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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **241602**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)* **nAPP2214553570**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.57710** Longitude **-108.16753** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Lateral 6B-5**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **05/22/2022**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
G	**13**	**27N**	**13W**	**San Juan**

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **3-5 BBLS**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **416 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On May 22, 2022, Enterprise had a release of natural gas and natural gas liquids from the Lateral 6B-5 pipeline. The pipeline was isolated, depressurized, locked and tagged out. The release was a result of the pipeline being stuck by a third party transporting a bulldozer. No washes were affected. No fire nor injuries occurred. The local fire department responded and evacuated the nearby residences. Enterprise completed remediation on June 13, 2022. The final primary excavation dimensions measured approximately 20 feet long by 10 feet wide by 10 feet deep. The overspray excavation dimensions measured approximately 75 feet long by 34 feet wide by 10 inches deep. A total of 164 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

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

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

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature: Thomas Long Date: 08-05-2022

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: _____

Printed Name: _____ Title: _____

ENSOLUM

CLOSURE REPORT

Property:

Lateral 6B-5 (05/22/22)
Unit Letter G, S13 T27N R13W
San Juan County, New Mexico

NM EMNRD OCD Incident ID No. NAPP2214553570

August 3, 2022
Ensolum Project No. 05A1226193

Prepared for:

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

Prepared by:

Ranee Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 6B-5 (05/22/22) (Site)
NM EMNRD OCD Incident ID No.	NAPP2214553570
Location:	36.57711° North, 108.16753° West Unit Letter G, Section 13, Township 27 North, Range 13 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On May 22, 2022, Enterprise was notified by a third party that a line strike had occurred on the Lateral 6B-5 pipeline. Enterprise personnel subsequently isolated and locked the pipeline out of service. On June 1, 2022, Enterprise initiated activities to repair the pipeline and remediate potential 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 NNEPA and the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site, and no PODs were identified in the adjacent PLSS sections (**Figure A**, **Appendix B**).

- No cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site, and no CPWs were identified in the adjacent PLSS sections **Figure B** (**Appendix B**).
- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).
- No springs, or private domestic 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 (**Figure E**, **Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on the identified siting criteria, Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. Neither petroleum hydrocarbon nor chloride impact was encountered below four feet bgs, resulting in the following closure criteria:

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On June 1, 2022, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the pipeline release. During the remediation and corrective action activities, West States Energy Contractors, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final primary excavation measured approximately 20 feet long and 10 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 3.5 feet bgs. The overspray excavation measured approximately 75 feet long and 34 feet wide at the maximum extents, with a maximum depth of approximately 10 inches. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand.

Approximately 164 cubic yards (yd^3) of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soils and was subsequently contoured to the surrounding topography.

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

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of five composite soil samples (S-1 through S-5) from the primary excavation and 20 composite soil samples (OS-1 through OS-20) from the overspray excavation for laboratory analysis. In addition, one composite soil sample (SP-1) was collected from the stockpiled soils 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^2) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event
On June 3, 2022, the first sampling event was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample S-1 (3.5') was collected from the floor of the primary excavation. Composites soil samples S-2 (0'-3.5'), S-3 (0'-3.5'), S-4 (0'-3.5'), and S-5 (0'-3.5') were collected from the sloped walls of the excavation. Composite soil sample SP-1 was collected from a segregated portion of the stockpiled soil to demonstrate that the soil did not exhibit COC impact and that it was suitable for use as backfill. Additionally, composite soil samples OS-1 through OS-13, all with depths of 4 inches, were collected from the excavated overspray area. Subsequent soil analytical results identified TPH and chloride concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil samples OS-1, OS-2, OS-3, OS-5, OS-10, OS-12, and OS-13. In response to the exceedances the overspray area was further excavated. Impacted soil associated with samples OS-1, OS-2, OS-3, OS-5, OS-10, OS-12, and OS-13 was removed by excavation and transported to the landfarm for disposal/remediation.

Second Sampling Event
On June 13, 2022, the second sampling event was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite

samples OS-14 through OS-20, all with depths of 10 inches, were collected from the excavated overspray area to replace samples OS-1, OS-2, OS-3, OS-5, OS-10, OS-12, and OS-13.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method #8021; TPH GRO/DRO/MRO using EPA SW-846 Method #8015; and chlorides using EPA Method #300.0. Soil samples OS-14 through OS-18 were not analyzed for BTEX or TPH GRO/DRO/MRO because there were no exceedances of those analytes in the samples they were replacing. Similarly, soil samples OS-19 and OS-20 were not analyzed for BTEX because there were no BTEX exceedances in the samples they were replacing.

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

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-5, SP-1, OS-4, OS-6 through OS-9, OS-11, and OS-14 through OS-20) to the applicable NM EMNRD OCD closure criteria. The soils associated with composite soil samples OS-1, OS-2, OS-3, OS-5, OS-10, OS-12, and OS-13 were removed from the Site, and therefore are not included in the following discussion.

- The laboratory analytical results for all 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 criteria of 10 mg/kg.

- The laboratory analytical results for all composite soil samples indicate that total BTEX is not present in 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 all composite soil samples indicate combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg,

- The laboratory analytical results for composite soil samples OS-6, OS-8, OS-9, OS-11, OS-14, OS-15, and OS-18 through OS-20 indicate chloride concentrations ranging from 64 mg/kg (OS-18) to 550 mg/kg (OS-20), which are less than the applicable NM EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for the other composite soil samples representing soils remaining at the site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soil and was then contoured to surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- Twenty-six 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 164 yd^3 of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soils and was subsequently contoured to the surrounding topography.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

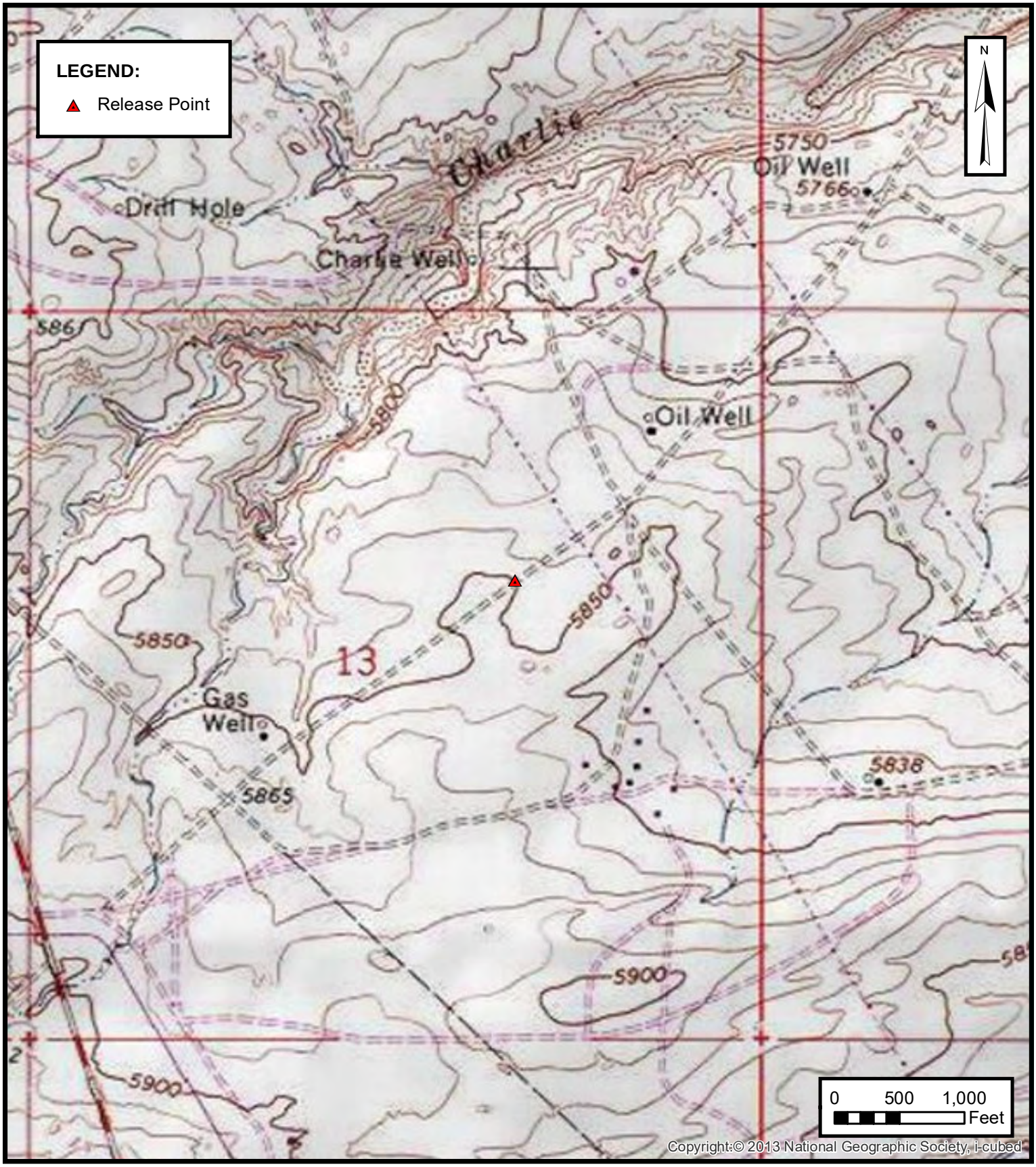
9.3 Reliance

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

ENSOLUM

APPENDIX A

Figures



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Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE

