



CLOSURE REPORT

Property:

Trunk 3A (07/12/23)
Unit Letter G, S28 T28N R12W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2320632087

December 12, 2023

Ensolum Project No. 05A1226263

Prepared for:

Enterprise Field Services, LLC
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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Trunk 3A (07/12/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2320632087
Location:	36.636101° North, 108.1161101° West Unit Letter G, Section 28, Township 28 North, Range 12 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 12, 2023, a release of natural gas from the Trunk 3A pipeline was identified by a third party. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. In addition, Enterprise initiated activities to facilitate the temporary repair of the pipeline. Permanent pipeline repair and soil remediation activities began on September 6, 2023.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NNEPA and the NM EMNRD OCD. During the evaluation and remediation of the Site, 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. 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. Additionally, Ensolum utilized the New Mexico WQCC GQS (20.6.2 NMAC *Groundwater and Surface Water Protection*) to evaluate groundwater conditions in the open excavation. 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 or in the adjacent PLSS sections (**Figure A, Appendix B**). During remediation activities water was encountered at approximately 16 feet below grade surface (bgs).

- Four cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site and in the adjacent PLSS sections. These CPWs are depicted on **Figure B (Appendix B)**. Documentation for the cathodic protection well located near the G.C.U #174 well location indicates a depth to water of 120 feet bgs. This cathodic protection well is located approximately 0.33 miles southwest of the Site and is approximately 7 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Gallegos Canyon Unit 228E well location indicates a depth to water of 100 feet bgs. This cathodic protection well is located approximately 0.87 miles north of the Site and is approximately 101 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the G.C.U #218-E well location indicates a depth to water of 120 feet bgs. This cathodic protection well is located approximately 1.28 miles northeast of the Site and is approximately 6 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Gallegos C.U 227E well location indicates a depth to water between 110 feet and 120 feet bgs. This cathodic protection well is located approximately 1.68 miles northwest of the Site and is approximately 54 feet lower in elevation than the Site.
- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C, Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D, Appendix B**).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E, Appendix B**).
- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E, Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F, Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G, Appendix B**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H, Appendix B**).

Based on available information Enterprise 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).

Cleanup goals for groundwater at the Site include:

WQCC BTEX Standards for Groundwater		
Constituent ⁴	Method	Limit
Xylenes	EPA SW-846 Method 8021 or 8260	620 µg/L
Ethylbenzene	EPA SW-846 Method 8021 or 8260	700 µg/L
Toluene	EPA SW-846 Method 8021 or 8260	1,000 µg/L
Benzene	EPA SW-846 Method 8021 or 8260	5 µg/L

⁴ – Constituent concentrations are in micrograms per liter (µg/L).

3.0 SOIL AND WATER REMEDIATION ACTIVITIES

On September 6, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sunland Construction Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

During remediation activities, water was encountered at approximately 16 feet bgs. Approximately 450 barrels (bbls) of water with condensate was removed from the excavation utilizing a spec-truck and was subsequently transported to Enterprise Blanco Storage facility in Bloomfield, NM for separation. Upon completion of pipeline repair and soil remediation activities, Enterprise corresponded with the NNEPA and proposed the installation of monitoring wells to further evaluate groundwater conditions. A work plan will be submitted to the NNEPA for approval. The regulatory correspondence is provided in **Appendix C**.

The first excavation measured approximately 15 feet long and 15 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 16.5 feet bgs. The second excavation measured approximately 23.5 feet long and 15 feet wide at the maximum extents. The maximum depth of the second excavation measured approximately 16 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sand.

Approximately 650 cubic yards (yd³) of petroleum hydrocarbon-affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix D**. The excavations were backfilled with imported fill and then contoured to the surrounding topography.

Figure 3A is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). **Figure 3B** is a map that identifies the approximate water sample location 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 E**.

4.0 SOIL AND WATER 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 17 composite soil samples (B-1, Wall-1, S-2 through S-9, and 2S-1 through 2S-7) from the excavations for laboratory analysis. In addition, one water sample (W-1) was collected from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) sample area or less per guidelines outlined in Section D of 19.15.29.12 NMAC. The excavator bucket was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix C**.

First Sampling Event

On July 21, 2023, the initial pipeline repair excavation was sampled to evaluate the magnitude of petroleum hydrocarbon impact. Composite soil samples B-1 (3') and Wall-1 (0' to 3') were collected from the floor and walls of the excavation. The soil analytical results indicated exceedances of the applicable NM EMNRD OCD closure criteria.

Second Sampling Event

After the excavation was extended and deepened, on September 7, 2023, sampling was again performed at the Site. Soils associated with composite soil samples B-1 and Wall-1 were removed by excavation and transported to the landfarm for disposal/remediation. Composite soil samples S-2 (0' to 10'), S-3 (0' to 10'), S-4 (0' to 10'), and S-5 (0' to 10') were collected from the walls of the excavation. On September 8, 2023, water with condensate was removed from excavation and transported to the Enterprise Blanco Storage facility for separation.

Third Sampling Event

On September 12, 2023, a third sampling event was performed at the Site. Composite soil samples S-6 (10' to 16.5'), S-7 (10' to 16.5'), S-8 (10' to 16.5'), and S-9 (10' to 16.5') were collected from the walls of the excavation. Throughout the week (from September 11, 2023, to September 15, 2023), water with condensate was removed from excavation and transported to the Enterprise Blanco Storage facility for separation.

Fourth Sampling Event

On September 18, 2023, and September 19, 2023, water with condensate was removed from excavation and transported to the Enterprise Blanco Storage facility for separation. On September 20, 2023, a fourth sampling event was performed at the Site. A water sample (WS-1) was collected from the open excavation utilizing a disposable bailer and was subsequently submitted for laboratory analysis to evaluate the potential water impact at the Site. Subsequent water analytical results for WS-1 identified benzene, toluene, total xylenes, and naphthalene concentrations that exceeded the applicable WQCC standards.

Fifth Sampling Event

During pipeline repair activities, a leak was detected adjacent to the initial excavation, resulting in a second excavation. On October 17, 2023, sampling was performed at the Site. Composite soil samples 2S-1 (0' to 16'), 2S-2 (0' to 16'), 2S-3 (0' to 16'), 2S-4 (0' to 16'), 2S-5 (0' to 16'), 2S-6 (0' to 16'), and 2S-7 (8' to 16') were collected from the walls of the second excavation.

All 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 Eurofins Environment Testing South

Central, LLC (formerly Hall Environmental Analysis Laboratory) of Albuquerque, NM, under proper chain-of-custody procedures.

5.0 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 water sample collected from the open excavation was analyzed for concentrations of VOCs using EPA SW-846 Method 8260 and TPH GRO/DRO/MRO using EPA SW-846 Method 8015.

The laboratory analytical results are summarized in **Table 1** and **Table 2 (Appendix F)**. **Table 2** only identifies the constituents that indicated a concentration above the laboratory practical quantitation limits (PQLs) or reporting limits (RLs). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.

6.0 DATA EVALUATION

6.1 Soil Data Evaluation

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory PQLs/RLs associated with the composite soil samples (S-2 through S-9 and 2S-1 through 2S-7) to the applicable NM EMNRD OCD closure criteria. Soil associated with samples B-1 and Wall-1 was removed by excavation and these sample results are not included in the following discussion. The soil laboratory analytical results are summarized in **Table 1 (Appendix F)**.

- The laboratory analytical results for all composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-3, S-7, and S-9 indicate total BTEX concentrations of 0.069 mg/kg, 0.13 mg/kg, and 0.30 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil sample S-9 indicates a combined TPH GRO/DRO/MRO concentration of 3.3 mg/kg, which is less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for all composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg.

6.2 Water Data Evaluation

Ensolum compared the laboratory analytical result associated with the water sample (W-1) to the NM WQCC Human Health Standards (HHSs) and Domestic Water Supply Standards (DWSSs). The result of the water sample analyses is summarized in **Table 2** of **Appendix F**. The following discussion only includes the VOC constituents with an established WQCC standard. The remaining VOC and TPH constituents that indicated a reported concentration above the laboratory PQLs/ RLs are summarized in **Table 2 (Appendix F)**.

- The laboratory analytical result for water sample W-1 indicates a benzene concentration of 2,000 µg/L, which exceeds the WQCC HHS of 5 µg/L.
- The laboratory analytical result for water sample W-1 indicates a toluene concentration of 5,400 µg/L, which exceeds the WQCC HHS of 1,000 µg/L.
- The laboratory analytical result for water sample W-1 indicates an ethylbenzene concentration of 300 µg/L, which is below the WQCC HHS of 700 µg/L.
- The laboratory analytical result for water sample W-1 indicates a total xylene concentration of 2,900 µg/L, which exceeds the WQCC HHS of 620 µg/L.
- The laboratory analytical result for water sample W-1 indicates a naphthalene concentration of 120 µg/L, which exceeds the WQCC HHS of 30 µg/L.

7.0 RECLAMATION

The excavations were backfilled with imported fill and then contoured to the surrounding topography.

8.0 FINDINGS AND RECOMMENDATION

- Seventeen composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, total BTEX, chloride, or TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 650 yd³ of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavations were backfilled with imported fill and then contoured to the surrounding topography.
- One water sample was collected from the Site. Based on the laboratory analytical results for the water sample, COC exceedances were identified in the water. Benzene, toluene, total xylenes, and naphthalene concentrations were identified above the applicable WQCC standards.

Based on field observations and laboratory analytical results, additional investigation appears warranted at this time. Enterprise will submit a work plan to the NNEPA that proposes the installation of monitoring wells at the Site to evaluate petroleum hydrocarbon impact to groundwater.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

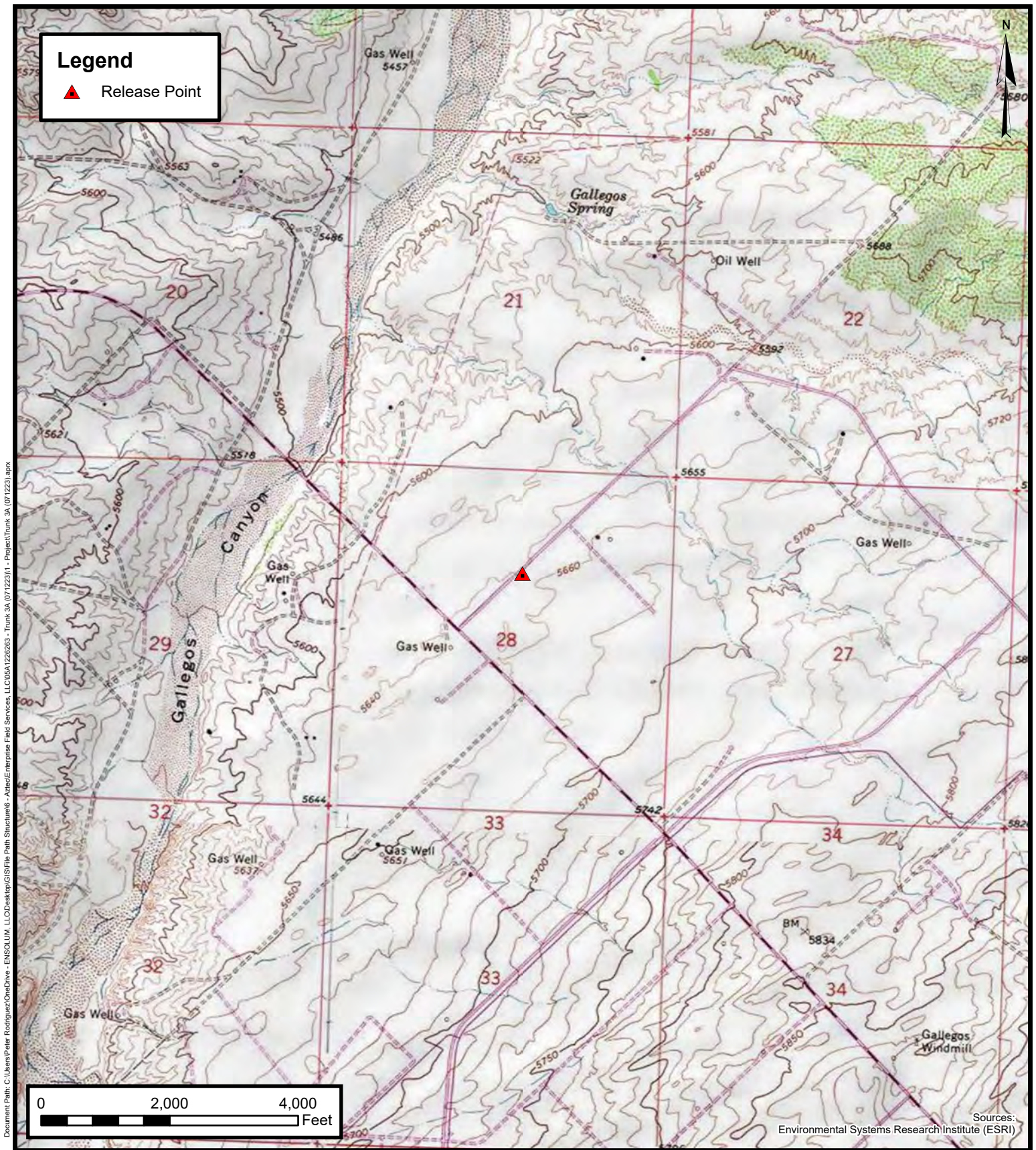
9.3 Reliance

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



APPENDIX A

Figures



Topographic Map

Enterprise Field Services, LLC
Trunk 3A (07/12/23)

