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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **241602**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)* **nAPP2322931994**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.441870** Longitude **-108.030200** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Gallegos Com #5E**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **08/16/2023**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
K	**32**	**26N**	**11W**	**San Juan**

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **Estimated 5-10 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **1.16 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On July 12, 2023, Enterprise had a release of natural gas and natural gas liquids from the Gallegos Com #5E pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. No liquids were observed on the ground surface. Repairs and remediation began on August 16, 2023, at which time Enterprise determined the release reportable per NMOCD regulation, due to the volume of impacted subsurface soil. Remediation was completed on August 16, 2023. The final excavation dimensions measured approximately 32 feet long by 12 feet wide by 7 feet deep. A total of 84 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final" C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☒ Description of remediation activities

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

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature: Thomas Long Date: 12-1-2023

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Nelson Velez Date: 12/01/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

ENSOLUM

CLOSURE REPORT

Property:

Gallegos Com #5E (08/16/23)
Unit Letter K, S32 T26N R11W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2322931994

November 9, 2023

Ensolum Project No. 05A1226258

Prepared for:

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

Prepared by:

Ranee Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Gallegos Com #5E (08/16/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2322931994
Location:	36.44187° North, 108.0302° West Unit Letter K, Section 32, Township 26 North, Range 11 West San Juan County, New Mexico
Property:	State Land
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 12, 2023, a possible release of natural gas was identified on the Gallegos Com #5E pipeline. Enterprise verified a release and subsequently isolated and locked the pipeline out of service. On August 16, 2023, Enterprise initiated activities to repair the pipeline and remediate potential petroleum hydrocarbon impact. In addition, Enterprise determined the release was "reportable" due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced 19.15.29 New Mexico Administrative Code (NMAC), which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site. One POD (SJ-00221) was identified in an adjacent PLSS section. Documentation for SJ-00221 indicates a depth to water of 135 feet below grade surface (bgs). This POD is located approximately 1.5 miles southeast of the Site and approximately 27 feet higher in elevation than the Site (**Figure A**, **Appendix B**).

- One cathodic protection well (CPW) was identified in the NM EMNRD OCD imaging database in the adjacent PLSS section. This CPW is depicted on **Figure B** (**Appendix B**). Documentation for the cathodic protection well located near the Nocki #1E well location indicates a depth to water of 20 feet bgs. This cathodic protection well is located approximately 1.6 miles southwest of the Site and is approximately 66 feet higher 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 estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. None of the samples collected below four feet bgs exceeded the Tier I closure criteria, so Tier II closure criteria were not included in this report. The closure criteria for Tier I soils remaining in place at the Site include:

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On August 16, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors, Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 32 feet long and 12 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 7 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sand underlain by weathered sandstone.

Approximately 84 cubic yards (yd^3) 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 C**. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of seven composite soil samples (S-1 through S-7) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) sample area or less per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event

On August 16, 2023, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample S-1 (7') was collected from the floor of the excavation. Composite soil samples S-2 (0' to 7'), S-3 (0' to 7'), S-4 (0' to 7'), S-6 (0' to 7'), and S-7 (0' to 6') were collected from the sloped walls of the excavation.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-7) to the applicable NM EMNRD OCD closure criteria. The 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 all 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 all 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 New Mexico EMNRD OCD closure criteria of 100 mg/kg or 2,500 mg/kg (depending on the depth of the represented soil).

- The laboratory analytical results for composite soil samples S-1, S-6, and S-7 indicate chloride concentrations of 78 mg/kg, 69 mg/kg, and 62 mg/kg, respectively, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for all other 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.

7.0 RECLAMATION

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

8.0 FINDINGS AND RECOMMENDATION

- Seven 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 84 yd^3 of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