1

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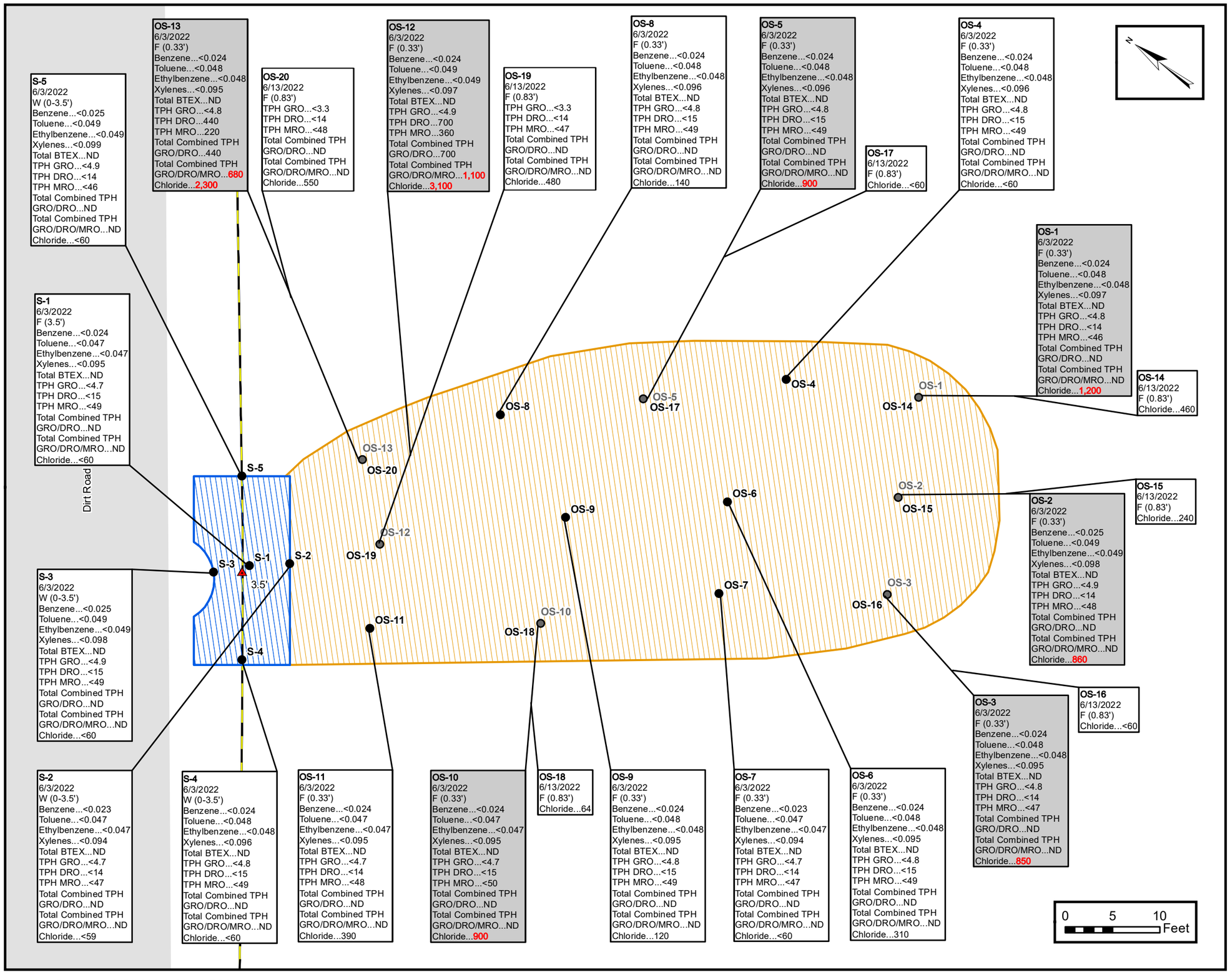
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE
2



LEGEND:

- Release Point
- Composite Soil Sample Location
- Composite Soil Samples Removed by Excavation
- Extent of Pipeline Excavation
- Extent of Overspray Excavation
- Approximate Lateral 6B-5 Pipeline Location

NOTES:
F - Floor Sample
W - Wall Sample
All Concentrations Are in mg/Kg.
All Depths Are Listed in Feet BGS.
Analytical callouts in gray denote sampling location removed by excavation.
Concentrations in **red** exceed the applicable NM EMNRD OCD Closure Criteria.

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SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)

Unit G, Sec 13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

FIGURE
3

PROJECT NUMBER: 05A1226193

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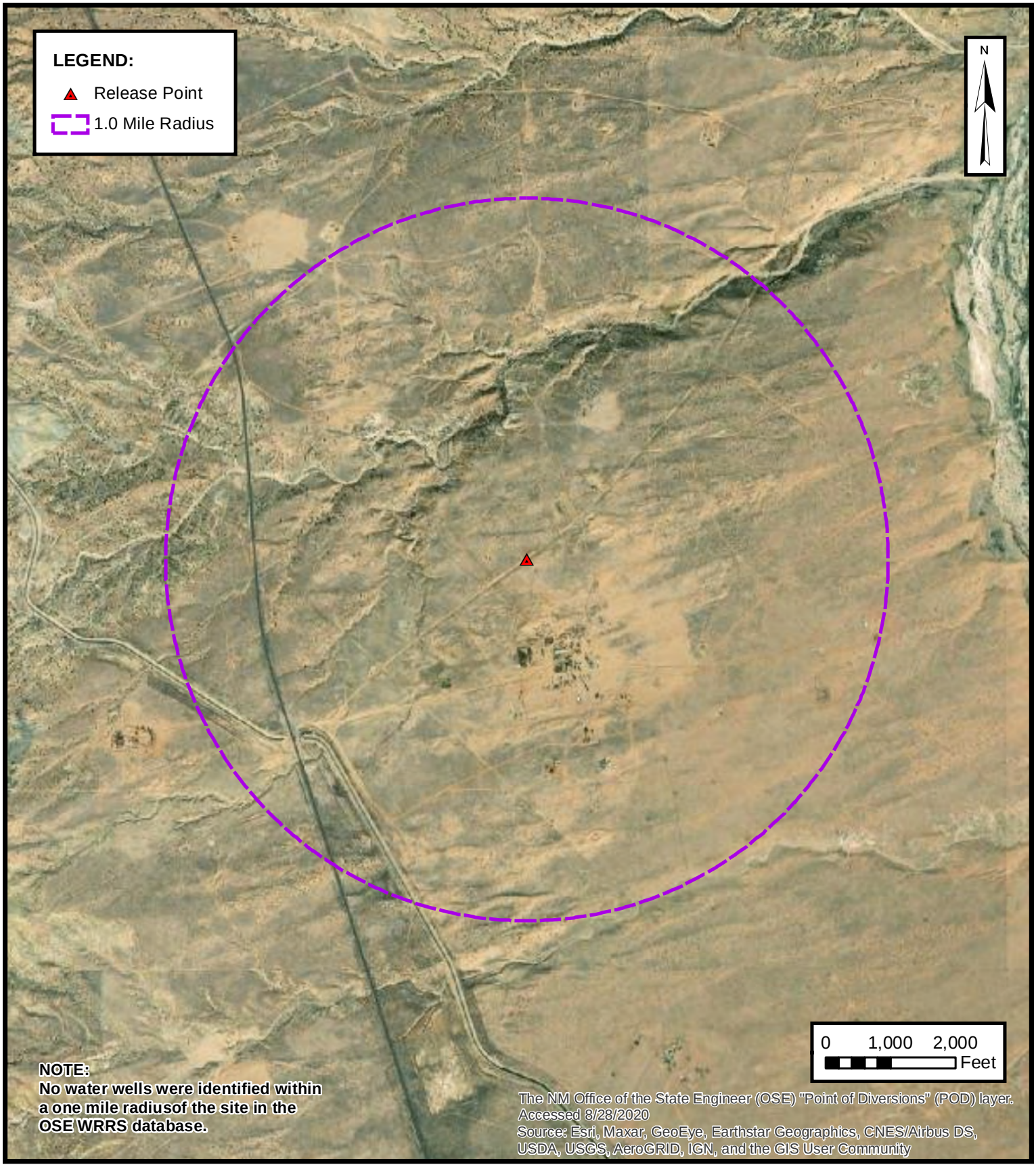
APPENDIX B