Project Number: 05A1226263

Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

FIGURE

1



Site Vicinity Map

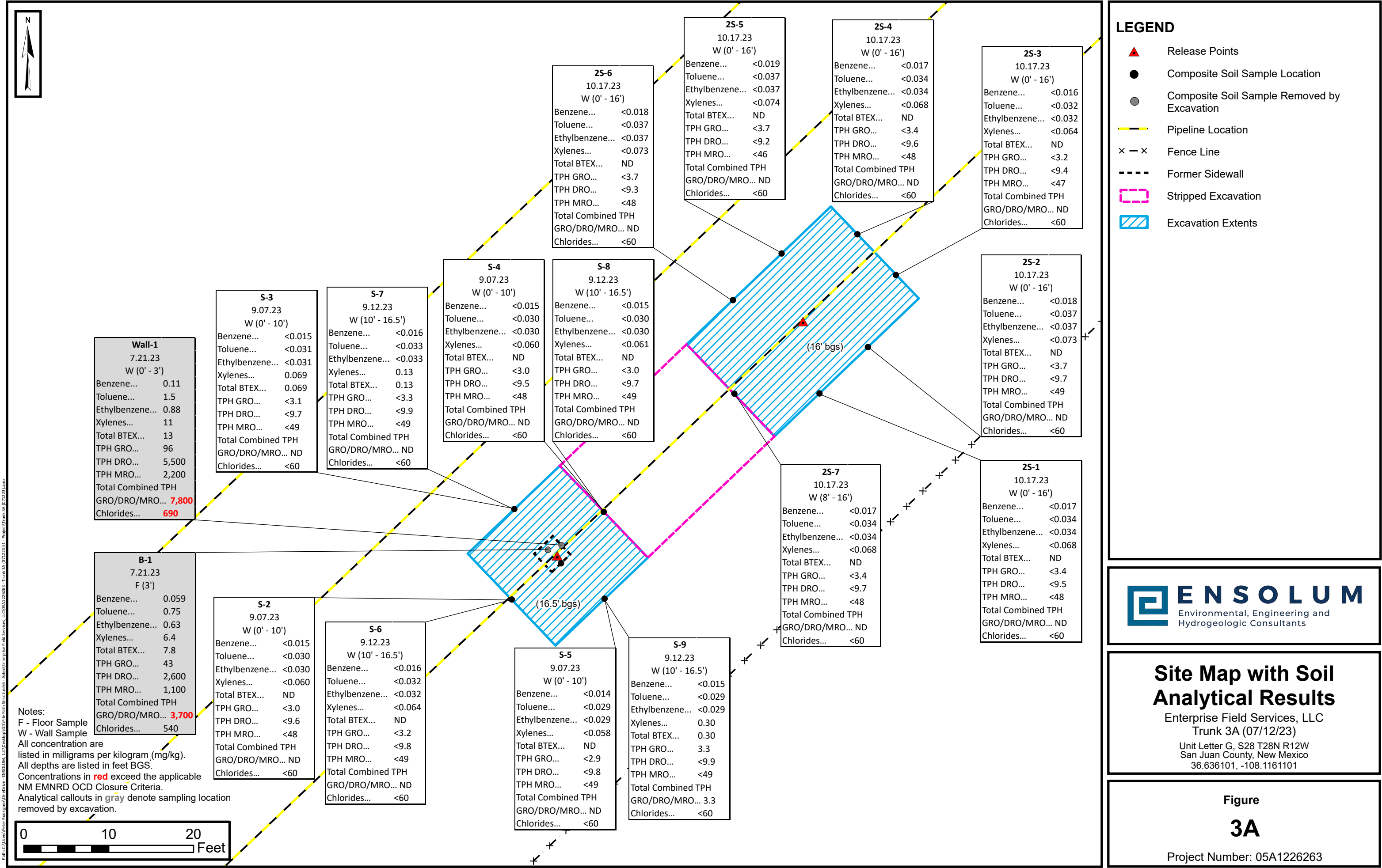
Enterprise Field Services, LLC
Trunk 3A (07/12/23)

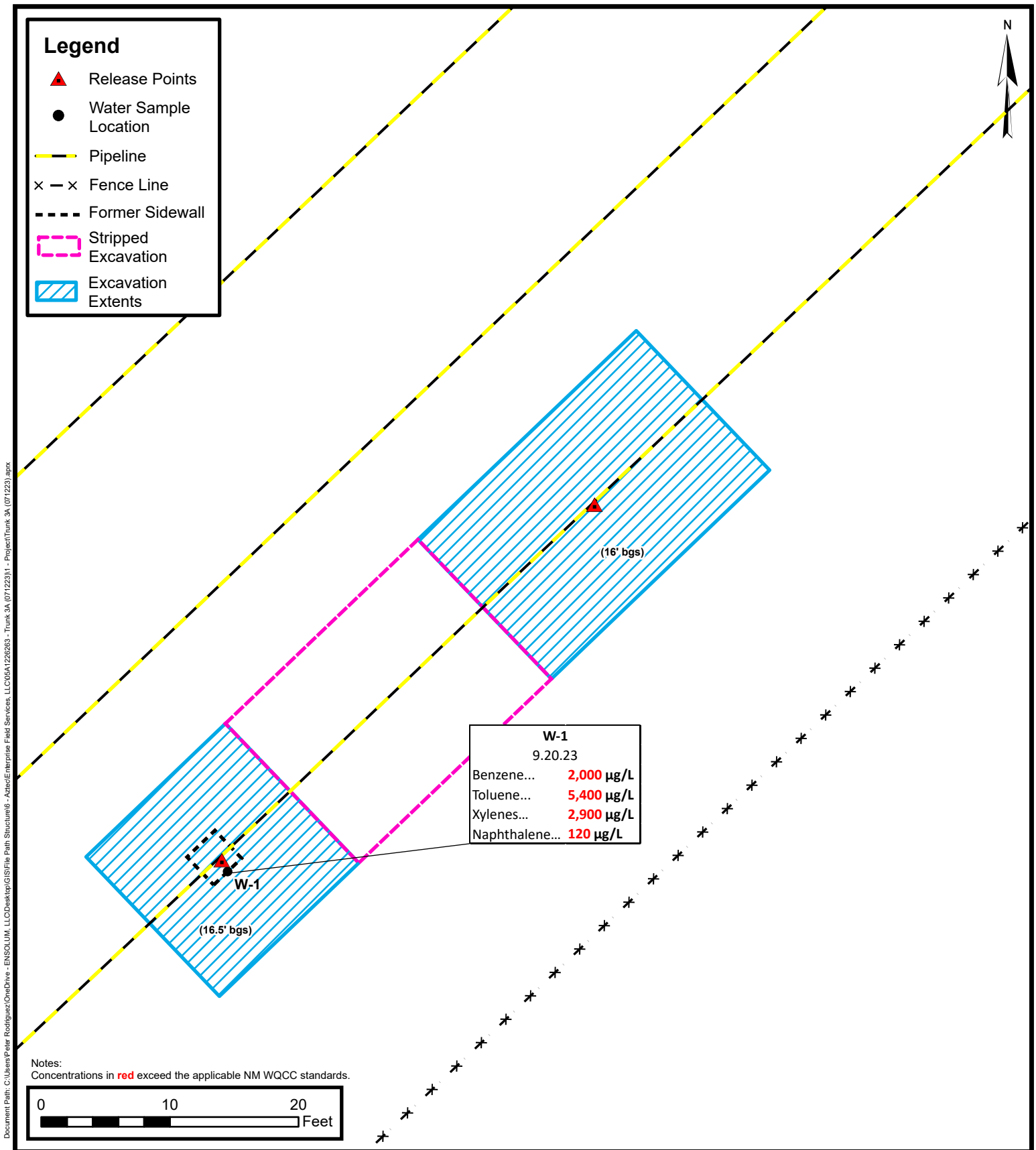
Project Number: 05A1226263

Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

FIGURE

2





Site Map with WQCC Standard Exceedances

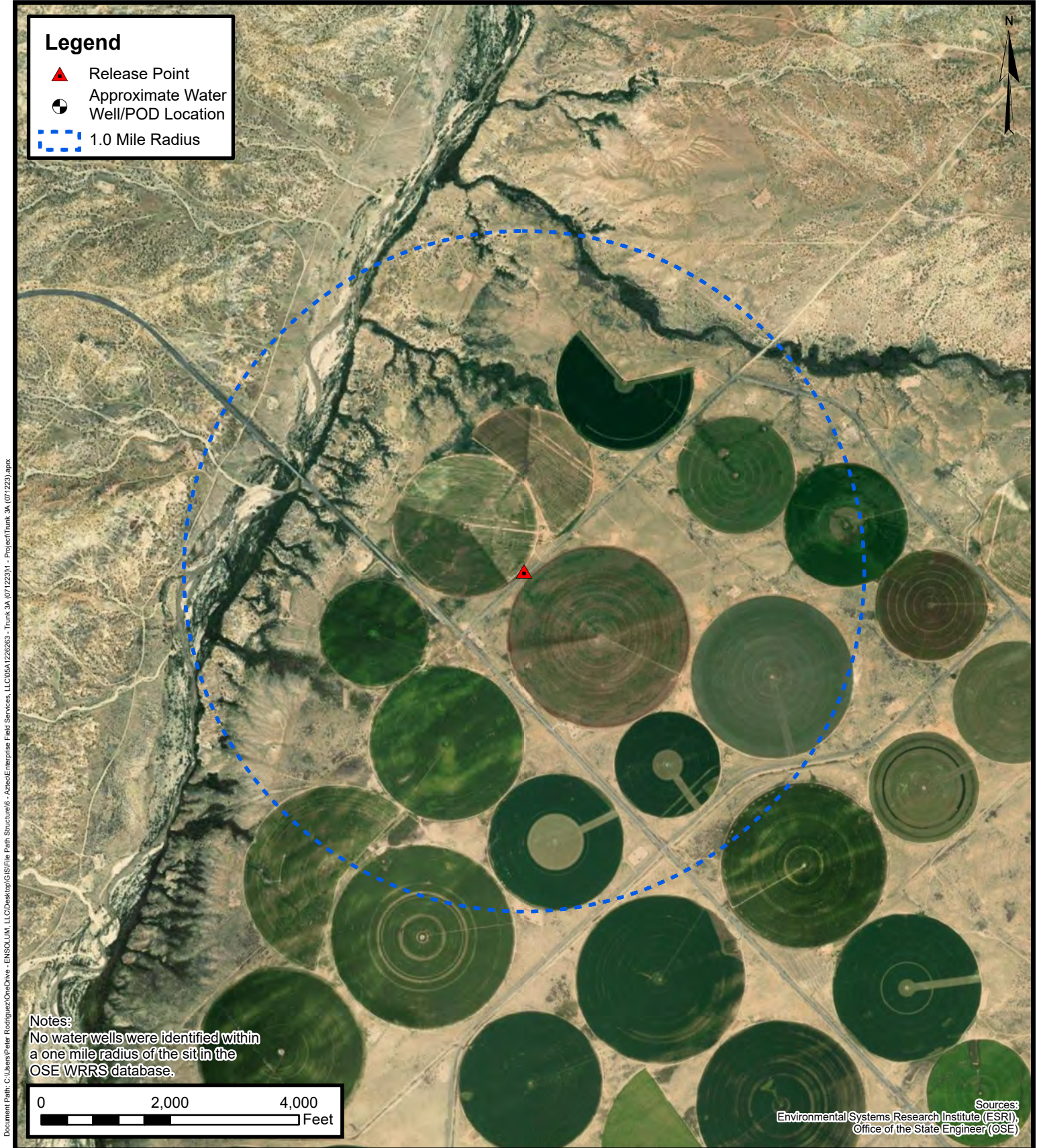
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Trunk 3A (07/12/23)
Project Number: 05A1226263
Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

FIGURE
3B



APPENDIX B

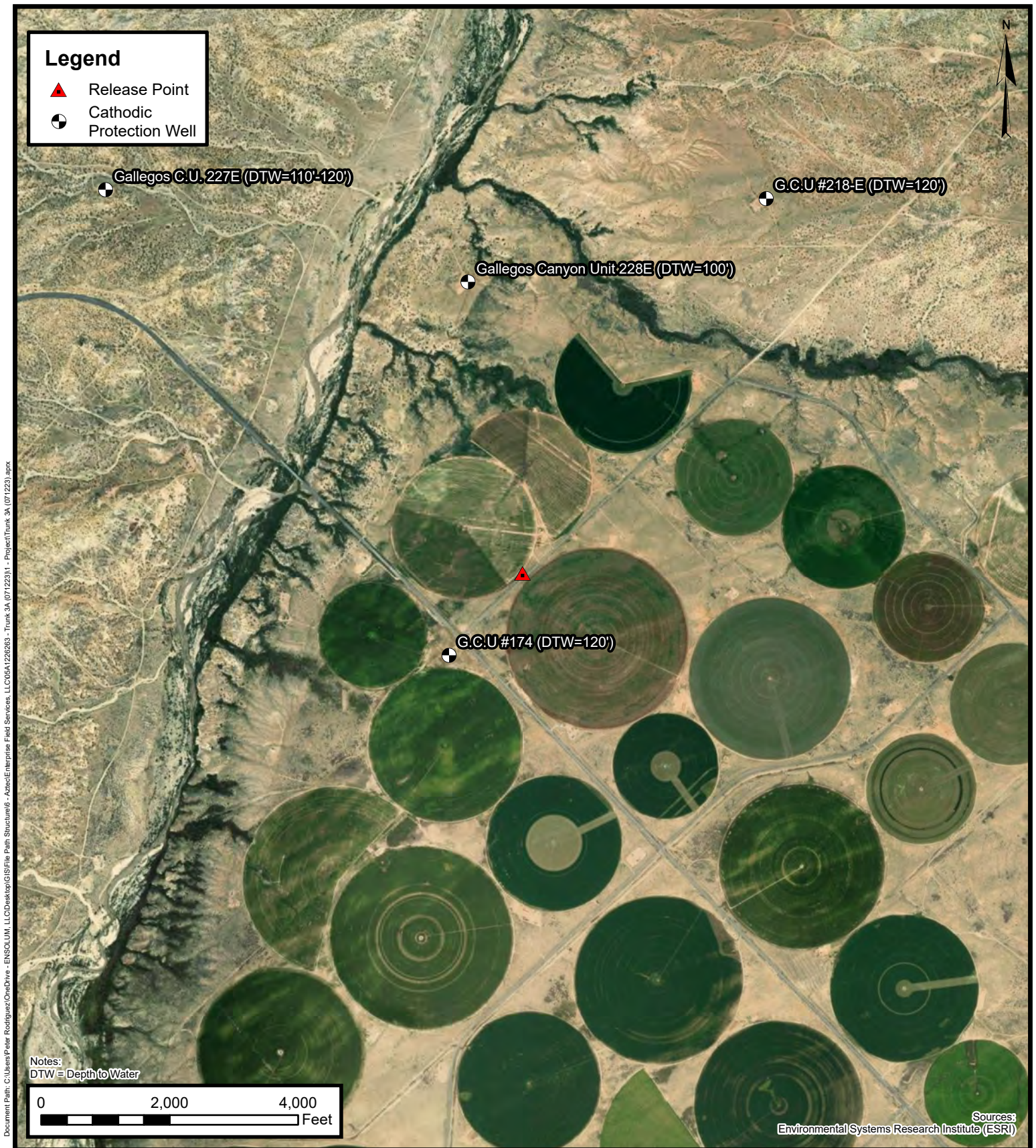
Siting Figures and Documentation



1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
Trunk 3A (07/12/23)
Project Number: 05A1226263
Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

