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)* **nAPP2220731238**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.457622** Longitude **-107.741076** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Trunk 2C**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **07/25/2022**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
K	**25**	**26N**	**9W**	**San Juan**

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **Estimated 15-20 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **17.1 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On July 25, 2022, Enterprise had a release of natural gas from the Trunk 2C pipeline. The pipeline was isolated, depressurized, locked and tagged out. No liquids were release to the ground surface. The release was located near a small ephemeral wash. No fire nor injuries occurred. Remediation and repairs were completed on August 17, 2022. The final excavation dimensions measured approximately 57 feet long by 28 feet wide by 20 feet deep. A total of 2,170 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☒ Description of remediation activities

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

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature: Thomas Long Date: 10-28-2022

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: Nelson Velez Date: 11/14/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

CLOSURE REPORT

Property:

Trunk 2C (07/25/22)
Unit Letter K, S25 T26N R9W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2220731238

October 27, 2022

Ensolum Project No. 05A1226201

Prepared for:

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

Prepared by:

Landon Daniell
Staff Geologist

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 Site Description & Background 1
1.2 Project Objective 1

2.0 CLOSURE CRITERIA 1

3.0 SOIL REMEDIATION ACTIVITIES 3

4.0 SOIL SAMPLING PROGRAM 3

5.0 SOIL LABORATORY ANALYTICAL METHODS 4

6.0 SOIL DATA EVALUATION 4

7.0 RECLAMATION AND REVEGETATION 5

8.0 FINDINGS AND RECOMMENDATION 5

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE 5
9.1 Standard of Care 5
9.2 Limitations 6
9.3 Reliance 6

LIST OF APPENDICES

Appendix A – Figures
Figure 1: Topographic Map
Figure 2: Site Vicinity Map
Figure 3: Site Map with Soil Analytical Results

Appendix B – Siting Figures and Documentation
Figure A: 1.0 Mile Radius Water Well/POD Location Map
Figure B: Cathodic Protection Well Recorded Depth to Water
Figure C: 300 Foot Radius Watercourse and Drainage Identification
Figure D: 300 Foot Radius Occupied Structure Identification
Figure E: Water Well and Natural Spring Location
Figure F: Wetlands
Figure G: Mines, Mills, and Quarries
Figure H: 100-Year Flood Plain Map

Appendix C – Executed C-138 Solid Waste Acceptance Form

Appendix D – Photographic Documentation

Appendix E – Regulatory Correspondence

Appendix F – Table 1 - Soil Analytical Summary

Appendix G – Laboratory Data Sheets & Chain of Custody Documentation

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Trunk 2C (07/25/22) (Site)
NM EMNRD OCD Incident ID No.	NAPP2220731238
Location:	36.457622° North, 107.741076° West Unit Letter K, Section 25, Township 26 North, Range 9 West San Juan County, New Mexico
Property:	United States Bureau of Land Management (BLM), Navajo Nation
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) and Navajo Nation Environmental Protection Agency (NNEPA)

On July 25, 2022, Enterprise confirmed a release on the Trunk 2C pipeline. Enterprise personnel subsequently isolated and locked the pipeline out of service. On July 25, 2022, Enterprise initiated activities to repair the pipeline and remediate potential petroleum hydrocarbon impact. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the 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. Four PODs (SJ-00063, SJ-00064, SJ-00214, and SJ-04269-POD1) were identified in adjacent PLSS sections.The closest POD (SJ-00214) is located approximately 0.60 miles northwest of the Site with a listed depth to water of 230 feet below grade surface (bgs). POD SJ-00214 is approximately 155 feet higher in elevation than the Site. PODs SJ-00063 and SJ-00064 are

located approximately 0.68 miles west of the Site with a listed depths to water of 234 feet and 215 feet, respectively and are approximately 162 feet higher in elevation than the Site (**Figure A**, **Appendix B**). There is no depth to water listed for POD SJ-04269-POD1.

- One cathodic protection well (CPW) was identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site, and one CPW was identified in the adjacent PLSS sections. These CPWs are depicited on **Figure B** (**Appendix B**). The records for the cathodic protection well located near the Tibbar Federal #4 and McConnel #6 well locations indicate a depth to water of approximately 130 feet bgs. This cathodic protection well is located approximately 0.44 miles northeast of the Site and is approximately 60 feet lower in elevation than the Site. The records for the cathodic protection well located near the Naw Di Des Wood well location indicate a depth to water of approximately 140 feet bgs. This cathodic protection well is located approximately 0.87 miles northeast of the Site and is approximately 56 feet lower in elevation than the Site.
- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**). The site is located approximately 50 feet from an ephemeral wash.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E**, **Appendix B**).
- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E**, **Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

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

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On July 25, 2022, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Industrial Mechanical Inc (IMI), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 57 feet long and 28 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 20 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand underlaid by weathered shale.

Approximately 2,170 cubic yards (yd^3) of petroleum hydrocarbon-affected soils and 35 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soil and was then contoured to the surrounding topography.

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

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® 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 24 composite soil samples (S-1 through S-24) from the excavation for laboratory analysis. In addition, one composite soil sample (SP-1) was collected from segregated 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 August 10, 2022, the first sampling event was performed at the Site. The NM EMNRD OCD and NNEPA were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-1 (16') was collected from the floor of the excavation. Composites soil samples S-2 (0'-16'), S-3 (0'-16'), and S-4 (0'-16') were collected from the sloped

walls of the excavation. Composite soil sample SP-1 was collected from the segregated stockpiled soil to demonstrate that the soil did not exhibit COC impact and that it was suitable for use as backfill.

Second Sampling Event

On August 15, 2022, the second sampling event was performed at the Site. The NM EMNRD OCD and NNEPA were notified of the sampling event although no representatives were present during sampling activities. Composite sample S-6 was from the floor of the excavation. Composite sample S-5 (16'-20') was from the 16' floor and short wall down to the 20' floor of the excavation. Composites soil samples S-7 (0'-20'), S-8 (0'-20'), S-9 (0'-20''), and S-10 (0'-20') were collected from the sloped walls of the excavation.

Third Sampling Event

On August 17, 2022, the third sampling event was performed at the Site. The NM EMNRD OCD and NNEPA were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-11 (20') was collected from the floor of the excavation. Composite soil samples S-12 (0'-20'), S-13 (0'-20'), S-14 (10'-20'), S-15 (5'-10'), S-16 (5'-10'), S-17 (0'-10'), S-18 (0'-10'), S-19 (0'-5'), S-20 (0'-5'), S-21 (0'-10'), S-22 (0'-10'), and S-23 (0'-6') were collected from the sloped walls of the excavation. Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample S-16. In response to the exceedances the excavation was enlarged. The impacted soil associated with composite sample S-16 was removed by excavation and transported to the landfarm for disposal/remediation.

Fourth Sampling Event

On August 22, 2022, the fourth sampling event was performed at the Site. The NM EMNRD OCD and NNEPA were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-24 (6'-11') was collected from the sloped wall of the excavation to replace composite sample S-16 that had exceeded closure criteria standards.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-15, S-17 through S-24, and SP-1) to the applicable NM EMNRD OCD closure criteria. The soil associated with composite soil sample S-16 was removed from the Site, and therefore, is not included in the following discussion.

- The laboratory analytical results for all composite soil samples representing soils remaining at the Site 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 representing soils remaining at the Site 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 composite soil samples S-5, S-14, and SP-1 indicate combined TPH GRO/DRO/MRO concentrations of 31 mg/kg, 30 mg/kg, and 41 mg/kg, respectively, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other composite soil samples representing soils remaining at the Site 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 all 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. Enterprise will re-seed the Site with an approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

- Twenty-five 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 2,170 yd^3 of petroleum hydrocarbon-affected soils and 35 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and laboratory-confirmed stockpiled soil and was then contoured to the surrounding topography.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

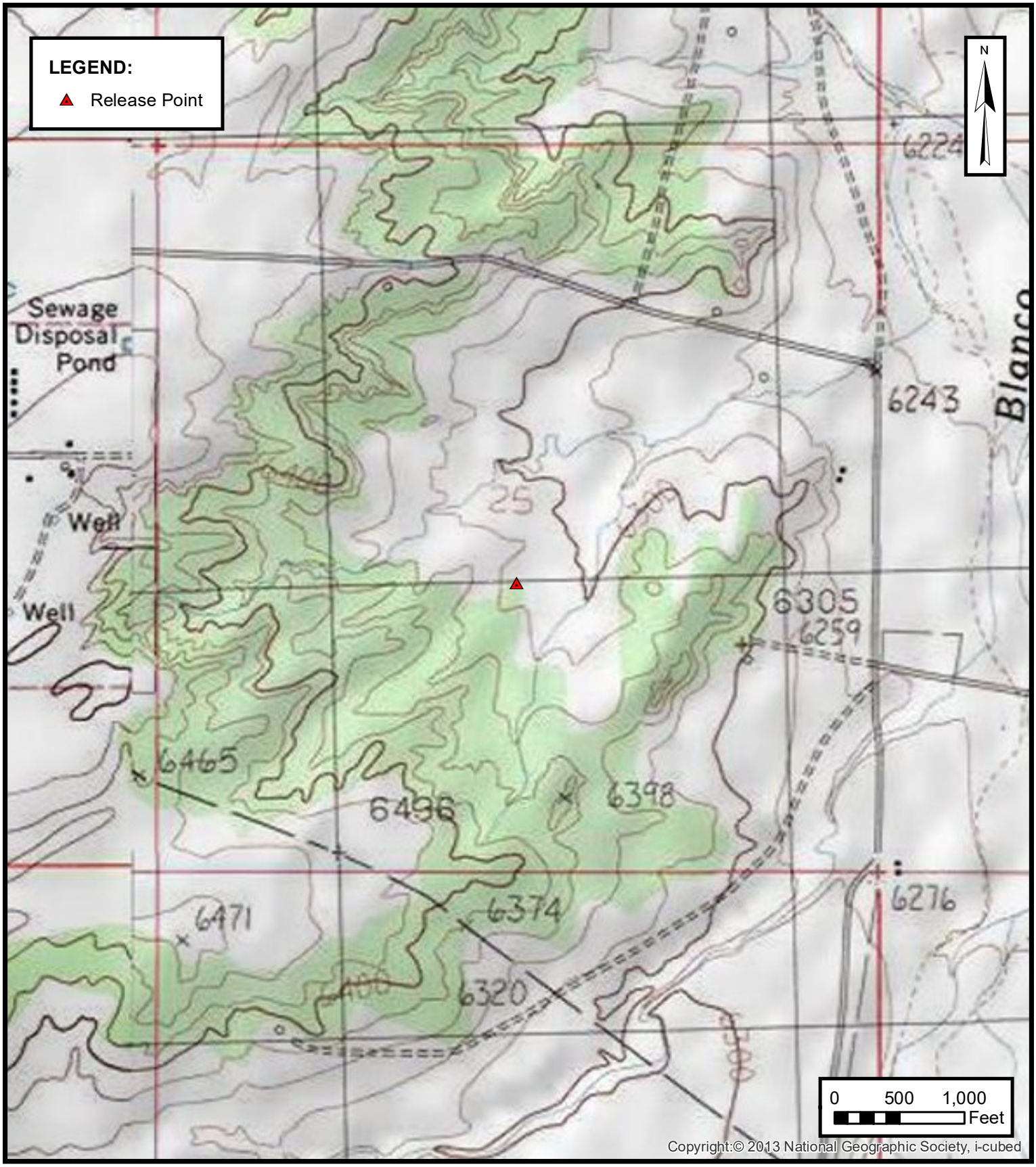
9.3 Reliance

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

ENSOLUM

APPENDIX A

Figures



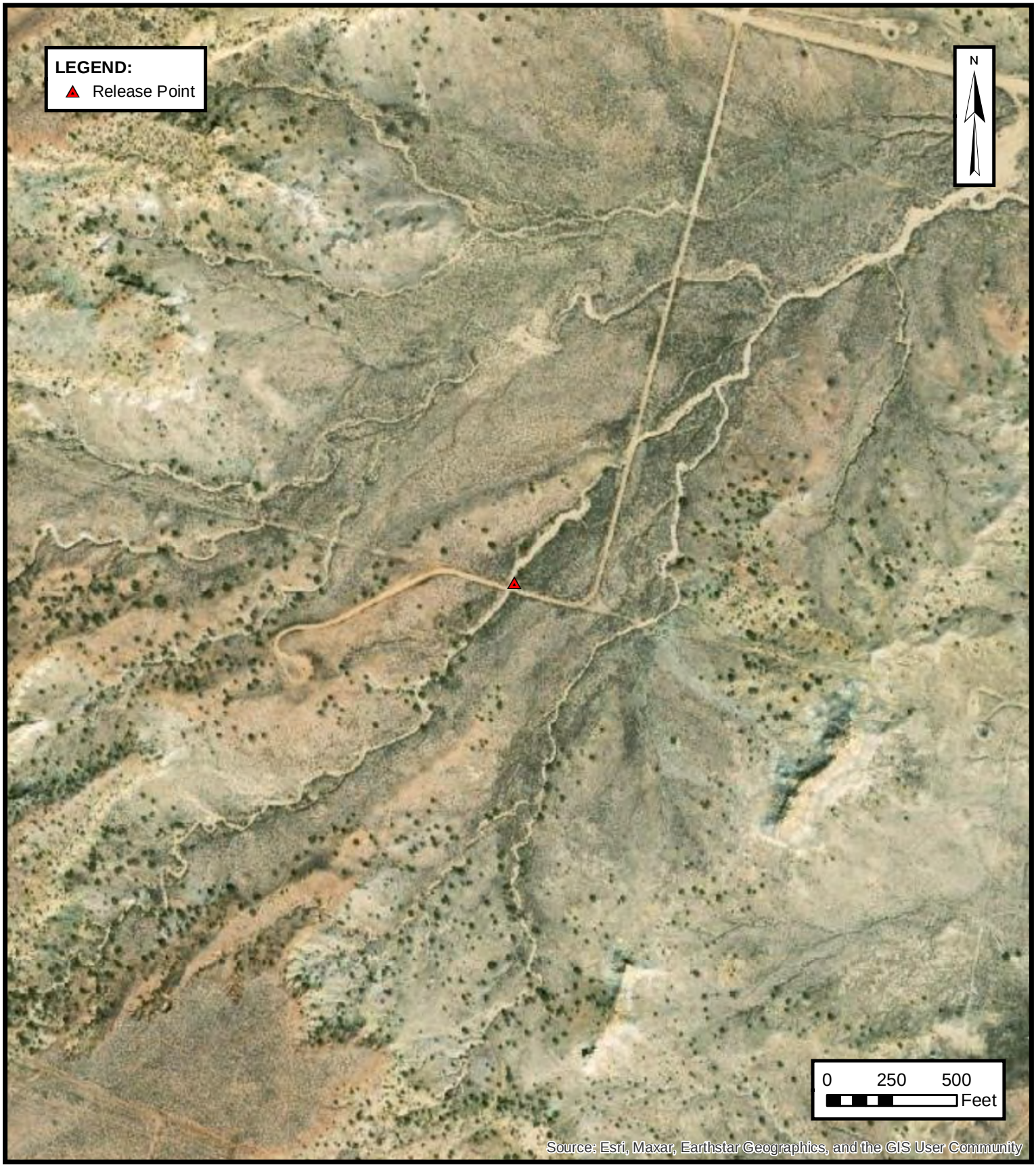
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE
1