Siting Figures and Documentation



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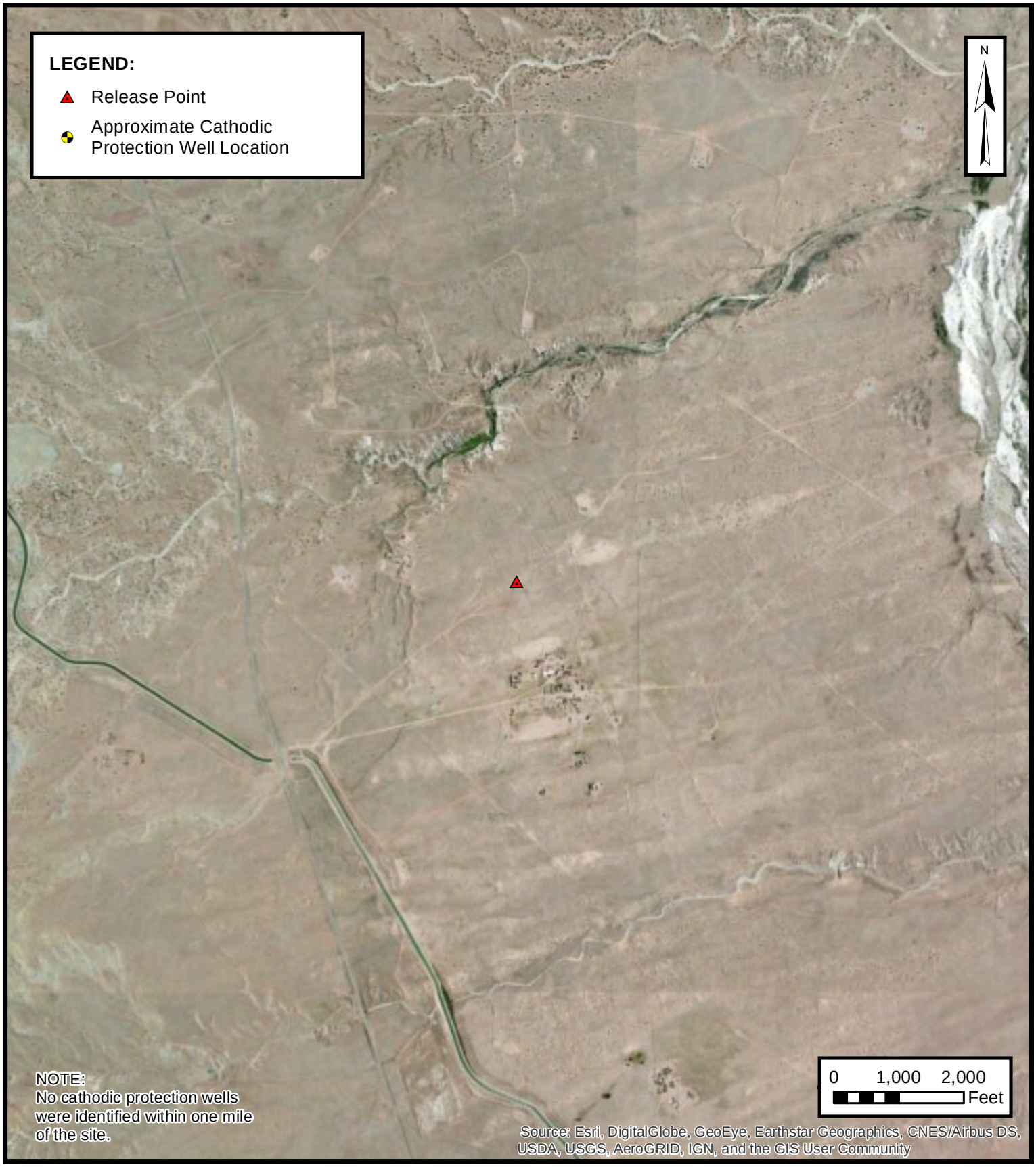
1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE

A



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CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE

B

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300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE
C

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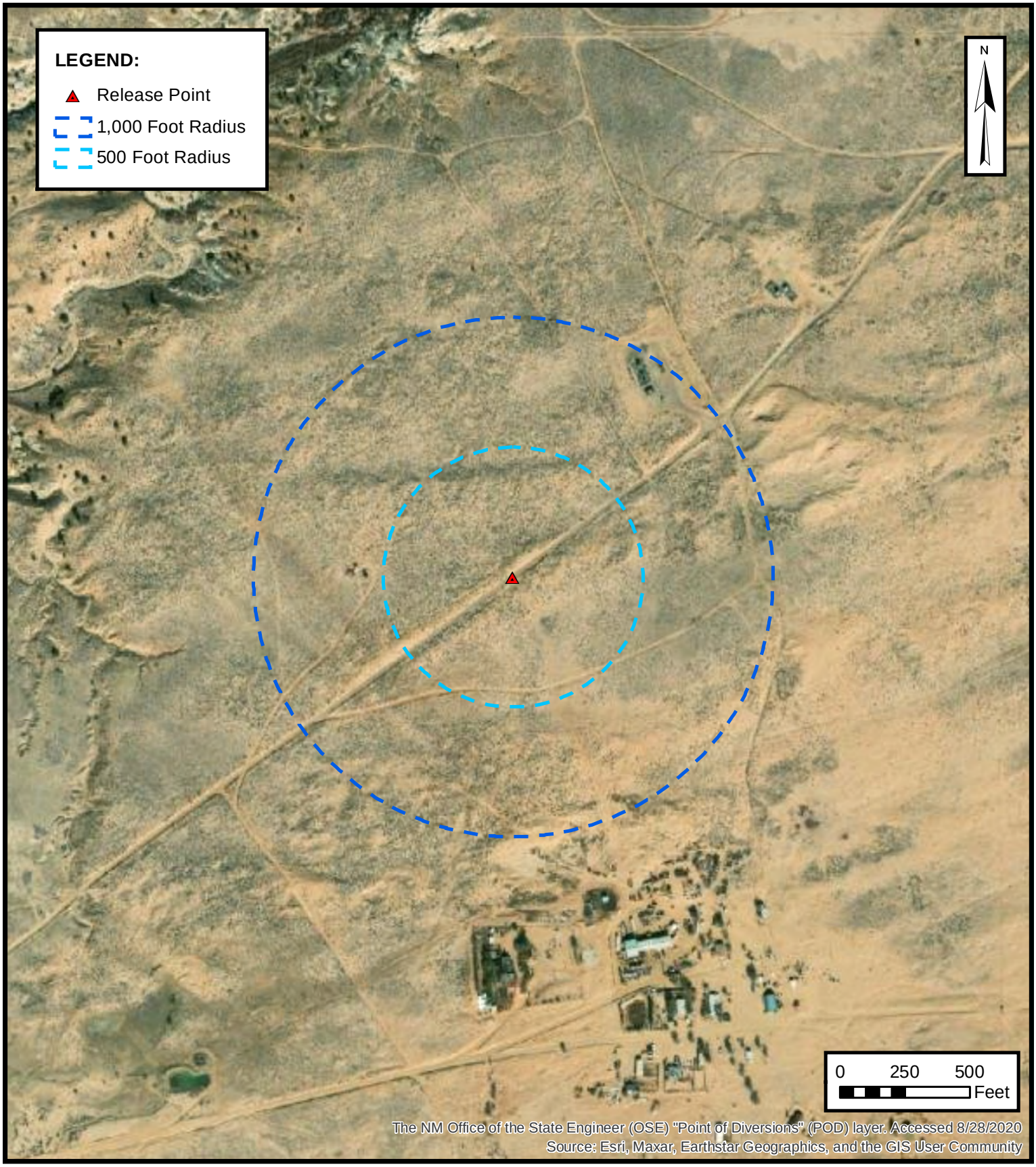
Environmental & Hydrogeologic Consultants

300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE
D



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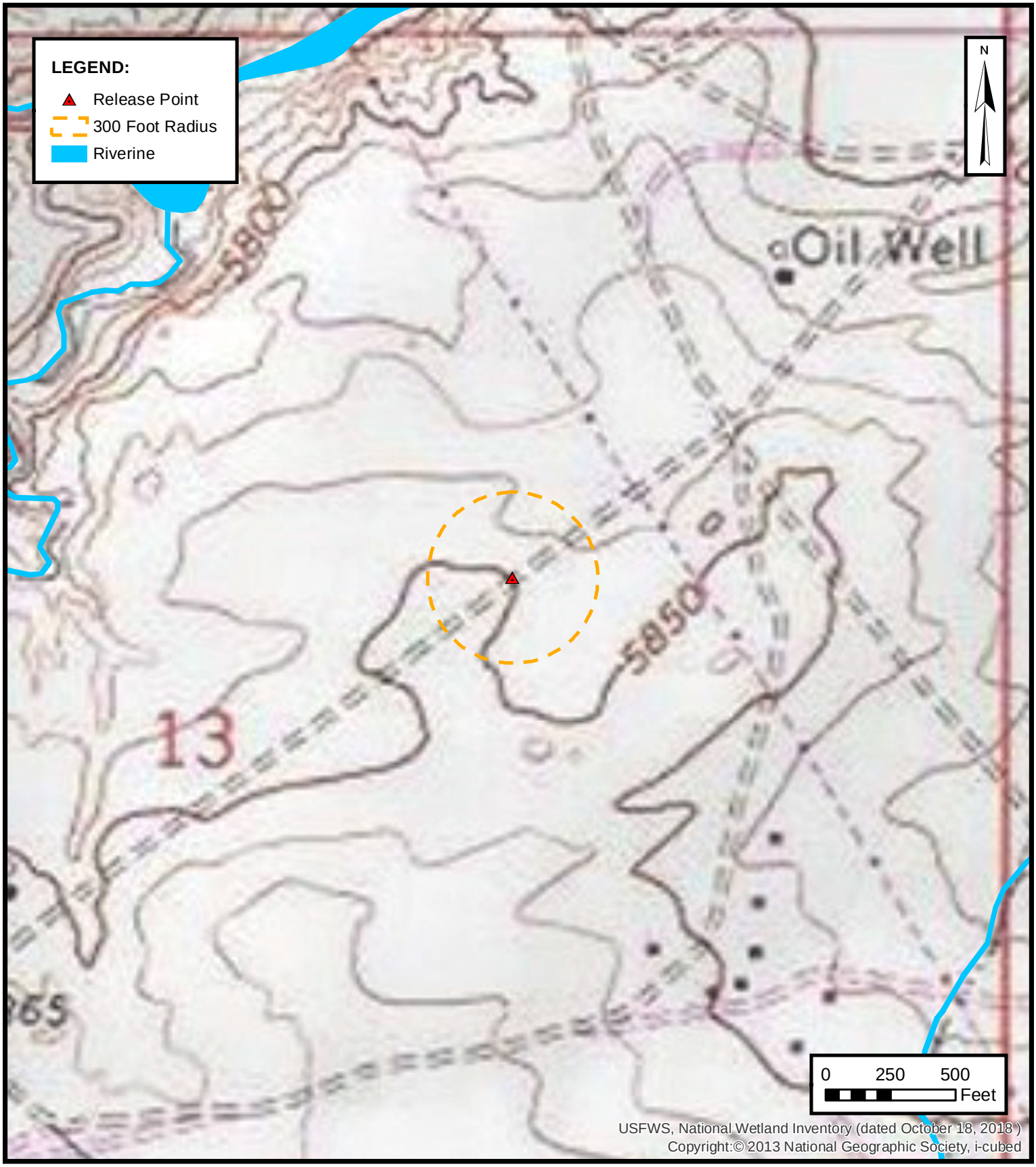
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE

E



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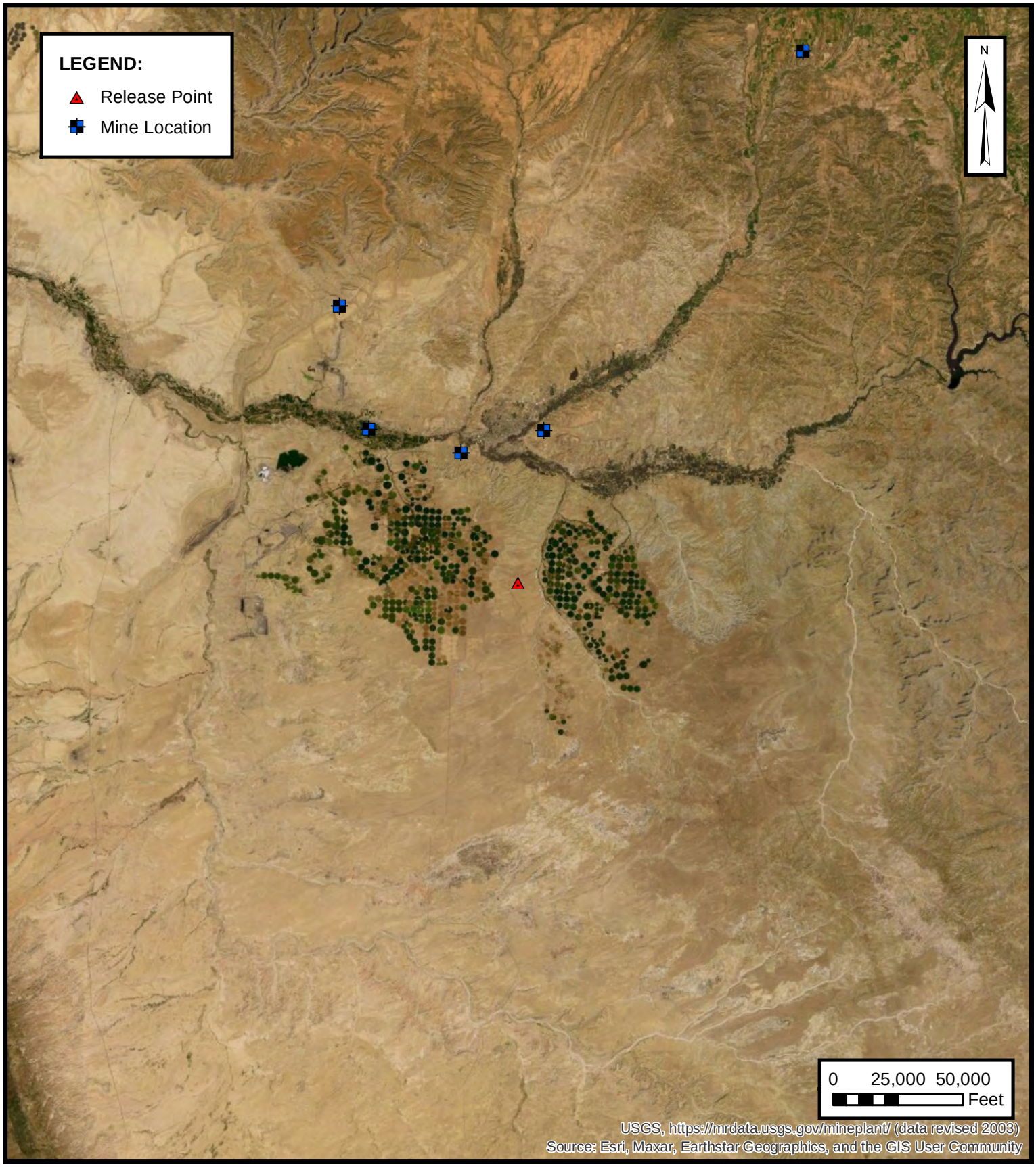
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE

F



ENSOLUM
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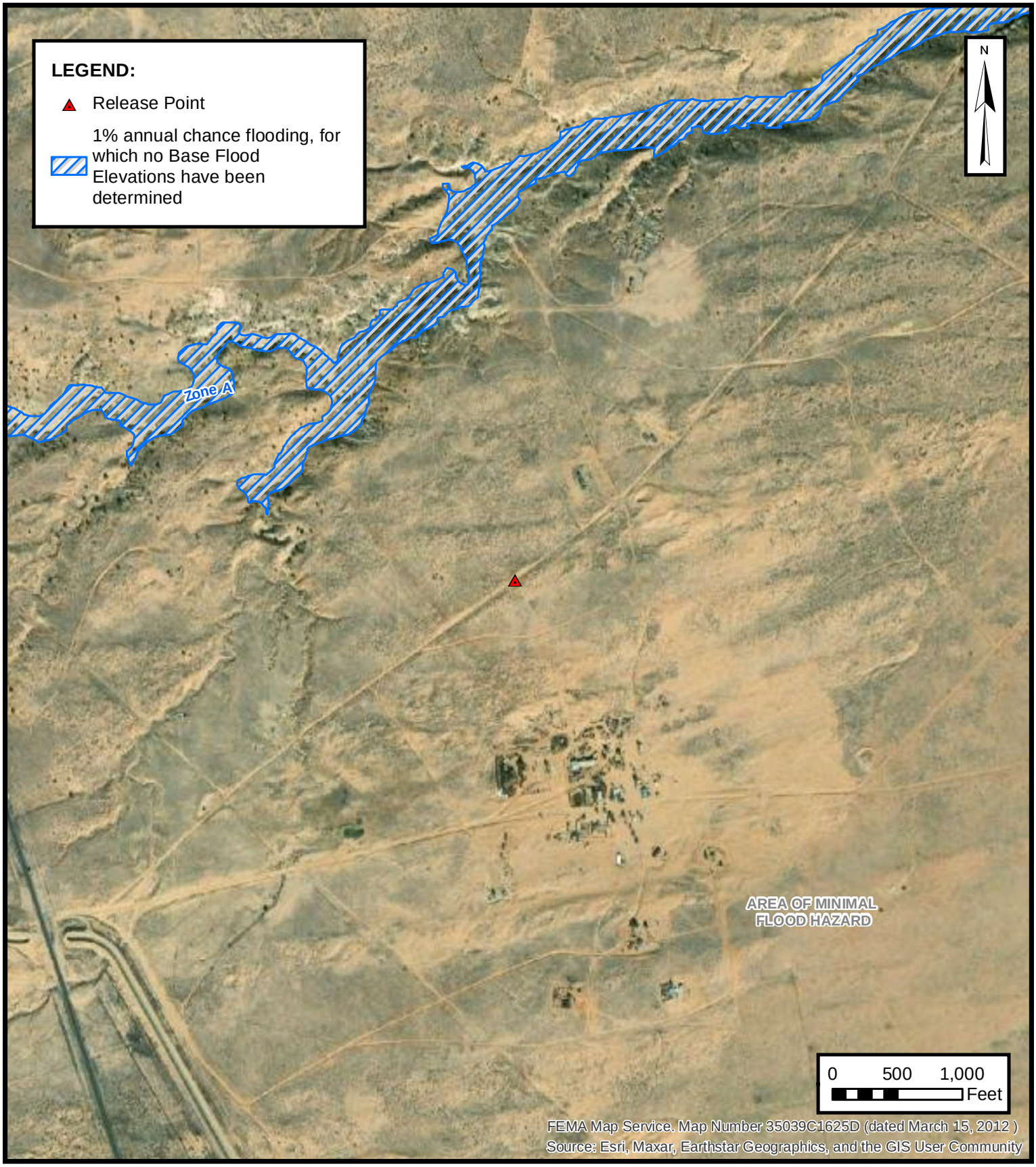
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE

G



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100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-5 (05/22/22)
Unit G, S13 T27N R13W, San Juan County, New Mexico
36.57711° N, 108.16753° W

PROJECT NUMBER: 05A1226193

FIGURE
H

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

No records found.

PLSS Search:

Section(s): 13, 11, 12, 14, 23, 24 **Township:** 27N **Range:** 13W

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

No records found.