**FIGURE
A**



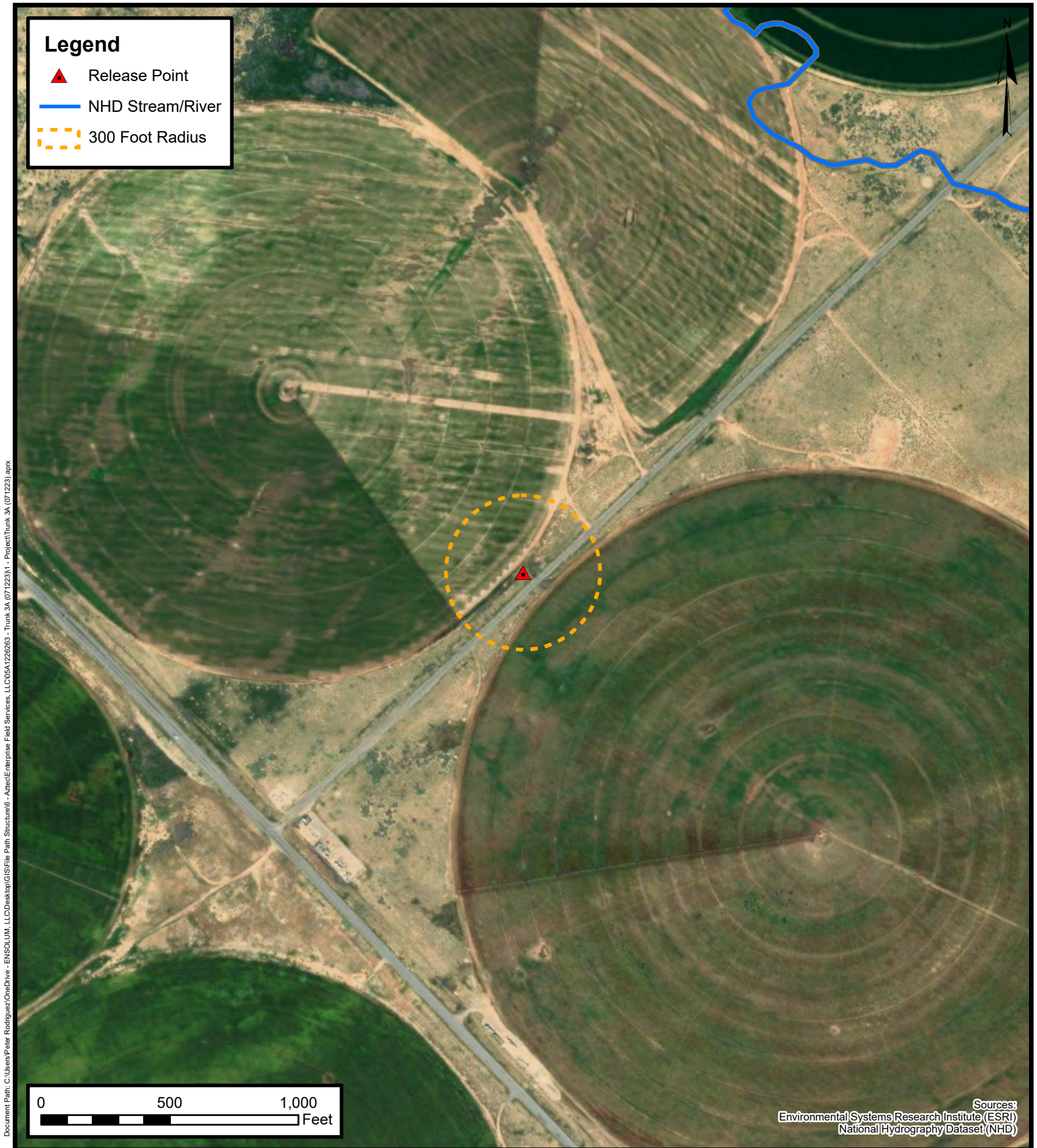
Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
Trunk 3A (07/12/23)

Project Number: 05A1226263

Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

**FIGURE
B**



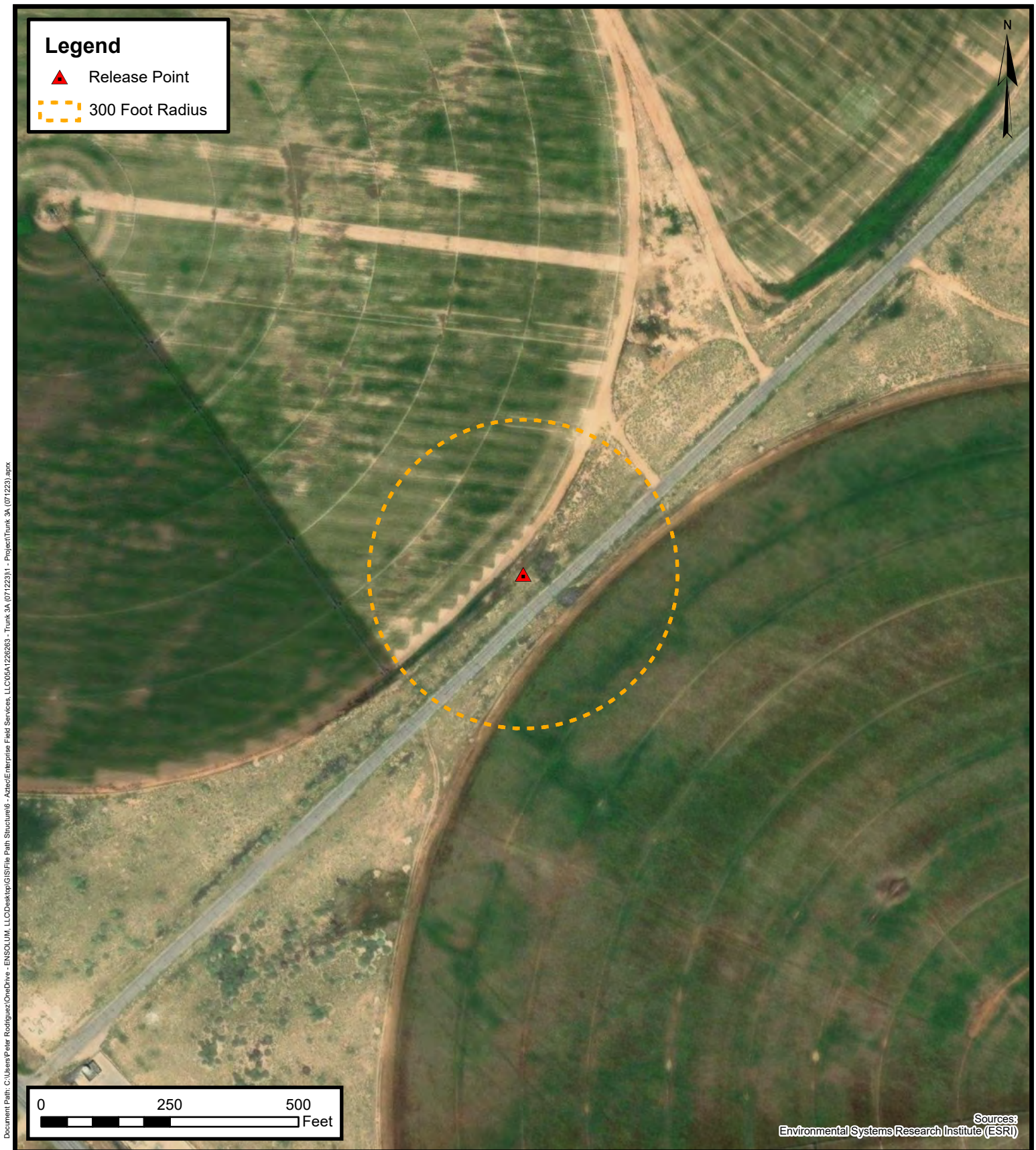
300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Trunk 3A (07/12/23)

Project Number: 05A1226263

Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

FIGURE
C



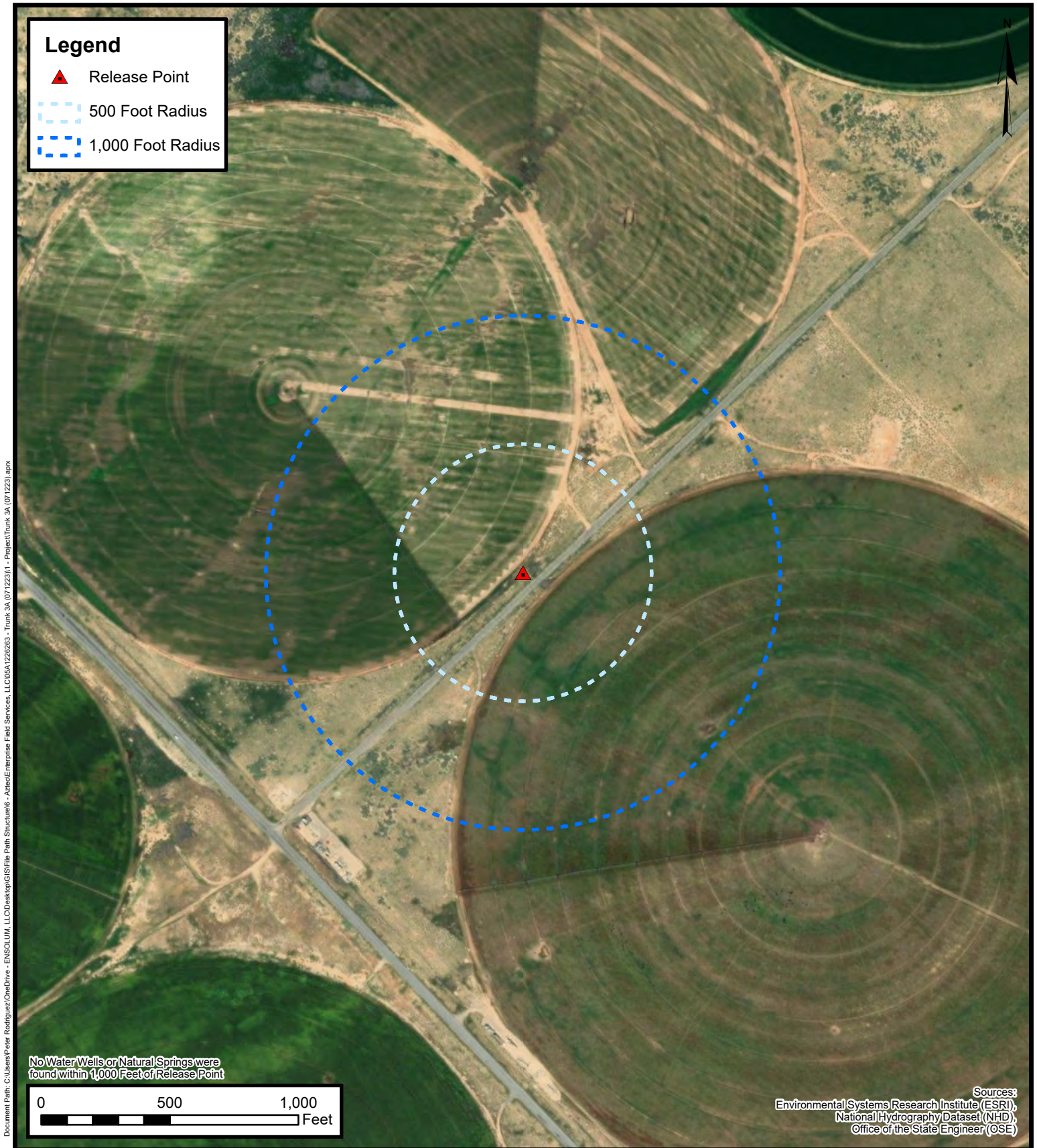
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Trunk 3A (07/12/23)

Project Number: 05A1226263

Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

**FIGURE
D**



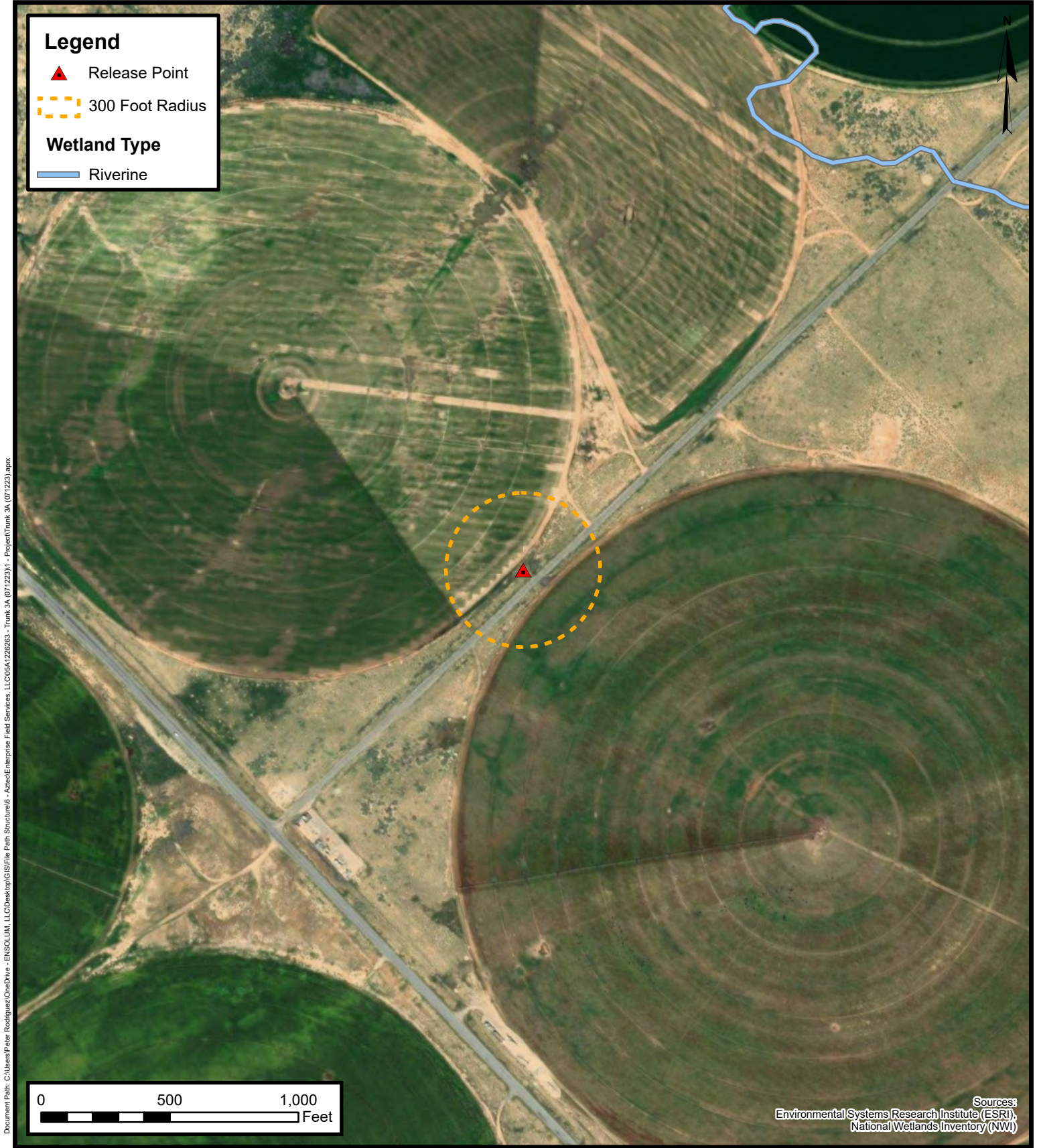
**Water Well and
Natural Spring Location**

Enterprise Field Services, LLC
Trunk 3A (07/12/23)

Project Number: 05A1226263

Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

**FIGURE
E**



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arctco\Enterprise Field Services, LLC\05A1226263 - Trunk 3A (071223)11 - Project\Trunk 3A (071223).aprx