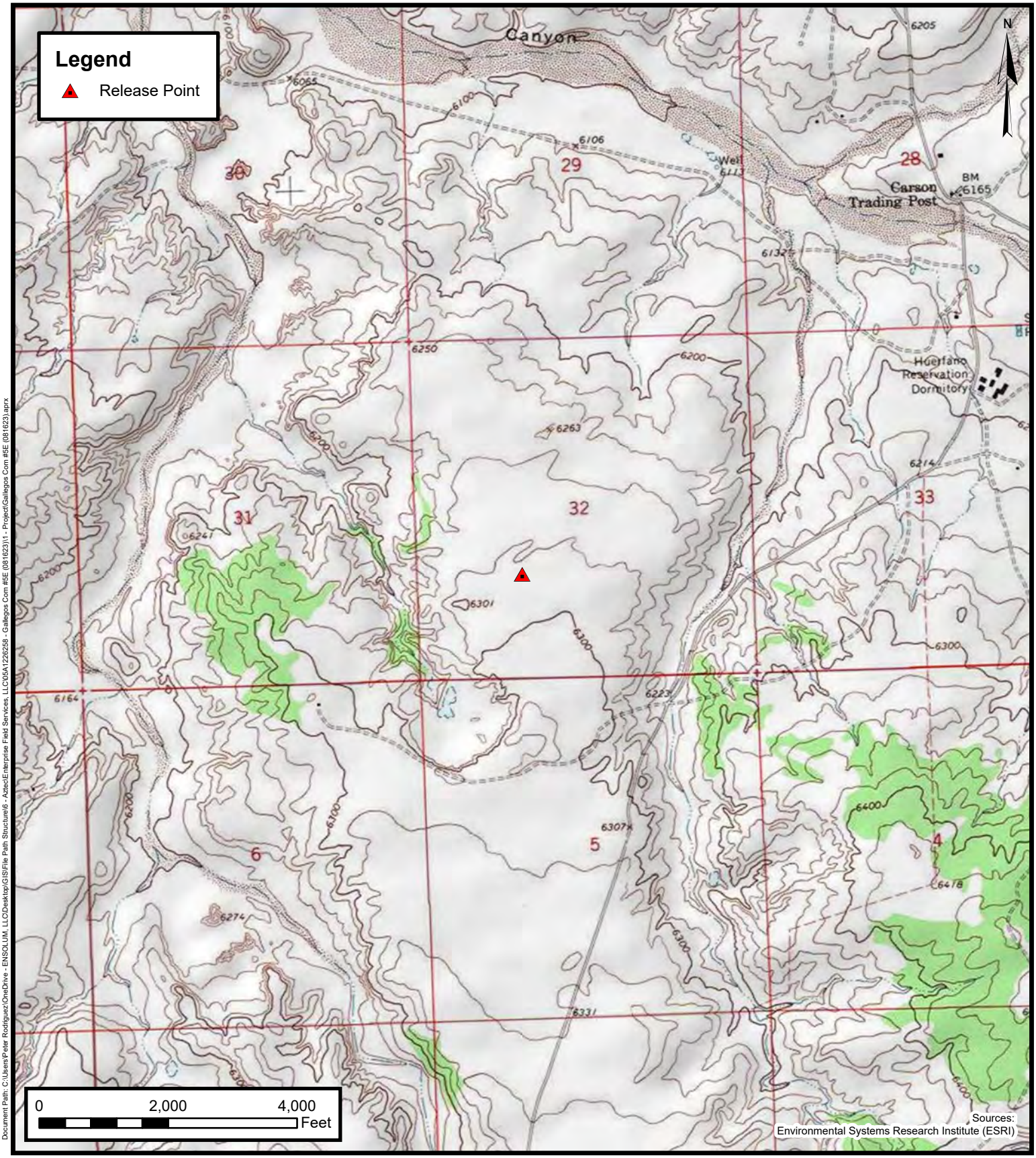
9.3 Reliance

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

ENSOLUM

APPENDIX A

Figures



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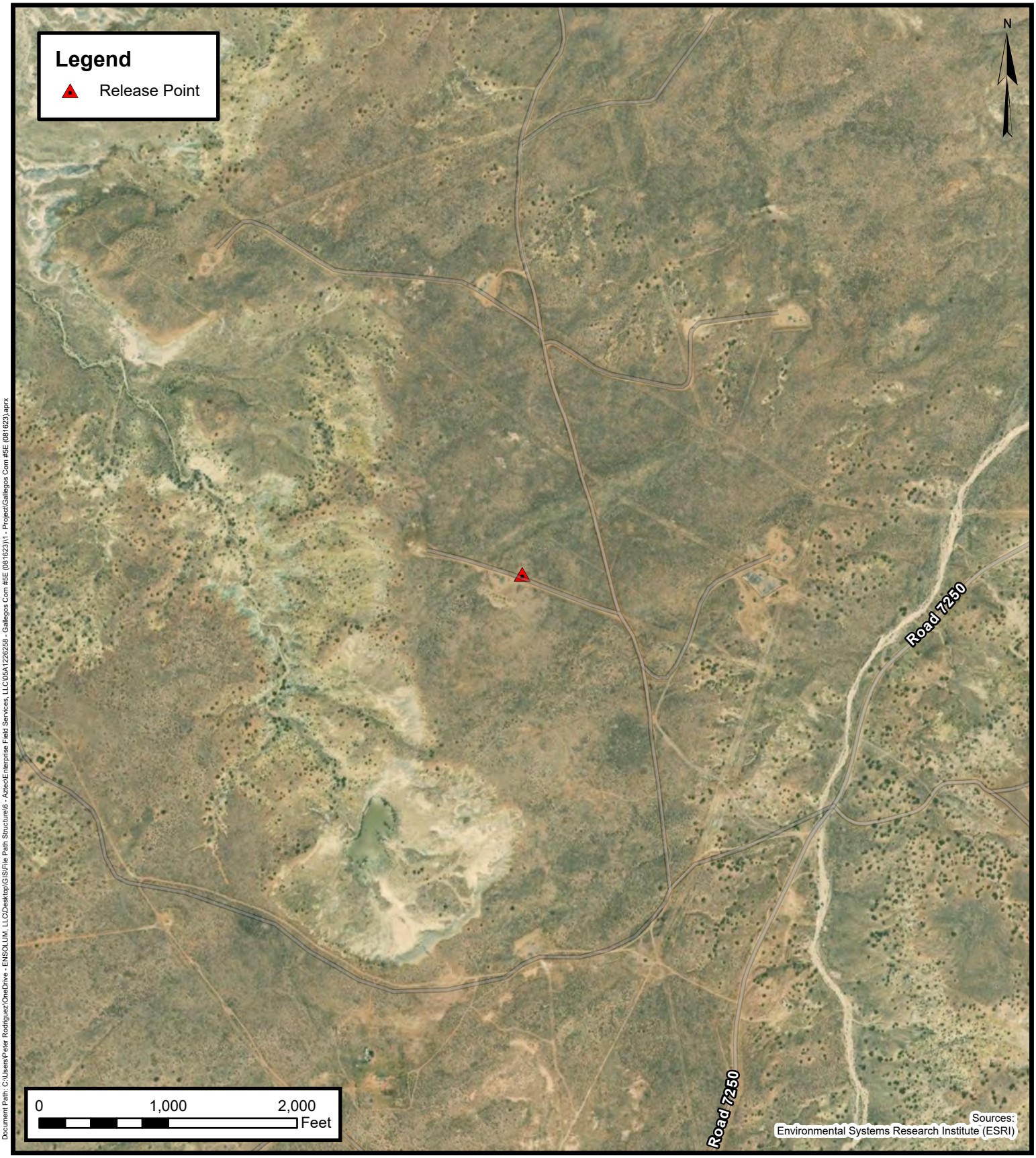
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE

1



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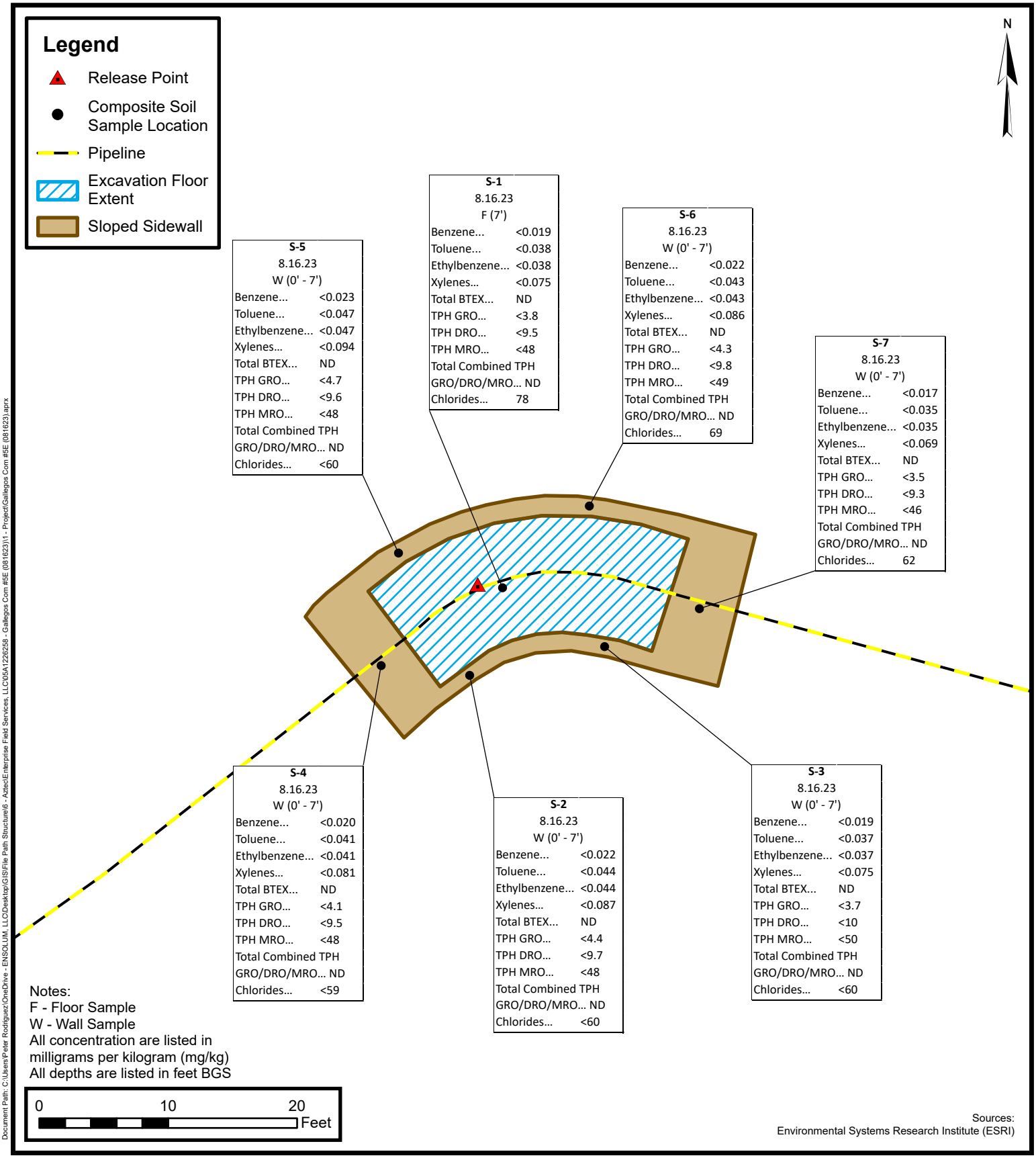
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE
2



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Environmental, Engineering and Hydrogeologic Consultants