PLSS Search:

Section(s): 18, 7, 19 **Township:** 27N **Range:** 12W

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APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

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: EM20767
PM: ME Eddleman
AFE: A59719

2. Originating Site:
Lateral 6B-5

3. Location of Material (Street Address, City, State or ULSTR):
UL G Section 13 T27N R13W; 36.57710, -108.16753

June 2022

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 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 164 (yd³) / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long) 05-26-2022, 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: ~~Kelly Oil Field Services~~ , ACE West States

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 TITLE: Enviro Manager DATE: 6/1/22
SIGNATURE: TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 6B-5 (05/22/22)
Ensolum Project No. 05A1226193

ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 6B-5 (05/22/22)
Ensolum Project No. 05A1226193

ENSOLUM

Photograph 4 Photograph Description: View of the in-process excavation activities.	
Photograph 5 Photograph Description: View of the site after initial restoration.	
Photograph 6 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Long, Thomas
To: "Steve Austin"; "Velez, Nelson, EMNRD"
Cc: Stone, Brian
Subject: Lateral 6B-5 - UL G Section 13 T27N R13W; 36.57710, -108.16753
Date: Sunday, May 22, 2022 7:40:00 PM
Attachments: SNHC6903.JPG

Nelson/Steve,

This email is a notification that Enterprise had a release of natural gas and condensate from the Lateral 6B-5 pipeline this evening. The release was a result of a line strike. A third party struck the pipeline with a bull dozer. There was no fire nor injuries. No washes were affected. Are area of approximately 50 feet wide by 100 feet long was misted with condensate. The pipeline is being depressurized, locked and tagged out. Let me know if you have any questions.

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

Enterprise Products

From: Kyle Summers
To: Ranee Deechilly
Cc: Chad D"Aponti
Subject: FW: [EXTERNAL] Lateral 6B-5 Incident nAPP2214553570
Date: Wednesday, June 1, 2022 7:57:27 AM
Attachments: image002.png
image003.png
image004.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Wednesday, June 1, 2022 7:57 AM
To: Stone, Brian <bmstone@eprod.com>
Cc: Kyle Summers <ksummers@ensolum.com>; Long, Thomas <tjlong@eprod.com>
Subject: RE: [EXTERNAL] Lateral 6B-5 Incident nAPP2214553570

[**EXTERNAL EMAIL**]

Good morning Brian,

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

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

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

Regards

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur.

7:00-11:00 am & 12:00-4:00 pm Fri.

From: Stone, Brian <bmstone@eprod.com>
Sent: Wednesday, June 1, 2022 7:49 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Kyle Summers <ksummers@ensolum.com>; Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] Lateral 6B-5 Incident nAPP2214553570

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

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Friday, June 3, 2022 at 9:00 a.m. If you have any questions, please call or email. Please note that Tom Long is out of the office and will return June 20.

Brian Stone
Field Environmental Manager
Enterprise Products
(970) 210-2170

From: Velez, Nelson, EMNRD
To: Stone, Brian
Cc: Long, Thomas; Kyle Summers
Subject: RE: [EXTERNAL] Lateral 6B-5 - UL G Section 13 T27N R13W; 36.57710, -108.16753 nAPP2214553570
Date: Friday, June 10, 2022 9:47:08 AM

[Use caution with links/attachments]

Brian,

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

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports.

Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00–11:00 am & 12:00–3:30 pm Mon.–Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Stone, Brian <bmstone@eprod.com>
Sent: Thursday, June 9, 2022 3:49 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Long, Thomas <tjlong@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: [EXTERNAL] Lateral 6B-5 - UL G Section 13 T27N R13W; 36.57710, -108.16753 nAPP2214553570

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

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Monday, June 13, 2022 at 9:00 a.m. If you have any questions, please call or email. Please note that Tom Long is out of the office and will return June 20.

Brian Stone

Field Environmental Manager
Enterprise Products
(970) 210-2170

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

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TABLE 1
Lateral 6B-5 (05/22/22)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO)[1] (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I and Tier II)				**10**	**NE**	**NE**	**NE**	**50**				**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 Disposal/Remediation														
OS-1	6.3.22	C	0.33	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<14	<46	ND	ND	**1,200**
OS-2	6.3.22	C	0.33	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<14	<48	ND	ND	**860**
OS-3	6.3.22	C	0.33	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<14	<47	ND	ND	**850**
OS-5	6.3.22	C	0.33	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<15	<49	ND	ND	**900**
OS-10	6.3.22	C	0.33	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<15	<50	ND	ND	**900**
OS-12	6.3.22	C	0.33	<0.024	<0.049	<0.049	<0.097	ND	<4.9	700	360	700	**1,100**	**3,100**
OS-13	6.3.22	C	0.33	<0.024	<0.048	<0.048	<0.095	ND	<4.8	440	220	440	**660**	**2,300**
Composite Soil Sample Collected from Stockpiled Soils														
SP-1	6.3.22	C	Stockpile	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<14	<47	ND	ND	<60
Excavation Composite Soil Samples														
S-1	6.3.22	C	3.5	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<15	<49	ND	ND	<60
S-2	6.3.22	C	0 to 3.5	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<14	<47	ND	ND	<59
S-3	6.3.22	C	0 to 3.5	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<15	<49	ND	ND	<60
S-4	6.3.22	C	0 to 3.5	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<15	<49	ND	ND	<60
S-5	6.3.22	C	0 to 3.5	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<14	<46	ND	ND	<60
Overspray Composite Soil Samples														
OS-4	6.3.22	C	0.33	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<15	<49	ND	ND	<60
OS-6	6.3.22	C	0.33	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<15	<49	ND	ND	310
OS-7	6.3.22	C	0.33	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<14	<47	ND	ND	<60
OS-8	6.3.22	C	0.33	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<15	<49	ND	ND	140
OS-9	6.3.22	C	0.33	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<15	<49	ND	ND	120
OS-11	6.3.22	C	0.33	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<14	<48	ND	ND	390
OS-14	6.13.22	C	0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	460
OS-15	6.13.22	C	0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	240
OS-16	6.13.22	C	0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60

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TABLE 1
Lateral 6B-5 (05/22/22)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO)[1] (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I and Tier II)				**10**	**NE**	**NE**	**NE**	**50**				**1,000**	**Tier I (< 4') - 100 Tier II - 2,500**	**Tier I (< 4') - 600 Tier II - 10,000**
OS-17	6.13.22	C	0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
OS-18	6.13.22	C	0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64
OS-19	6.13.22	C	0.83	NA	NA	NA	NA	NA	<3.3	<14	<47	ND	ND	480
OS-20	6.13.22	C	0.83	NA	NA	NA	NA	NA	<3.3	<14	<48	ND	ND	550

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

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

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

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

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 15, 2022

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

RE: 6B 5 Line Strike OrderNo.: 2206248

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/4/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

CLIENT: ENSOLUM
Client Sample ID: OS-1
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:00:00 AM
Lab ID: 2206248-001 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1200	60		mg/Kg	20	6/7/2022 1:42:30 PM	67931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 11:30:38 AM	67950
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/8/2022 11:30:38 AM	67950
Surr: DNOP	102	51.1-141		%Rec	1	6/8/2022 11:30:38 AM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 3:32:00 PM	67917
Surr: BFB	88.3	37.7-212		%Rec	1	6/7/2022 3:32:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 3:32:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 3:32:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 3:32:00 PM	67917
Xylenes, Total	ND	0.097		mg/Kg	1	6/7/2022 3:32:00 PM	67917
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	6/7/2022 3:32:00 PM	67917

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

CLIENT: ENSOLUM
Client Sample ID: OS-2
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:05:00 AM
Lab ID: 2206248-002 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	860	59		mg/Kg	20	6/7/2022 1:54:50 PM	67931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 11:41:14 AM	67950
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/8/2022 11:41:14 AM	67950
Surr: DNOP	102	51.1-141		%Rec	1	6/8/2022 11:41:14 AM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2022 4:32:00 PM	67917
Surr: BFB	85.8	37.7-212		%Rec	1	6/7/2022 4:32:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/7/2022 4:32:00 PM	67917
Toluene	ND	0.049		mg/Kg	1	6/7/2022 4:32:00 PM	67917
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2022 4:32:00 PM	67917
Xylenes, Total	ND	0.098		mg/Kg	1	6/7/2022 4:32:00 PM	67917
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	6/7/2022 4:32:00 PM	67917