Wetlands

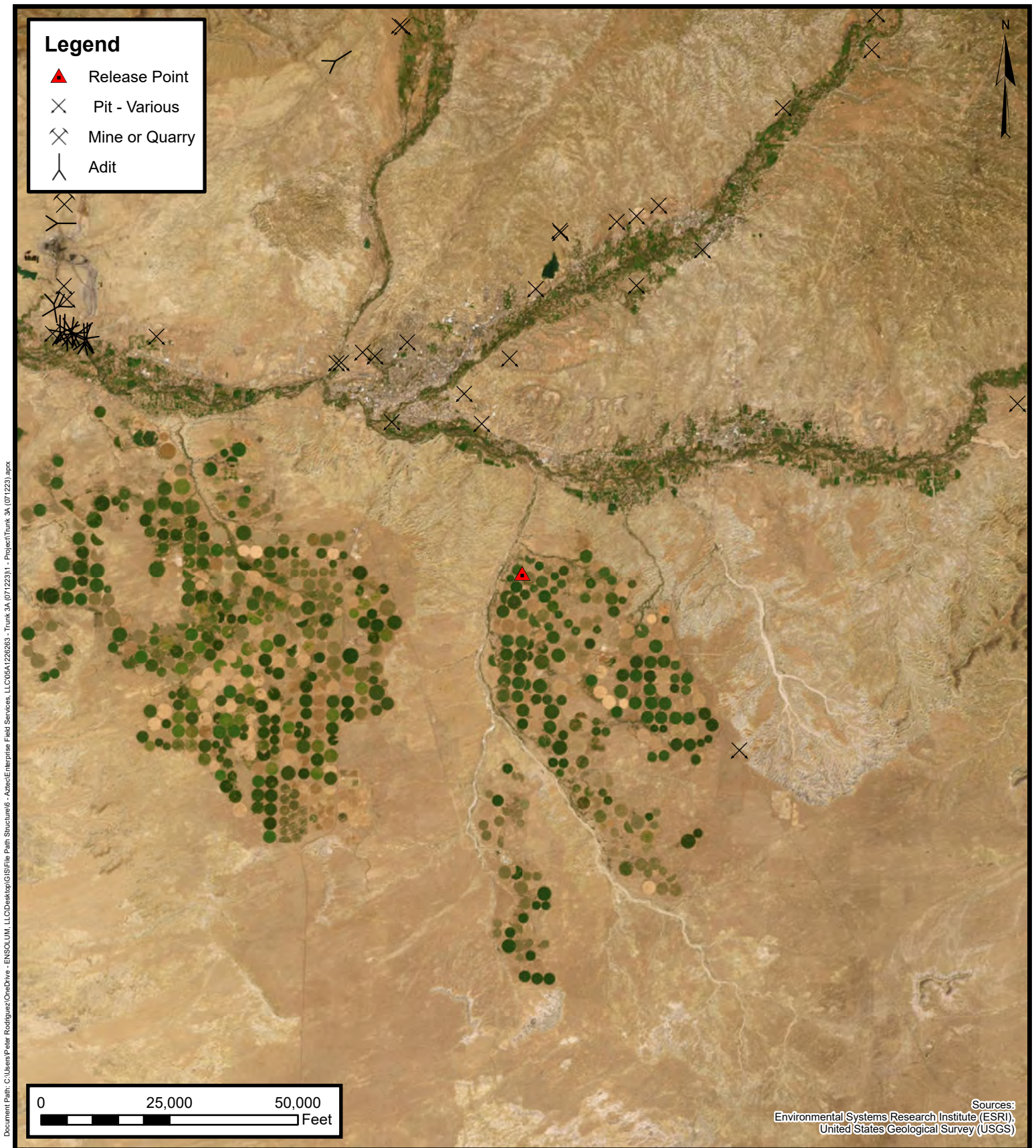
Enterprise Field Services, LLC
Trunk 3A (07/12/23)

Project Number: 05A1226263

Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

FIGURE

F



Mines, Mills, and Quarries

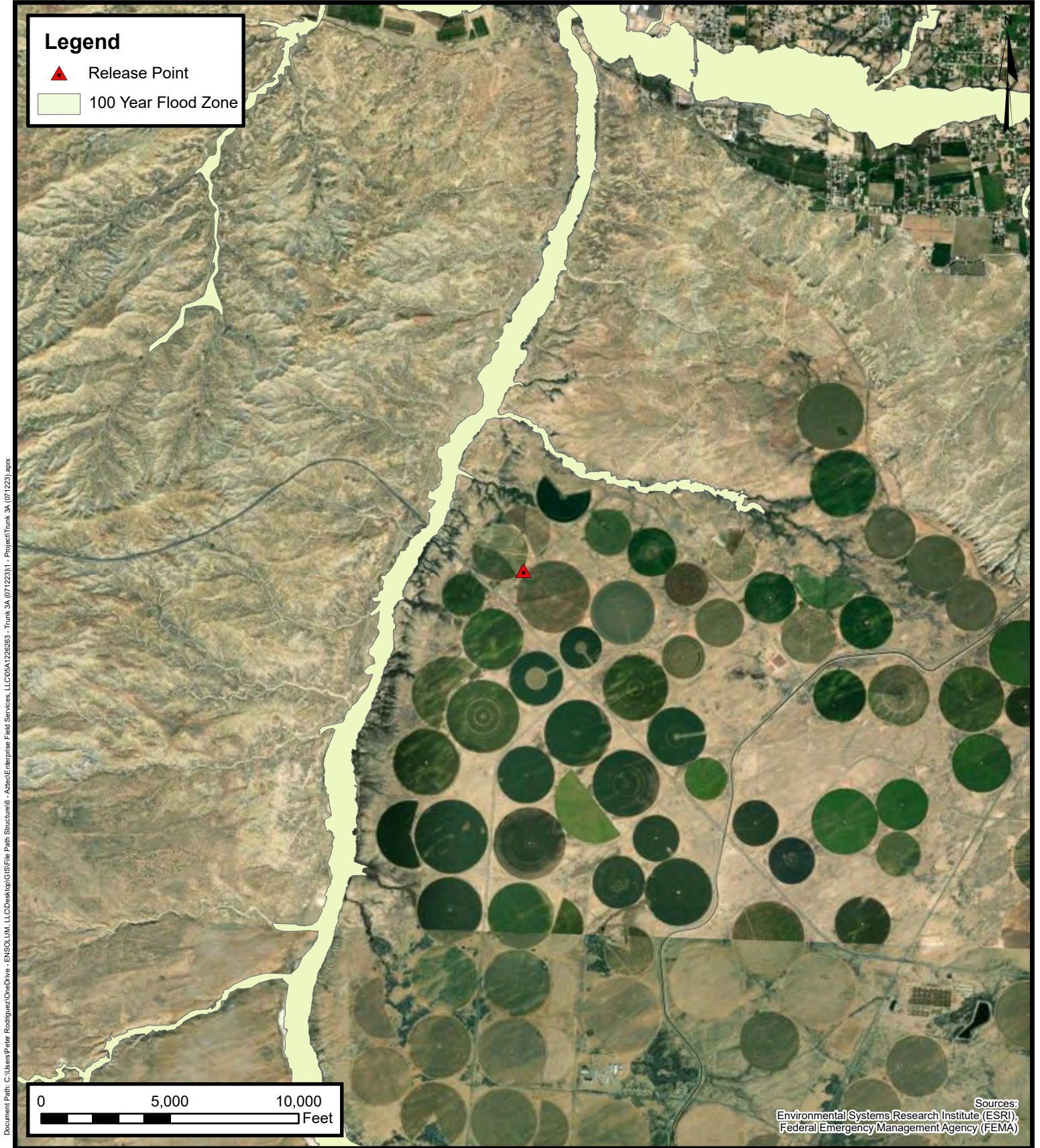
Enterprise Field Services, LLC
Trunk 3A (07/12/23)

Project Number: 05A1226263

Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

FIGURE

G



ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
Trunk 3A (07/12/23)
Project Number: 05A1226263
Unit Letter G, S28 T28N R12W, San Juan County, New Mexico
36.636101, -108.1161101

FIGURE
H



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

No records found.

PLSS Search:

Section(s): 28, 20, 21, 22,
27, 29, 32, 33,
34 **Township:** 28N **Range:** 12W

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

9/8/23 9:35 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)3281
30-045-07165Operator E.P.F.S. Location: Unit K Sec. 28 Twp 28 Rng 12Name of Well/Wells or Pipeline Serviced G.C.U. #174Elevation _____ Completion Date 11-25-97 Total Depth 345 Land Type *F-SF-078828-ACasing, Sizes, Types & Depths 8 5/8" - PVC - 6.5'If Casing is cemented, show amounts & types used 24 bags 1 & 2If Cement or Bentonite Plugs have been placed, show depths & amounts used NONE

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 120' 20-G.P.M.RECEIVED
MAR - 2 1998OIL CON. DIV.
DIST. 3Depths gas encountered: NONEType & amount of coke breeze used: LORESCO SW - 3400 #Depths anodes placed: 195' - 300'Depths vent pipes placed: 345'Vent pipe perforations: 160'

Remarks: _____

Don Jon Hitt

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.

THE LOFTIS COMPANY

DEEP WELL GROUND BED DATA

DATE: November 25, 1997

COMPANY: EPFS/Amoco

COUNTY: San Juan STATE: New Mexico

CONTRACT NO: A96-24

UNIT NO: CPS 73939 WO 3452

LOCATION: G.C.U. #174

GROUNDBED: DEPTH / FT: 360'

DIA / INCH: 7 7/8"

ANODES: (10) 2 x 60 SHA-2

CASING: DEPTH / FT: 65'

SIZE: 8"

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
5	Casing						
10							
15							
20							
25							
30							
35							
40							
45							
50							
55							
60							
65							
70	Sandstone & Shale		1.4				
75			1.4				
80			1.4				
85			1.3				
90			1.3				
95			1.1				
100			1.0				
105			0.7				
110			0.7				
115			0.6				
120	Wet		0.6				
125			0.4				
130			0.6				
135	Shale & Gravel		0.7				
140			0.7				
145			0.6				
150			0.5				
155			0.4				
160			0.4				
165			0.4				
170			0.4				
175			0.4				
180			0.5				
185			0.5				
190			0.7				
195			1.9	10	195	1.7	7.1
200			1.7				
205	Shale		1.9	9	205	1.7	7.1
210			1.6				

JOB # TDMI350

THE LOFTIS COMPANY

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
215			0.7				
220			1.9	8	220	1.7	7.1
225			2.0				
230			1.9				
235			1.5	7	235	1.6	6.3
240			1.4				
245			1.4				
250			1.5	6	250	1.6	6.3
255			1.8				
260			1.6	5	260	1.7	6.8
265			1.7				
270			1.6	4	270	1.6	6.8
275			1.7				
280			1.9	3	280	1.7	7.6
285			1.8				
290			1.8	2	290	1.8	6.9
295			1.5				
300			1.8	1	300	1.8	6.8
305			1.4				
310			1.4				
315			1.5				
320			1.8				
325			1.6				
330			1.8				
335			2.0				
340			1.5				
345			1.5				
350							
355							
360	Shale						

JOB # TDMI350

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

Operator EPFS Location: Unit C Sec. 20 Twp 2B Rng 12

Name of Well/Wells or Pipeline Served Gallinas C.U. 227E

Elevation _____ Completion Date 11-19-97 Total Depth 400 Land Type F SP079244

Casing, Sizes, Types & Depths 8" - PVC, 40'

If Casing is cemented, show amounts & types used 8 sacks ZIA Type 1 & 2

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

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 110-120

Depths gas encountered: _____

Type & amount of coke breeze used: Laresco 5w - 4600/lbs

Depths anodes placed: 140-335

Depths vent pipes placed: 335

Vent pipe perforations: 200

Remarks: _____

W. H. H. H.

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.

THE LOFTIS COMPANY

DEEP WELL GROUND BED DATA

DATE: November 19, 1997

COMPANY: EPFS/Amoco

COUNTY: San Juan STATE: New Mexico

CONTRACT NO: A96-24

UNIT NO: CPS 93248 WO 3462

LOCATION: G.C.U. #227E

GROUNDBED: DEPTH / FT: 400' DIA / INCH: 7 7/8" ANODES:(15) 2 x 60 SHA-2

CASING: DEPTH / FT: 40' SIZE: 8"

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
5	Casing						
10							
15							
20							
25							
30							
35							
40			0.7				
45	Gray Sandstone		0.5				
50			0.5				
55			0.4				
60			0.4				
65			0.4				
70			0.5				
75			0.4				
80			0.4				
85			0.6				
90			0.5				
95			0.3				
100			0.4				
105			0.2				
110	(Wet)		0.5				
115			0.4				
120	Shale		0.5				
125			0.7				
130			0.9				
135			1.3				
140			1.7	15	140	1.8	6.5
145			1.8				
150			1.7	14	150	1.8	6.2
155			1.4				
160			1.5	13	160	1.5	5.6
165			1.7				
170			1.6	12	168	1.7	6.2
175			1.7	11	175	1.6	5.8
180			1.4				
185			1.3				
190			1.8				
195			1.9	10	195	1.9	6.2
200			1.3				
205			2.1	9	205	2.0	6.2
210			1.6				

JOB # TDMI350

THE LOFTIS COMPANY

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
215			1.2				
220			0.9				
225	Sandstone & Shale		0.8				
230			0.9				
235			0.9				
240			1.0				
245			1.0				
250			1.0				
255			0.9				
260			0.9				
265			0.9				
270			1.8	8	270	1.8	6.0
275	Shale		1.8	7	277	1.8	6.5
280			1.9				
285			1.7	6	284	1.8	6.3
290			1.8	5	292	1.9	6.4
295			1.9				
300			2.0	4	300	1.9	5.9
305			1.4				
310			1.0				
315			1.5				
320			1.7	3	319	1.7	5.5
325			2.0	2	327	2.0	6.5
330			2.1				
335			2.0	1	335	2.0	6.3
340			2.1				
345			2.1				
350							
355							
360							
365							
370							
375							
380							
385							
390							
395							
400	Shale						

JOB # TDM1350

3246

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

30-045-25448

Operator E P.F.S. Location: Unit F Sec. 21 Twp 28 Rng 12Name of Well/Wells or Pipeline Serviced GALLEGOS CANYON UNIT 228E #94894Elevation _____ Completion Date 5-17-97 Total Depth 400 Land Type *SF07B106^FCasing, Sizes, Types & Depths 8" - PVC 30'If Casing is cemented, show amounts & types used EBags Zia Type 1 & 2If Cement or Bentonite Plugs have been placed, show depths & amounts used —

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. Water at 100'Depths gas encountered: —Type & amount of coke breeze used: Acresco SW 3500 lbsDepths anodes placed: 215 - 360Depths vent pipes placed: 360Vent pipe perforations: 160'

Remarks: _____

RECEIVED
OCT 14 1997**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.

THE LOFTIS COMPANY

DEEP WELL GROUND BED DATA

DATE May 19, 1997COMPANY EPFS/AmocoCOUNTY San Juan STATE NMCONTRACT NO. FC-96-1000UNIT NO. 94894LOCATION Gallegos CU #228EGROUNDBED: DEPTH 400 Ft., DIA. 7 7/8 In., ANODES (15) 2 x 60 SHA-2CASING: SIZE 8 In., DEPTH 30 Ft.

DEPTH FT.	DRILLER'S LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
5	Casing						
10	"						
15	"						
20	"						
25	"						
30	Sandstone						
35	"						
40	"						
45	"		1.0				
50	"		1.0				
55	"		0.9				
60	"		0.8				
65	"		0.7				
70	"		0.7				
75	"		0.7				
80	"		1.3				
85	Shale		0.7				
90	"		0.6				
95	"		0.7				
100	Sandstone		0.7				
105	"		0.7				
110	"		0.6				
115	"		0.9				
120	"		1.8				
125	"		2.3				
130	"		1.9				
135	"		1.9				
140	"		1.6				
145	"		0.9				
150	"		0.8				
155	"		1.6				
160	"		1.9				
165	"		1.7				
170	"		1.8				
175	"		1.7				
180	"		1.6				
185	"		1.5				
190	"		1.3				
195	"		1.9				
200	"		1.6				
205	"		1.5				
210	"		1.6				
215	"		2.1	15	215	2.4	5.1
220	"		1.9				
225	"		1.6				
230	"		1.0	14	230	2.4	4.7
235	"		1.9				
240	Sandstone		2.1	13	240	2.9	5.4

RECEIVED
OCT 14 1997

SHE CON. DIV.