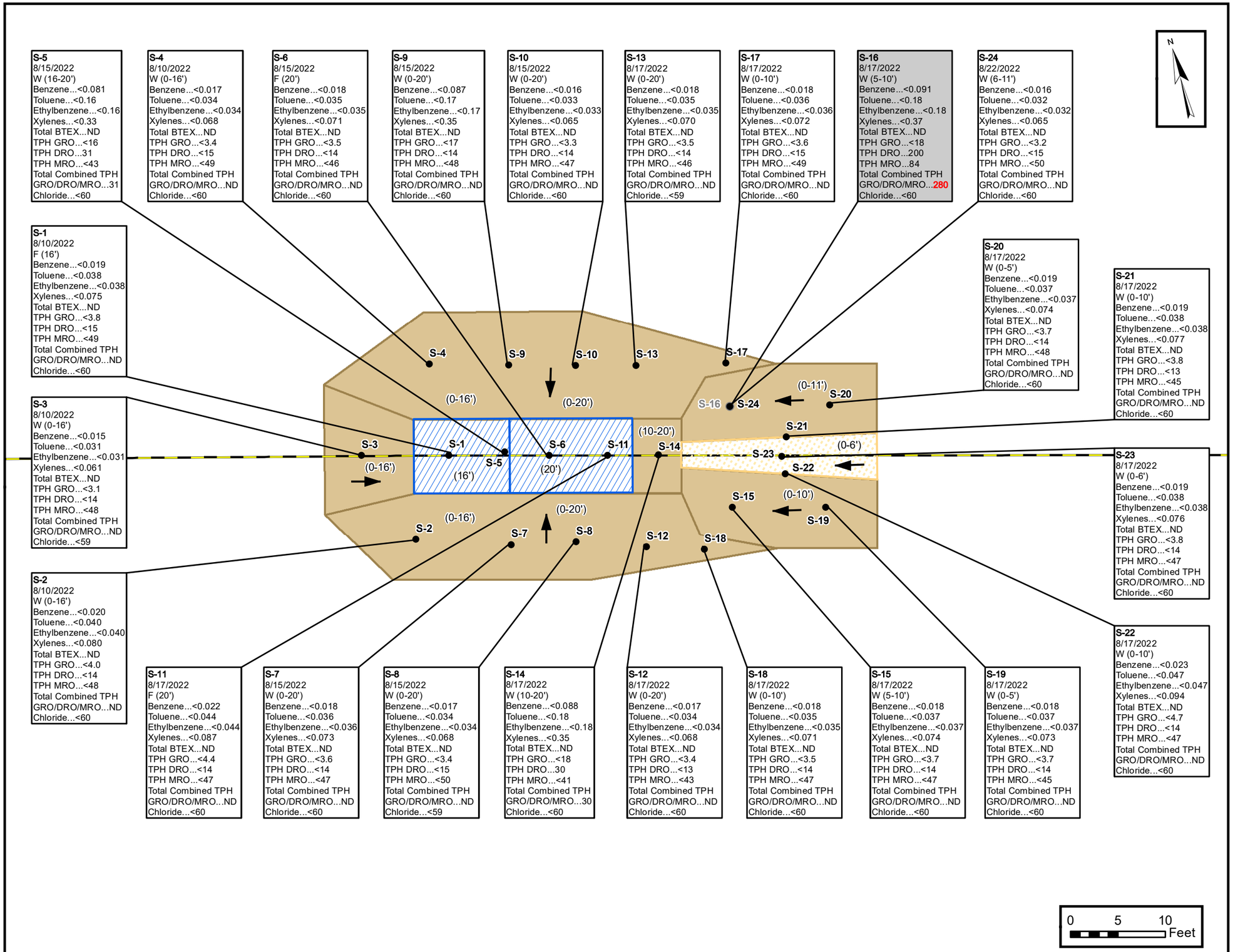
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE
2



LEGEND:

- Composite Soil Sample Location
- Composite Soil Sample Removed by Excavation
- Extent of Excavation Floor
- Pipechase Overdurden Soil
- Sloped Area of Excavation
- Trunk 2C Pipeline

NOTES:
F - Floor sample
W - Wall sample

All concentrations are in mg/Kg.

Concentrations in **Red** exceed the applicable NM EMNRD OCD closure criteria.

All depths are listed in feet BGS.

Analytical callouts in gray denote sampling location removed by excavation.

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

SITE MAP WITH SOIL SAMPLE LOCATIONS

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)

Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

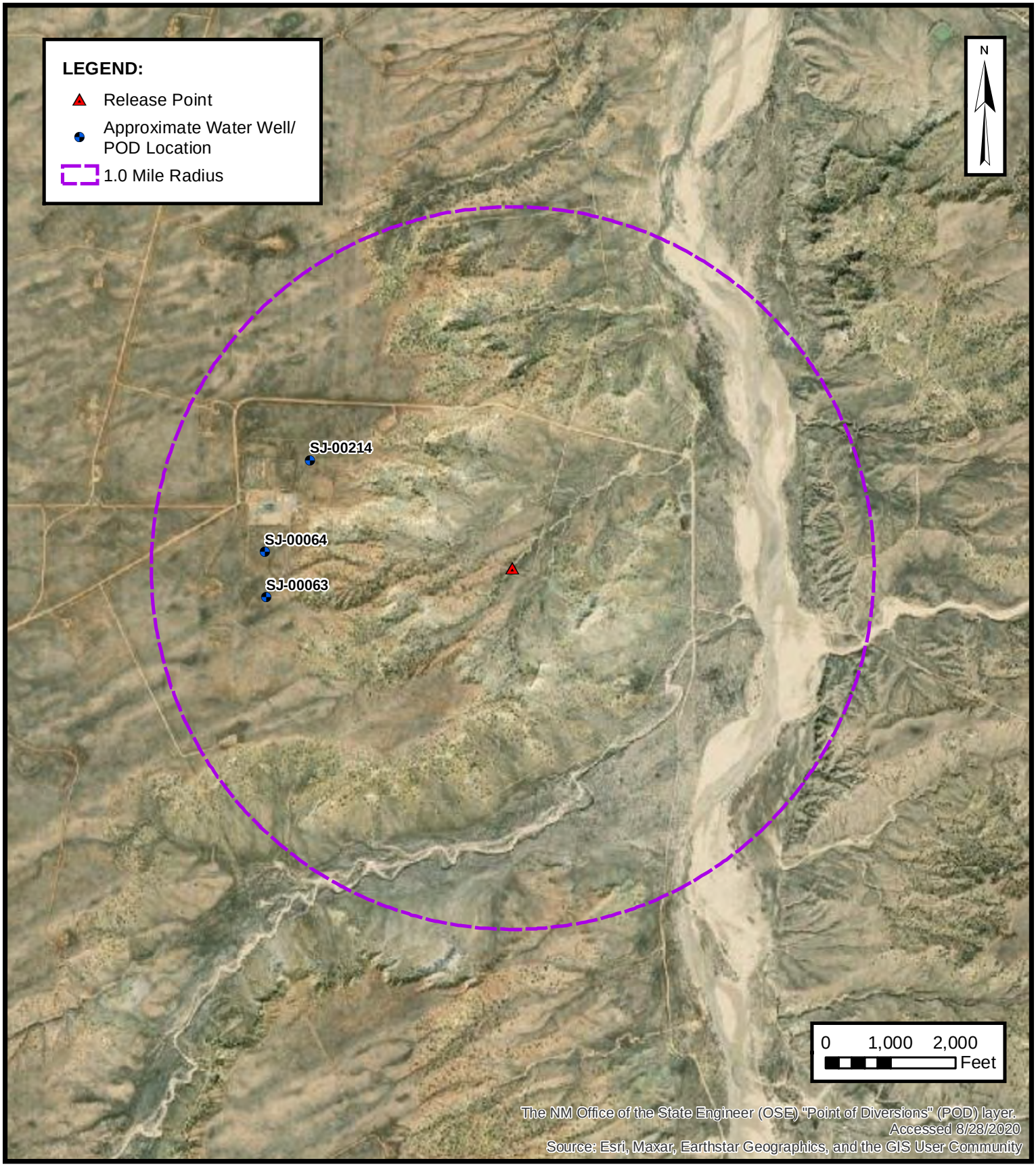
FIGURE
3

PROJECT NUMBER: 05A1226201

ENSOLUM

APPENDIX B

Siting Figures and Documentation



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

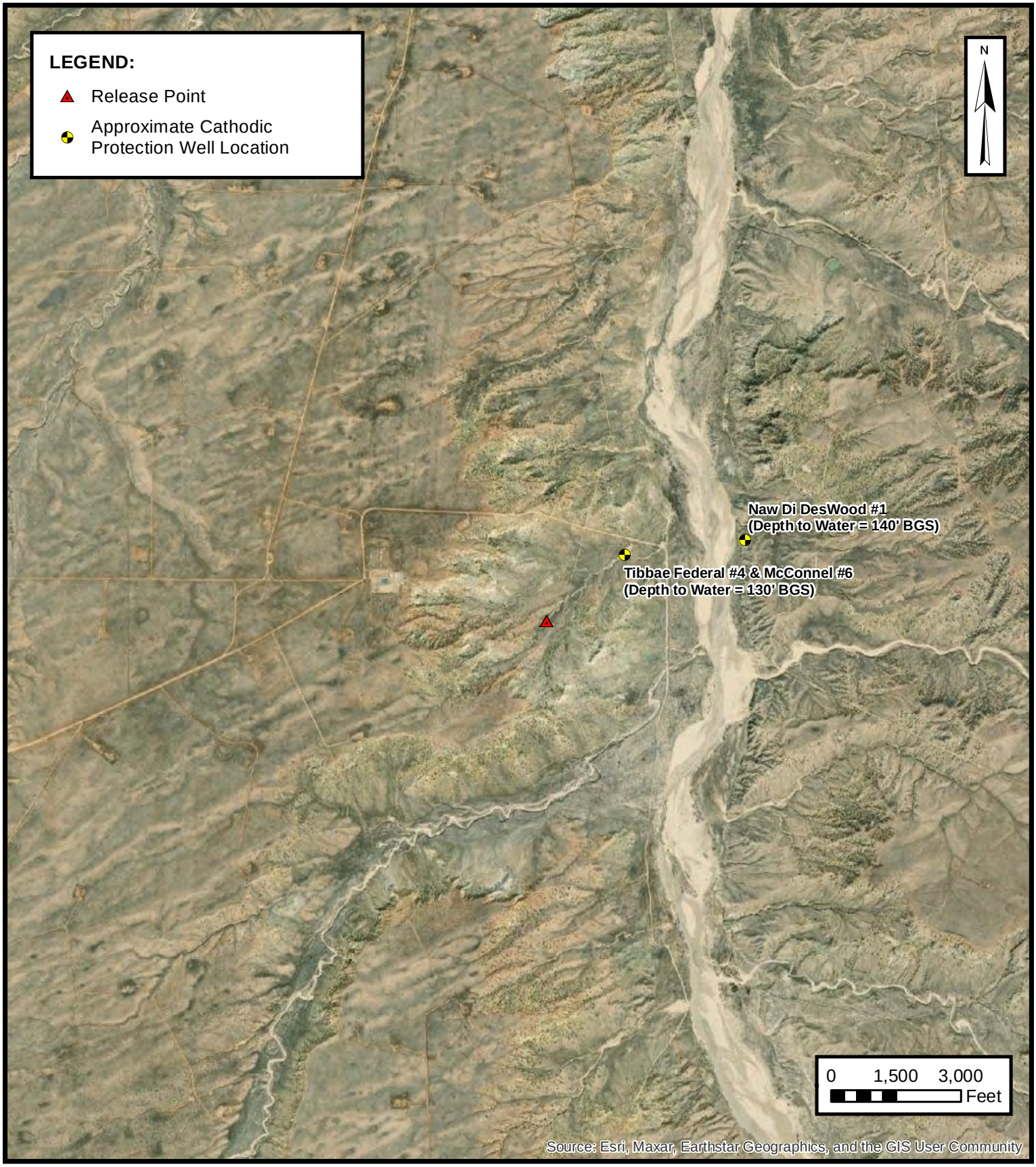
1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE

A



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

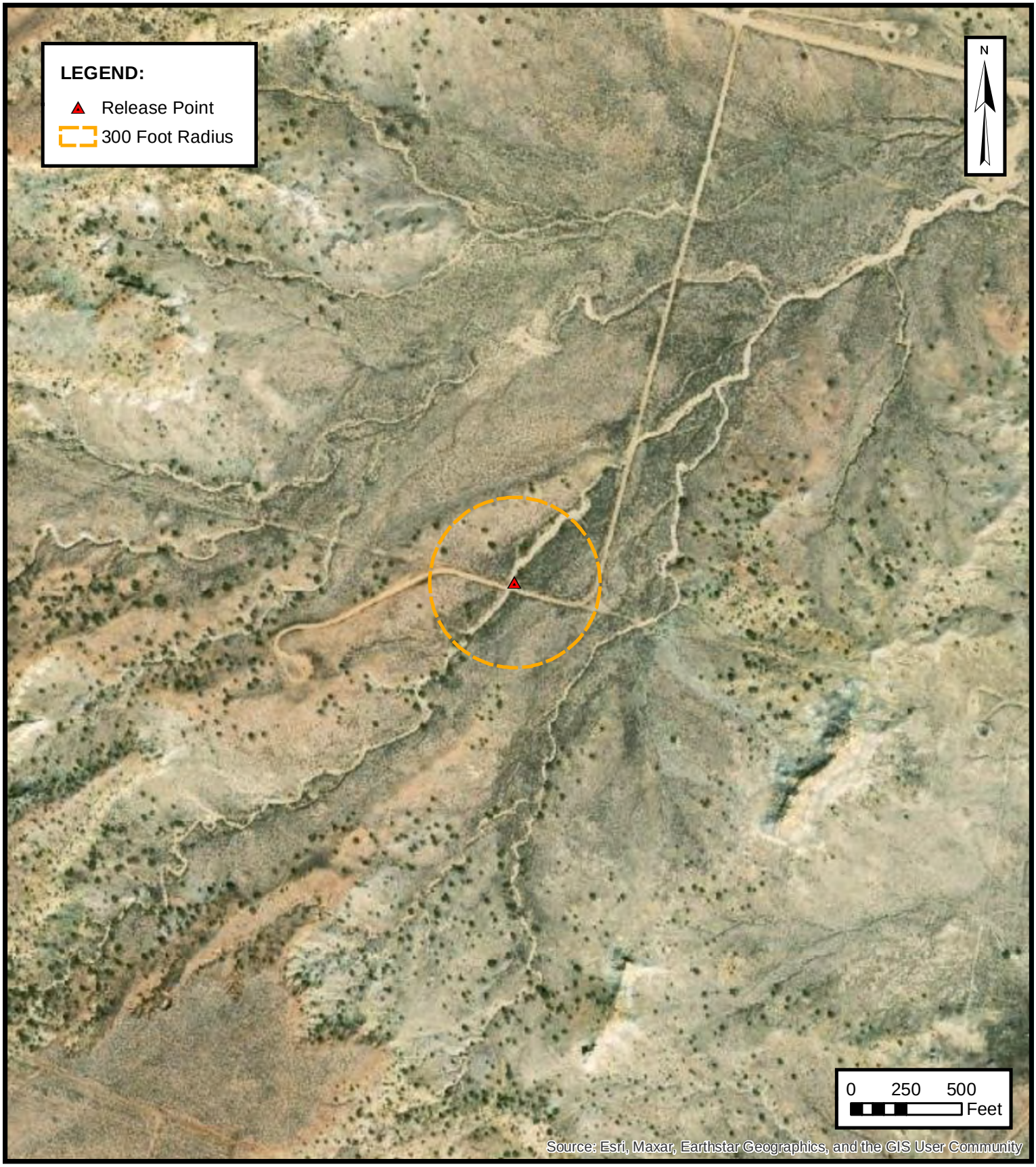
CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE

B

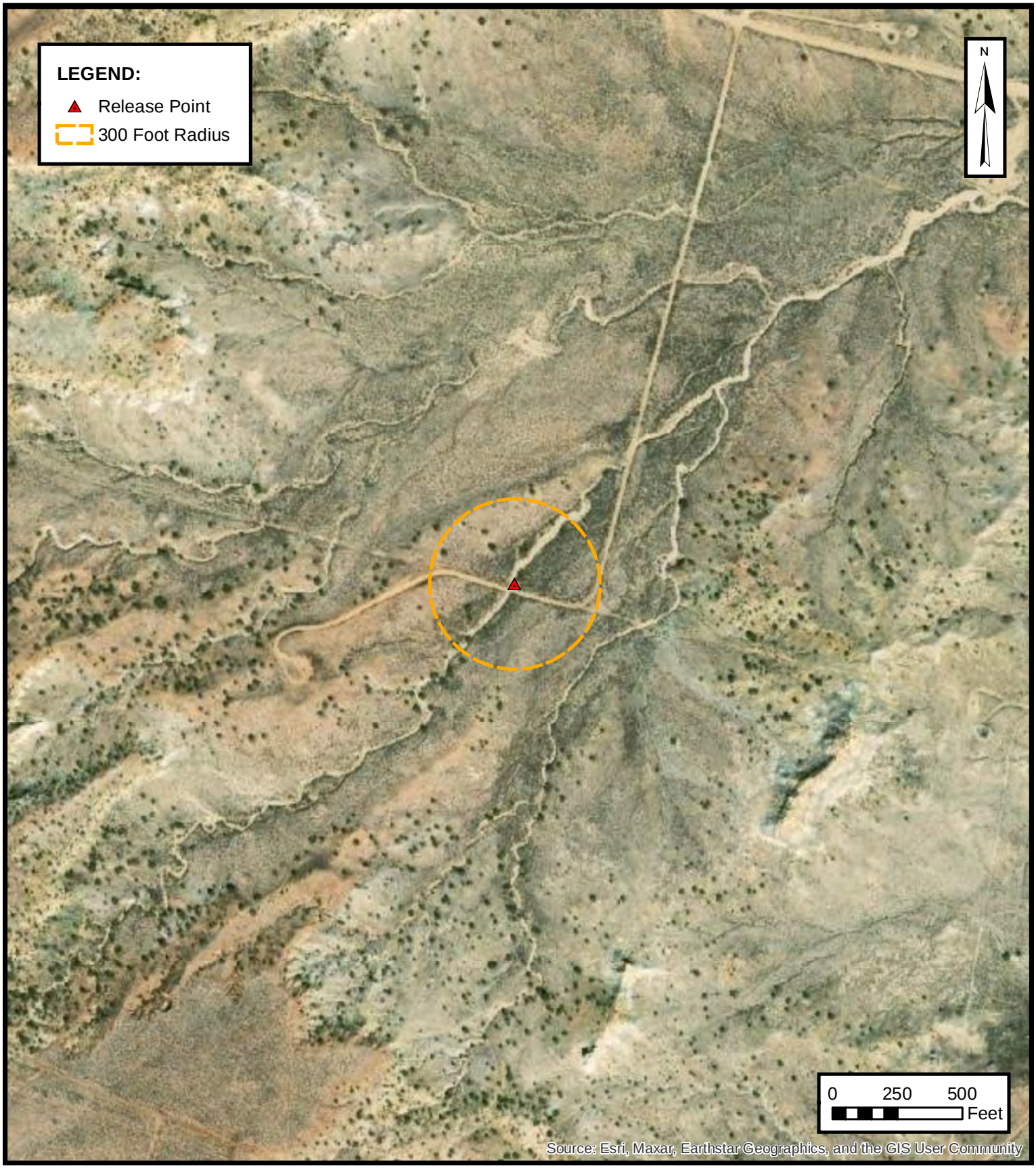


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE
C

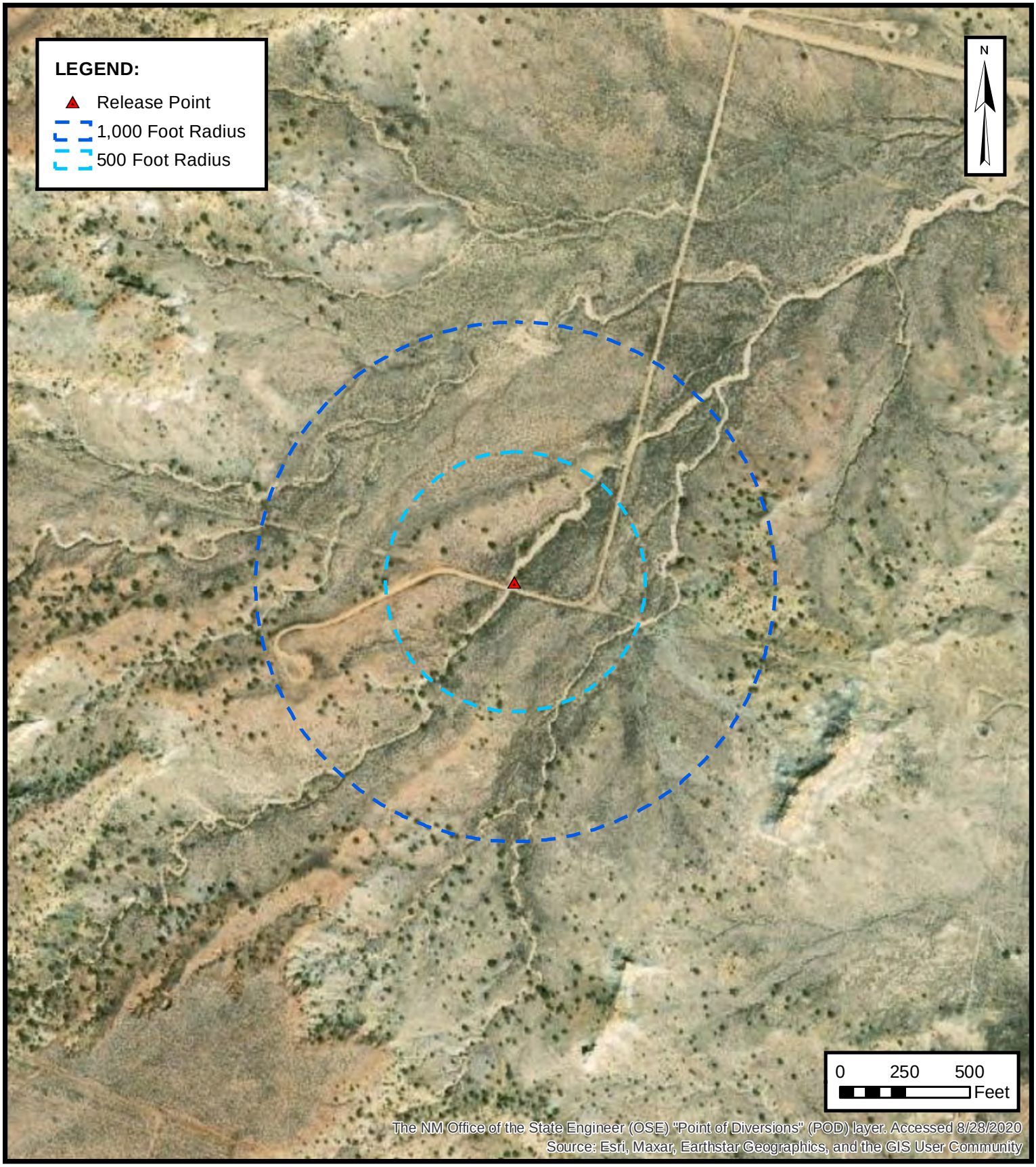


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE
D



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

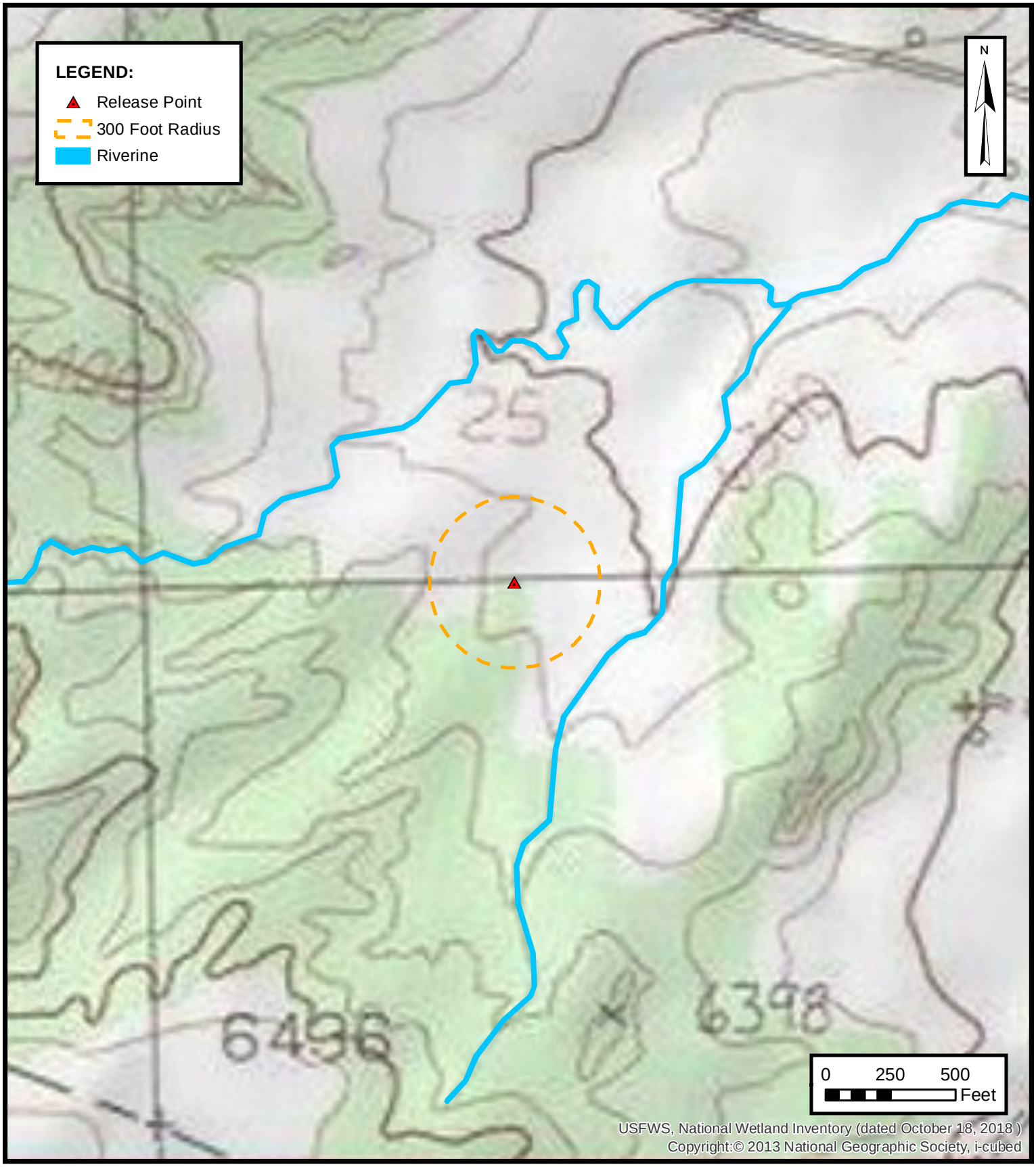
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE

E



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

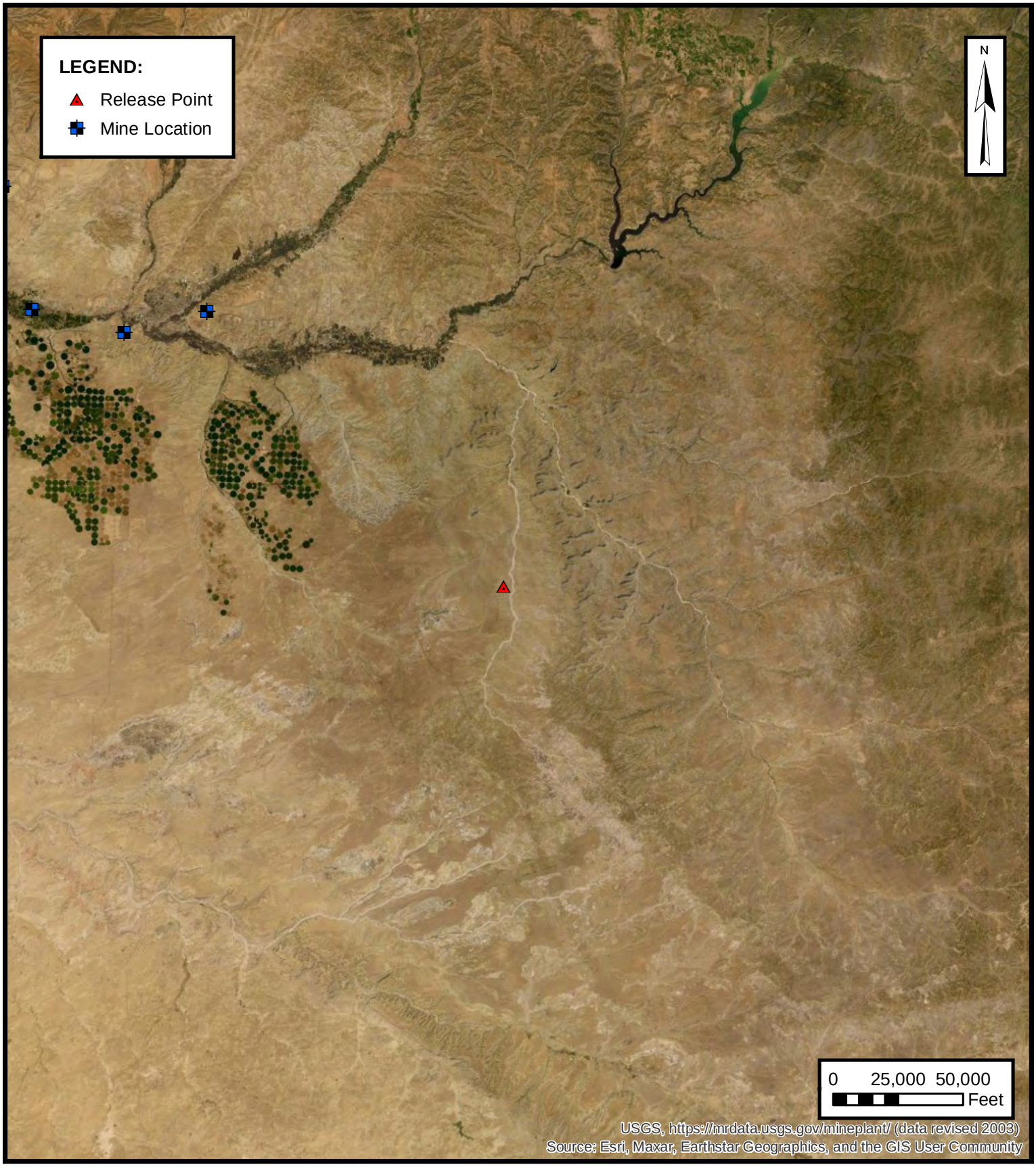
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE

F



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

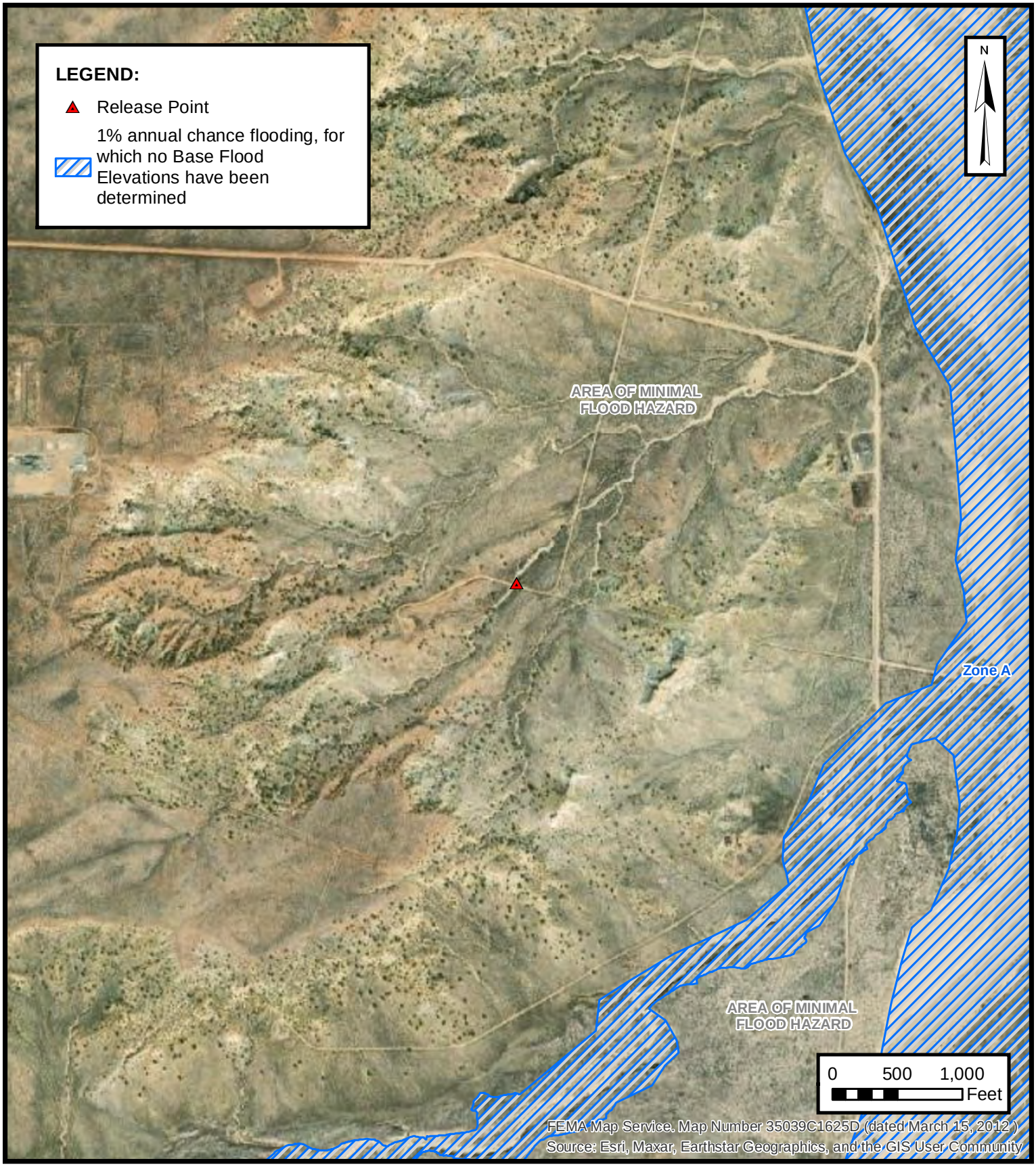
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE

G



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK 2C (07/25/22)
Unit Letter K, S25 T26N R9W, San Juan County, New Mexico
36.457622° N, 107.741076° W

PROJECT NUMBER: 05A1226201

FIGURE
H

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

No records found.

Basin/County Search:

Basin: San Juan **County:** San Juan

PLSS Search:

Section(s): 19, 30, 31 **Township:** 26N **Range:** 08W

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

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

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

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

POD Number	POD Sub-basin Code	County	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00063	SJ	SJ	3	2	4	26	26N	09W	253268	4038101*	479	234	245
SJ 00064	SJ	SJ	1	2	4	26	26N	09W	253268	4038301*	490	215	275
SJ 00214	SJ	SJ	2	4	2	26	26N	09W	253479	4038702*	946	230	716
SJ 04269 POD1	SJ	SJ		2	4	26	26N	09W	251895	4039963	150		

Average Depth to Water: **226 feet**

Minimum Depth: **215 feet**

Maximum Depth: **234 feet**

Record Count: 4

Basin/County Search:

Basin: San Juan **County:** San Juan

PLSS Search:

Section(s): 23-26 **Township:** 26N **Range:** 09W

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

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

No records found.

Basin/County Search:

Basin: San Juan **County:** San Juan

PLSS Search:

Section(s): 35, 36 **Township:** 26N **Range:** 09W

4-30-045-20039
6-30-045-05696

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator Meridian Oil Inc. Location: Unit H Sec. 25 Twp 26 Rng 09

Name of Well/Wells or Pipeline Serviced
Tibber Fed. #H and Mc Connel #6

Elevation ____ Completion Date 4/28/94 Total Depth 387' Land Type P

Casing Strings, Sizes, Types & Depths 4/24 Set 99' of 8" PVC Casing. No Gas, Water or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented With 19 Sacks.

If Cement or Bentonite Plugs have been placed, show depths & amounts used
None

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Hit A Large Fresh Water Vein At 130'. A Water Sample Was Taken.

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 387' Depth. Used 50 Sacks of Loresco SW (5000#)

Depths anodes placed: 365', 353', 343', 325', 315', 270', 240', 225', 215', 205', 190', 180', 170', 150', & 142'.

Depths vent pipes placed: Surface To 387'.

Vent pipe perforations: Bottom 270'.

Remarks:

RECEIVED
JAN 20 1995
OIL CON. DIV.
DIST. 3

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

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

2635W

30-045-05893

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Meridian Oil Inc. Location: Unit F Sec. 30 Twp 26 Rng 08

Name of Well/Wells or Pipeline Serviced

NAW-DP-Des-Wood #1

Elevation 6282' Completion Date 4/22/94 Total Depth 423' Land Type I

Casing Strings, Sizes, Types & Depths 4/13 Set 99' of 8" PVC Casing. No Gas, Water, or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented With 21 SACKS.

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

None

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Hit Some Fresh Water at 140', And A Major Fresh Water Vein At 265'. A Water Sample Was Taken.

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 423' Depth. Used 56 SACKS of Loresco SW (5600#)

Depths anodes placed: 400', 389', 365', 352', 318', 310', 302', 264', 254', 245', 185', 177', 165', 155', + 145'.

Depths vent pipes placed: Surface To 423'.

Vent pipe perforations: Bottom 305'.

Remarks:

RECEIVED
JAN 20 1995
OIL CON. DIV.
DIST. 3

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

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

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

97057-1125

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

PayKey: EM20767
PM: ME Eddleman
AFE: Pending

2. Originating Site:
Trunk 2C

3. Location of Material (Street Address, City, State or ULSTR):
UL K Section 25 T26N R9W; 36.457622, -107.741076

July – October

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) 2170/35 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 7-25-2022, 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: IMI and Subcontractors

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: 7/28/22
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
Trunk 2C (07/25/22)
Ensolum Project No. 05A1226201

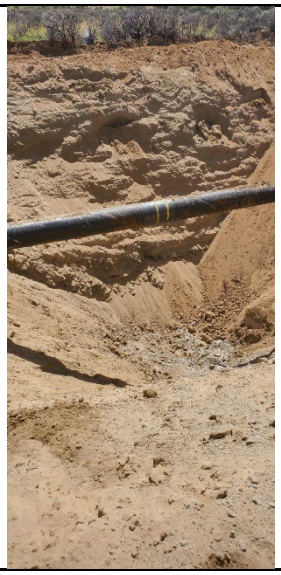
ENSOLUM

Photograph 1 Photograph Description: View of the in-process excavation activities.	
Photograph 2 Photograph Description: View of the excavation (first sampling event).	
Photograph 3 Photograph Description: View of the excavation (first sampling event).	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 2C (07/25/22)
Ensolum Project No. 05A1226201

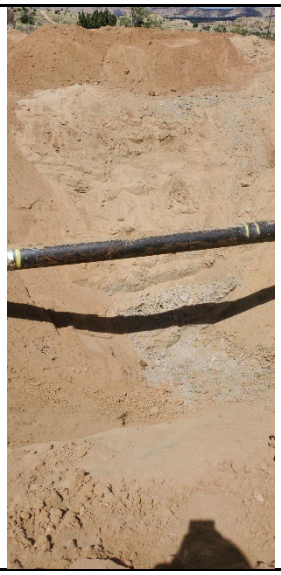
ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 2C (07/25/22)
Ensolum Project No. 05A1226201

ENSOLUM

Photograph 7 Photograph Description: View of the excavation (third sampling event).	
Photograph 8 Photograph Description: View of the excavation (third sampling event).	
Photograph 9 Photograph Description: View of the excavation (fourth sampling event).	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 2C (07/25/22)
Ensolum Project No. 05A1226201

ENSOLUM

Photograph 10 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Kyle Summers
To: Landon Daniell
Cc: Ranee Deechilly
Subject: FW: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076
Date: Tuesday, August 16, 2022 2:09:29 PM
Attachments: image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Steve Austin <nnepawq@frontiernet.net>
Sent: Tuesday, August 16, 2022 2:07 PM
To: 'Long, Thomas' <tjlong@eprod.com>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Cc: 'Stone, Brian' <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076

[**EXTERNAL EMAIL**]

Thanks for the notification.