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

CLIENT: ENSOLUM
Client Sample ID: OS-3
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:10:00 AM
Lab ID: 2206248-003 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	850	60		mg/Kg	20	6/7/2022 2:07:12 PM	67931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 11:51:53 AM	67950
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2022 11:51:53 AM	67950
Surr: DNOP	101	51.1-141		%Rec	1	6/8/2022 11:51:53 AM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 5:32:00 PM	67917
Surr: BFB	87.0	37.7-212		%Rec	1	6/7/2022 5:32:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 5:32:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 5:32:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 5:32:00 PM	67917
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2022 5:32:00 PM	67917
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	6/7/2022 5:32:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-4
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:15:00 AM
Lab ID: 2206248-004 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	6/7/2022 2:19:32 PM	67931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 12:02:32 PM	67950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 12:02:32 PM	67950
Surr: DNOP	133	51.1-141		%Rec	1	6/8/2022 12:02:32 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 5:52:00 PM	67917
Surr: BFB	84.3	37.7-212		%Rec	1	6/7/2022 5:52:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 5:52:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 5:52:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 5:52:00 PM	67917
Xylenes, Total	ND	0.096		mg/Kg	1	6/7/2022 5:52:00 PM	67917
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	6/7/2022 5:52:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-5
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:20:00 AM
Lab ID: 2206248-005 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	900	59		mg/Kg	20	6/7/2022 2:31:53 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 12:13:13 PM	67950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 12:13:13 PM	67950
Surr: DNOP	102	51.1-141		%Rec	1	6/8/2022 12:13:13 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 6:12:00 PM	67917
Surr: BFB	84.8	37.7-212		%Rec	1	6/7/2022 6:12:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 6:12:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 6:12:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 6:12:00 PM	67917
Xylenes, Total	ND	0.096		mg/Kg	1	6/7/2022 6:12:00 PM	67917
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/7/2022 6:12:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-6
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:25:00 AM
Lab ID: 2206248-006 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	310	60		mg/Kg	20	6/7/2022 2:44:13 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 12:23:55 PM	67950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 12:23:55 PM	67950
Surr: DNOP	97.4	51.1-141		%Rec	1	6/8/2022 12:23:55 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 6:32:00 PM	67917
Surr: BFB	84.8	37.7-212		%Rec	1	6/7/2022 6:32:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 6:32:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 6:32:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 6:32:00 PM	67917
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2022 6:32:00 PM	67917
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	6/7/2022 6:32:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-7
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:30:00 AM
Lab ID: 2206248-007 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	6/8/2022 2:52:43 AM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 12:34:39 PM	67950
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2022 12:34:39 PM	67950
Surr: DNOP	94.5	51.1-141		%Rec	1	6/8/2022 12:34:39 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/7/2022 6:52:00 PM	67917
Surr: BFB	83.7	37.7-212		%Rec	1	6/7/2022 6:52:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/7/2022 6:52:00 PM	67917
Toluene	ND	0.047		mg/Kg	1	6/7/2022 6:52:00 PM	67917
Ethylbenzene	ND	0.047		mg/Kg	1	6/7/2022 6:52:00 PM	67917
Xylenes, Total	ND	0.094		mg/Kg	1	6/7/2022 6:52:00 PM	67917
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	6/7/2022 6:52:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-8
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:35:00 AM
Lab ID: 2206248-008 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	140	60		mg/Kg	20	6/7/2022 4:23:01 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 12:45:23 PM	67950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 12:45:23 PM	67950
Surr: DNOP	103	51.1-141		%Rec	1	6/8/2022 12:45:23 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 7:31:00 PM	67917
Surr: BFB	84.5	37.7-212		%Rec	1	6/7/2022 7:31:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 7:31:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 7:31:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 7:31:00 PM	67917
Xylenes, Total	ND	0.096		mg/Kg	1	6/7/2022 7:31:00 PM	67917
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/7/2022 7:31:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-9
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:40:00 AM
Lab ID: 2206248-009 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	120	60		mg/Kg	20	6/7/2022 4:35:21 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 12:56:09 PM	67950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 12:56:09 PM	67950
Surr: DNOP	97.1	51.1-141		%Rec	1	6/8/2022 12:56:09 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 7:51:00 PM	67917
Surr: BFB	83.2	37.7-212		%Rec	1	6/7/2022 7:51:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 7:51:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 7:51:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 7:51:00 PM	67917
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2022 7:51:00 PM	67917
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	6/7/2022 7:51:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-10
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:45:00 AM
Lab ID: 2206248-010 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	900	59		mg/Kg	20	6/7/2022 4:47:41 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 1:06:55 PM	67950
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/8/2022 1:06:55 PM	67950
Surr: DNOP	104	51.1-141		%Rec	1	6/8/2022 1:06:55 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/7/2022 8:11:00 PM	67917
Surr: BFB	88.8	37.7-212		%Rec	1	6/7/2022 8:11:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 8:11:00 PM	67917
Toluene	ND	0.047		mg/Kg	1	6/7/2022 8:11:00 PM	67917
Ethylbenzene	ND	0.047		mg/Kg	1	6/7/2022 8:11:00 PM	67917
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2022 8:11:00 PM	67917
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	6/7/2022 8:11:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-11
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:50:00 AM
Lab ID: 2206248-011 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	390	60		mg/Kg	20	6/7/2022 5:00:02 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 1:18:02 PM	67950
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/8/2022 1:18:02 PM	67950
Surr: DNOP	123	51.1-141		%Rec	1	6/8/2022 1:18:02 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/7/2022 8:31:00 PM	67917
Surr: BFB	84.2	37.7-212		%Rec	1	6/7/2022 8:31:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 8:31:00 PM	67917
Toluene	ND	0.047		mg/Kg	1	6/7/2022 8:31:00 PM	67917
Ethylbenzene	ND	0.047		mg/Kg	1	6/7/2022 8:31:00 PM	67917
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2022 8:31:00 PM	67917
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	6/7/2022 8:31:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-12
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 9:55:00 AM
Lab ID: 2206248-012 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3100	150		mg/Kg	50	6/8/2022 11:45:34 AM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	700	15		mg/Kg	1	6/8/2022 1:28:51 PM	67950
Motor Oil Range Organics (MRO)	360	49		mg/Kg	1	6/8/2022 1:28:51 PM	67950
Surr: DNOP	106	51.1-141		%Rec	1	6/8/2022 1:28:51 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2022 8:51:00 PM	67917
Surr: BFB	84.9	37.7-212		%Rec	1	6/7/2022 8:51:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 8:51:00 PM	67917
Toluene	ND	0.049		mg/Kg	1	6/7/2022 8:51:00 PM	67917
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2022 8:51:00 PM	67917
Xylenes, Total	ND	0.097		mg/Kg	1	6/7/2022 8:51:00 PM	67917
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	6/7/2022 8:51:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-13
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 10:00:00 AM
Lab ID: 2206248-013 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2300	150		mg/Kg	50	6/8/2022 11:57:58 AM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	440	14		mg/Kg	1	6/8/2022 1:53:32 PM	67950
Motor Oil Range Organics (MRO)	220	48		mg/Kg	1	6/8/2022 1:53:32 PM	67950
Surr: DNOP	119	51.1-141		%Rec	1	6/8/2022 1:53:32 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 9:11:00 PM	67917
Surr: BFB	79.8	37.7-212		%Rec	1	6/7/2022 9:11:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 9:11:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 9:11:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 9:11:00 PM	67917
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2022 9:11:00 PM	67917
Surr: 4-Bromofluorobenzene	78.9	70-130		%Rec	1	6/7/2022 9:11:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-1
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 10:05:00 AM
Lab ID: 2206248-014 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	6/7/2022 6:01:46 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 2:15:12 PM	67950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 2:15:12 PM	67950
Surr: DNOP	117	51.1-141		%Rec	1	6/8/2022 2:15:12 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/7/2022 9:31:00 PM	67917
Surr: BFB	79.8	37.7-212		%Rec	1	6/7/2022 9:31:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 9:31:00 PM	67917
Toluene	ND	0.047		mg/Kg	1	6/7/2022 9:31:00 PM	67917
Ethylbenzene	ND	0.047		mg/Kg	1	6/7/2022 9:31:00 PM	67917
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2022 9:31:00 PM	67917
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	6/7/2022 9:31:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-2
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 10:10:00 AM
Lab ID: 2206248-015 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	59		mg/Kg	20	6/7/2022 6:14:07 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 2:26:05 PM	67950
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2022 2:26:05 PM	67950
Surr: DNOP	97.8	51.1-141		%Rec	1	6/8/2022 2:26:05 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/7/2022 9:51:00 PM	67917
Surr: BFB	78.3	37.7-212		%Rec	1	6/7/2022 9:51:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/7/2022 9:51:00 PM	67917
Toluene	ND	0.047		mg/Kg	1	6/7/2022 9:51:00 PM	67917
Ethylbenzene	ND	0.047		mg/Kg	1	6/7/2022 9:51:00 PM	67917
Xylenes, Total	ND	0.094		mg/Kg	1	6/7/2022 9:51:00 PM	67917
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	6/7/2022 9:51:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-3
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 10:15:00 AM
Lab ID: 2206248-016 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	6/7/2022 6:26:27 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 2:37:00 PM	67950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 2:37:00 PM	67950
Surr: DNOP	113	51.1-141		%Rec	1	6/8/2022 2:37:00 PM	67950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2022 10:11:00 PM	67917
Surr: BFB	80.9	37.7-212		%Rec	1	6/7/2022 10:11:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/7/2022 10:11:00 PM	67917
Toluene	ND	0.049		mg/Kg	1	6/7/2022 10:11:00 PM	67917
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2022 10:11:00 PM	67917
Xylenes, Total	ND	0.098		mg/Kg	1	6/7/2022 10:11:00 PM	67917
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	6/7/2022 10:11:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-4
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 10:20:00 AM
Lab ID: 2206248-017 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	6/7/2022 6:38:48 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 12:21:34 PM	67951
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 12:21:34 PM	67951
Surr: DNOP	89.5	51.1-141		%Rec	1	6/8/2022 12:21:34 PM	67951
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2022 10:30:00 PM	67917
Surr: BFB	78.5	37.7-212		%Rec	1	6/7/2022 10:30:00 PM	67917
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/7/2022 10:30:00 PM	67917
Toluene	ND	0.048		mg/Kg	1	6/7/2022 10:30:00 PM	67917
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2022 10:30:00 PM	67917
Xylenes, Total	ND	0.096		mg/Kg	1	6/7/2022 10:30:00 PM	67917
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	6/7/2022 10:30:00 PM	67917

