110779

19-Oct-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>G82119</b>		RunNo: <b>82119</b>							
Prep Date:	Analysis Date: <b>10/18/2021</b>		SeqNo: <b>2909616</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		111	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>G82119</b>		RunNo: <b>82119</b>							
Prep Date:	Analysis Date: <b>10/18/2021</b>		SeqNo: <b>2909617</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	78.6	131			
Surr: BFB	1200		1000		120	70	130			

Sample ID: <b>2110779-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-21</b>	Batch ID: <b>G82119</b>		RunNo: <b>82119</b>							
Prep Date:	Analysis Date: <b>10/18/2021</b>		SeqNo: <b>2909637</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.3	21.30	0	111	61.3	114			
Surr: BFB	1000		851.8		123	70	130			

Sample ID: <b>2110779-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-21</b>	Batch ID: <b>G82119</b>		RunNo: <b>82119</b>							
Prep Date:	Analysis Date: <b>10/18/2021</b>		SeqNo: <b>2909638</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.3	21.30	0	119	61.3	114	7.59	20	S
Surr: BFB	1000		851.8		120	70	130	0	0	

Sample ID: <b>mb-63285</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>63285</b>		RunNo: <b>82119</b>							
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/19/2021</b>		SeqNo: <b>2909641</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	70	130			

Sample ID: <b>lcs-63285</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>63285</b>		RunNo: <b>82119</b>							
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/18/2021</b>		SeqNo: <b>2909642</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		125	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2110779

19-Oct-21

**Client:** ENSOLUM**Project:** Trunk 6K 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>B82119</b>	RunNo: <b>82119</b>								
Prep Date:	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2909665</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>B82119</b>	RunNo: <b>82119</b>								
Prep Date:	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2909666</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.8	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.5	70	130			

Sample ID: <b>2110779-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S-22</b>	Batch ID: <b>B82119</b>	RunNo: <b>82119</b>								
Prep Date:	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2909686</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.60	0.017	0.6892	0	87.6	80	120			
Toluene	0.62	0.034	0.6892	0	89.9	80	120			
Ethylbenzene	0.61	0.034	0.6892	0	88.1	80	120			
Xylenes, Total	1.8	0.069	2.068	0	86.0	80	120			
Surr: 4-Bromofluorobenzene	0.62		0.6892		90.5	70	130			

Sample ID: <b>2110779-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S-22</b>	Batch ID: <b>B82119</b>	RunNo: <b>82119</b>								
Prep Date:	Analysis Date: <b>10/18/2021</b>	SeqNo: <b>2909687</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.017	0.6892	0	116	80	120	28.2	20	R
Toluene	0.82	0.034	0.6892	0	119	80	120	27.9	20	R
Ethylbenzene	0.80	0.034	0.6892	0	117	80	120	28.0	20	R
Xylenes, Total	2.4	0.069	2.068	0	115	80	120	28.5	20	R
Surr: 4-Bromofluorobenzene	0.66		0.6892		95.3	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2110779

19-Oct-21

Client: ENSOLUM

Project: Trunk 6K 1

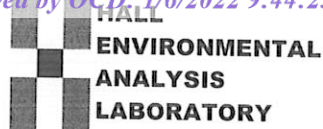
Sample ID: <b>mb-63285</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>PBS</b>	Batch ID: <b>63285</b>				RunNo: <b>82119</b>					
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/19/2021</b>				SeqNo: <b>2909690</b>	Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			

Sample ID: <b>LCS-63285</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>63285</b>				RunNo: <b>82119</b>					
Prep Date: <b>10/13/2021</b>	Analysis Date: <b>10/18/2021</b>				SeqNo: <b>2909691</b>	Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



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

## Sample Log-In Check List

Client Name: **ENSOLUM**Work Order Number: **2110779**RcptNo: **1**Received By: **Cheyenne Cason** 10/16/2021 7:50:00 AMCompleted By: **Cheyenne Cason** 10/16/2021 8:08:07 AMReviewed By: *CP 10/16/2021**CC**CC*

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *CC 10/16/21*

### Special Handling (if applicable)

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

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

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

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

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

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

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			



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

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

CONDITIONS  
  
Action 70822

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 70822
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/13/2022