COMPANY EPFS/AmocoDATE May 19, 1997LOCATION Gallegos CU #228EUNIT NO. 94894

DEPTH Ft	DRILLER'S LOG	RESISTIVITY OHMS	AMPS	ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
245	Sandstone		2.2				
250	"		1.9	12	250	2.9	5.8
255	"		1.9				
260	"		2.0	11	260	2.8	5.6
265	"		2.1				
270	"		2.2	10	270	3.3	6.0
275	"		2.1				
280	"		2.2	9	280	3.0	5.6
285	"		2.2				
290	"		2.2	8	290	3.0	5.6
295	"		2.5				
300	"		2.4	7	300	3.3	5.8
305	"		2.4				
310	"		2.6	6	310	3.2	5.3
315	"		2.9				
320	"		3.0	5	320	3.4	5.9
325	"		3.4				
330	"		3.5	4	330	3.7	6.2
335	"		3.3				
340	"		3.5	3	340	3.8	5.9
345	"		3.0				
350	"		3.3	2	350	3.4	5.1
355	"		3.6				
360	"		3.1	1	360	3.1	4.6
365	"		3.4				
370	Shale		3.2				
375	"						
380	Sandstone						
385	"						
390	"						
395	"						
400	Sandstone						
405							
410							
415							
420							
425							
430							
435							
440							
445							
450							
455							
460							
465							
470							
475							
480							
485							
490							
495							
500							
505							
510							

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

(Submit 3 copies to OCD Aztec Office)

Operator EPFS Location: Unit NW Sec. 22 Twp 28 Rng 12Name of Well/Wells or Pipeline Serviced G.C.U # 218-EElevation _____ Completion Date 11-26-97 Total Depth 397 Land Type *F-SF-078106Casing, Sizes, Types & Depths 8 5/8" PVC 20'If Casing is cemented, show amounts & types used 3-bags 1+2If Cement or Bentonite Plugs have been placed, show depths & amounts used None

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 120' 5-G.P.M.RECEIVED
MAR - 2 1998OIL CON. DIV.
DIST. 3Depths gas encountered: NoneType & amount of coke breeze used: Waresco SW 5600 #Depths anodes placed: 140' - 380'Depths vent pipes placed: 397'Vent pipe perforations: 280'

Remarks: _____

Donjon Hitt

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.

THE LOFTIS COMPANY

DEEP WELL GROUND BED DATA

DATE: November 26, 1997

COMPANY: EPFS/Amoco

COUNTY: San Juan STATE: New Mexico

CONTRACT NO: A96-24

UNIT NO: CPS 94070 WO 3469

LOCATION: G.C.U. #218E

GROUNDBED: DEPTH / FT: 400"

DIA / INCH: 7 7/8"

ANODES: (15) 2 X 60 sha-2

CASING: DEPTH / FT: 20"

SIZE: 8"

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
5	Casing						
10							
15							
20							
25	Sand						
30	Brown Sand & Sandstone						
35							
40			0.2				
45			0.6				
50			0.6				
55			0.6				
60			0.5				
65			0.7				
70			0.6				
75			0.7				
80			0.8				
85			1.0				
90			1.8				
95	Gray Sandstone		1.4				
100			0.9				
105			0.9				
110			0.8				
115			0.8				
120			0.7				
125			0.7				
130			0.6				
135	Shale		1.0				
140	Wet		1.4	15	140	1.2	5.5
145			1.3				
150			1.1	14	150	1.2	5.2
155			1.0				
160			0.9				
165			1.3	13	165	1.5	6.4
170			1.2				
175	Sandstone & Shale		0.9				
180			0.8				
185			0.7				
190			0.4				
195			0.4				
200	Sandstone &		0.4				
205	Conglomerage		0.4				
210			0.4				

JOB # tdm1350

THE LOFTIS COMPANY

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
215			0.4				
220			0.3				
225			0.3				
230			0.3				
235			0.3				
240			0.3				
245			0.4				
250			0.4				
255	Shale		0.4				
260			0.5				
265			0.7				
270			1.8	12	270	1.7	7.8
275			2.0				
280			1.5	11	280	1.5	7.4
285			1.5				
290			1.8	10	290	1.7	7.4
295			1.7				
300			1.5	9	300	1.5	6.5
305			1.3				
310			1.3	8	310	1.3	6.0
315			1.5				
320			1.6	7	320	1.5	6.3
325			1.2				
330			1.0	6	330	1.1	5.0
335			1.0				
340			1.1	5	340	1.2	5.6
345			1.2				
350			1.5	4	350	1.4	6.2
355			1.6				
360			1.8	3	360	1.7	7.0
365			1.4				
370			1.2	2	370	1.2	5.4
375			1.6				
380			1.8	1	380	1.7	5.8
385			1.5				
390			1.4				
395			1.4				
400	Shale						

JOB # tdm1350

THE LOFTIS COMPANY

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
215			1.3				
220			1.3				
225			1.2				
230			1.2				
235			1.6	6	235	1.6	6.1
240			1.9				
245			1.9	5	245	1.9	7.2
250			2.0				
255			2.1				
260			1.8	4	260	1.9	7.1
265			1.7				
270			1.8	3	270	1.8	6.9
275			2.1				
280			1.9	2	280	1.9	6.4
285			2.0				
290			1.7	1	290	1.7	5.9
295			1.6				
300			1.5				
305			1.5				
310			1.7				
315			2.2				
320							
325							
330	Shale						

JOB # TDMI350



APPENDIX C

Regulatory Correspondence

From: [Kyle Summers](#)
To: [Ranee Deechilly](#)
Subject: FW: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087
Date: Friday, September 29, 2023 7:06:37 AM
Attachments: [image002.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)



Kyle Summers

Principal
903-821-5603

Ensolum, LLC

in f 

From: nnepawq@frontiernet.net <nnepawq@frontiernet.net>
Sent: Thursday, September 28, 2023 4:38 PM
To: 'Long, Thomas' <tjlong@eprod.com>
Cc: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; 'Stone, Brian' <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087

[**EXTERNAL EMAIL**]

Thanks for the update.

--Steve

Steve Austin
Senior Hydrologist
NNEPAWQ/NPDES Program
505-368-1037

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, September 27, 2023 10:02 AM
To: nnepawq@frontiernet.net
Cc: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; Stone, Brian <bmstone@eprod.com>; 'Kyle Summers' <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087

Steve,

Please find the attached analytical results Trunk 3A excavation water sample. The contaminant concentrations exceed groundwater standards for many constituents. We pumped approximately 450 barrels of impacted water from the excavation and transported the water to our Blanco Storage facility for separation and disposal. We are going to backfill the excavation and complete the permanent repair. I will get a workplan developed for groundwater delineation, sampling, and monitoring. Please let me know if you have any questions or concerns.

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: nnepawq@frontiernet.net <nnepawq@frontiernet.net>
Sent: Friday, September 8, 2023 10:29 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; Stone, Brian <bmstone@eprod.com>;
'Kyle Summers' <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087

[Use caution with links/attachments]

That will likely work for me, but I'd like to see the results first.

--Steve

Steve Austin
Senior Hydrologist
NNEPAWQ/NPDES Program
505-368-1037

From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, September 8, 2023 9:49 AM
To: nnepawq@frontiernet.net
Cc: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; Stone, Brian <bmstone@eprod.com>;
'Kyle Summers' <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087

Steve,

That is correct. The water sample will be collected after we remove the condensate, if possible. If sample results of the water exceed standards, it might be a good idea to apply a hydrogen peroxide solution prior to backfilling. What are your thoughts?

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: nnepawq@frontiernet.net <nnepawq@frontiernet.net>
Sent: Friday, September 8, 2023 9:43 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; Stone, Brian <bmstone@eprod.com>;
'Kyle Summers' <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087

[Use caution with links/attachments]

Thanks for the update Tom. Please provide a workplan prior to installing the monitoring wells. Also, just to clarify, will you be waiting to sample the water in the pit until after condensate is no longer visible?

--Steve

Steve Austin
Senior Hydrologist
NNEPAWQ/NPDES Program
505-368-1037

From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, September 8, 2023 8:03 AM
To: Steve Austin <nnepawq@frontiernet.net>
Cc: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087

Steve,

As per our phone conversation yesterday, groundwater has been observed in the excavation. In addition, condensate has been observed on the groundwater. Enterprise is mobilizing a vacuum truck to pump the water and condensate out of the excavation. After completion of pumping activities, Enterprise will collect a water sample from within the excavation. I believe the lateral extent of the soil contamination has been defined. The laboratory samples results are supposed to be completed today. I will forward the results to you when I receive them. The excavation will remain open until we get the all sample results (soil and water). After we are done pumping the excavation will be backfilled to approximately four feet below ground surface in order to complete the repairs. As discussed, Enterprise will have to install groundwater monitoring wells at a later date to delineate the groundwater impacts. Would you like a formal work plan prior to installing the groundwater monitoring wells? Please let me know your thoughts.

I have attached some photos. The first two photos are from yesterday. The third is from this morning.

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@emnrd.nm.gov>

Sent: Wednesday, September 6, 2023 2:18 PM

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

Cc: Steve Austin <nnepawq@frontiernet.net>

Subject: Re: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087

[Use caution with links/attachments]

Tom,

Thank you for the notice. The correct gps coordinates placing the incident in UL G Section 28, T28N, R12W would be 36.636101,-108.1161101.

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@emnrd.nm.gov

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



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

Sent: Wednesday, September 6, 2023 1:55 PM

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

Cc: Steve Austin <nnepawq@frontiernet.net>

Subject: [EXTERNAL] Trunk 3A - UL G Section 28 T28N R12W; 36.64610, -108.116110; NMOCD Incident # nAPP2320632087

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

Nelson,

As we spoke earlier, the proper legals for the Trunk 3A release site is UL G Section 28 T28N R12W; 36.64610, -108.116110 and is associated with NMOCD Incident # nAPP2320632087. Please modify in your database. We started the remediation yesterday. I will send notification for sampling in the near future. Thank you.

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



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



APPENDIX D

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

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

PayKey: AM14058
PM: ME Eddleman
AFE: N66909

2. Originating Site:

Trunk 3A

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

UL P Section 10 T27N R9W; 36.58588 -107.76825

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) 650 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* 8-31-2023, 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: Riley Industrial/ Enterprise 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

SIGNATURE: *Greg Crabtree*

TITLE: Enviro Manager

TELEPHONE NO.:

DATE: 9/7/23

Surface Waste Management Facility Authorized Agent

505-632-0615



APPENDIX E

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 3A (07/12/23)
Ensolum Project No. 05A1226263

**Photograph 1**

Photograph Description: View of the in-process excavation activities (first excavation).

**Photograph 2**

Photograph Description: View of the in-process excavation activities (first excavation).

**Photograph 3**

Photograph Description: View of the final excavation (first excavation).



SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 3A (07/12/23)
Ensolum Project No. 05A1226263

**Photograph 4**

Photograph Description: View of the in-process excavation activities (second excavation).

**Photograph 5**

Photograph Description: View of in process excavation (second excavation).

**Photograph 6**

Photograph Description: View of the final excavation (second excavation).



SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 3A (07/12/23)
Ensolum Project No. 05A1226263



Photograph 7

Photograph Description: View of the site after initial restoration.





APPENDIX F

Tables



TABLE 1
Trunk 3A (07/12/23)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
Wall-1	7.21.23	C	0 to 3	0.11	1.5	0.88	11	13	96	5,500	2,200	7,800	690
B-1	7.21.23	C	3	0.059	0.75	0.63	6.4	7.8	43	2,600	1,100	3,700	540
Excavation #1 Composite Soil Samples													
S-2	9.07.23	C	0 to 10	<0.015	<0.030	<0.030	<0.060	ND	<3.0	<9.6	<48	ND	<60
S-3	9.07.23	C	0 to 10	<0.015	<0.031	<0.031	0.069	0.069	<3.1	<9.7	<49	ND	<60
S-4	9.07.23	C	0 to 10	<0.015	<0.030	<0.030	<0.060	ND	<3.0	<9.5	<48	ND	<60
S-5	9.07.23	C	0 to 10	<0.014	<0.029	<0.029	<0.058	ND	<2.9	<9.8	<49	ND	<60
S-6	9.12.23	C	10 to 16.5	<0.016	<0.032	<0.032	<0.064	ND	<3.2	<9.8	<49	ND	<60
S-7	9.12.23	C	10 to 16.5	<0.016	<0.033	<0.033	0.13	0.13	<3.3	<9.9	<49	ND	<60
S-8	9.12.23	C	10 to 16.5	<0.015	<0.030	<0.030	<0.061	ND	<3.0	<9.7	<49	ND	<60
S-9	9.12.23	C	10 to 16.5	<0.015	<0.029	<0.029	0.30	0.30	3.3	<9.9	<49	3.3	<60
Excavation #2 Composite Soil Samples													
2S-1	10.17.23	C	0 to 16	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.5	<48	ND	<60
2S-2	10.17.23	C	0 to 16	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.7	<49	ND	<60
2S-3	10.17.23	C	0 to 16	<0.016	<0.032	<0.032	<0.064	ND	<3.2	<9.4	<47	ND	<60
2S-4	10.17.23	C	0 to 16	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.6	<48	ND	<60
2S-5	10.17.23	C	0 to 16	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<9.2	<46	ND	<60
2S-6	10.17.23	C	0 to 16	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.3	<48	ND	<60
2S-7	10.17.23	C	8 to 16	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.7	<48	ND	<60

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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



TABLE 2 Trunk 3A (07/12/23) GROUNDWATER ANALYTICAL SUMMARY - DETECTED VOLATILE ORGANIC COMPOUNDS AND TOTL PETROLEUM HYDROCARBONS																	
Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1-Methylnaphthalene ^{1,2} (µg/L)	2-Methylnaphthalene ^{1,2} (µg/L)	1,2,4-Trimethylbenzene ^{1,2} (µg/L)	1,3,5-Trimethylbenzene ^{1,2} (µg/L)	4-Isopropyltoluene ^{1,2} (µg/L)	Isopropylbenzene ^{1,2} (µg/L)	n-Propylbenzene ^{1,2} (µg/L)	sec-Butylbenzene ^{1,2} (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)
New Mexico Water Quality Control Commission Human Health Standards		5	1,000	700	620	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Water Sample Collected from the Excavation																	
W-1	9.20.23	2,000	5,400	300	2,900	120	45	79	260	110	7.2	36	40	5.3	31	11	<7.1

Notes:

Concentrations in **bold** and yellow exceed the applicable WQCC HHS¹ = Constituent is not identified as "toxic pollutant" under 20.6.2 New Mexico Administrative Code (NMAC).² = Constituent is not identified as a priority pollutant under the Federal Clean Water Act (CWA).^A - Monitoring well EW-1 was not sampled due to ice covering the well head.

µg/L = microgram per liter

NE = Not Established

NS = Not Sampled

<1.0 = The numeral (in this case "1.0") identifies the laboratory reporting limit (RL) or practical quantitation limit (PQL).