Site Map with Soil Analytical Results

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE
3

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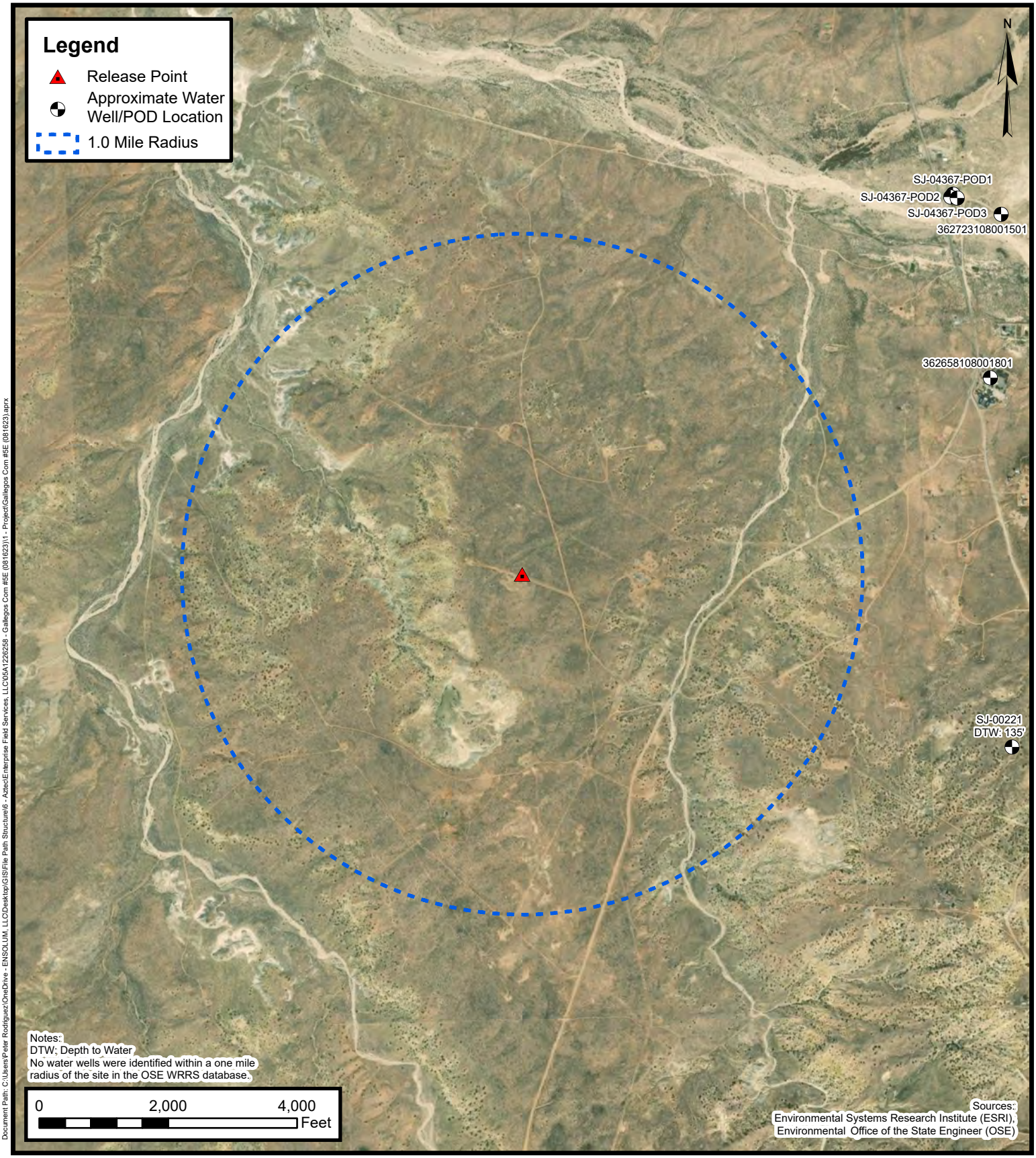
APPENDIX B

Siting Figures and Documentation



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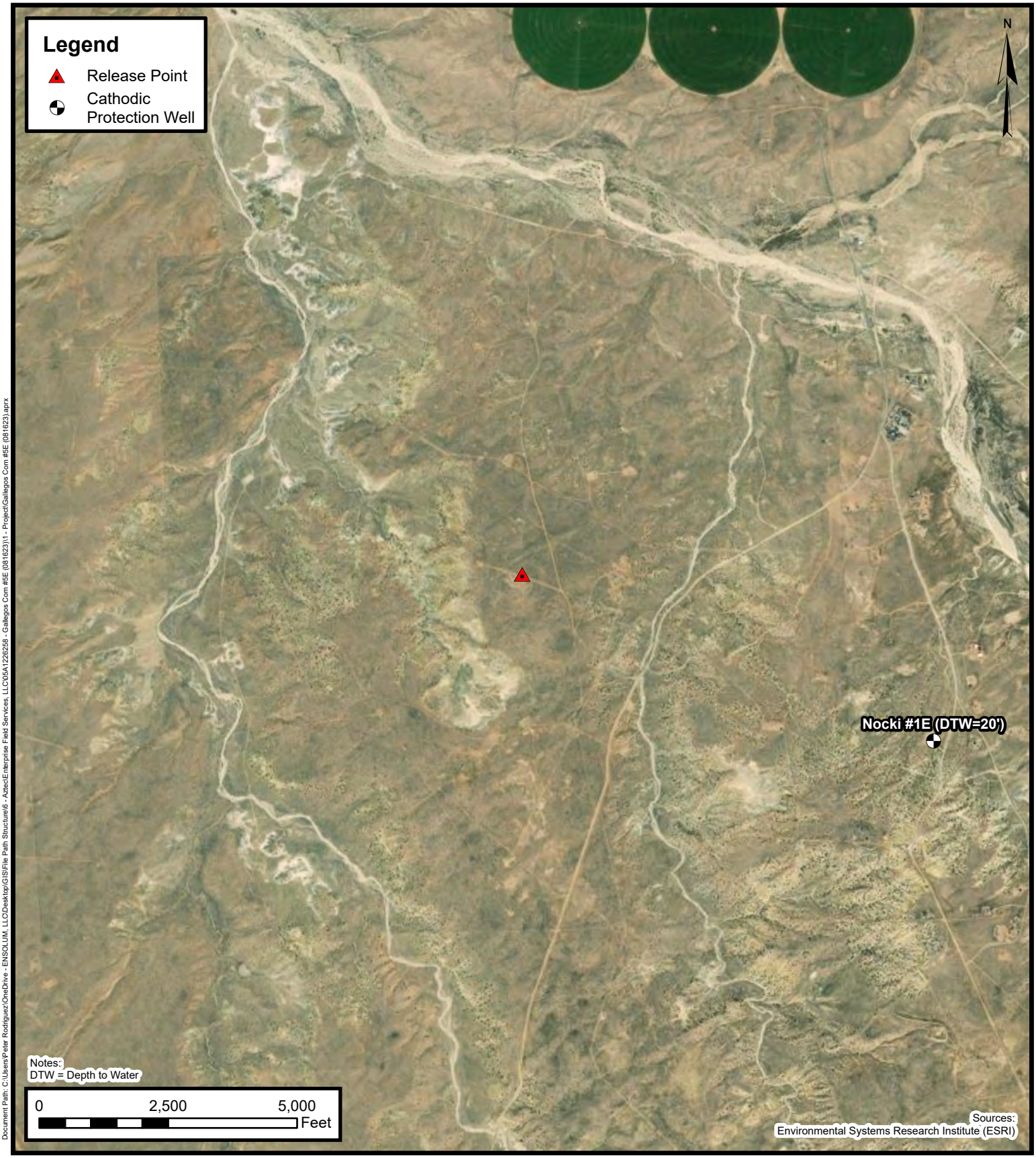
1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE

A



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Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE
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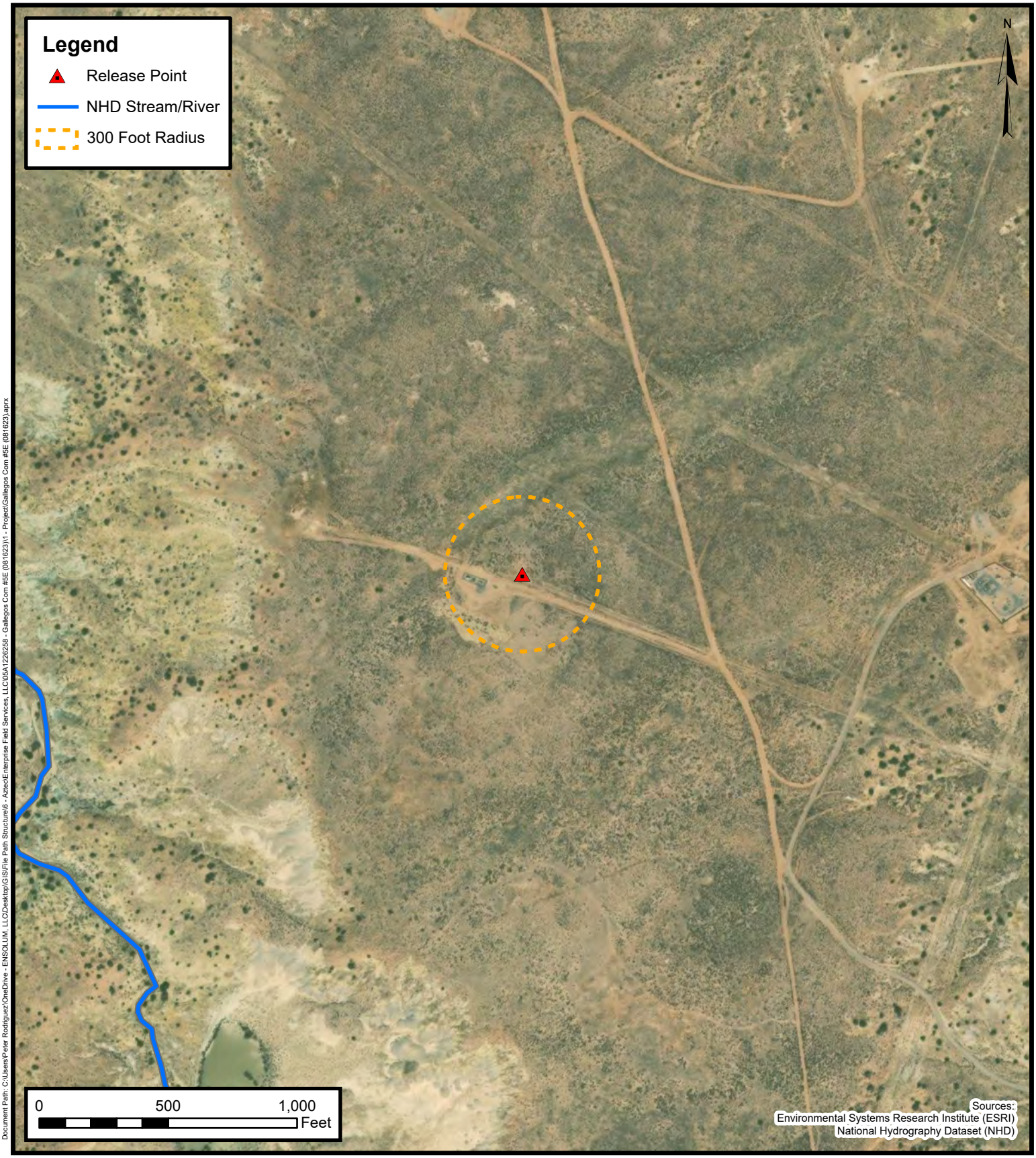

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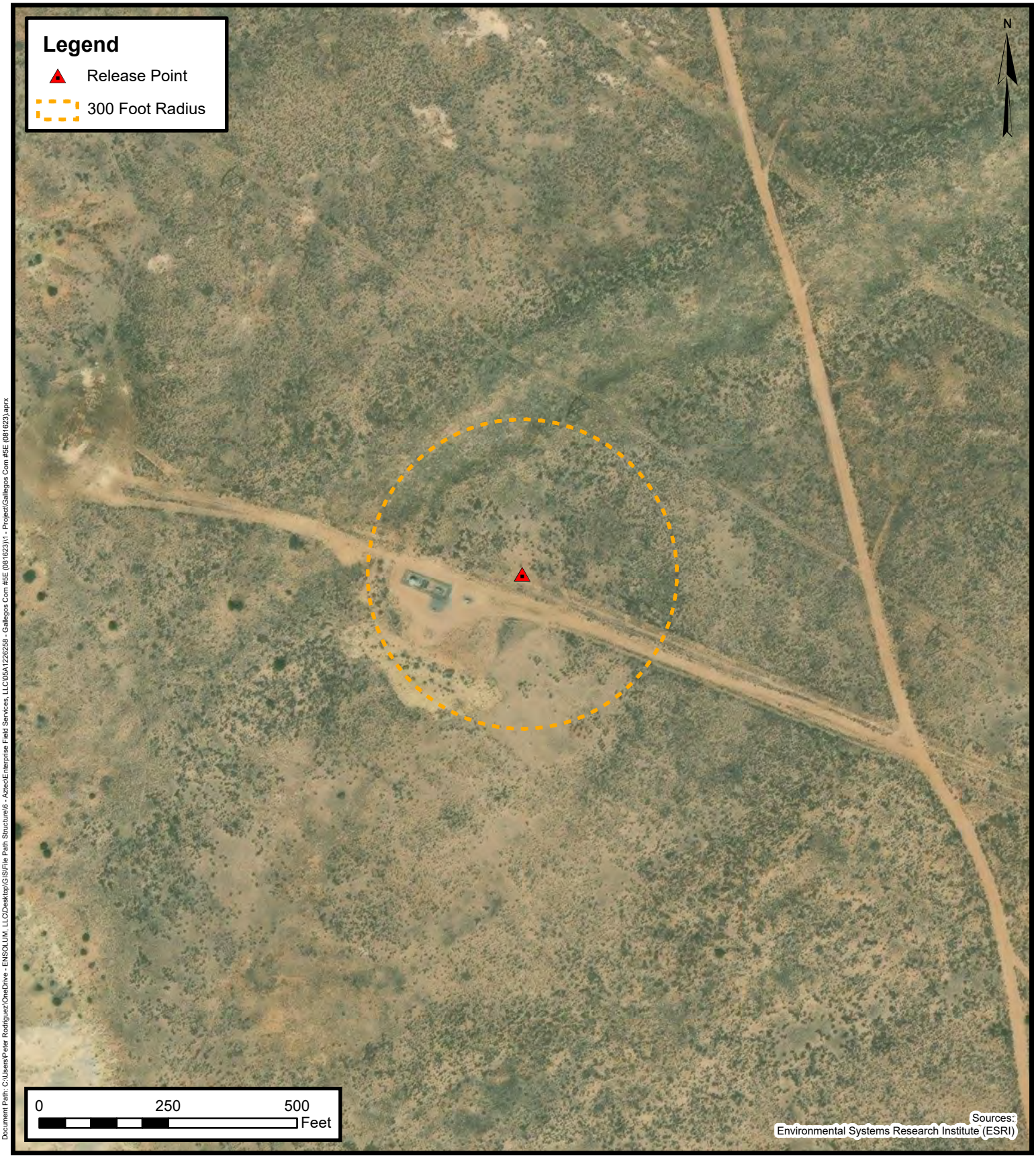
Environmental, Engineering and Hydrogeologic Consultants

300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE
C



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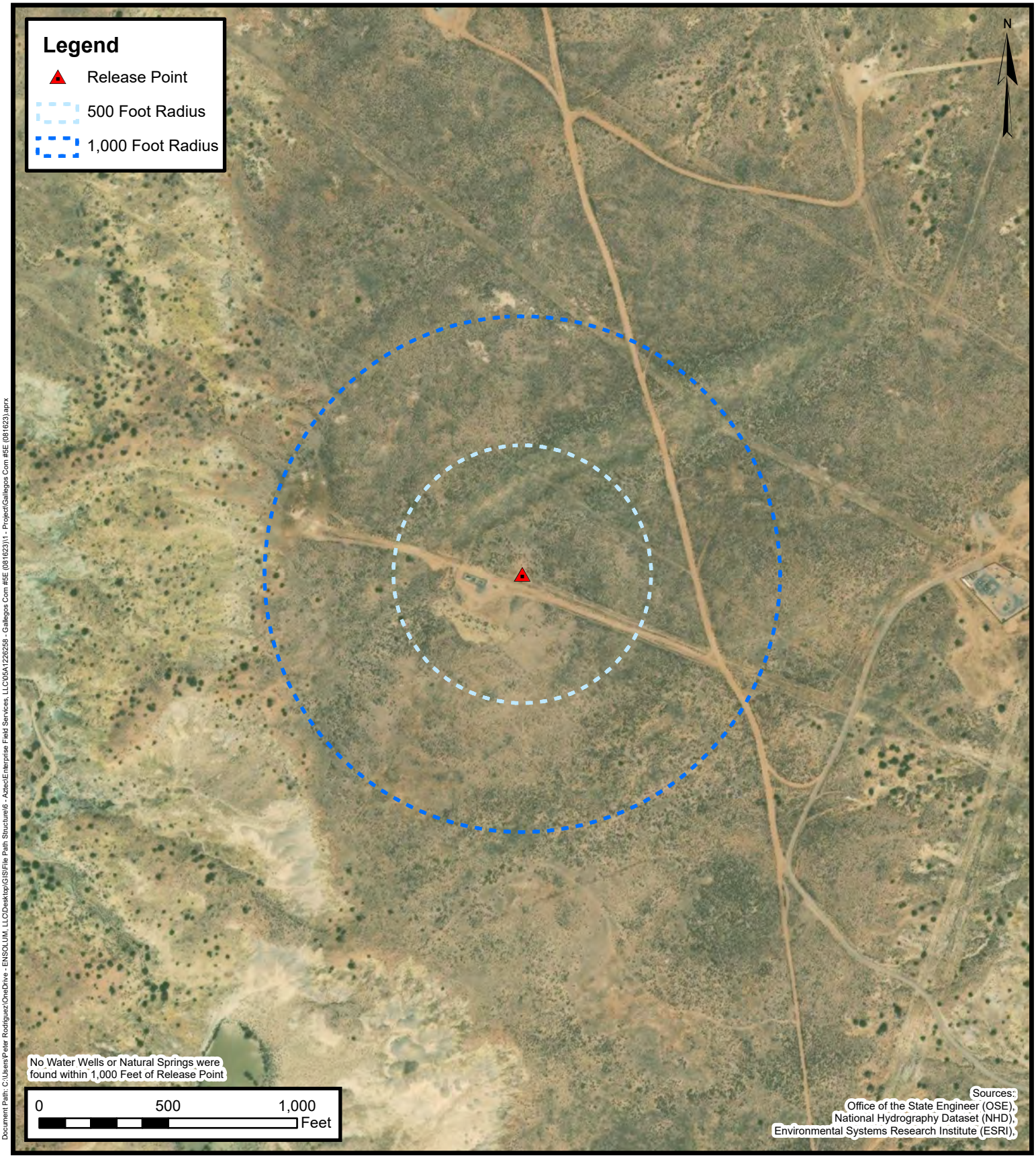
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE