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-5
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 10:25:00 AM
Lab ID: 2206248-018 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	6/7/2022 6:51:09 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/7/2022 5:37:12 PM	67929
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/7/2022 5:37:12 PM	67929
Surr: DNOP	232	51.1-141	S	%Rec	1	6/7/2022 5:37:12 PM	67929
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2022 9:33:18 PM	67919
Surr: BFB	108	37.7-212		%Rec	1	6/7/2022 9:33:18 PM	67919
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/7/2022 9:33:18 PM	67919
Toluene	ND	0.049		mg/Kg	1	6/7/2022 9:33:18 PM	67919
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2022 9:33:18 PM	67919
Xylenes, Total	ND	0.099		mg/Kg	1	6/7/2022 9:33:18 PM	67919
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/7/2022 9:33:18 PM	67919

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

Qualifiers:

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

Analytical Report
Lab Order **2206248**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: SP-1
Project: 6B 5 Line Strike
Collection Date: 6/3/2022 10:30:00 AM
Lab ID: 2206248-019 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	6/7/2022 7:03:30 PM	67935
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/7/2022 6:48:37 PM	67929
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/7/2022 6:48:37 PM	67929
Surr: DNOP	225	51.1-141	S	%Rec	1	6/7/2022 6:48:37 PM	67929
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/7/2022 10:44:11 PM	67919
Surr: BFB	108	37.7-212		%Rec	1	6/7/2022 10:44:11 PM	67919
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/7/2022 10:44:11 PM	67919
Toluene	ND	0.050		mg/Kg	1	6/7/2022 10:44:11 PM	67919
Ethylbenzene	ND	0.050		mg/Kg	1	6/7/2022 10:44:11 PM	67919
Xylenes, Total	ND	0.10		mg/Kg	1	6/7/2022 10:44:11 PM	67919
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	6/7/2022 10:44:11 PM	67919

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206248**

15-Jun-22

Client: ENSOLUM

Project: 6B 5 Line Strike

Sample ID: **MB-67931**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **67931**	RunNo: **88545**							
Prep Date: **6/6/2022**	Analysis Date: **6/7/2022**	SeqNo: **3142410**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67931**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **67931**	RunNo: **88545**							
Prep Date: **6/6/2022**	Analysis Date: **6/7/2022**	SeqNo: **3142411**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Sample ID: **MB-67935**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **67935**	RunNo: **88545**							
Prep Date: **6/7/2022**	Analysis Date: **6/7/2022**	SeqNo: **3142412**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67935**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **67935**	RunNo: **88545**							
Prep Date: **6/7/2022**	Analysis Date: **6/7/2022**	SeqNo: **3142413**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206248**

15-Jun-22

Client: ENSOLUM

Project: 6B 5 Line Strike

Sample ID: **MB-67929** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **67929** RunNo: **88541**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3141981** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	24		10.00		238	51.1	141			S

Sample ID: **LCS-67929** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **67929** RunNo: **88541**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3141982** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	117	64.4	127			
Surr: DNOP	5.8		5.000		116	51.1	141			

Sample ID: **2206248-018AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-5** Batch ID: **67929** RunNo: **88541**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142947** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	14	48.31	0	116	36.1	154			
Surr: DNOP	5.3		4.831		110	51.1	141			

Sample ID: **2206248-018AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-5** Batch ID: **67929** RunNo: **88541**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142948** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	48.78	0	110	36.1	154	4.34	33.9	
Surr: DNOP	4.9		4.878		101	51.1	141	0	0	

Sample ID: **LCS-67951** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **67951** RunNo: **88566**

Prep Date: **6/7/2022** Analysis Date: **6/8/2022** SeqNo: **3143273** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	15	50.00	0	83.0	64.4	127			
Surr: DNOP	3.6		5.000		71.6	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206248**

15-Jun-22

Client: ENSOLUM

Project: 6B 5 Line Strike

Sample ID: **MB-67951**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67951**	RunNo: **88566**
Prep Date: **6/7/2022**	Analysis Date: **6/8/2022**	SeqNo: **3143274** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.0	51.1	141			

Sample ID: **LCS-67950**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67950**	RunNo: **88567**
Prep Date: **6/7/2022**	Analysis Date: **6/8/2022**	SeqNo: **3143289** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.0	64.4	127			
Surr: DNOP	3.9		5.000		78.1	51.1	141			

Sample ID: **MB-67950**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67950**	RunNo: **88567**
Prep Date: **6/7/2022**	Analysis Date: **6/8/2022**	SeqNo: **3143290** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.0	51.1	141			

Sample ID: **2206248-017AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-4**	Batch ID: **67951**	RunNo: **88566**
Prep Date: **6/7/2022**	Analysis Date: **6/8/2022**	SeqNo: **3144306** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	50.00	0	85.2	36.1	154			
Surr: DNOP	3.7		5.000		73.5	51.1	141			

Sample ID: **2206248-017AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-4**	Batch ID: **67951**	RunNo: **88566**
Prep Date: **6/7/2022**	Analysis Date: **6/8/2022**	SeqNo: **3144307** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	14	46.95	0	85.2	36.1	154	6.29	33.9	
Surr: DNOP	3.5		4.695		73.5	51.1	141	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206248**

15-Jun-22

Client: ENSOLUM

Project: 6B 5 Line Strike

Sample ID: **mb-67919** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **67919** RunNo: **88526**
Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142100** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

Sample ID: **lcs-67919** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **67919** RunNo: **88526**
Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142101** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	72.3	137			
Surr: BFB	2300		1000		233	37.7	212			S

Sample ID: **2206248-018ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-5** Batch ID: **67919** RunNo: **88526**
Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142103** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.49	0	112	70	130			
Surr: BFB	2200		979.4		229	37.7	212			S

Sample ID: **2206248-018amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-5** Batch ID: **67919** RunNo: **88526**
Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142104** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.61	0	119	70	130	6.24	20	
Surr: BFB	2300		984.3		230	37.7	212	0	0	S

Sample ID: **2206248-001ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **OS-1** Batch ID: **67917** RunNo: **88530**
Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142909** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.04	0	100	70	130			
Surr: BFB	1900		961.5		195	37.7	212			

Sample ID: **2206248-001amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **OS-1** Batch ID: **67917** RunNo: **88530**
Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142911** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206248**

15-Jun-22

Client: ENSOLUM

Project: 6B 5 Line Strike

Sample ID: **2206248-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **OS-1**	Batch ID: **67917**	RunNo: **88530**
Prep Date: **6/6/2022**	Analysis Date: **6/7/2022**	SeqNo: **3142911** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.97	0	95.9	70	130	4.73	20	
Surr: BFB	1700		958.8		182	37.7	212	0	0	

Sample ID: **lcs-67917**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67917**	RunNo: **88530**
Prep Date: **6/6/2022**	Analysis Date: **6/7/2022**	SeqNo: **3143011** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.6	72.3	137			
Surr: BFB	1800		1000		184	37.7	212			

Sample ID: **mb-67917**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67917**	RunNo: **88530**
Prep Date: **6/6/2022**	Analysis Date: **6/7/2022**	SeqNo: **3143012** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.7	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206248**

15-Jun-22

Client: ENSOLUM

Project: 6B 5 Line Strike

Sample ID: **mb-67919** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **67919** RunNo: **88526**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142148** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: **LCS-67919** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **67919** RunNo: **88526**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142149** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.3	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: **2206248-019ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **SP-1** Batch ID: **67919** RunNo: **88526**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142152** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9970	0	95.6	68.8	120			
Toluene	0.99	0.050	0.9970	0	99.2	73.6	124			
Ethylbenzene	1.0	0.050	0.9970	0	101	72.7	129			
Xylenes, Total	3.0	0.10	2.991	0	101	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9970		106	70	130			

Sample ID: **2206248-019amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **SP-1** Batch ID: **67919** RunNo: **88526**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142153** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9940	0	96.1	68.8	120	0.202	20	
Toluene	0.99	0.050	0.9940	0	99.7	73.6	124	0.234	20	
Ethylbenzene	0.99	0.050	0.9940	0	99.9	72.7	129	0.937	20	
Xylenes, Total	3.0	0.099	2.982	0	101	75.7	126	0.167	20	
Surr: 4-Bromofluorobenzene	1.1		0.9940		107	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206248**

15-Jun-22

Client: ENSOLUM

Project: 6B 5 Line Strike

Sample ID: **2206248-002ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **OS-2** Batch ID: **67917** RunNo: **88530**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142962** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9980	0	98.1	68.8	120			
Toluene	0.99	0.050	0.9980	0	99.5	73.6	124			
Ethylbenzene	0.99	0.050	0.9980	0	99.3	72.7	129			
Xylenes, Total	2.9	0.10	2.994	0	98.3	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9980		85.6	70	130			

Sample ID: **2206248-002amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **OS-2** Batch ID: **67917** RunNo: **88530**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3142964** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9990	0	97.5	68.8	120	0.593	20	
Toluene	0.99	0.050	0.9990	0	98.7	73.6	124	0.717	20	
Ethylbenzene	0.98	0.050	0.9990	0	98.3	72.7	129	0.841	20	
Xylenes, Total	2.9	0.10	2.997	0	97.6	75.7	126	0.595	20	
Surr: 4-Bromofluorobenzene	0.86		0.9990		86.0	70	130	0	0	