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 11, 2023

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

RE: Trunk 3A 7 23

OrderNo.: 2307A53

Dear Kyle Summers:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 7/22/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 28, 2023.

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. 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. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2307A53

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: Wall-1

Project: Trunk 3A 7 23

Collection Date: 7/21/2023 7:30:00 AM

Lab ID: 2307A53-001

Matrix: MEOH (SOIL)

Received Date: 7/22/2023 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	690	60		mg/Kg	20	7/24/2023 11:05:44 AM	76411
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	5500	94		mg/Kg	10	7/24/2023 2:32:01 PM	76397
Motor Oil Range Organics (MRO)	2200	470		mg/Kg	10	7/24/2023 2:32:01 PM	76397
Surr: DNOP	0	69-147	S	%Rec	10	7/24/2023 2:32:01 PM	76397
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	96	16		mg/Kg	5	7/24/2023 12:26:00 PM	R98439
Surr: BFB	135	15-244		%Rec	5	7/24/2023 12:26:00 PM	R98439
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	0.11	0.082		mg/Kg	5	7/24/2023 12:26:00 PM	BS98439
Toluene	1.5	0.16		mg/Kg	5	7/24/2023 12:26:00 PM	BS98439
Ethylbenzene	0.88	0.16		mg/Kg	5	7/24/2023 12:26:00 PM	BS98439
Xylenes, Total	11	0.33		mg/Kg	5	7/24/2023 12:26:00 PM	BS98439
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	5	7/24/2023 12:26:00 PM	BS98439

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

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

Page 1 of 6

Analytical Report

Lab Order 2307A53

Date Reported: 12/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: B-1

Project: Trunk 3A 7 23

Collection Date: 7/21/2023 7:35:00 AM

Lab ID: 2307A53-002

Matrix: MEOH (SOIL)

Received Date: 7/22/2023 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	540	60		mg/Kg	20	7/24/2023 11:18:08 AM	76411
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	2600	99		mg/Kg	10	7/24/2023 2:55:56 PM	76397
Motor Oil Range Organics (MRO)	1100	500		mg/Kg	10	7/24/2023 2:55:56 PM	76397
Surr: DNOP	0	69-147	S	%Rec	10	7/24/2023 2:55:56 PM	76397
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	43	3.1		mg/Kg	1	7/24/2023 11:43:00 AM	R98439
Surr: BFB	251	15-244	S	%Rec	1	7/24/2023 11:43:00 AM	R98439
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	0.059	0.016		mg/Kg	1	7/24/2023 11:43:00 AM	BS98439
Toluene	0.75	0.031		mg/Kg	1	7/24/2023 11:43:00 AM	BS98439
Ethylbenzene	0.63	0.031		mg/Kg	1	7/24/2023 11:43:00 AM	BS98439
Xylenes, Total	6.4	0.062		mg/Kg	1	7/24/2023 11:43:00 AM	BS98439
Surr: 4-Bromofluorobenzene	160	39.1-146	S	%Rec	1	7/24/2023 11:43:00 AM	BS98439

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

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

Page 2 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307A53
11-Dec-23

Client: ENSOLUM

Project: Trunk 3A 7 23

Sample ID: MB-76411		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 76411		RunNo: 98443						
Prep Date: 7/24/2023		Analysis Date: 7/24/2023		SeqNo: 3584928		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76411		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 76411		RunNo: 98443						
Prep Date: 7/24/2023		Analysis Date: 7/24/2023		SeqNo: 3584929		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307A53

11-Dec-23

Client: ENSOLUM
Project: Trunk 3A 7 23

Sample ID: LCS-76397	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 76397		RunNo: 98450							
Prep Date: 7/24/2023	Analysis Date: 7/24/2023		SeqNo: 3583825		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	61.9	130			
Surr: DNOP	4.7		5.000		93.9	69	147			

Sample ID: MB-76397	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 76397		RunNo: 98450							
Prep Date: 7/24/2023	Analysis Date: 7/24/2023		SeqNo: 3583826		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 4 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307A53

11-Dec-23

Client: ENSOLUM

Project: Trunk 3A 7 23

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: R98439		RunNo: 98439							
Prep Date:	Analysis Date: 7/24/2023		SeqNo: 3583597		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	85.7	70	130			
Surr: BFB	2000		1000		196	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: R98439		RunNo: 98439							
Prep Date:	Analysis Date: 7/24/2023		SeqNo: 3583598		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	800		1000		79.6	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307A53

11-Dec-23

Client: ENSOLUM
Project: Trunk 3A 7 23

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: BS98439			RunNo: 98439						
Prep Date:	Analysis Date: 7/24/2023			SeqNo: 3583602		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.5	70	130			
Toluene	1.0	0.050	1.000	0	100	70	130			
Ethylbenzene	1.0	0.050	1.000	0	101	70	130			
Xylenes, Total	3.0	0.10	3.000	0	100	70	130			
Surr: 4-Bromofluorobenzene	0.82		1.000		82.0	39.1	146			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: BS98439			RunNo: 98439						
Prep Date:	Analysis Date: 7/24/2023			SeqNo: 3583603		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	0.80		1.000		79.9	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 6 of 6



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: 2307A53

RcptNo: 1

Received By: Tracy Casarrubias 7/22/2023 8:45:00 AM

Completed By: Tracy Casarrubias 7/22/2023 9:11:16 AM

Reviewed By: *7/24/23*

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted?

Checked by: *TMC 7/22/23*

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions: Phone number and Email/Fax are missing onCOC- TMC 7/22/23

16. Additional remarks:

17. Cooler Information

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

Client: Epsilon

Mailing Address: Box 8 River Road
South A 87411

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type)

☐ Standard ☒ **Rush**

Project #:

Project Manager:

Sampler:

On Ice: ☐ Yes ☐ No

of Coolers:

Cooler Temp(including CF): (°C)

Container
Type and #Preservative
Type

HEAL No.

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

 $\text{Cl}^-, \text{F}^-, \text{Br}^-, \text{NO}_3^-, \text{NO}_2^-, \text{PO}_4^{3-}, \text{SO}_4^{2-}$

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date:	Time:	Relinquished by:
-------	-------	------------------

Date:	Time:	Relinquished by:
-------	-------	------------------

Received by:	Via:
--------------	------

Received by: Via:

Date	Time
------	------

Date	Time
------	------

Remarks:

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



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

September 13, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Trunk 3A

OrderNo.: 2309394

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/8/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2309394

Date Reported: 9/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Trunk 3A

Collection Date: 9/7/2023 11:05:00 AM

Lab ID: 2309394-001

Matrix: MEOH (SOIL)

Received Date: 9/8/2023 6:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/8/2023 12:39:28 PM	77386
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/8/2023 10:29:24 AM	77379
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2023 10:29:24 AM	77379
Surr: DNOP	107	69-147		%Rec	1	9/8/2023 10:29:24 AM	77379
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	9/8/2023 11:33:00 AM	G99543
Surr: BFB	102	15-244		%Rec	1	9/8/2023 11:33:00 AM	G99543
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.015		mg/Kg	1	9/8/2023 11:33:00 AM	R99543
Toluene	ND	0.030		mg/Kg	1	9/8/2023 11:33:00 AM	R99543
Ethylbenzene	ND	0.030		mg/Kg	1	9/8/2023 11:33:00 AM	R99543
Xylenes, Total	ND	0.060		mg/Kg	1	9/8/2023 11:33:00 AM	R99543
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	9/8/2023 11:33:00 AM	R99543

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

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

Page 1 of 8

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Trunk 3A

Collection Date: 9/7/2023 11:10:00 AM

Lab ID: 2309394-002

Matrix: MEOH (SOIL) Received Date: 9/8/2023 6:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/8/2023 12:51:52 PM	77386
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/8/2023 10:39:53 AM	77379
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2023 10:39:53 AM	77379
Surr: DNOP	106	69-147		%Rec	1	9/8/2023 10:39:53 AM	77379
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	9/8/2023 11:55:00 AM	G99543
Surr: BFB	106	15-244		%Rec	1	9/8/2023 11:55:00 AM	G99543
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.015		mg/Kg	1	9/8/2023 11:55:00 AM	R99543
Toluene	ND	0.031		mg/Kg	1	9/8/2023 11:55:00 AM	R99543
Ethylbenzene	ND	0.031		mg/Kg	1	9/8/2023 11:55:00 AM	R99543
Xylenes, Total	0.069	0.061		mg/Kg	1	9/8/2023 11:55:00 AM	R99543
Surr: 4-Bromofluorobenzene	91.7	39.1-146		%Rec	1	9/8/2023 11:55:00 AM	R99543

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

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

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Analytical Report

Lab Order 2309394

Date Reported: 9/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Trunk 3A

Collection Date: 9/7/2023 11:15:00 AM

Lab ID: 2309394-003

Matrix: MEOH (SOIL)

Received Date: 9/8/2023 6:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/8/2023 1:04:16 PM	77386
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/8/2023 10:50:29 AM	77379
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/8/2023 10:50:29 AM	77379
Surr: DNOP	105	69-147		%Rec	1	9/8/2023 10:50:29 AM	77379
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	9/8/2023 12:16:00 PM	G99543
Surr: BFB	97.2	15-244		%Rec	1	9/8/2023 12:16:00 PM	G99543
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.015		mg/Kg	1	9/8/2023 12:16:00 PM	R99543
Toluene	ND	0.030		mg/Kg	1	9/8/2023 12:16:00 PM	R99543
Ethylbenzene	ND	0.030		mg/Kg	1	9/8/2023 12:16:00 PM	R99543
Xylenes, Total	ND	0.060		mg/Kg	1	9/8/2023 12:16:00 PM	R99543
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	9/8/2023 12:16:00 PM	R99543

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

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

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Analytical Report

Lab Order 2309394

Date Reported: 9/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Trunk 3A

Collection Date: 9/7/2023 11:20:00 AM

Lab ID: 2309394-004

Matrix: MEOH (SOIL)

Received Date: 9/8/2023 6:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/8/2023 1:16:40 PM	77386
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/8/2023 11:01:05 AM	77379
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/8/2023 11:01:05 AM	77379
Surr: DNOP	108	69-147		%Rec	1	9/8/2023 11:01:05 AM	77379
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	9/8/2023 12:38:00 PM	G99543
Surr: BFB	103	15-244		%Rec	1	9/8/2023 12:38:00 PM	G99543
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.014		mg/Kg	1	9/8/2023 12:38:00 PM	R99543
Toluene	ND	0.029		mg/Kg	1	9/8/2023 12:38:00 PM	R99543
Ethylbenzene	ND	0.029		mg/Kg	1	9/8/2023 12:38:00 PM	R99543
Xylenes, Total	ND	0.058		mg/Kg	1	9/8/2023 12:38:00 PM	R99543
Surr: 4-Bromofluorobenzene	91.6	39.1-146		%Rec	1	9/8/2023 12:38:00 PM	R99543

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309394
13-Sep-23

Client: ENSOLUM
Project: Trunk 3A

Sample ID: MB-77386	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 77386	RunNo: 99555								
Prep Date: 9/8/2023	Analysis Date: 9/8/2023	SeqNo: 3636065	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77386	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 77386	RunNo: 99555								
Prep Date: 9/8/2023	Analysis Date: 9/8/2023	SeqNo: 3636066	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2309394

13-Sep-23

Client: ENSOLUM**Project:** Trunk 3A

Sample ID: 2309394-004AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-5	Batch ID: 77379	RunNo: 99545								
Prep Date: 9/8/2023	Analysis Date: 9/8/2023	SeqNo: 3635130 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.3	46.30	0	98.3	54.2	135			
Surr: DNOP	4.5		4.630		96.2	69	147			

Sample ID: LCS-77379	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 77379	RunNo: 99545								
Prep Date: 9/8/2023	Analysis Date: 9/8/2023	SeqNo: 3635131 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.1	61.9	130			
Surr: DNOP	4.9		5.000		98.4	69	147			

Sample ID: MB-77379	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 77379	RunNo: 99545								
Prep Date: 9/8/2023	Analysis Date: 9/8/2023	SeqNo: 3635132 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	69	147			

Sample ID: 2309394-004AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-5	Batch ID: 77379	RunNo: 99545								
Prep Date: 9/8/2023	Analysis Date: 9/8/2023	SeqNo: 3636487 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.1	45.54	0	97.4	54.2	135	2.58	29.2	
Surr: DNOP	4.7		4.554		103	69	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2309394

13-Sep-23

Client: ENSOLUM**Project:** Trunk 3A

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G99543		RunNo: 99543							
Prep Date:	Analysis Date: 9/8/2023		SeqNo: 3635070		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.3	70	130			
Surr: BFB	2200		1000		218	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G99543		RunNo: 99543							
Prep Date:	Analysis Date: 9/8/2023		SeqNo: 3635071		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		101	15	244			

Sample ID: 2309394-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-2	Batch ID: G99543		RunNo: 99543							
Prep Date:	Analysis Date: 9/8/2023		SeqNo: 3635211		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	3.0	15.00	0	93.4	70	130			
Surr: BFB	1300		599.9		212	15	244			

Sample ID: 2309394-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-2	Batch ID: G99543		RunNo: 99543							
Prep Date:	Analysis Date: 9/8/2023		SeqNo: 3636740		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	3.0	15.00	0	96.2	70	130	3.00	20	
Surr: BFB	1300		599.9		212	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 7 of 8

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

WO#: 2309394

13-Sep-23

Client: ENSOLUM**Project:** Trunk 3A

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: R99543			RunNo: 99543						
Prep Date:	Analysis Date: 9/8/2023			SeqNo: 3635075			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	70	130			
Toluene	0.90	0.050	1.000	0	89.6	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.6	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.0	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	39.1	146			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: R99543			RunNo: 99543						
Prep Date:	Analysis Date: 9/8/2023			SeqNo: 3635076			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		92.8	39.1	146			

Sample ID: 2309394-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-3	Batch ID: R99543			RunNo: 99543						
Prep Date:	Analysis Date: 9/8/2023			SeqNo: 3636799			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.55	0.015	0.6120	0	89.7	70	130			
Toluene	0.56	0.031	0.6120	0	91.5	70	130			
Ethylbenzene	0.57	0.031	0.6120	0	93.1	70	130			
Xylenes, Total	1.8	0.061	1.836	0.06914	92.4	70	130			
Surr: 4-Bromofluorobenzene	0.56		0.6120		92.0	39.1	146			

Sample ID: 2309394-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-3	Batch ID: R99543			RunNo: 99543						
Prep Date:	Analysis Date: 9/8/2023			SeqNo: 3636800			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.54	0.015	0.6120	0	88.5	70	130	1.33	20	
Toluene	0.55	0.031	0.6120	0	90.4	70	130	1.25	20	
Ethylbenzene	0.56	0.031	0.6120	0	91.5	70	130	1.73	20	
Xylenes, Total	1.7	0.061	1.836	0.06914	91.0	70	130	1.47	20	
Surr: 4-Bromofluorobenzene	0.56		0.6120		91.2	39.1	146	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
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: 2309394

RcptNo: 1

Received By: Tracy Casarrubias 9/8/2023 6:38:00 AM

Completed By: Tracy Casarrubias 9/8/2023 6:54:32 AM

Reviewed By: *SCM 9/8/23*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *JM 9/8/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Phone number and Email/Fax are missing on COC- TMC 9/8/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Yes	Yogi		