D



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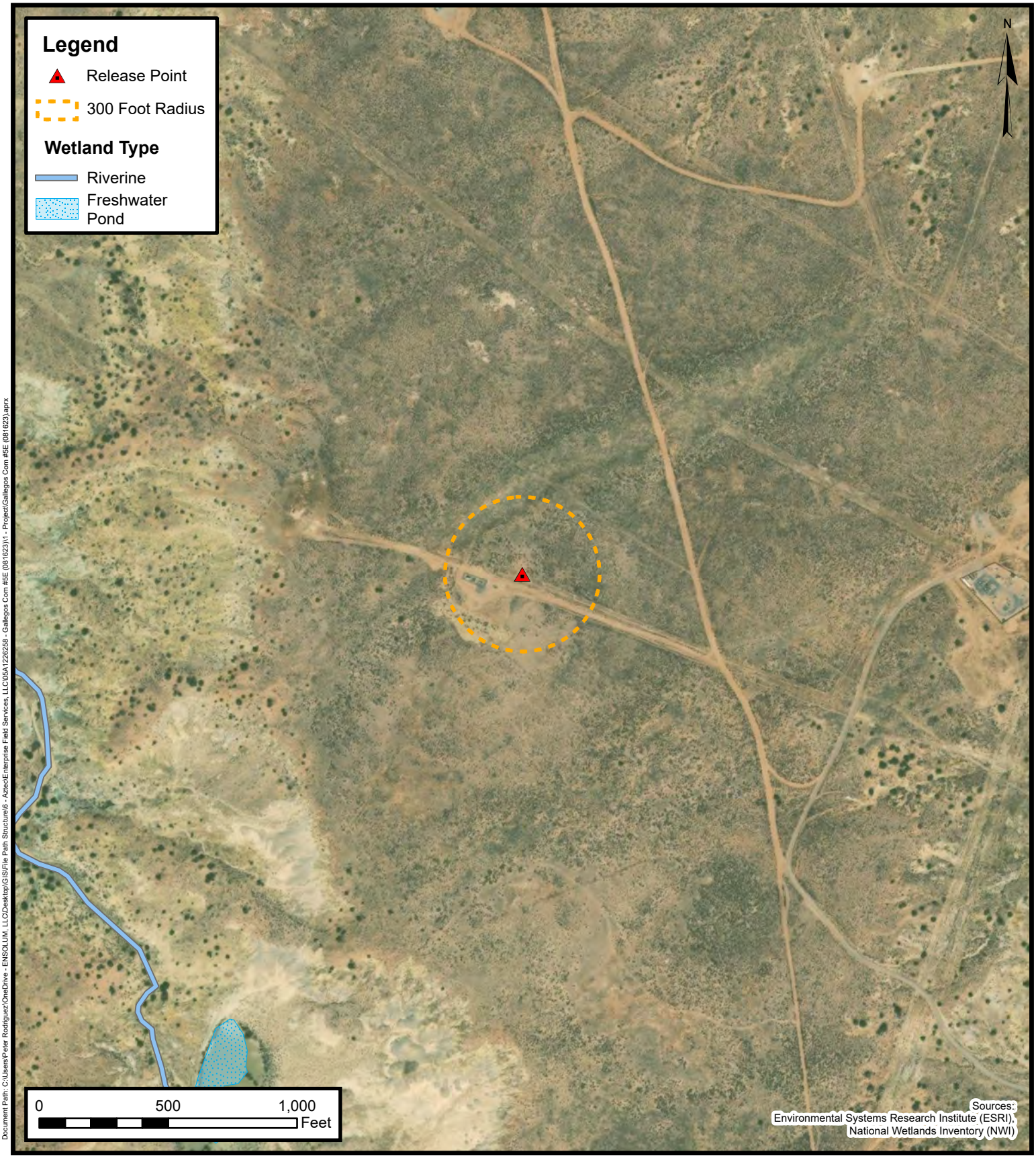
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Water Well and Natural Spring Location
Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE
E