--Steve

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

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Monday, August 15, 2022 12:46 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Steve Austin <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076

Nelson/Steve,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Wednesday, August 17, 2022 at 2:00 p.m. This should finalize the remediation efforts at this release site. If you have any questions, please call or email.

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

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Monday, August 15, 2022 10:10 AM
To: Long, Thomas <tjlong@eprod.com>; Steve Austin <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:457622, -107.741076

[Use caution with links/attachments]

Tom,

Per our telecommunication earlier today, your variance request is approved. 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

Office Hrs.:
7:00am – 12:00pm & 1:00 – 3:30 pm Mon.-Thur.
7:00am – 12:00pm & 1:00 – 4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>

Sent: Monday, August 15, 2022 7:14 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Steve Austin <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:457622, -107.741076

Steve/Nelson,

Thank you for the help on this sampling event. This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC Enterprise would like to collect closure samples on part of the excavation today August 15, 2022 at 9:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

Enterprise Products

From: Long, Thomas
Sent: Tuesday, August 9, 2022 9:21 AM
To: 'Steve Austin' <nnepawq@frontiernet.net>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:457622, -107.741076

Steve/Nelson,

This email is a variance request and notification. Enterprise is requesting a variance for required 48 hour notification per 1915.29.12D (1a) NMAC. Enterprise would like to collect closure samples on part of the excavation tomorrow August 10, 2022 at 9:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.

Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Steve Austin <nnepawq@frontiernet.net>
Sent: Tuesday, August 2, 2022 9:26 AM
To: Long, Thomas <tjlong@eprod.com>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

[Use caution with links/attachments]
Thanks Tom,

Let me know when you get the sampling scheduled.

--Steve

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

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, August 02, 2022 7:09 AM
To: Steve Austin <nnepawq@frontiernet.net>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Steve/Nelson,

This sampling event has been postponed until further notice. If you have any questions, please call or email.

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

From: Long, Thomas
Sent: Monday, August 1, 2022 10:25 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; 'Steve Austin' <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Steve/Nelson,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples on part of the excavation tomorrow August 2, 2022 at 2:00 p.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

From: Long, Thomas
Sent: Monday, August 1, 2022 10:05 AM
To: 'Steve Austin' <nnepawq@frontiernet.net>
Subject: FW: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Steve,

Please see the email below.

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

From: Long, Thomas
Sent: Monday, August 1, 2022 9:59 AM
To: nnepawq@frontiernet.net <nneapwq@frontier.net>
Cc: Stone, Brian <bmstone@eprod.com>; rjoyner@blm.gov; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Subject: FW: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Steve,

When this release first occurred our original GPS of the release placed this on BLM lands. With this updated GPS this release is on Navajo Tribal Lands and not in or adjacent to the wash. I sent the initial C-141 to BLM. I will have it sent to you as well. We have not done any sampling yet. I will keep you informed as to when sampling will occur. The updated GPS is 36.45755, -107.74094, which puts this release in UL J of Section 25. Please let me know if you need additional information.

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

From: Long, Thomas
Sent: Monday, July 25, 2022 10:13 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; rjoyner@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Nelson/Ryan,

This email is a notification that Enterprise had a release of natural gas on the Trunk 2C pipeline today. No liquids were released to the ground surface. The release is located in a small ephemeral

wash or slightly adjacent to it. The pipeline has been depressurized, isolated, locked and tagged out. The release is located in UL K Section 25 T26N R9W; 36.457622, -107.741076. If you have any questions, please call or email.

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

From: Kyle Summers
To: Landon Daniell
Cc: Ranee Deechilly
Subject: FW: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076
Date: Monday, August 15, 2022 1:29:56 PM
Attachments: image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Monday, August 15, 2022 12:52 PM
To: Long, Thomas <tjlong@eprod.com>; Steve Austin <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076

[**EXTERNAL EMAIL**]

Tom,

Thank you for the notice and update. Again, 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.

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

Office Hrs.:
7:00am – 12:00pm & 1:00 – 3:30 pm Mon.–Thur.
7:00am – 12:00pm & 1:00 – 4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, August 15, 2022 12:46 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Steve Austin <nnepawq@frontiernet.net>

Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076

Nelson/Steve,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Wednesday, August 17, 2022 at 2:00 p.m. This should finalize the remediation efforts at this release site. If you have any questions, please call or email.

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

Enterprise Products

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Monday, August 15, 2022 10:10 AM
To: Long, Thomas <tjlong@eprod.com>; Steve Austin <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076

[Use caution with links/attachments]
Tom,

Per our telecommunication earlier today, your variance request is approved. 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

Office Hrs.:
7:00am – 12:00pm & 1:00 – 3:30 pm Mon.–Thur.
7:00am – 12:00pm & 1:00 – 4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, August 15, 2022 7:14 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Steve Austin <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076

Steve/Nelson,

Thank you for the help on this sampling event. This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples on part of the excavation today August 15, 2022 at 9:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

From: Long, Thomas
Sent: Tuesday, August 9, 2022 9:21 AM
To: 'Steve Austin' <nnepawq@frontiernet.net>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36:.457622, -107.741076

Steve/Nelson,

This email is a variance request and notification. Enterprise is requesting a variance for required 48

hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples on part of the excavation tomorrow August 10, 2022 at 9:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

Enterprise Products

From: Steve Austin <nnepawq@frontiernet.net>
Sent: Tuesday, August 2, 2022 9:26 AM
To: Long, Thomas <tjlong@eprod.com>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] RE: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

[Use caution with links/attachments]
Thanks Tom,

Let me know when you get the sampling scheduled.

--Steve

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

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, August 02, 2022 7:09 AM
To: Steve Austin <nnepawq@frontiernet.net>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Steve/Nelson,

This sampling event has been postponed until further notice. If you have any questions, please call

or email.

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

From: Long, Thomas
Sent: Monday, August 1, 2022 10:25 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; 'Steve Austin' <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Steve/Nelson,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples on part of the excavation tomorrow August 2, 2022 at 2:00 p.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

From: Long, Thomas
Sent: Monday, August 1, 2022 10:05 AM
To: 'Steve Austin' <nnepawq@frontiernet.net>
Subject: FW: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Steve,

Please see the email below.

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

From: Long, Thomas
Sent: Monday, August 1, 2022 9:59 AM
To: nnepawq@frontiernet.net <nneapwq@frontier.net>
Cc: Stone, Brian <bmstone@eprod.com>; rjoyner@blm.gov; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Subject: FW: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Steve,

When this release first occurred our original GPS of the release placed this on BLM lands. With this updated GPS this release is on Navajo Tribal Lands and not in or adjacent to the wash. I sent the initial C-141 to BLM. I will have it sent to you as well. We have not done any sampling yet. I will keep you informed as to when sampling will occur. The updated GPS is 36.45755, -107.74094, which puts this release in UL J of Section 25. Please let me know if you need additional information.

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

From: Long, Thomas

Sent: Monday, July 25, 2022 10:13 AM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; rjoyner@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Trunk 2C - UL K Section 25 T26N R9W; 36.457622, -107.741076

Nelson/Ryan,

This email is a notification that Enterprise had a release of natural gas on the Trunk 2C pipeline today. No liquids were released to the ground surface. The release is located in a small ephemeral wash or slightly adjacent to it. The pipeline has been depressurized, isolated, locked and tagged out. The release is located in UL K Section 25 T26N R9W; 36.457622, -107.741076. If you have any questions, please call or email.

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

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Trunk 2C (07/25/22)
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/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
Composite Soil Sample Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-16	8.17.22	C	5 to 10	<0.091	<0.18	<0.18	<0.37	ND	<18	200	84	**280**	<60
Composite Soil Sample Collected from Stockpiled Soil													
SP-1	8.10.22	C	Stockpile	<0.016	<0.032	<0.032	<0.065	ND	<3.2	41	<48	41	<60
Excavation Composite Soil Samples													
S-1	8.10.22	C	16	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<15	<49	ND	<60
S-2	8.10.22	C	0 to 16	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<14	<48	ND	<60
S-3	8.10.22	C	0 to 16	<0.015	<0.031	<0.031	<0.061	ND	<3.1	<14	<48	ND	<59
S-4	8.10.22	C	0 to 16	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<15	<49	ND	<60
S-5	8.15.22	C	16 to 20	<0.081	<0.16	<0.16	<0.33	ND	<16	31	<43	31	<60
S-6	8.15.22	C	20	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<14	<46	ND	<60
S-7	8.15.22	C	0 to 20	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<14	<47	ND	<60
S-8	8.15.22	C	0 to 20	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<15	<50	ND	<59
S-9	8.15.22	C	0 to 20	<0.087	<0.17	<0.17	<0.35	ND	<17	<14	<48	ND	<60
S-10	8.15.22	C	0 to 20	<0.016	<0.033	<0.033	<0.065	ND	<3.3	<14	<47	ND	<60
S-11	8.17.22	C	20	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<14	<47	ND	<60
S-12	8.17.22	C	0 to 20	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<13	<43	ND	<60
S-13	8.17.22	C	0 to 20	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<14	<46	ND	<59
S-14	8.17.22	C	10 to 20	<0.088	<0.18	<0.18	<0.35	ND	<18	30	<41	30	<60
S-15	8.17.22	C	5 to 10	<0.018	<0.037	<0.037	<0.074	ND	<3.7	<14	<47	ND	<60
S-17	8.17.22	C	0 to 10	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<15	<49	ND	<60
S-18	8.17.22	C	0 to 10	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<14	<47	ND	<60
S-19	8.17.22	C	0 to 5	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<14	<45	ND	<60
S-20	8.17.22	C	0 to 5	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<14	<48	ND	<60
S-21	8.17.22	C	0 to 10	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<13	<45	ND	<60

ENSOLUM

TABLE 1
Trunk 2C (07/25/22)
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/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
S-22	8.17.22	C	0 to 10	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<14	<47	ND	<60
S-23	8.17.22	C	0 to 6	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<14	<47	ND	<60
S-24	8.22.22	C	6 to 11	<0.016	<0.032	<0.032	<0.065	ND	<3.2	<15	<50	ND	<60

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

[1] = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.
ND = Not Detected above the Practical Quantitation Limits (PQLs) or Reporting Limits (RLs)
NA = Not Applicable
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

August 17, 2022

Kyle Summers

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

RE: Trunk 2C OrderNo.: 2208688

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/11/2022 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 **2208688**
Date Reported: **8/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-1
Project: Trunk 2C
Collection Date: 8/10/2022 10:00:00 AM
Lab ID: 2208688-001 **Matrix:** SOIL **Received Date:** 8/11/2022 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/11/2022 10:43:54 AM	69417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/11/2022 1:17:44 PM	69418
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/11/2022 1:17:44 PM	69418
Surr: DNOP	108	21-129		%Rec	1	8/11/2022 1:17:44 PM	69418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/11/2022 9:13:00 AM	A90181
Surr: BFB	84.9	37.7-212		%Rec	1	8/11/2022 9:13:00 AM	A90181
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.019		mg/Kg	1	8/11/2022 9:13:00 AM	B90181
Toluene	ND	0.038		mg/Kg	1	8/11/2022 9:13:00 AM	B90181
Ethylbenzene	ND	0.038		mg/Kg	1	8/11/2022 9:13:00 AM	B90181
Xylenes, Total	ND	0.075		mg/Kg	1	8/11/2022 9:13:00 AM	B90181
Surr: 4-Bromofluorobenzene	77.2	70-130		%Rec	1	8/11/2022 9:13:00 AM	B90181

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 **2208688**
Date Reported: **8/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-2
Project: Trunk 2C
Collection Date: 8/10/2022 10:10:00 AM
Lab ID: 2208688-002 **Matrix:** SOIL **Received Date:** 8/11/2022 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/11/2022 10:56:14 AM	69417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/11/2022 1:59:01 PM	69418
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/11/2022 1:59:01 PM	69418
Surr: DNOP	99.3	21-129		%Rec	1	8/11/2022 1:59:01 PM	69418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	8/11/2022 9:33:00 AM	A90181
Surr: BFB	85.6	37.7-212		%Rec	1	8/11/2022 9:33:00 AM	A90181
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.020		mg/Kg	1	8/11/2022 9:33:00 AM	B90181
Toluene	ND	0.040		mg/Kg	1	8/11/2022 9:33:00 AM	B90181
Ethylbenzene	ND	0.040		mg/Kg	1	8/11/2022 9:33:00 AM	B90181
Xylenes, Total	ND	0.080		mg/Kg	1	8/11/2022 9:33:00 AM	B90181
Surr: 4-Bromofluorobenzene	78.8	70-130		%Rec	1	8/11/2022 9:33:00 AM	B90181

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 **2208688**
Date Reported: **8/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-3
Project: Trunk 2C
Collection Date: 8/10/2022 10:20:00 AM
Lab ID: 2208688-003 **Matrix:** SOIL **Received Date:** 8/11/2022 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	59		mg/Kg	20	8/11/2022 11:08:33 AM	69417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/11/2022 2:12:49 PM	69418
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/11/2022 2:12:49 PM	69418
Surr: DNOP	97.2	21-129		%Rec	1	8/11/2022 2:12:49 PM	69418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	8/11/2022 9:53:00 AM	A90181
Surr: BFB	82.7	37.7-212		%Rec	1	8/11/2022 9:53:00 AM	A90181
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.015		mg/Kg	1	8/11/2022 9:53:00 AM	B90181
Toluene	ND	0.031		mg/Kg	1	8/11/2022 9:53:00 AM	B90181
Ethylbenzene	ND	0.031		mg/Kg	1	8/11/2022 9:53:00 AM	B90181
Xylenes, Total	ND	0.061		mg/Kg	1	8/11/2022 9:53:00 AM	B90181
Surr: 4-Bromofluorobenzene	76.9	70-130		%Rec	1	8/11/2022 9:53:00 AM	B90181