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

September 18, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Trunk 3A

OrderNo.: 2309628

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/13/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: ENSOLUM
Project: Trunk 3A
Lab ID: 2309628-001

Client Sample ID: S-6
Collection Date: 9/12/2023 10:00:00 AM
Matrix: MEOH (SOIL) Received Date: 9/13/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: KCB
Chloride	ND	60		mg/Kg	20	9/13/2023 12:03:14 PM	77480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/13/2023 10:54:47 AM	77475
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/13/2023 10:54:47 AM	77475
Surr: DNOP	95.6	69-147		%Rec	1	9/13/2023 10:54:47 AM	77475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	9/13/2023 11:06:00 AM	G99658
Surr: BFB	99.9	15-244		%Rec	1	9/13/2023 11:06:00 AM	G99658
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.016		mg/Kg	1	9/13/2023 11:06:00 AM	R99658
Toluene	ND	0.032		mg/Kg	1	9/13/2023 11:06:00 AM	R99658
Ethylbenzene	ND	0.032		mg/Kg	1	9/13/2023 11:06:00 AM	R99658
Xylenes, Total	ND	0.064		mg/Kg	1	9/13/2023 11:06:00 AM	R99658
Surr: 4-Bromofluorobenzene	90.0	39.1-146		%Rec	1	9/13/2023 11:06:00 AM	R99658

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

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

Analytical Report

Lab Order 2309628

Date Reported: 9/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-7

Project: Trunk 3A

Collection Date: 9/12/2023 10:05:00 AM

Lab ID: 2309628-002

Matrix: MEOH (SOIL)

Received Date: 9/13/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: KCB
Chloride	ND	60		mg/Kg	20	9/13/2023 12:15:38 PM	77480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/13/2023 11:05:31 AM	77475
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/13/2023 11:05:31 AM	77475
Surr: DNOP	95.0	69-147		%Rec	1	9/13/2023 11:05:31 AM	77475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	9/13/2023 11:28:00 AM	G99658
Surr: BFB	111	15-244		%Rec	1	9/13/2023 11:28:00 AM	G99658
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.016		mg/Kg	1	9/13/2023 11:28:00 AM	R99658
Toluene	ND	0.033		mg/Kg	1	9/13/2023 11:28:00 AM	R99658
Ethylbenzene	ND	0.033		mg/Kg	1	9/13/2023 11:28:00 AM	R99658
Xylenes, Total	0.13	0.066		mg/Kg	1	9/13/2023 11:28:00 AM	R99658
Surr: 4-Bromofluorobenzene	91.2	39.1-146		%Rec	1	9/13/2023 11:28:00 AM	R99658

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

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

Analytical Report

Lab Order 2309628

Date Reported: 9/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-8

Project: Trunk 3A

Collection Date: 9/12/2023 10:10:00 AM

Lab ID: 2309628-003

Matrix: MEOH (SOIL)

Received Date: 9/13/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: KCB
Chloride	ND	60		mg/Kg	20	9/13/2023 12:28:03 PM	77480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/13/2023 11:16:16 AM	77475
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/13/2023 11:16:16 AM	77475
Surr: DNOP	97.2	69-147		%Rec	1	9/13/2023 11:16:16 AM	77475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	9/13/2023 11:49:00 AM	G99658
Surr: BFB	98.0	15-244		%Rec	1	9/13/2023 11:49:00 AM	G99658
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.015		mg/Kg	1	9/13/2023 11:49:00 AM	R99658
Toluene	ND	0.030		mg/Kg	1	9/13/2023 11:49:00 AM	R99658
Ethylbenzene	ND	0.030		mg/Kg	1	9/13/2023 11:49:00 AM	R99658
Xylenes, Total	ND	0.061		mg/Kg	1	9/13/2023 11:49:00 AM	R99658
Surr: 4-Bromofluorobenzene	89.7	39.1-146		%Rec	1	9/13/2023 11:49:00 AM	R99658

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

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

Analytical Report

Lab Order 2309628

Date Reported: 9/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-9

Project: Trunk 3A

Collection Date: 9/12/2023 10:15:00 AM

Lab ID: 2309628-004

Matrix: MEOH (SOIL)

Received Date: 9/13/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: KCB
Chloride	ND	60		mg/Kg	20	9/13/2023 12:40:27 PM	77480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/13/2023 11:27:12 AM	77475
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/13/2023 11:27:12 AM	77475
Surr: DNOP	96.2	69-147		%Rec	1	9/13/2023 11:27:12 AM	77475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	3.3	2.9		mg/Kg	1	9/13/2023 12:11:00 PM	G99658
Surr: BFB	121	15-244		%Rec	1	9/13/2023 12:11:00 PM	G99658
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.015		mg/Kg	1	9/13/2023 12:11:00 PM	R99658
Toluene	ND	0.029		mg/Kg	1	9/13/2023 12:11:00 PM	R99658
Ethylbenzene	ND	0.029		mg/Kg	1	9/13/2023 12:11:00 PM	R99658
Xylenes, Total	0.30	0.058		mg/Kg	1	9/13/2023 12:11:00 PM	R99658
Surr: 4-Bromofluorobenzene	92.4	39.1-146		%Rec	1	9/13/2023 12:11:00 PM	R99658

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309628
18-Sep-23

Client: ENSOLUM
Project: Trunk 3A

Sample ID: MB-77480	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 77480	RunNo: 99669								
Prep Date: 9/13/2023	Analysis Date: 9/13/2023	SeqNo: 3642525	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77480	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 77480	RunNo: 99669								
Prep Date: 9/13/2023	Analysis Date: 9/13/2023	SeqNo: 3642526	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309628

18-Sep-23

Client: ENSOLUM

Project: Trunk 3A

Sample ID: LCS-77475	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 77475		RunNo: 99659							
Prep Date: 9/13/2023	Analysis Date: 9/13/2023		SeqNo: 3641036		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.3	61.9	130			
Surr: DNOP	4.7		5.000		95.0	69	147			

Sample ID: MB-77475	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 77475		RunNo: 99659							
Prep Date: 9/13/2023	Analysis Date: 9/13/2023		SeqNo: 3641040		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.8	69	147			

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

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

WO#: 2309628

18-Sep-23

Client: ENSOLUM**Project:** Trunk 3A

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G99658		RunNo: 99658							
Prep Date:	Analysis Date: 9/13/2023		SeqNo: 3641041		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	70	130			
Surr: BFB	2200		1000		219	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G99658		RunNo: 99658							
Prep Date:	Analysis Date: 9/13/2023		SeqNo: 3641042		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	15	244			

Sample ID: 2309628-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-6	Batch ID: G99658		RunNo: 99658							
Prep Date:	Analysis Date: 9/13/2023		SeqNo: 3641814		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.2	15.97	0	91.4	70	130			
Surr: BFB	1300		638.6		207	15	244			

Sample ID: 2309628-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-6	Batch ID: G99658		RunNo: 99658							
Prep Date:	Analysis Date: 9/13/2023		SeqNo: 3641815		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	3.2	15.97	0	89.7	70	130	1.94	20	
Surr: BFB	1300		638.6		208	15	244	0	0	

Qualifiers:

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

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

WO#: 2309628

18-Sep-23

Client: ENSOLUM**Project:** Trunk 3A

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: R99658			RunNo: 99658						
Prep Date:	Analysis Date: 9/13/2023			SeqNo: 3641027			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.7	70	130			
Toluene	0.87	0.050	1.000	0	87.4	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.7	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.0	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: R99658			RunNo: 99658						
Prep Date:	Analysis Date: 9/13/2023			SeqNo: 3641029			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		93.2	39.1	146			

Sample ID: 2309628-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-7	Batch ID: R99658			RunNo: 99658						
Prep Date:	Analysis Date: 9/13/2023			SeqNo: 3641780			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.56	0.016	0.6566	0	85.0	70	130			
Toluene	0.57	0.033	0.6566	0	86.1	70	130			
Ethylbenzene	0.58	0.033	0.6566	0.01016	87.4	70	130			
Xylenes, Total	1.8	0.066	1.970	0.1333	86.7	70	130			
Surr: 4-Bromofluorobenzene	0.60		0.6566		92.0	39.1	146			

Sample ID: 2309628-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-7	Batch ID: R99658			RunNo: 99658						
Prep Date:	Analysis Date: 9/13/2023			SeqNo: 3641781			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.56	0.016	0.6566	0	85.0	70	130	0.0129	20	
Toluene	0.57	0.033	0.6566	0	86.1	70	130	0.0279	20	
Ethylbenzene	0.58	0.033	0.6566	0.01016	87.2	70	130	0.260	20	
Xylenes, Total	1.8	0.066	1.970	0.1333	86.8	70	130	0.0684	20	
Surr: 4-Bromofluorobenzene	0.59		0.6566		90.4	39.1	146	0	0	

Qualifiers:

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



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: 2309628

RcptNo: 1

Received By: Tracy Casarrubias 9/13/2023 6:30:00 AM

Completed By: Tracy Casarrubias 9/13/2023 6:58:14 AM

Reviewed By: *7/4/13/23*

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Phone number and Email/Fax are missing on COC- TMC 9/13/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes	Yogi		



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

September 26, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Trunk 3A

OrderNo.: 2309B49

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/21/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2309B49

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: W-1

Project: Trunk 3A

Collection Date: 9/20/2023 12:00:00 PM

Lab ID: 2309B49-001

Matrix: AQUEOUS

Received Date: 9/21/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	31	0.25		mg/L	5	9/21/2023 2:42:00 PM	G99887
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	5	9/21/2023 2:42:00 PM	G99887
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: DGH
Diesel Range Organics (DRO)	11	1.4		mg/L	1	9/21/2023 1:45:15 PM	77671
Motor Oil Range Organics (MRO)	ND	7.1		mg/L	1	9/21/2023 1:45:15 PM	77671
Surr: DNOP	117	54.5-177		%Rec	1	9/21/2023 1:45:15 PM	77671
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	2000	50		µg/L	50	9/21/2023 2:18:00 PM	R99887
Toluene	5400	500		µg/L	500	9/21/2023 1:53:00 PM	R99887
Ethylbenzene	300	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2,4-Trimethylbenzene	260	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,3,5-Trimethylbenzene	110	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Naphthalene	120	10		µg/L	5	9/21/2023 2:42:00 PM	R99887
1-Methylnaphthalene	45	20		µg/L	5	9/21/2023 2:42:00 PM	R99887
2-Methylnaphthalene	79	20		µg/L	5	9/21/2023 2:42:00 PM	R99887
Acetone	ND	50		µg/L	5	9/21/2023 2:42:00 PM	R99887
Bromobenzene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Bromodichloromethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Bromoform	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Bromomethane	ND	15		µg/L	5	9/21/2023 2:42:00 PM	R99887
2-Butanone	ND	50		µg/L	5	9/21/2023 2:42:00 PM	R99887
Carbon disulfide	ND	50		µg/L	5	9/21/2023 2:42:00 PM	R99887
Carbon Tetrachloride	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Chlorobenzene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Chloroethane	ND	10		µg/L	5	9/21/2023 2:42:00 PM	R99887
Chloroform	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Chloromethane	ND	15		µg/L	5	9/21/2023 2:42:00 PM	R99887
2-Chlorotoluene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
4-Chlorotoluene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
cis-1,2-DCE	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	9/21/2023 2:42:00 PM	R99887
Dibromochloromethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Dibromomethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2-Dichlorobenzene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887

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

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

Page 1 of 7

Analytical Report

Lab Order 2309B49

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: W-1

Project: Trunk 3A

Collection Date: 9/20/2023 12:00:00 PM

Lab ID: 2309B49-001

Matrix: AQUEOUS

Received Date: 9/21/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichlorobenzene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,4-Dichlorobenzene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Dichlorodifluoromethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,1-Dichloroethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,1-Dichloroethene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2-Dichloropropane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,3-Dichloropropane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
2,2-Dichloropropane	ND	10		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,1-Dichloropropene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Hexachlorobutadiene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
2-Hexanone	ND	50		µg/L	5	9/21/2023 2:42:00 PM	R99887
Isopropylbenzene	36	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
4-Isopropyltoluene	7.2	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
4-Methyl-2-pentanone	ND	50		µg/L	5	9/21/2023 2:42:00 PM	R99887
Methylene Chloride	ND	15		µg/L	5	9/21/2023 2:42:00 PM	R99887
n-Butylbenzene	ND	15		µg/L	5	9/21/2023 2:42:00 PM	R99887
n-Propylbenzene	40	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
sec-Butylbenzene	5.3	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Styrene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
tert-Butylbenzene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	9/21/2023 2:42:00 PM	R99887
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
trans-1,2-DCE	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,1,1-Trichloroethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,1,2-Trichloroethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Trichloroethene (TCE)	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Trichlorofluoromethane	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
1,2,3-Trichloropropane	ND	10		µg/L	5	9/21/2023 2:42:00 PM	R99887
Vinyl chloride	ND	5.0		µg/L	5	9/21/2023 2:42:00 PM	R99887
Xylenes, Total	2900	75		µg/L	50	9/21/2023 2:18:00 PM	R99887
Surr: 1,2-Dichloroethane-d4	80.2	70-130		%Rec	5	9/21/2023 2:42:00 PM	R99887
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	9/21/2023 2:42:00 PM	R99887
Surr: Dibromofluoromethane	85.0	70-130		%Rec	5	9/21/2023 2:42:00 PM	R99887
Surr: Toluene-d8	112	70-130		%Rec	5	9/21/2023 2:42:00 PM	R99887

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309B49
26-Sep-23

Client: ENSOLUM
Project: Trunk 3A

Sample ID: LCS-77671	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 77671	RunNo: 99892								
Prep Date: 9/21/2023	Analysis Date: 9/21/2023	SeqNo: 3652784	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.2	1.0	2.500	0	128	68.4	146			
Surr: DNOP	0.33		0.2500		133	54.5	177			

Sample ID: LCSD-77671	SampType: LCSD	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSS02	Batch ID: 77671	RunNo: 99892								
Prep Date: 9/21/2023	Analysis Date: 9/21/2023	SeqNo: 3652785	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.2	1.0	2.500	0	128	68.4	146	0.260	20	
Surr: DNOP	0.32		0.2500		129	54.5	177	0	0	

Sample ID: MB-77671	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 77671	RunNo: 99892								
Prep Date: 9/21/2023	Analysis Date: 9/21/2023	SeqNo: 3652786	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.63		0.5000		126	54.5	177			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309B49

26-Sep-23

Client: ENSOLUM

Project: Trunk 3A

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R99887	RunNo: 99887								
Prep Date:	Analysis Date: 9/21/2023	SeqNo: 3652816	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.5	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.9	70	130			
Surr: Toluene-d8	9.4		10.00		93.8	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R99887	RunNo: 99887								
Prep Date:	Analysis Date: 9/21/2023	SeqNo: 3652817	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309B49

26-Sep-23

Client: ENSOLUM

Project: Trunk 3A

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R99887	RunNo: 99887								
Prep Date:	Analysis Date: 9/21/2023	SeqNo: 3652817	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309B49

26-Sep-23

Client: ENSOLUM

Project: Trunk 3A

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R99887	RunNo: 99887								
Prep Date:	Analysis Date: 9/21/2023	SeqNo: 3652817 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.8	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.3	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.5	70	130			
Surr: Toluene-d8	9.2		10.00		91.8	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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S % Recovery outside of standard limits. If undiluted results may be estimated.