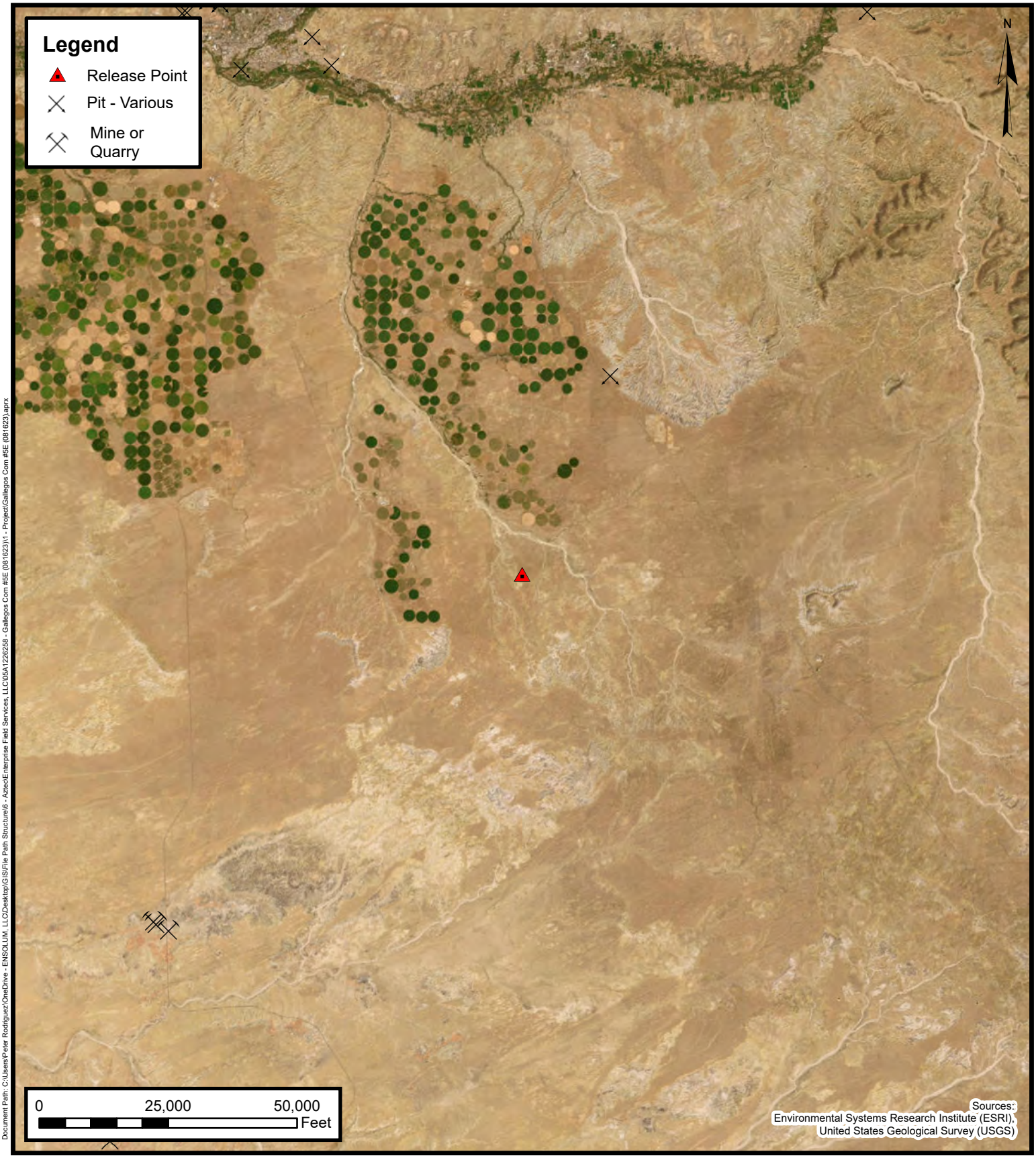


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Wetlands

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE
F



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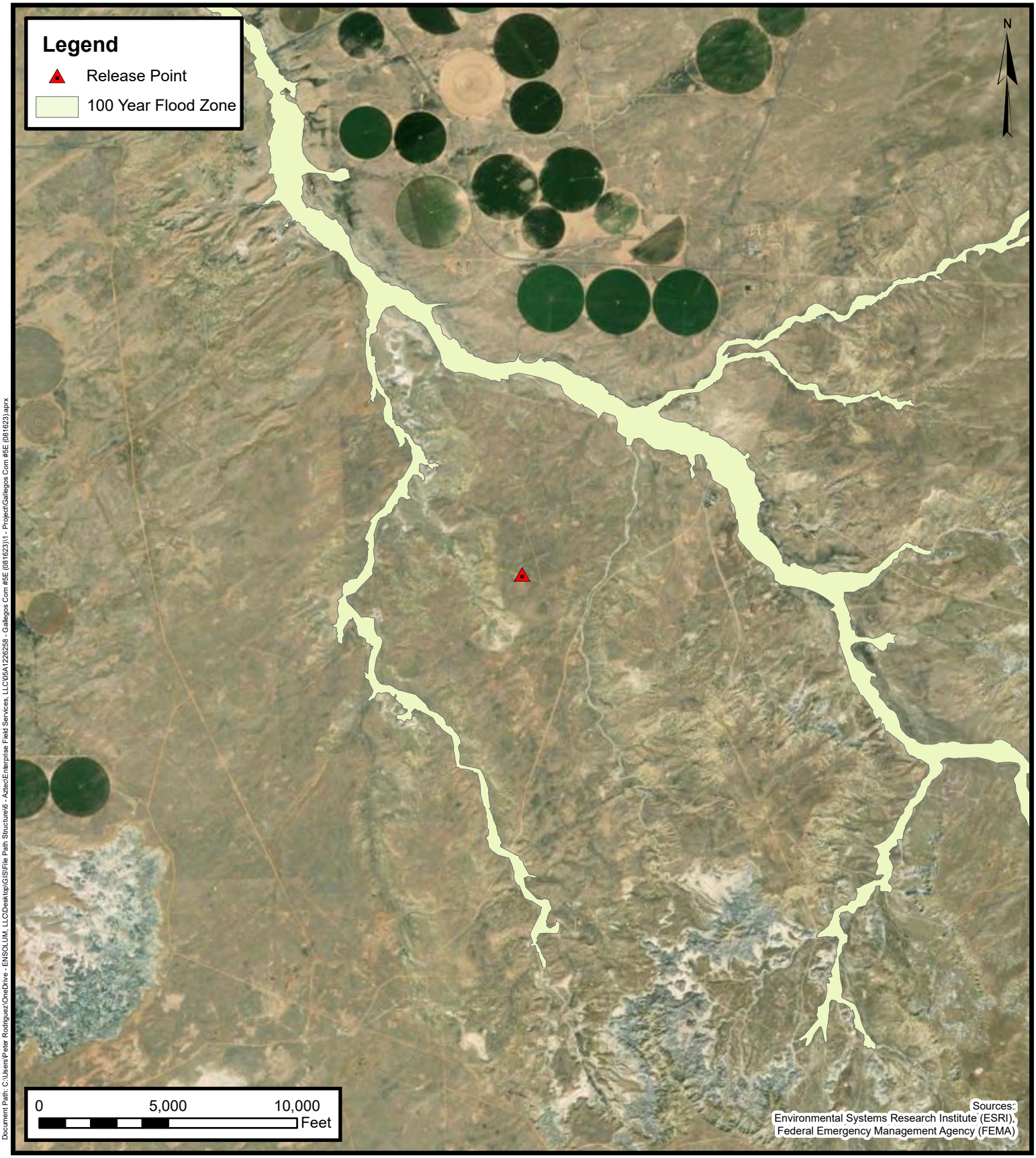
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Mines, Mills, and Quarries

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE
G



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Project Number: 05A1226258
Unit Letter K, S32 T26N R11W, San Juan County, New Mexico
36.44187, -108.0302

FIGURE
H

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

No records found.

PLSS Search:

Section(s): 32, 28, 29, 30, 31, 33 **Township:** 26N **Range:** 11W

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00221	SJ	SJ			2	04	25N	11W	230613	4036253*	198	135	63

Average Depth to Water: **135 feet**

Minimum Depth: **135 feet**

Maximum Depth: **135 feet**

Record Count: 1

PLSS Search:

Section(s): 4, 5, 6 **Township:** 25N **Range:** 11W

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

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office) 3312

PI 30-045-29086

Operator EPFS **Location: Unit** ____ **Sec.** 3 **Twp** 25 **Rng** 11

Name of Well/Wells or Pipeline Serviced Nocki #1E #97920

Elevation ____ **Completion Date** 3-18-97 **Total Depth** 380 **Land Type** * I

Casing, Sizes, Types & Depths 8" - PVC - 20'

If Casing is cemented, show amounts & types used 5 Bags - Zim Type I & 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. Wet @ 20'

RECEIVED
MAR - 2 1998
OIL CON. DIV.
DIST. 3

Depths gas encountered: —

Type & amount of coke breeze used: Heresco Sw. 4100 lbs

Depths anodes placed: 180 - 350

Depths vent pipes placed: 360 -

Vent pipe perforations: 180

Remarks: Off Derrick

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 GROUNDBED DATA DATE March 18, 1997

COMPANY EPFS/Amoco COUNTY San Juan STATE NM

CONTRACT NO. FC-96-1000 UNIT NO. 97920

LOCATION Nocki #1E

GROUNDBED: DEPTH 380 FT., DIA. 7 7/8 IN., ANODES (15) 2 x 60 SHA-2

CASING: SIZE 8 IN., DEPTH 20 FT.