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 **2208688**
Date Reported: **8/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-4
Project: Trunk 2C
Collection Date: 8/10/2022 10:30:00 AM
Lab ID: 2208688-004 **Matrix:** SOIL **Received Date:** 8/11/2022 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/11/2022 11:20:54 AM	69417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/11/2022 2:26:33 PM	69418
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/11/2022 2:26:33 PM	69418
Surr: DNOP	92.7	21-129		%Rec	1	8/11/2022 2:26:33 PM	69418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/11/2022 10:12:00 AM	A90181
Surr: BFB	82.0	37.7-212		%Rec	1	8/11/2022 10:12:00 AM	A90181
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.017		mg/Kg	1	8/11/2022 10:12:00 AM	B90181
Toluene	ND	0.034		mg/Kg	1	8/11/2022 10:12:00 AM	B90181
Ethylbenzene	ND	0.034		mg/Kg	1	8/11/2022 10:12:00 AM	B90181
Xylenes, Total	ND	0.068		mg/Kg	1	8/11/2022 10:12:00 AM	B90181
Surr: 4-Bromofluorobenzene	77.2	70-130		%Rec	1	8/11/2022 10:12:00 AM	B90181

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 **2208688**
Date Reported: **8/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: SP-1
Project: Trunk 2C
Collection Date: 8/10/2022 10:40:00 AM
Lab ID: 2208688-005 **Matrix:** SOIL **Received Date:** 8/11/2022 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/11/2022 11:33:15 AM	69417
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	41	14		mg/Kg	1	8/11/2022 2:40:19 PM	69418
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/11/2022 2:40:19 PM	69418
Surr: DNOP	100	21-129		%Rec	1	8/11/2022 2:40:19 PM	69418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	8/11/2022 10:32:00 AM	A90181
Surr: BFB	79.8	37.7-212		%Rec	1	8/11/2022 10:32:00 AM	A90181
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.016		mg/Kg	1	8/11/2022 10:32:00 AM	B90181
Toluene	ND	0.032		mg/Kg	1	8/11/2022 10:32:00 AM	B90181
Ethylbenzene	ND	0.032		mg/Kg	1	8/11/2022 10:32:00 AM	B90181
Xylenes, Total	ND	0.065		mg/Kg	1	8/11/2022 10:32:00 AM	B90181
Surr: 4-Bromofluorobenzene	73.7	70-130		%Rec	1	8/11/2022 10:32:00 AM	B90181

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#: **2208688**

17-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **MB-69417**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69417**	RunNo: **90187**
Prep Date: **8/11/2022**	Analysis Date: **8/11/2022**	SeqNo: **3217806** Units: **mg/Kg**

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

Sample ID: **LCS-69417**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69417**	RunNo: **90187**
Prep Date: **8/11/2022**	Analysis Date: **8/11/2022**	SeqNo: **3217807** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	100	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#: **2208688**

17-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **LCS-69418**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69418**	RunNo: **90193**
Prep Date: **8/11/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216312** 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	98.6	64.4	127			
Surr: DNOP	4.6		5.000		91.1	21	129			

Sample ID: **2208688-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1**	Batch ID: **69418**	RunNo: **90193**
Prep Date: **8/11/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216314** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	48.83	0	104	36.1	154			
Surr: DNOP	4.7		4.883		96.1	21	129			

Sample ID: **2208688-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1**	Batch ID: **69418**	RunNo: **90193**
Prep Date: **8/11/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216315** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	49.90	0	96.1	36.1	154	5.59	33.9	
Surr: DNOP	4.7		4.990		94.6	21	129	0	0	

Sample ID: **MB-69418**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69418**	RunNo: **90218**
Prep Date: **8/11/2022**	Analysis Date: **8/11/2022**	SeqNo: **3217802** 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	11		10.00		111	21	129			

Sample ID: **MB-69457**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69457**	RunNo: **90218**
Prep Date: **8/12/2022**	Analysis Date: **8/12/2022**	SeqNo: **3218061** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		97.3	21	129			

Sample ID: **LCS-69457**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69457**	RunNo: **90218**
Prep Date: **8/12/2022**	Analysis Date: **8/12/2022**	SeqNo: **3218062** Units: **%Rec**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of 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#: **2208688**

17-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **LCS-69457**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69457**	RunNo: **90218**
Prep Date: **8/12/2022**	Analysis Date: **8/12/2022**	SeqNo: **3218062** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.3	21	129			

Sample ID: **MB-69403**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69403**	RunNo: **90193**
Prep Date: **8/10/2022**	Analysis Date: **8/11/2022**	SeqNo: **3218194** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.0		10.00		70.0	21	129			

Sample ID: **LCS-69403**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69403**	RunNo: **90193**
Prep Date: **8/10/2022**	Analysis Date: **8/11/2022**	SeqNo: **3218195** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.3		5.000		65.9	21	129			

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#: **2208688**

17-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **A90181**	RunNo: **90181**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3215821** 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		209	37.7	212			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **A90181**	RunNo: **90181**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3215822** 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	930		1000		93.2	37.7	212			

Sample ID: **2208688-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **A90181**	RunNo: **90181**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3216891** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.8	18.82	0	92.2	70	130			
Surr: BFB	1300		753.0		174	37.7	212			

Sample ID: **2208688-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **A90181**	RunNo: **90181**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3216892** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.8	18.82	0	91.4	70	130	0.871	20	
Surr: BFB	1300		753.0		175	37.7	212	0	0	

Sample ID: **lcs-69366**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69366**	RunNo: **90181**
Prep Date: **8/9/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216893** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		186	37.7	212			

Sample ID: **mb-69366**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69366**	RunNo: **90181**
Prep Date: **8/9/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216894** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		88.6	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#: **2208688**

17-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **lcs-69372**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69372**	RunNo: **90181**
Prep Date: **8/9/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216917** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		212	37.7	212			

Sample ID: **mb-69372**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69372**	RunNo: **90181**
Prep Date: **8/9/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216918** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.2	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208688**

17-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B90181**	RunNo: **90181**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3215829** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.7	70	130			

Sample ID: **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B90181**	RunNo: **90181**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3215835** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.4	80	120			
Toluene	0.82	0.050	1.000	0	82.3	80	120			
Ethylbenzene	0.82	0.050	1.000	0	81.8	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.3	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.9	70	130			

Sample ID: **2208688-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **B90181**	RunNo: **90181**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3216939** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.60	0.020	0.7974	0	75.6	68.8	120			
Toluene	0.62	0.040	0.7974	0	77.8	73.6	124			
Ethylbenzene	0.62	0.040	0.7974	0	77.7	72.7	129			
Xylenes, Total	1.8	0.080	2.392	0	76.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.59		0.7974		74.3	70	130			

Sample ID: **2208688-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **B90181**	RunNo: **90181**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3216940** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.58	0.020	0.7974	0	72.9	68.8	120	3.58	20	
Toluene	0.60	0.040	0.7974	0	75.1	73.6	124	3.46	20	
Ethylbenzene	0.60	0.040	0.7974	0	75.1	72.7	129	3.35	20	
Xylenes, Total	1.8	0.080	2.392	0	74.5	75.7	126	2.99	20	S
Surr: 4-Bromofluorobenzene	0.59		0.7974		73.6	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#: **2208688**

17-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb-69366**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69366**	RunNo: **90181**
Prep Date: **8/9/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216942** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.82		1.000		81.9	70	130			

Sample ID: **lcs-69372**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69372**	RunNo: **90181**
Prep Date: **8/9/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216965** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.8	70	130			

Sample ID: **mb-69372**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69372**	RunNo: **90181**
Prep Date: **8/9/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216966** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.85		1.000		85.1	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: 2208688 RcptNo: 1

Received By: Juan Rojas 8/11/2022 6:35:00 AM

Completed By: Juan Rojas 8/11/2022 6:50:05 AM

Reviewed By: 8/11/22

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: JR 8/11/22

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	0.9	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:
☐ Standard ☒ Rush 100% Same Day

Project Name: Trunk 2C

Project #: 05A1226201

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.9-0=0.9 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208688	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)
8/10/22	10:00	S	S-1	1402 Jar	Cool	-001	X	X					X			
8/10/22	10:10	S	S-2	1402 Jar	Cool	-002	X	X					X			
8/10/22	10:20	S	S-3	1402 Jar	Cool	-003	X	X					X			
8/10/22	10:30	S	S-4	1402 Jar	Cool	-004	X	X					X			
8/10/22	10:40	S	SP-1	1402 Jar	Cool	-005	X	X					X			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/11/22	1332			Courier	8/10/22	1332
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/11/22	1810			Courier	8/11/22	6:35

Remarks: PM Tom Long
Pgx key: RB21200
Non AFE# N60349

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

August 18, 2022

Kyle Summers

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

RE: Trunk 2C OrderNo.: 2208914

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/16/2022 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 **2208914**
Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-5
Project: Trunk 2C
Collection Date: 8/15/2022 9:00:00 AM
Lab ID: 2208914-001 **Matrix:** SOIL **Received Date:** 8/16/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/16/2022 11:21:25 AM	69526
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	31	13		mg/Kg	1	8/16/2022 11:43:41 AM	69521
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	8/16/2022 11:43:41 AM	69521
Surr: DNOP	88.3	21-129		%Rec	1	8/16/2022 11:43:41 AM	69521
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	8/16/2022 8:59:12 AM	G90310
Surr: BFB	80.7	37.7-212		%Rec	5	8/16/2022 8:59:12 AM	G90310
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.081		mg/Kg	5	8/16/2022 8:59:12 AM	B90310
Toluene	ND	0.16		mg/Kg	5	8/16/2022 8:59:12 AM	B90310
Ethylbenzene	ND	0.16		mg/Kg	5	8/16/2022 8:59:12 AM	B90310
Xylenes, Total	ND	0.33		mg/Kg	5	8/16/2022 8:59:12 AM	B90310
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	5	8/16/2022 8:59:12 AM	B90310

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 **2208914**
Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-6
Project: Trunk 2C
Collection Date: 8/15/2022 9:10:00 AM
Lab ID: 2208914-002 **Matrix:** SOIL **Received Date:** 8/16/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	ND	60		mg/Kg	20	8/16/2022 11:33:49 AM	69526
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 11:57:44 AM	69521
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/16/2022 11:57:44 AM	69521
Surr: DNOP	95.3	21-129		%Rec	1	8/16/2022 11:57:44 AM	69521
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/16/2022 9:22:41 AM	G90310
Surr: BFB	83.4	37.7-212		%Rec	1	8/16/2022 9:22:41 AM	G90310
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.018		mg/Kg	1	8/16/2022 9:22:41 AM	B90310
Toluene	ND	0.035		mg/Kg	1	8/16/2022 9:22:41 AM	B90310
Ethylbenzene	ND	0.035		mg/Kg	1	8/16/2022 9:22:41 AM	B90310
Xylenes, Total	ND	0.071		mg/Kg	1	8/16/2022 9:22:41 AM	B90310
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	8/16/2022 9:22:41 AM	B90310

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 **2208914**
Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-7
Project: Trunk 2C
Collection Date: 8/15/2022 9:20:00 AM
Lab ID: 2208914-003 **Matrix:** SOIL **Received Date:** 8/16/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/16/2022 11:46:14 AM	69526
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 12:11:24 PM	69521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/16/2022 12:11:24 PM	69521
Surr: DNOP	94.4	21-129		%Rec	1	8/16/2022 12:11:24 PM	69521
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/16/2022 9:46:16 AM	G90310
Surr: BFB	84.0	37.7-212		%Rec	1	8/16/2022 9:46:16 AM	G90310
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/16/2022 9:46:16 AM	B90310
Toluene	ND	0.036		mg/Kg	1	8/16/2022 9:46:16 AM	B90310
Ethylbenzene	ND	0.036		mg/Kg	1	8/16/2022 9:46:16 AM	B90310
Xylenes, Total	ND	0.073		mg/Kg	1	8/16/2022 9:46:16 AM	B90310
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/16/2022 9:46:16 AM	B90310

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 **2208914**
Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-8
Project: Trunk 2C
Collection Date: 8/15/2022 9:30:00 AM
Lab ID: 2208914-004 **Matrix:** SOIL **Received Date:** 8/16/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	59		mg/Kg	20	8/16/2022 11:58:38 AM	69526
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/16/2022 12:25:20 PM	69521
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/16/2022 12:25:20 PM	69521
Surr: DNOP	95.5	21-129		%Rec	1	8/16/2022 12:25:20 PM	69521
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/16/2022 10:09:50 AM	G90310
Surr: BFB	83.4	37.7-212		%Rec	1	8/16/2022 10:09:50 AM	G90310
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	8/16/2022 10:09:50 AM	B90310
Toluene	ND	0.034		mg/Kg	1	8/16/2022 10:09:50 AM	B90310
Ethylbenzene	ND	0.034		mg/Kg	1	8/16/2022 10:09:50 AM	B90310
Xylenes, Total	ND	0.068		mg/Kg	1	8/16/2022 10:09:50 AM	B90310
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	8/16/2022 10:09:50 AM	B90310

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 **2208914**
Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-9
Project: Trunk 2C
Collection Date: 8/15/2022 9:40:00 AM
Lab ID: 2208914-005 **Matrix:** SOIL **Received Date:** 8/16/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	ND	60		mg/Kg	20	8/16/2022 12:11:02 PM	69526
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 12:39:18 PM	69521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/16/2022 12:39:18 PM	69521
Surr: DNOP	92.6	21-129		%Rec	1	8/16/2022 12:39:18 PM	69521
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	8/16/2022 10:33:26 AM	G90310
Surr: BFB	87.9	37.7-212		%Rec	5	8/16/2022 10:33:26 AM	G90310
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.087		mg/Kg	5	8/16/2022 10:33:26 AM	B90310
Toluene	ND	0.17		mg/Kg	5	8/16/2022 10:33:26 AM	B90310
Ethylbenzene	ND	0.17		mg/Kg	5	8/16/2022 10:33:26 AM	B90310
Xylenes, Total	ND	0.35		mg/Kg	5	8/16/2022 10:33:26 AM	B90310
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	8/16/2022 10:33:26 AM	B90310