Sample ID: **lcs-67917** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **67917** RunNo: **88530**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3143013** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	0.90	0.050	1.000	0	90.0	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.9	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	70	130			

Sample ID: **mb-67917** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **67917** RunNo: **88530**

Prep Date: **6/6/2022** Analysis Date: **6/7/2022** SeqNo: **3143014** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.6	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2206248 RcptNo: 1

Received By: **Tracy Casarrubias** 6/4/2022 9:55:00 AM

Completed By: **Tracy Casarrubias** 6/4/2022 1:34:11 PM

Reviewed By: 6-6-22

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: CMC 6/4/22

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	5.5	Good	Yes			

Chain-of-Custody Record

Client: Ensolum LLC

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 3 day
☐ Standard ☒ Rush 6-8722

Project Name: 6B-5 Line Strike

Project #:

Project Manager: K Summers

Sampler: C DAponti

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.5 -0= 5.5 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2206248	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, ~~F~~, ~~Br~~, ~~NO3~~, ~~NO2~~, ~~PO4~~, ~~SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/3	900	S	OS-1	1 4oz Jar	Cool	001	✓	✓					✓			
6/3	905	S	OS-2		Cool	002	✓	✓					✓			
6/3	910	S	OS-3		Cool	003	✓	✓					✓			
6/3	915	S	OS-4 (DUP)		Cool	004	✓	✓					✓			
6/3	920	S	OS-5 (DUP)		Cool	005	✓	✓					✓			
6/3	925	S	OS-6 (DUP)		Cool	006	✓	✓					✓			
6/3	930	S	OS-7 (DUP)		Cool	007	✓	✓					✓			
6/3	935	S	OS-8 (DUP)		Cool	008	✓	✓					✓			
6/3	940	S	OS-9 (DUP)		Cool	009	✓	✓					✓			
6/3	945	S	OS-10 (DUP)		Cool	010	✓	✓					✓			
6/3	950	S	OS-11 (DUP)		Cool	011	✓	✓					✓			
6/3	955	S	OS-12 (DUP)		Cool	012	✓	✓					✓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/3/22	1200			Courier	6/4/22	9:55
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: PM - Brian Stone
RB 21200
AFE # A59719

page 1 of 2

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.

2 of 2

Chain-of-Custody Record

Client: Ensolum LLC

Mailing Address: 606 S Rio Grande Suite A 87410

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush 6-8-22

Project Name: 6B-5 Line Strike

Project #:

Project Manager: K Summers

Sampler: C Dhont

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.5-0.2=5.5 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2206248	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/3	1000	S	OS-13	1 4oz Jar	Cool	013	✓	✓					✓			
6/3	1005	S	S-1		Cool	014	✓	✓					✓			
6/3	1010	S	S-2		Cool	015	✓	✓					✓			
6/3	1015	S	S-3		Cool	016	✓	✓					✓			
6/3	1020	S	S-4		Cool	017	✓	✓					✓			
6/3	1025	S	S-5		Cool	018	✓	✓					✓			
6/3	1030	S	SP-1		Cool	019	✓	✓					✓			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/3	1200			cour		
Date	Time	Relinquished by:	Received by:	Via:	Date	Time
					6/4/22	9:55

Remarks: see page 1

2 of 2

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 16, 2022

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

RE: Lateral 6B 5 2022 OrderNo.: 2206700

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/14/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206700**
Date Reported: **6/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-14
Project: Lateral 6B 5 2022
Collection Date: 6/13/2022 9:05:00 AM
Lab ID: 2206700-001 **Matrix:** SOIL **Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	460	60		mg/Kg	20	6/14/2022 10:42:45 AM	68092

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

Qualifiers:

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

Analytical Report
Lab Order **2206700**
Date Reported: **6/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-15
Project: Lateral 6B 5 2022
Collection Date: 6/13/2022 9:10:00 AM
Lab ID: 2206700-002 **Matrix:** SOIL **Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	240	60		mg/Kg	20	6/14/2022 10:55:09 AM	68092

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

Qualifiers:

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

Analytical Report
Lab Order **2206700**
Date Reported: **6/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-16
Project: Lateral 6B 5 2022
Collection Date: 6/13/2022 9:15:00 AM
Lab ID: 2206700-003 **Matrix:** SOIL **Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	6/14/2022 11:07:33 AM	68092

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

Qualifiers:

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

Analytical Report
Lab Order **2206700**
Date Reported: **6/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-17
Project: Lateral 6B 5 2022
Collection Date: 6/13/2022 9:20:00 AM
Lab ID: 2206700-004 **Matrix:** SOIL **Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	6/14/2022 11:19:57 AM	68092

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

Qualifiers:

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

Analytical Report
Lab Order **2206700**
Date Reported: **6/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: OS-18
Project: Lateral 6B 5 2022
Collection Date: 6/13/2022 9:25:00 AM
Lab ID: 2206700-005 **Matrix:** SOIL **Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	64	60		mg/Kg	20	6/14/2022 11:32:21 AM	68092

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

Qualifiers:

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

Analytical Report
Lab Order **2206700**
Date Reported: **6/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** OS-19
Project: Lateral 6B 5 2022 **Collection Date:** 6/13/2022 9:30:00 AM
Lab ID: 2206700-006 **Matrix:** MEOH (SOIL) **Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	480	60		mg/Kg	20	6/14/2022 11:44:46 AM	68092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/14/2022 10:43:58 AM	68091
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/14/2022 10:43:58 AM	68091
Surr: DNOP	98.3	51.1-141		%Rec	1	6/14/2022 10:43:58 AM	68091
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	6/14/2022 9:57:37 AM	68079
Surr: BFB	90.9	37.7-212		%Rec	1	6/14/2022 9:57:37 AM	68079

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

Qualifiers:

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

Analytical Report
Lab Order **2206700**
Date Reported: **6/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** OS-20
Project: Lateral 6B 5 2022 **Collection Date:** 6/13/2022 9:35:00 AM
Lab ID: 2206700-007 **Matrix:** MEOH (SOIL) **Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	550	59		mg/Kg	20	6/14/2022 11:57:10 AM	68092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/14/2022 10:54:34 AM	68091
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/14/2022 10:54:34 AM	68091
Surr: DNOP	96.8	51.1-141		%Rec	1	6/14/2022 10:54:34 AM	68091
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	6/14/2022 10:21:08 AM	68079
Surr: BFB	89.7	37.7-212		%Rec	1	6/14/2022 10:21:08 AM	68079

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206700**

16-Jun-22

Client: ENSOLUM

Project: Lateral 6B 5 2022

Sample ID: **MB-68092**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **68092**	RunNo: **88715**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3150654** Units: **mg/Kg**

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

Sample ID: **LCS-68092**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **68092**	RunNo: **88715**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3150655** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206700**

16-Jun-22

Client: ENSOLUM

Project: Lateral 6B 5 2022

Sample ID: **LCS-68091**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68091**	RunNo: **88701**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149502** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.0	64.4	127			
Surr: DNOP	4.8		5.000		95.9	51.1	141			

Sample ID: **MB-68091**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68091**	RunNo: **88701**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149503** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.2	51.1	141			

Sample ID: **2206700-006AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **OS-19**	Batch ID: **68091**	RunNo: **88701**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3150384** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	14	48.22	0	104	36.1	154			
Surr: DNOP	4.8		4.822		98.6	51.1	141			

Sample ID: **2206700-006AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **OS-19**	Batch ID: **68091**	RunNo: **88701**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3150385** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	14	47.80	0	107	36.1	154	1.69	33.9	
Surr: DNOP	4.8		4.780		101	51.1	141	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206700**

16-Jun-22

Client: ENSOLUM

Project: Lateral 6B 5 2022

Sample ID: **lcs-68079**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68079**	RunNo: **88705**
Prep Date: **6/13/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149489** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	2100		1000		207	37.7	212			

Sample ID: **mb-68079**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68079**	RunNo: **88705**
Prep Date: **6/13/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149490** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.2	37.7	212			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM | Work Order Number: 2206700 | RcptNo: 1

Received By: Juan Rojas 6/14/2022 7:05:00 AM

Completed By: Sean Livingston 6/14/2022 7:58:53 AM

Reviewed By: KPG 6.14.22

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: JN 6/14/22

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	1.0	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: Ksummers@ensolum.com

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

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

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

Project Name: Lateral 6B-5 (2022)

Project #: See notes

Project Manager: KSummers

Sampler: RDeechilly

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.0-0=1.0 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2206700	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
6/13/22	905	S	OS-14	1x4oz Jar	cool	001											X
6/13/22	910	S	OS-15	1x4oz Jar	cool	002											X
6/13/22	915	S	OS-16	1x4oz Jar	cool	003											X
6/13/22	920	S	OS-17	1x4oz Jar	cool	004											X
6/13/22	925	S	OS-18	1x4oz Jar	cool	005											X
6/13/22	930	S	OS-19	1x4oz Jar	cool	006		X									X
6/13/22	935	S	OS-20	1x4oz Jar	cool	007		X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/13/22	1354				6/13/22	134
6/13/22	1806			courier	6/14/22	7:05

Remarks: SAME DAY
PM - Tom Long (EPROD)
Pay key - RB21200
AFE - A59719

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

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

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

CONDITIONS

Action 131769

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 131769
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Closure accepted for the record based on Navajo EPA approval received via email (see incident file for email document).	3/7/2023