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J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309B49

26-Sep-23

Client: ENSOLUM

Project: Trunk 3A

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: G99887		RunNo: 99887							
Prep Date:	Analysis Date: 9/21/2023		SeqNo: 3652822		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	106	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.4	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: G99887		RunNo: 99887							
Prep Date:	Analysis Date: 9/21/2023		SeqNo: 3652823		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: 4-Bromofluorobenzene	7.8		10.00		78.1	70	130			

Qualifiers:

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D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
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RL Reporting Limit

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

Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2309B49

RcptNo: 1

Received By: Tracy Casarrubias

9/21/2023 6:10:00 AM

Completed By: Tracy Casarrubias

9/21/2023 6:46:05 AM

Reviewed By: *JS* 9-21-23

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: *SCM 9/21/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Phone number and Email/Fax are missing on COC- TMC 9/21/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Enasolum

Mailing Address: 606 S Rio Grande
Suite A #7410

Phone #:

email or Fax#:

QA/QC Package:

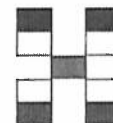
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:	100%
<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush 9-21-23
Project Name:	TRUNK 3A
Project #:	
Project Manager:	K Semmers
Sampler:	N. D. Apontz
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 40g
# of Coolers:	1
Cooler Temp (Including CF):	5.2 - 0 = 5.1 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]



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

October 24, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: 2 Trunk 3A

OrderNo.: 2310836

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/18/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2310836

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: 2S-1

Project: 2 Trunk 3A

Collection Date: 10/17/2023 9:00:00 AM

Lab ID: 2310836-001

Matrix: MEOH (SOIL)

Received Date: 10/18/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 10:48:20 AM	78217
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/18/2023 10:27:58 AM	78215
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2023 10:27:58 AM	78215
Surr: DNOP	94.3	69-147		%Rec	1	10/18/2023 10:27:58 AM	78215
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	10/18/2023 11:52:00 AM	GS1005E
Surr: BFB	97.8	15-244		%Rec	1	10/18/2023 11:52:00 AM	GS1005E
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.017		mg/Kg	1	10/18/2023 11:52:00 AM	BS10055
Toluene	ND	0.034		mg/Kg	1	10/18/2023 11:52:00 AM	BS10055
Ethylbenzene	ND	0.034		mg/Kg	1	10/18/2023 11:52:00 AM	BS10055
Xylenes, Total	ND	0.068		mg/Kg	1	10/18/2023 11:52:00 AM	BS10055
Surr: 4-Bromofluorobenzene	87.5	39.1-146		%Rec	1	10/18/2023 11:52:00 AM	BS10055

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

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

Analytical Report

Lab Order 2310836

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: 2S-2

Project: 2 Trunk 3A

Collection Date: 10/17/2023 9:05:00 AM

Lab ID: 2310836-002

Matrix: MEOH (SOIL)

Received Date: 10/18/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 11:00:44 AM	78217
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/18/2023 10:38:36 AM	78215
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2023 10:38:36 AM	78215
Surr: DNOP	93.6	69-147		%Rec	1	10/18/2023 10:38:36 AM	78215
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/18/2023 12:14:00 PM	GS1005E
Surr: BFB	96.5	15-244		%Rec	1	10/18/2023 12:14:00 PM	GS1005E
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.018		mg/Kg	1	10/18/2023 12:14:00 PM	BS10055
Toluene	ND	0.037		mg/Kg	1	10/18/2023 12:14:00 PM	BS10055
Ethylbenzene	ND	0.037		mg/Kg	1	10/18/2023 12:14:00 PM	BS10055
Xylenes, Total	ND	0.073		mg/Kg	1	10/18/2023 12:14:00 PM	BS10055
Surr: 4-Bromofluorobenzene	84.4	39.1-146		%Rec	1	10/18/2023 12:14:00 PM	BS10055

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

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

Analytical Report

Lab Order 2310836

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: 2S-3

Project: 2 Trunk 3A

Collection Date: 10/17/2023 9:10:00 AM

Lab ID: 2310836-003

Matrix: MEOH (SOIL)

Received Date: 10/18/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 11:13:09 AM	78217
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/18/2023 10:49:11 AM	78215
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2023 10:49:11 AM	78215
Surr: DNOP	93.8	69-147		%Rec	1	10/18/2023 10:49:11 AM	78215
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	10/18/2023 12:35:00 PM	GS10055
Surr: BFB	98.7	15-244		%Rec	1	10/18/2023 12:35:00 PM	GS10055
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.016		mg/Kg	1	10/18/2023 12:35:00 PM	BS10055
Toluene	ND	0.032		mg/Kg	1	10/18/2023 12:35:00 PM	BS10055
Ethylbenzene	ND	0.032		mg/Kg	1	10/18/2023 12:35:00 PM	BS10055
Xylenes, Total	ND	0.064		mg/Kg	1	10/18/2023 12:35:00 PM	BS10055
Surr: 4-Bromofluorobenzene	89.1	39.1-146		%Rec	1	10/18/2023 12:35:00 PM	BS10055

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

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

Analytical Report

Lab Order 2310836

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: 2S-4

Project: 2 Trunk 3A

Collection Date: 10/17/2023 9:15:00 AM

Lab ID: 2310836-004

Matrix: MEOH (SOIL)

Received Date: 10/18/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 11:25:33 AM	78217
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/18/2023 10:59:49 AM	78215
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2023 10:59:49 AM	78215
Surr: DNOP	92.6	69-147		%Rec	1	10/18/2023 10:59:49 AM	78215
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	10/18/2023 12:57:00 PM	GS10055
Surr: BFB	98.6	15-244		%Rec	1	10/18/2023 12:57:00 PM	GS10055
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.017		mg/Kg	1	10/18/2023 12:57:00 PM	BS10055
Toluene	ND	0.034		mg/Kg	1	10/18/2023 12:57:00 PM	BS10055
Ethylbenzene	ND	0.034		mg/Kg	1	10/18/2023 12:57:00 PM	BS10055
Xylenes, Total	ND	0.068		mg/Kg	1	10/18/2023 12:57:00 PM	BS10055
Surr: 4-Bromofluorobenzene	88.6	39.1-146		%Rec	1	10/18/2023 12:57:00 PM	BS10055

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

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

Analytical Report

Lab Order 2310836

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: 2S-5

Project: 2 Trunk 3A

Collection Date: 10/17/2023 9:20:00 AM

Lab ID: 2310836-005

Matrix: MEOH (SOIL)

Received Date: 10/18/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 11:37:57 AM	78217
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/18/2023 11:10:26 AM	78215
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/18/2023 11:10:26 AM	78215
Surr: DNOP	92.4	69-147		%Rec	1	10/18/2023 11:10:26 AM	78215
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/18/2023 1:18:00 PM	GS10055
Surr: BFB	97.4	15-244		%Rec	1	10/18/2023 1:18:00 PM	GS10055
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.019		mg/Kg	1	10/18/2023 1:18:00 PM	BS10055
Toluene	ND	0.037		mg/Kg	1	10/18/2023 1:18:00 PM	BS10055
Ethylbenzene	ND	0.037		mg/Kg	1	10/18/2023 1:18:00 PM	BS10055
Xylenes, Total	ND	0.074		mg/Kg	1	10/18/2023 1:18:00 PM	BS10055
Surr: 4-Bromofluorobenzene	86.4	39.1-146		%Rec	1	10/18/2023 1:18:00 PM	BS10055

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

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

Analytical Report

Lab Order 2310836

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: 2S-6

Project: 2 Trunk 3A

Collection Date: 10/17/2023 9:25:00 AM

Lab ID: 2310836-006

Matrix: MEOH (SOIL)

Received Date: 10/18/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 11:50:22 AM	78217
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/18/2023 11:21:06 AM	78215
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/18/2023 11:21:06 AM	78215
Surr: DNOP	92.2	69-147		%Rec	1	10/18/2023 11:21:06 AM	78215
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/18/2023 1:40:00 PM	GS1005E
Surr: BFB	99.2	15-244		%Rec	1	10/18/2023 1:40:00 PM	GS1005E
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.018		mg/Kg	1	10/18/2023 1:40:00 PM	BS10055
Toluene	ND	0.037		mg/Kg	1	10/18/2023 1:40:00 PM	BS10055
Ethylbenzene	ND	0.037		mg/Kg	1	10/18/2023 1:40:00 PM	BS10055
Xylenes, Total	ND	0.073		mg/Kg	1	10/18/2023 1:40:00 PM	BS10055
Surr: 4-Bromofluorobenzene	87.5	39.1-146		%Rec	1	10/18/2023 1:40:00 PM	BS10055

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

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

Analytical Report

Lab Order 2310836

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: 2S-7

Project: 2 Trunk 3A

Collection Date: 10/17/2023 9:30:00 AM

Lab ID: 2310836-007

Matrix: MEOH (SOIL)

Received Date: 10/18/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 12:02:46 PM	78217
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/18/2023 11:36:34 AM	78215
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2023 11:36:34 AM	78215
Surr: DNOP	92.7	69-147		%Rec	1	10/18/2023 11:36:34 AM	78215
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	10/18/2023 2:02:00 PM	GS10055
Surr: BFB	101	15-244		%Rec	1	10/18/2023 2:02:00 PM	GS10055
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.017		mg/Kg	1	10/18/2023 2:02:00 PM	BS10055
Toluene	ND	0.034		mg/Kg	1	10/18/2023 2:02:00 PM	BS10055
Ethylbenzene	ND	0.034		mg/Kg	1	10/18/2023 2:02:00 PM	BS10055
Xylenes, Total	ND	0.068		mg/Kg	1	10/18/2023 2:02:00 PM	BS10055
Surr: 4-Bromofluorobenzene	87.9	39.1-146		%Rec	1	10/18/2023 2:02:00 PM	BS10055

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310836
24-Oct-23

Client: ENSOLUM
Project: 2 Trunk 3A

Sample ID: MB-78217	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78217	RunNo: 100554								
Prep Date: 10/18/2023	Analysis Date: 10/18/2023	SeqNo: 3686720	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-78217	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 78217	RunNo: 100554								
Prep Date: 10/18/2023	Analysis Date: 10/18/2023	SeqNo: 3686721	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	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 Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310836
24-Oct-23

Client: ENSOLUM
Project: 2 Trunk 3A

Sample ID: LCS-78215	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 78215			RunNo: 100548						
Prep Date: 10/18/2023	Analysis Date: 10/18/2023			SeqNo: 3685409		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.2	61.9	130			
Surr: DNOP	4.2		5.000		83.7	69	147			

Sample ID: MB-78215	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 78215			RunNo: 100548						
Prep Date: 10/18/2023	Analysis Date: 10/18/2023			SeqNo: 3685410		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.4	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310836
24-Oct-23

Client: ENSOLUM
Project: 2 Trunk 3A

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS100551		RunNo: 100551							
Prep Date:	Analysis Date: 10/18/2023		SeqNo: 3685449		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.7	70	130			
Surr: BFB	2200		1000		219	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS100551		RunNo: 100551							
Prep Date:	Analysis Date: 10/18/2023		SeqNo: 3685450		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	15	244			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310836
24-Oct-23

Client: ENSOLUM
Project: 2 Trunk 3A

Sample ID: 100ng btex lcs		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: BS100551		RunNo: 100551						
Prep Date:		Analysis Date: 10/18/2023		SeqNo: 3685454		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.0	70	130			
Toluene	0.83	0.050	1.000	0	83.2	70	130			
Ethylbenzene	0.85	0.050	1.000	0	85.3	70	130			
Xylenes, Total	2.6	0.10	3.000	0	85.5	70	130			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	39.1	146			

Sample ID: mb		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: BS100551		RunNo: 100551						
Prep Date:		Analysis Date: 10/18/2023		SeqNo: 3685455		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		92.8	39.1	146			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2310836

RcptNo: 1

Received By: **Tracy Casarrubias**

10/18/2023 6:30:00 AM

Completed By: **Tracy Casarrubias**

10/18/2023 7:26:28 AM

Reviewed By: *HA* 10-18-23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐

2. How was the sample delivered? Courier

[Log In](#)

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions: Phone number and Email/Fax are missing on COC- TMC 10/18/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Yes	Morty		

Chain-of-Custody Record

Client: Enschon

Mailing Address: Lept. S Rio Grande

Sout A 87410

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

□ EDD (Type)

Turn-Around Time:

☐ Standard

☒ Rush 10-18-23

Project Name:

#2 Trunk 3A

Project #:

Project Manager:

Sampler: *C. D. Asanti*


On Ice: ☒ Yes ☐ No Month:

of Coolers:

Cooler Temp(Including CF): 2.2 - 0 - 2.2 (°C)

[illegible]

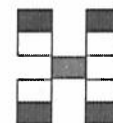
Date: 10/17	Time: 1611	Relinquished by: 
----------------	---------------	---------------------------------------------------------------------------------------------------------

Date: 10/17/22	Time: 1748	Relinquished by: 
-------------------	---------------	---------------------------------------------------------------------------------------------------------

Received by:	Via:	Date	Time
<i>[Signature]</i>		10/17/23	1611

Received by: Via: Courier Date: 10/18/23 Time: 6:30

Remarks:	Tom Long	Same Day
----------	----------	----------



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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QUESTIONS

Action 293960

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	293960
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2320632087
Incident Name	NAPP2320632087 TRUNK 3A GWA @ 0
Incident Type	Natural Gas Release
Incident Status	Reclamation Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	TRUNK 3A GWA
Date Release Discovered	07/12/2023
Surface Owner	Navajo

Incident Details

Please answer all the questions in this group.

Incident Type	Natural Gas Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Corrosion Pipeline (Any) Condensate Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 293960

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	293960
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/13/2023
----------------------------------------------------	-------------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 293960

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	293960
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	Yes
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	60
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	3.3
GRO+DRO	(EPA SW-846 Method 8015M)	13.2
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	09/06/2023
On what date will (or did) the final sampling or liner inspection occur	10/17/2023
On what date will (or was) the remediation complete(d)	10/17/2023
What is the estimated surface area (in square feet) that will be reclaimed	578
What is the estimated volume (in cubic yards) that will be reclaimed	650
What is the estimated surface area (in square feet) that will be remediated	578
What is the estimated volume (in cubic yards) that will be remediated	650

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 293960

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:	241602
	Action Number:	293960
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Envirotech Land Farm
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/13/2023
----------------------------------------------------	-------------------------------------------------------------------------------------------------------------

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 293960

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 293960
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 293960

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	293960
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	293976
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/07/2023
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	578
What was the total volume (cubic yards) remediated	650
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	578
What was the total volume (in cubic yards) reclaimed	650
Summarize any additional remediation activities not included by answers (above)	None

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/13/2023
----------------------------------------------------	-------------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 7

Action 293960

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:	241602
	Action Number:	293960
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	578
What was the total volume of replacement material (in cubic yards) for this site	650

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	06/01/2024

Summarize any additional reclamation activities not included by answers (above)	None
---------------------------------------------------------------------------------	------

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/13/2023
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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

QUESTIONS, Page 8

Action 293960

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 293960
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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
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CONDITIONS

Action 293960

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 293960
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Surface owner: Tribal land [Navajo].	5/9/2024