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 **2208914**
Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-10
Project: Trunk 2C
Collection Date: 8/15/2022 9:50:00 AM
Lab ID: 2208914-006 **Matrix:** SOIL **Received Date:** 8/16/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/16/2022 12:48:16 PM	69526
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/16/2022 12:53:11 PM	69521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/16/2022 12:53:11 PM	69521
Surr: DNOP	98.4	21-129		%Rec	1	8/16/2022 12:53:11 PM	69521
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/16/2022 10:57:02 AM	G90310
Surr: BFB	83.9	37.7-212		%Rec	1	8/16/2022 10:57:02 AM	G90310
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	8/16/2022 10:57:02 AM	B90310
Toluene	ND	0.033		mg/Kg	1	8/16/2022 10:57:02 AM	B90310
Ethylbenzene	ND	0.033		mg/Kg	1	8/16/2022 10:57:02 AM	B90310
Xylenes, Total	ND	0.065		mg/Kg	1	8/16/2022 10:57:02 AM	B90310
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/16/2022 10:57:02 AM	B90310

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#: **2208914**

18-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **MB-69526**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69526**	RunNo: **90309**
Prep Date: **8/16/2022**	Analysis Date: **8/16/2022**	SeqNo: **3222719** Units: **mg/Kg**

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

Sample ID: **LCS-69526**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69526**	RunNo: **90309**
Prep Date: **8/16/2022**	Analysis Date: **8/16/2022**	SeqNo: **3222720** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	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#: **2208914**

18-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **MB-69521**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69521**	RunNo: **90276**
Prep Date: **8/16/2022**	Analysis Date: **8/16/2022**	SeqNo: **3221703** 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	8.8		10.00		87.7	21	129			

Sample ID: **LCS-69521**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69521**	RunNo: **90276**
Prep Date: **8/16/2022**	Analysis Date: **8/16/2022**	SeqNo: **3221704** 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	86.6	64.4	127			
Surr: DNOP	3.6		5.000		72.9	21	129			

Sample ID: **2208914-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-5**	Batch ID: **69521**	RunNo: **90276**
Prep Date: **8/16/2022**	Analysis Date: **8/16/2022**	SeqNo: **3221714** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	73	14	46.25	31.08	90.4	36.1	154			
Surr: DNOP	3.9		4.625		84.8	21	129			

Sample ID: **2208914-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-5**	Batch ID: **69521**	RunNo: **90276**
Prep Date: **8/16/2022**	Analysis Date: **8/16/2022**	SeqNo: **3221715** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	88	14	47.85	31.08	119	36.1	154	18.7	33.9	
Surr: DNOP	4.1		4.785		85.1	21	129	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#: **2208914**

18-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G90310**	RunNo: **90310**
Prep Date:	Analysis Date: **8/16/2022**	SeqNo: **3222077** 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	830		1000		83.2	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G90310**	RunNo: **90310**
Prep Date:	Analysis Date: **8/16/2022**	SeqNo: **3222078** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.8	72.3	137			
Surr: BFB	1700		1000		175	37.7	212			

Sample ID: **2208914-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-5**	Batch ID: **G90310**	RunNo: **90310**
Prep Date:	Analysis Date: **8/16/2022**	SeqNo: **3222080** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	68	16	81.38	0	83.4	70	130			
Surr: BFB	5300		3255		163	37.7	212			

Sample ID: **2208914-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-5**	Batch ID: **G90310**	RunNo: **90310**
Prep Date:	Analysis Date: **8/16/2022**	SeqNo: **3222082** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	69	16	81.38	0	84.7	70	130	1.62	20	
Surr: BFB	5500		3255		168	37.7	212	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#: **2208914**

18-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B90310**	RunNo: **90310**
Prep Date:	Analysis Date: **8/16/2022**	SeqNo: **3222123** 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	1.0		1.000		100	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B90310**	RunNo: **90310**
Prep Date:	Analysis Date: **8/16/2022**	SeqNo: **3222124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: **2208914-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-6**	Batch ID: **B90310**	RunNo: **90310**
Prep Date:	Analysis Date: **8/16/2022**	SeqNo: **3222125** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.018	0.7087	0	95.2	68.8	120			
Toluene	0.69	0.035	0.7087	0.01219	95.7	73.6	124			
Ethylbenzene	0.68	0.035	0.7087	0	96.0	72.7	129			
Xylenes, Total	2.0	0.071	2.126	0.03558	94.2	75.7	126			
Surr: 4-Bromofluorobenzene	0.76		0.7087		107	70	130			

Sample ID: **2208914-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-6**	Batch ID: **B90310**	RunNo: **90310**
Prep Date:	Analysis Date: **8/16/2022**	SeqNo: **3222126** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.018	0.7087	0	95.8	68.8	120	0.629	20	
Toluene	0.70	0.035	0.7087	0.01219	97.6	73.6	124	1.91	20	
Ethylbenzene	0.70	0.035	0.7087	0	98.6	72.7	129	2.63	20	
Xylenes, Total	2.1	0.071	2.126	0.03558	97.7	75.7	126	3.60	20	
Surr: 4-Bromofluorobenzene	0.76		0.7087		108	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#: **2208914**

18-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb-69518**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69518**	RunNo: **90310**
Prep Date: **8/15/2022**	Analysis Date: **8/16/2022**	SeqNo: **3222136** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: **LCS-69518**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69518**	RunNo: **90310**
Prep Date: **8/15/2022**	Analysis Date: **8/16/2022**	SeqNo: **3222137** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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: 2208914 RcptNo: 1

Received By: Juan Rojas 8/16/2022 6:40:00 AM

Completed By: Juan Rojas 8/16/2022 7:05:52 AM

Reviewed By: NB 8/16/22 07:25

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: JNS 8/16/22

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	5.8	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: KSummers@ensolum.com

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

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

Turn-Around Time: Same-Day
☐ Standard ☒ Rush 100%

Project Name: Trunk 2C

Project #: 05A1226201

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.8-0.5=5.3 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208914	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)
8/15/22	9:00	S	S-5	1402 jar	Cool	-001	X	X					X			
8/15/22	9:10	S	S-6			-002	X	X					X			
8/15/22	9:20	S	S-7			-003	X	X					X			
8/15/22	9:30	S	S-8			-004	X	X					X			
8/15/22	9:40	S	S-9			-005	X	X					X			
8/15/22	9:50	S	S-10			-006	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/15/22	1438				8/15/22	1438
8/15/22	1749	Madison Walker		courier	8/16/22	6:40

Remarks:
PM Tom Long
Pay Key: RB21200
Non AFE# N60349

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

August 25, 2022

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

RE: Trunk 2C OrderNo.: 2208A79

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 13 sample(s) on 8/18/2022 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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-11
Project: Trunk 2C
Collection Date: 8/17/2022 2:00:00 PM
Lab ID: 2208A79-001 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 10:06:56 AM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/18/2022 12:38:58 PM	69592
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/18/2022 12:38:58 PM	69592
Surr: DNOP	94.2	21-129		%Rec	1	8/18/2022 12:38:58 PM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	8/18/2022 8:53:55 AM	G90389
Surr: BFB	107	37.7-212		%Rec	1	8/18/2022 8:53:55 AM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	8/18/2022 8:53:55 AM	B90389
Toluene	ND	0.044		mg/Kg	1	8/18/2022 8:53:55 AM	B90389
Ethylbenzene	ND	0.044		mg/Kg	1	8/18/2022 8:53:55 AM	B90389
Xylenes, Total	ND	0.087		mg/Kg	1	8/18/2022 8:53:55 AM	B90389
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	8/18/2022 8:53:55 AM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-12
Project: Trunk 2C
Collection Date: 8/17/2022 2:05:00 PM
Lab ID: 2208A79-002 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 10:19:20 AM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/18/2022 1:02:57 PM	69592
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	8/18/2022 1:02:57 PM	69592
Surr: DNOP	91.5	21-129		%Rec	1	8/18/2022 1:02:57 PM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/18/2022 9:17:25 AM	G90389
Surr: BFB	103	37.7-212		%Rec	1	8/18/2022 9:17:25 AM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	8/18/2022 9:17:25 AM	B90389
Toluene	ND	0.034		mg/Kg	1	8/18/2022 9:17:25 AM	B90389
Ethylbenzene	ND	0.034		mg/Kg	1	8/18/2022 9:17:25 AM	B90389
Xylenes, Total	ND	0.068		mg/Kg	1	8/18/2022 9:17:25 AM	B90389
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	8/18/2022 9:17:25 AM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-13
Project: Trunk 2C
Collection Date: 8/17/2022 2:10:00 PM
Lab ID: 2208A79-003 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	59		mg/Kg	20	8/18/2022 10:31:44 AM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/18/2022 1:26:53 PM	69592
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/18/2022 1:26:53 PM	69592
Surr: DNOP	95.8	21-129		%Rec	1	8/18/2022 1:26:53 PM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/18/2022 9:40:55 AM	G90389
Surr: BFB	99.2	37.7-212		%Rec	1	8/18/2022 9:40:55 AM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/18/2022 9:40:55 AM	B90389
Toluene	ND	0.035		mg/Kg	1	8/18/2022 9:40:55 AM	B90389
Ethylbenzene	ND	0.035		mg/Kg	1	8/18/2022 9:40:55 AM	B90389
Xylenes, Total	ND	0.070		mg/Kg	1	8/18/2022 9:40:55 AM	B90389
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	8/18/2022 9:40:55 AM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-14
Project: Trunk 2C
Collection Date: 8/17/2022 2:15:00 PM
Lab ID: 2208A79-004 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 10:44:09 AM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	30	12		mg/Kg	1	8/18/2022 1:50:51 PM	69592
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	8/18/2022 1:50:51 PM	69592
Surr: DNOP	97.8	21-129		%Rec	1	8/18/2022 1:50:51 PM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	8/18/2022 10:04:28 AM	G90389
Surr: BFB	106	37.7-212		%Rec	5	8/18/2022 10:04:28 AM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.088		mg/Kg	5	8/18/2022 10:04:28 AM	B90389
Toluene	ND	0.18		mg/Kg	5	8/18/2022 10:04:28 AM	B90389
Ethylbenzene	ND	0.18		mg/Kg	5	8/18/2022 10:04:28 AM	B90389
Xylenes, Total	ND	0.35		mg/Kg	5	8/18/2022 10:04:28 AM	B90389
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	5	8/18/2022 10:04:28 AM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-15
Project: Trunk 2C
Collection Date: 8/17/2022 2:20:00 PM
Lab ID: 2208A79-005 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 10:56:33 AM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/18/2022 2:14:51 PM	69592
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/18/2022 2:14:51 PM	69592
Surr: DNOP	98.4	21-129		%Rec	1	8/18/2022 2:14:51 PM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/18/2022 10:28:01 AM	G90389
Surr: BFB	103	37.7-212		%Rec	1	8/18/2022 10:28:01 AM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/18/2022 10:28:01 AM	B90389
Toluene	ND	0.037		mg/Kg	1	8/18/2022 10:28:01 AM	B90389
Ethylbenzene	ND	0.037		mg/Kg	1	8/18/2022 10:28:01 AM	B90389
Xylenes, Total	ND	0.074		mg/Kg	1	8/18/2022 10:28:01 AM	B90389
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	8/18/2022 10:28:01 AM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-16
Project: Trunk 2C
Collection Date: 8/17/2022 2:25:00 PM
Lab ID: 2208A79-006 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 11:33:47 AM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	200	13		mg/Kg	1	8/18/2022 2:38:45 PM	69592
Motor Oil Range Organics (MRO)	84	43		mg/Kg	1	8/18/2022 2:38:45 PM	69592
Surr: DNOP	104	21-129		%Rec	1	8/18/2022 2:38:45 PM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	8/18/2022 10:51:38 AM	G90389
Surr: BFB	105	37.7-212		%Rec	5	8/18/2022 10:51:38 AM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.091		mg/Kg	5	8/18/2022 10:51:38 AM	B90389
Toluene	ND	0.18		mg/Kg	5	8/18/2022 10:51:38 AM	B90389
Ethylbenzene	ND	0.18		mg/Kg	5	8/18/2022 10:51:38 AM	B90389
Xylenes, Total	ND	0.37		mg/Kg	5	8/18/2022 10:51:38 AM	B90389
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	5	8/18/2022 10:51:38 AM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-17
Project: Trunk 2C
Collection Date: 8/17/2022 2:30:00 PM
Lab ID: 2208A79-007 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 11:46:11 AM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/18/2022 10:18:58 AM	69592
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/18/2022 10:18:58 AM	69592
Surr: DNOP	88.1	21-129		%Rec	1	8/18/2022 10:18:58 AM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/18/2022 11:15:17 AM	G90389
Surr: BFB	110	37.7-212		%Rec	1	8/18/2022 11:15:17 AM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/18/2022 11:15:17 AM	B90389
Toluene	ND	0.036		mg/Kg	1	8/18/2022 11:15:17 AM	B90389
Ethylbenzene	ND	0.036		mg/Kg	1	8/18/2022 11:15:17 AM	B90389
Xylenes, Total	ND	0.072		mg/Kg	1	8/18/2022 11:15:17 AM	B90389
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	8/18/2022 11:15:17 AM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-18
Project: Trunk 2C
Collection Date: 8/17/2022 2:35:00 PM
Lab ID: 2208A79-008 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 11:58:35 AM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/18/2022 3:12:45 PM	69592
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/18/2022 3:12:45 PM	69592
Surr: DNOP	86.7	21-129		%Rec	1	8/18/2022 3:12:45 PM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/18/2022 11:38:53 AM	G90389
Surr: BFB	107	37.7-212		%Rec	1	8/18/2022 11:38:53 AM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/18/2022 11:38:53 AM	B90389
Toluene	ND	0.035		mg/Kg	1	8/18/2022 11:38:53 AM	B90389
Ethylbenzene	ND	0.035		mg/Kg	1	8/18/2022 11:38:53 AM	B90389
Xylenes, Total	ND	0.071		mg/Kg	1	8/18/2022 11:38:53 AM	B90389
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	8/18/2022 11:38:53 AM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-19
Project: Trunk 2C
Collection Date: 8/17/2022 2:40:00 PM
Lab ID: 2208A79-009 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 12:10:59 PM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/18/2022 10:46:59 AM	69592
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/18/2022 10:46:59 AM	69592
Surr: DNOP	88.8	21-129		%Rec	1	8/18/2022 10:46:59 AM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/18/2022 12:02:28 PM	G90389
Surr: BFB	106	37.7-212		%Rec	1	8/18/2022 12:02:28 PM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/18/2022 12:02:28 PM	B90389
Toluene	ND	0.037		mg/Kg	1	8/18/2022 12:02:28 PM	B90389
Ethylbenzene	ND	0.037		mg/Kg	1	8/18/2022 12:02:28 PM	B90389
Xylenes, Total	ND	0.073		mg/Kg	1	8/18/2022 12:02:28 PM	B90389
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	8/18/2022 12:02:28 PM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-20
Project: Trunk 2C
Collection Date: 8/17/2022 2:45:00 PM
Lab ID: 2208A79-010 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 12:23:24 PM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/18/2022 11:01:09 AM	69592
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2022 11:01:09 AM	69592
Surr: DNOP	88.5	21-129		%Rec	1	8/18/2022 11:01:09 AM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/18/2022 12:26:05 PM	G90389
Surr: BFB	107	37.7-212		%Rec	1	8/18/2022 12:26:05 PM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	8/18/2022 12:26:05 PM	B90389
Toluene	ND	0.037		mg/Kg	1	8/18/2022 12:26:05 PM	B90389
Ethylbenzene	ND	0.037		mg/Kg	1	8/18/2022 12:26:05 PM	B90389
Xylenes, Total	ND	0.074		mg/Kg	1	8/18/2022 12:26:05 PM	B90389
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	8/18/2022 12:26:05 PM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-21
Project: Trunk 2C
Collection Date: 8/17/2022 2:50:00 PM
Lab ID: 2208A79-011 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 12:35:49 PM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/18/2022 11:15:09 AM	69592
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/18/2022 11:15:09 AM	69592
Surr: DNOP	89.6	21-129		%Rec	1	8/18/2022 11:15:09 AM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/18/2022 1:13:32 PM	G90389
Surr: BFB	109	37.7-212		%Rec	1	8/18/2022 1:13:32 PM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	8/18/2022 1:13:32 PM	B90389
Toluene	ND	0.038		mg/Kg	1	8/18/2022 1:13:32 PM	B90389
Ethylbenzene	ND	0.038		mg/Kg	1	8/18/2022 1:13:32 PM	B90389
Xylenes, Total	ND	0.077		mg/Kg	1	8/18/2022 1:13:32 PM	B90389
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	8/18/2022 1:13:32 PM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-22
Project: Trunk 2C
Collection Date: 8/17/2022 2:55:00 PM
Lab ID: 2208A79-012 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 12:48:13 PM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/18/2022 11:29:12 AM	69592
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/18/2022 11:29:12 AM	69592
Surr: DNOP	93.8	21-129		%Rec	1	8/18/2022 11:29:12 AM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/18/2022 1:37:13 PM	G90389
Surr: BFB	108	37.7-212		%Rec	1	8/18/2022 1:37:13 PM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	8/18/2022 1:37:13 PM	B90389
Toluene	ND	0.047		mg/Kg	1	8/18/2022 1:37:13 PM	B90389
Ethylbenzene	ND	0.047		mg/Kg	1	8/18/2022 1:37:13 PM	B90389
Xylenes, Total	ND	0.094		mg/Kg	1	8/18/2022 1:37:13 PM	B90389
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	8/18/2022 1:37:13 PM	B90389