DEPTH FT.	DRILLER'S LOG	RESISTIVITY OHMS	RESISTIVITY AMPS	ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
5	Casing						
10	"						
15	"						
20	Sand, Gravel & Sandstone						
25	"						
30	"						
35	"						
40	"		3.1				
45	"		3.1				
50	"		3.3				
55	"		3.3				
60	"		2.8				
65	"		1.9				
70	"		1.2				
75	"		1.2				
80	"		1.2				
85	"		1.1				
90	"		1.0				
95	"		0.7				
100	Shale		1.0				
105	"		2.3				
110	"		2.9				
115	"		3.2				
120	"		3.0				
125	"		2.3				
130	"		2.1				
135	"		1.1				
140	Shale		0.8				
145	"		0.7				
150	"		0.6				
155	"		1.7				
160	Sandstone		2.5				
165	"		2.9				
170	"		3.1				
175	"		2.9				
180	"		3.2	15	180	3.2	7.2
185	"		3.0				
190	"		3.3	14	190	3.3	8.3
	"		3.1				
	Shale		3.4	13	200	3.3	8.1
	"		3.3				
	"		3.3	12	210	3.2	8.4
	"		2.4				
	"		1.8	11	220	3.1	7.8
	"		1.7				
	"		1.8				
	"		2.2				
	Shale		3.2				

COMPANY _____ DATE March 18, 1997

LOCATION Nocki #1E UNIT NO. 97920

DEPTH Ft	DRILLER'S LOG	RESISTIVITY OHMS	AMPS	ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
245	Shale		3.4				
250	"		3.3	10	250	3.2	8.8
255	"		3.1				
260	"		3.1	9	260	3.1	7.7
265	"		2.8				
270	"		3.0				
275	"		3.1				
280	"		3.0	8	278	3.1	7.5
285	"		2.9	7	285	2.9	7.8
290	"		2.9				
295	"		3.0	6	295	2.9	7.9
300	"		3.0				
305	"		3.1	5	305	3.0	8.2
310	"		3.0				
315	"		3.0	4	315	3.0	7.6
320	"		2.9				
325	"		3.0	3	325	3.0	6.8
330	"		2.2				
335	"		3.0				
340	"		3.3	2	340	3.3	6.2
345	"		3.2				
350	"		3.0	1	350	3.2	6.2
355	"		2.0				
360	"		1.4				
365	"		1.0				
370	Sandstone						
375	"						
380	Sandstone						
385							
390							
395							
400							
405							
410							
415							
420							
425							
430							
435							
440							
445							
450							
455							
460							
465							
470							
475							
480							
485							
490							
495							
500							
505							
510							

TDM1350

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

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: N66904

2. Originating Site:
Gallegos Come #5E

3. Location of Material (Street Address, City, State or ULSTR):
UL K Section 32 T26N R11W; 36.441870, -108.030200

Aug 2023

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) 84 (yd³) bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long) 7-27-2023, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, 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: Enterprise subcontractors.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011**
Address of Facility: **Hilltop, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☑ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 8/18/23
SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Gallegos Com #5E (08/16/23)
Ensolum Project No. 05A1226258

ENSOLUM

Photograph 1 Photograph Description: View of the in-process excavation activities.	
Photograph 2 Photograph Description: View of the final excavation.	
Photograph 3 Photograph Description: View of the site after initial restoration.	

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APPENDIX E

Regulatory Correspondence

From: Kyle Summers
To: Ranee Deechilly
Subject: FW: Gallegos Com #5E - UL K Section 32 T26N R11W; 36.441870, -108.030200
Date: Wednesday, August 16, 2023 1:51:50 PM
Attachments: image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: nnepawq@frontiernet.net <nnepawq@frontiernet.net>
Sent: Wednesday, August 16, 2023 1:51 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: Gallegos Com #5E - UL K Section 32 T26N R11W; 36.441870, -108.030200

[**EXTERNAL EMAIL**]

Thanks Tom,

Per our conversation, your variance request is approved.

--Steve

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

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, August 16, 2023 1:26 PM
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: Gallegos Com #5E - UL K Section 32 T26N R11W; 36.441870, -108.030200

Steve,

This email is a follow up to our phone conversation a few minutes ago. Enterprise had a release on the Gallegos Come #5E on July 12, 2023. No liquids were observed on the ground surface. No fire nor injuries occurred. No washes were affected. Enterprise began repairs and remediation today and determined the release reportable per NOMCOD regulation due to the volume on impacted subsurface soil. This email is also a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect soil samples for laboratory analysis today at the Gallegos Com #5E excavation. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

Enterprise Products

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APPENDIX F

Table 1 – Soil Analytical Summary

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TABLE 1
Gallegos Com #5E (08/16/23)
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**
Excavation Composite Soil Samples													
S-1	8.16.23	C	7	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.5	<48	ND	78
S-2	8.16.23	C	0 to 7	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<9.7	<48	ND	<60
S-3	8.16.23	C	0 to 7	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<10	<50	ND	<60
S-4	8.16.23	C	0 to 7	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<9.5	<48	ND	<59
S-5	8.16.23	C	0 to 7	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.6	<48	ND	<60
S-6	8.16.23	C	0 to 7	<0.022	<0.043	<0.043	<0.086	ND	<4.3	<9.8	<49	ND	69
S-7	8.16.23	C	0 to 7	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.3	<46	ND	62

[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

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 23, 2023

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

RE: Gallegos Com 5E July 2023 OrderNo.: 2308955

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/17/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2308955**
Date Reported: **8/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: Gallegos Com 5E July 2023 **Collection Date:** 8/16/2023 1:30:00 PM
Lab ID: 2308955-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/17/2023 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	78	60		mg/Kg	20	8/17/2023 12:08:43 PM	76924
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/17/2023 11:43:48 AM	76917
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2023 11:43:48 AM	76917
Surr: DNOP	105	69-147		%Rec	1	8/17/2023 11:43:48 AM	76917
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/17/2023 10:48:00 AM	G99038
Surr: BFB	99.0	15-244		%Rec	1	8/17/2023 10:48:00 AM	G99038
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.019		mg/Kg	1	8/17/2023 10:48:00 AM	R99038
Toluene	ND	0.038		mg/Kg	1	8/17/2023 10:48:00 AM	R99038
Ethylbenzene	ND	0.038		mg/Kg	1	8/17/2023 10:48:00 AM	R99038
Xylenes, Total	ND	0.075		mg/Kg	1	8/17/2023 10:48:00 AM	R99038
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	8/17/2023 10:48:00 AM	R99038

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

Qualifiers:

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

Analytical Report
Lab Order **2308955**
Date Reported: **8/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Gallegos Com 5E July 2023 **Collection Date:** 8/16/2023 1:35:00 PM
Lab ID: 2308955-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/17/2023 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	ND	60		mg/Kg	20	8/17/2023 12:21:08 PM	76924
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/17/2023 12:02:12 PM	76917
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2023 12:02:12 PM	76917
Surr: DNOP	99.6	69-147		%Rec	1	8/17/2023 12:02:12 PM	76917
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	8/17/2023 11:10:00 AM	G99038
Surr: BFB	99.5	15-244		%Rec	1	8/17/2023 11:10:00 AM	G99038
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.022		mg/Kg	1	8/17/2023 11:10:00 AM	R99038
Toluene	ND	0.044		mg/Kg	1	8/17/2023 11:10:00 AM	R99038
Ethylbenzene	ND	0.044		mg/Kg	1	8/17/2023 11:10:00 AM	R99038
Xylenes, Total	ND	0.087		mg/Kg	1	8/17/2023 11:10:00 AM	R99038
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	8/17/2023 11:10:00 AM	R99038

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

Qualifiers:

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

Analytical Report
Lab Order **2308955**
Date Reported: **8/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: Gallegos Com 5E July 2023 **Collection Date:** 8/16/2023 1:40:00 PM
Lab ID: 2308955-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/17/2023 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	ND	60		mg/Kg	20	8/17/2023 12:33:33 PM	76924
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/17/2023 12:20:40 PM	76917
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/17/2023 12:20:40 PM	76917
Surr: DNOP	106	69-147		%Rec	1	8/17/2023 12:20:40 PM	76917
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/17/2023 11:31:00 AM	G99038
Surr: BFB	103	15-244		%Rec	1	8/17/2023 11:31:00 AM	G99038
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.019		mg/Kg	1	8/17/2023 11:31:00 AM	R99038
Toluene	ND	0.037		mg/Kg	1	8/17/2023 11:31:00 AM	R99038
Ethylbenzene	ND	0.037		mg/Kg	1	8/17/2023 11:31:00 AM	R99038
Xylenes, Total	ND	0.075		mg/Kg	1	8/17/2023 11:31:00 AM	R99038
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	8/17/2023 11:31:00 AM	R99038

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

Qualifiers:

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

Analytical Report
Lab Order **2308955**
Date Reported: **8/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: Gallegos Com 5E July 2023 **Collection Date:** 8/16/2023 1:45:00 PM
Lab ID: 2308955-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/17/2023 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	ND	59		mg/Kg	20	8/17/2023 12:45:57 PM	76924
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/17/2023 12:39:19 PM	76917
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2023 12:39:19 PM	76917
Surr: DNOP	100	69-147		%Rec	1	8/17/2023 12:39:19 PM	76917
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	8/17/2023 11:53:00 AM	G99038
Surr: BFB	106	15-244		%Rec	1	8/17/2023 11:53:00 AM	G99038
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.020		mg/Kg	1	8/17/2023 11:53:00 AM	R99038
Toluene	ND	0.041		mg/Kg	1	8/17/2023 11:53:00 AM	R99038
Ethylbenzene	ND	0.041		mg/Kg	1	8/17/2023 11:53:00 AM	R99038
Xylenes, Total	ND	0.081		mg/Kg	1	8/17/2023 11:53:00 AM	R99038
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	8/17/2023 11:53:00 AM	R99038