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 **2208A79**
Date Reported: **8/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-23
Project: Trunk 2C
Collection Date: 8/17/2022 3:00:00 PM
Lab ID: 2208A79-013 **Matrix:** SOIL **Received Date:** 8/18/2022 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	8/18/2022 1:00:37 PM	69596
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/18/2022 11:43:25 AM	69592
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/18/2022 11:43:25 AM	69592
Surr: DNOP	88.7	21-129		%Rec	1	8/18/2022 11:43:25 AM	69592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/18/2022 2:01:01 PM	G90389
Surr: BFB	112	37.7-212		%Rec	1	8/18/2022 2:01:01 PM	G90389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	8/18/2022 2:01:01 PM	B90389
Toluene	ND	0.038		mg/Kg	1	8/18/2022 2:01:01 PM	B90389
Ethylbenzene	ND	0.038		mg/Kg	1	8/18/2022 2:01:01 PM	B90389
Xylenes, Total	ND	0.076		mg/Kg	1	8/18/2022 2:01:01 PM	B90389
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	8/18/2022 2:01:01 PM	B90389

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#: **2208A79**

25-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **MB-69596**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69596**	RunNo: **90387**
Prep Date: **8/18/2022**	Analysis Date: **8/18/2022**	SeqNo: **3226928** Units: **mg/Kg**

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

Sample ID: **LCS-69596**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69596**	RunNo: **90387**
Prep Date: **8/18/2022**	Analysis Date: **8/18/2022**	SeqNo: **3226929** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	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#: **2208A79**

25-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **MB-69592**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69592**	RunNo: **90394**
Prep Date: **8/18/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225063** 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	9.0		10.00		89.7	21	129			

Sample ID: **LCS-69592**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69592**	RunNo: **90394**
Prep Date: **8/18/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225065** 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	90.8	64.4	127			
Surr: DNOP	4.5		5.000		90.3	21	129			

Sample ID: **2208A79-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-11**	Batch ID: **69592**	RunNo: **90393**
Prep Date: **8/18/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225974** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	14	47.80	0	95.3	36.1	154			
Surr: DNOP	4.2		4.780		87.9	21	129			

Sample ID: **2208A79-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-11**	Batch ID: **69592**	RunNo: **90393**
Prep Date: **8/18/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225975** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	14	47.80	0	83.2	36.1	154	13.6	33.9	
Surr: DNOP	3.6		4.780		75.3	21	129	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#: **2208A79**

25-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G90389**	RunNo: **90389**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225345** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G90389**	RunNo: **90389**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225346** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	72.3	137			
Surr: BFB	2100		1000		208	37.7	212			

Sample ID: **2208a79-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-11**	Batch ID: **G90389**	RunNo: **90389**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225362** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.4	21.83	0	101	70	130			
Surr: BFB	1800		873.4		204	37.7	212			

Sample ID: **2208a79-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-11**	Batch ID: **G90389**	RunNo: **90389**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225363** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.4	21.83	0	102	70	130	0.552	20	
Surr: BFB	1800		873.4		209	37.7	212	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#: **2208A79**

25-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B90389**	RunNo: **90389**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225393** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B90389**	RunNo: **90389**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225394** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.6	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	70	130			

Sample ID: **2208a79-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-12**	Batch ID: **B90389**	RunNo: **90389**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225416** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.017	0.6770	0	95.3	68.8	120			
Toluene	0.66	0.034	0.6770	0	98.1	73.6	124			
Ethylbenzene	0.66	0.034	0.6770	0	97.1	72.7	129			
Xylenes, Total	2.0	0.068	2.031	0.01273	95.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.65		0.6770		96.2	70	130			

Sample ID: **2208a79-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-12**	Batch ID: **B90389**	RunNo: **90389**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225417** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.017	0.6770	0	92.7	68.8	120	2.69	20	
Toluene	0.65	0.034	0.6770	0	96.0	73.6	124	2.14	20	
Ethylbenzene	0.65	0.034	0.6770	0	95.5	72.7	129	1.60	20	
Xylenes, Total	1.9	0.068	2.031	0.01273	93.9	75.7	126	2.09	20	
Surr: 4-Bromofluorobenzene	0.66		0.6770		97.1	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

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: 2208A79 | RcptNo: 1

Received By: Juan Rojas 8/18/2022 6:40:00 AM

Completed By: Juan Rojas 8/18/2022 6:59:33 AM

Reviewed By: 8-18-22

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: JR 8/18/22

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	1.1	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 S. Rio Grande, Suite A, Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolumco

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

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

Turn-Around Time:
☐ Standard ☒ Rush 1 Day Sample

Project Name: Trunk 2C

Project #: 05A1226201

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.1-0=1.1 (°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 2208A79	BTEX / ~~MTBE~~ / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/17/22	14:00	S	S-11	1402 jar	Cool	-001	X	X					X			
	14:05	S	S-12			-002	X	X					X			
	14:10	S	S-13			-003	X	X					X			
	14:15	S	S-14			-004	X	X					X			
	14:20	S	S-15			-005	X	X					X			
	14:25	S	S-16			-006	X	X					X			
	14:30	S	S-17			-007	X	X					X			
	14:35	S	S-18			-008	X	X					X			
	14:40	S	S-19			-009	X	X					X			
	14:45	S	S-20			-010	X	X					X			
	14:50	S	S-21			-011	X	X					X			
	14:55	S	S-22			-012	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/17/22	1703				8/17/22	1703
8/17/22	1900			courier	8/18/22	6:40

Remarks:
PM Tom Long
Paykey: PB321200
Non AFE# N60349

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

August 26, 2022

Kyle Summers

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

RE: Trunk 2C OrderNo.: 2208D44

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/23/2022 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 **2208D44**
Date Reported: **8/26/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-24
Project: Trunk 2C
Collection Date: 8/22/2022 11:00:00 AM
Lab ID: 2208D44-001 **Matrix:** SOIL **Received Date:** 8/23/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/23/2022 12:27:19 PM	69695
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/23/2022 11:36:02 AM	69685
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/23/2022 11:36:02 AM	69685
Surr: DNOP	95.4	21-129		%Rec	1	8/23/2022 11:36:02 AM	69685
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	8/23/2022 9:07:01 AM	G90483
Surr: BFB	106	37.7-212		%Rec	1	8/23/2022 9:07:01 AM	G90483
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	8/23/2022 9:07:01 AM	B90483
Toluene	ND	0.032		mg/Kg	1	8/23/2022 9:07:01 AM	B90483
Ethylbenzene	ND	0.032		mg/Kg	1	8/23/2022 9:07:01 AM	B90483
Xylenes, Total	ND	0.065		mg/Kg	1	8/23/2022 9:07:01 AM	B90483
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	8/23/2022 9:07:01 AM	B90483

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#: **2208D44**

26-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **MB-69695**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69695**	RunNo: **90492**
Prep Date: **8/23/2022**	Analysis Date: **8/23/2022**	SeqNo: **3232550** Units: **mg/Kg**

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

Sample ID: **LCS-69695**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69695**	RunNo: **90492**
Prep Date: **8/23/2022**	Analysis Date: **8/23/2022**	SeqNo: **3232551** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of 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#: **2208D44**

26-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **2208D44-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-24**	Batch ID: **69685**	RunNo: **90486**
Prep Date: **8/23/2022**	Analysis Date: **8/23/2022**	SeqNo: **3231308** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	14	47.39	0	88.7	36.1	154			
Surr: DNOP	3.5		4.739		73.9	21	129			

Sample ID: **2208D44-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-24**	Batch ID: **69685**	RunNo: **90486**
Prep Date: **8/23/2022**	Analysis Date: **8/23/2022**	SeqNo: **3231309** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	49.21	0	91.1	36.1	154	6.35	33.9	
Surr: DNOP	3.8		4.921		76.8	21	129	0	0	

Sample ID: **LCS-69685**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69685**	RunNo: **90486**
Prep Date: **8/23/2022**	Analysis Date: **8/23/2022**	SeqNo: **3231313** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.0	64.4	127			
Surr: DNOP	3.6		5.000		71.6	21	129			

Sample ID: **MB-69685**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69685**	RunNo: **90486**
Prep Date: **8/23/2022**	Analysis Date: **8/23/2022**	SeqNo: **3231315** 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	9.5		10.00		95.0	21	129			

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#: **2208D44**

26-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G90483**	RunNo: **90483**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3231925** 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	1200		1000		119	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G90483**	RunNo: **90483**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3231926** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB	2100		1000		209	37.7	212			

Sample ID: **2208d44-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-24**	Batch ID: **G90483**	RunNo: **90483**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3231927** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.2	16.14	0	105	70	130			
Surr: BFB	1300		645.6		206	37.7	212			

Sample ID: **2208d44-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-24**	Batch ID: **G90483**	RunNo: **90483**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3231928** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.2	16.14	0	104	70	130	1.76	20	
Surr: BFB	1300		645.6		208	37.7	212	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#: **2208D44**

26-Aug-22

Client: ENSOLUM

Project: Trunk 2C

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B90483**	RunNo: **90483**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3231951** 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	0.93		1.000		92.7	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B90483**	RunNo: **90483**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3231952** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.9	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	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: 2208D44 RcptNo: 1

Received By: Juan Rojas 8/23/2022 7:00:00 AM

Completed By: Juan Rojas 8/23/2022 7:12:26 AM

Reviewed By: JRS 8/23/22

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: JRS 8/23/22

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	0.7	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: Trunk 2C

Project #: 05A1226201

Project Manager: K. Summers

Sampler: L. Daniel

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.5+6.2=6.7 (°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. 2208D44	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)
8/22/22	11:00	S	S-24	1 4oz jar	Cool	-001	X	X					X			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/22/22	1403			Courier	8/22/22	1403
8/22/22	1752			Courier	8/23/22	7:00

Remarks: PM Tom Long
Pay Key: RB21200
Non AFE: N60349
Same Day

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

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

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

CONDITIONS

Action 154556

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 154556
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/14/2022