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

Qualifiers:

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

Analytical Report
Lab Order **2308955**
Date Reported: **8/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: Gallegos Com 5E July 2023 **Collection Date:** 8/16/2023 1:50:00 PM
Lab ID: 2308955-005 **Matrix:** MEOH (SOIL) **Received Date:** 8/17/2023 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	ND	60		mg/Kg	20	8/17/2023 12:58:21 PM	76924
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/17/2023 12:57:51 PM	76917
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2023 12:57:51 PM	76917
Surr: DNOP	94.9	69-147		%Rec	1	8/17/2023 12:57:51 PM	76917
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/17/2023 12:15:00 PM	G99038
Surr: BFB	102	15-244		%Rec	1	8/17/2023 12:15:00 PM	G99038
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.023		mg/Kg	1	8/17/2023 12:15:00 PM	R99038
Toluene	ND	0.047		mg/Kg	1	8/17/2023 12:15:00 PM	R99038
Ethylbenzene	ND	0.047		mg/Kg	1	8/17/2023 12:15:00 PM	R99038
Xylenes, Total	ND	0.094		mg/Kg	1	8/17/2023 12:15:00 PM	R99038
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	8/17/2023 12:15:00 PM	R99038

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

Qualifiers:

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

Analytical Report
Lab Order **2308955**
Date Reported: **8/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: Gallegos Com 5E July 2023 **Collection Date:** 8/16/2023 1:55:00 PM
Lab ID: 2308955-006 **Matrix:** MEOH (SOIL) **Received Date:** 8/17/2023 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	69	60		mg/Kg	20	8/17/2023 1:10:46 PM	76924
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/17/2023 1:16:22 PM	76917
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2023 1:16:22 PM	76917
Surr: DNOP	93.8	69-147		%Rec	1	8/17/2023 1:16:22 PM	76917
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	8/17/2023 12:37:00 PM	G99038
Surr: BFB	109	15-244		%Rec	1	8/17/2023 12:37:00 PM	G99038
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.022		mg/Kg	1	8/17/2023 12:37:00 PM	R99038
Toluene	ND	0.043		mg/Kg	1	8/17/2023 12:37:00 PM	R99038
Ethylbenzene	ND	0.043		mg/Kg	1	8/17/2023 12:37:00 PM	R99038
Xylenes, Total	ND	0.086		mg/Kg	1	8/17/2023 12:37:00 PM	R99038
Surr: 4-Bromofluorobenzene	95.8	39.1-146		%Rec	1	8/17/2023 12:37:00 PM	R99038

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

Qualifiers:

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

Analytical Report
Lab Order **2308955**
Date Reported: **8/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-7
Project: Gallegos Com 5E July 2023 **Collection Date:** 8/16/2023 2:00:00 PM
Lab ID: 2308955-007 **Matrix:** MEOH (SOIL) **Received Date:** 8/17/2023 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	62	60		mg/Kg	20	8/17/2023 1:23:10 PM	76924
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/17/2023 1:34:47 PM	76917
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/17/2023 1:34:47 PM	76917
Surr: DNOP	95.9	69-147		%Rec	1	8/17/2023 1:34:47 PM	76917
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/17/2023 12:58:00 PM	G99038
Surr: BFB	104	15-244		%Rec	1	8/17/2023 12:58:00 PM	G99038
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.017		mg/Kg	1	8/17/2023 12:58:00 PM	R99038
Toluene	ND	0.035		mg/Kg	1	8/17/2023 12:58:00 PM	R99038
Ethylbenzene	ND	0.035		mg/Kg	1	8/17/2023 12:58:00 PM	R99038
Xylenes, Total	ND	0.069		mg/Kg	1	8/17/2023 12:58:00 PM	R99038
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	8/17/2023 12:58:00 PM	R99038

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308955**

23-Aug-23

Client: ENSOLUM

Project: Gallegos Com 5E July 2023

Sample ID: **MB-76924**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **76924**	RunNo: **99051**
Prep Date: **8/17/2023**	Analysis Date: **8/17/2023**	SeqNo: **3610531** Units: **mg/Kg**

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

Sample ID: **LCS-76924**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **76924**	RunNo: **99051**
Prep Date: **8/17/2023**	Analysis Date: **8/17/2023**	SeqNo: **3610532** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308955**

23-Aug-23

Client: ENSOLUM

Project: Gallegos Com 5E July 2023

Sample ID: **MB-76917**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **76917**	RunNo: **99052**
Prep Date: **8/17/2023**	Analysis Date: **8/17/2023**	SeqNo: **3610205** 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	9.9		10.00		99.2	69	147			

Sample ID: **LCS-76917**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **76917**	RunNo: **99052**
Prep Date: **8/17/2023**	Analysis Date: **8/17/2023**	SeqNo: **3610206** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	61.9	130			
Surr: DNOP	4.6		5.000		91.0	69	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308955**

23-Aug-23

Client: ENSOLUM

Project: Gallegos Com 5E July 2023

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G99038**	RunNo: **99038**
Prep Date:	Analysis Date: **8/17/2023**	SeqNo: **3609704** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.6	70	130			
Surr: BFB	2200		1000		216	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G99038**	RunNo: **99038**
Prep Date:	Analysis Date: **8/17/2023**	SeqNo: **3609705** 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		106	15	244			

Sample ID: **2308955-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **G99038**	RunNo: **99038**
Prep Date:	Analysis Date: **8/17/2023**	SeqNo: **3610930** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.8	18.80	0	90.7	70	130			
Surr: BFB	1600		751.9		217	15	244			

Sample ID: **2308955-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **G99038**	RunNo: **99038**
Prep Date:	Analysis Date: **8/17/2023**	SeqNo: **3610931** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.8	18.80	0	86.3	70	130	5.02	20	
Surr: BFB	1600		751.9		215	15	244	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308955**

23-Aug-23

Client: ENSOLUM

Project: Gallegos Com 5E July 2023

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **R99038** RunNo: **99038**

Prep Date: Analysis Date: **8/17/2023** SeqNo: **3609710** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	70	130			
Toluene	0.90	0.050	1.000	0	89.8	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.9	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.1	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	39.1	146			

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

Client ID: **PBS** Batch ID: **R99038** RunNo: **99038**

Prep Date: Analysis Date: **8/17/2023** SeqNo: **3609711** 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	0.98		1.000		98.3	39.1	146			

Sample ID: **2308955-002ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-2** Batch ID: **R99038** RunNo: **99038**

Prep Date: Analysis Date: **8/17/2023** SeqNo: **3610943** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.022	0.8726	0	88.2	70	130			
Toluene	0.78	0.044	0.8726	0	89.4	70	130			
Ethylbenzene	0.80	0.044	0.8726	0	91.3	70	130			
Xylenes, Total	2.4	0.087	2.618	0	91.9	70	130			
Surr: 4-Bromofluorobenzene	0.85		0.8726		98.0	39.1	146			

Sample ID: **2308955-002amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-2** Batch ID: **R99038** RunNo: **99038**

Prep Date: Analysis Date: **8/17/2023** SeqNo: **3610944** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.022	0.8726	0	86.1	70	130	2.41	20	
Toluene	0.76	0.044	0.8726	0	86.9	70	130	2.81	20	
Ethylbenzene	0.77	0.044	0.8726	0	88.8	70	130	2.81	20	
Xylenes, Total	2.3	0.087	2.618	0	89.6	70	130	2.57	20	
Surr: 4-Bromofluorobenzene	0.84		0.8726		96.4	39.1	146	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2308955 RcptNo: 1

Received By: Tracy Casarrubias 8/17/2023 6:50:00 AM

Completed By: Tracy Casarrubias 8/17/2023 7:09:09 AM

Reviewed By: SCM 8/17/23

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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: TMC 8/17/23

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions: Phone number is missing on COC - TMC 8/17/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: KSummers@ensolum.com

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

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

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

Project Name: Gallegos Com #5E (July 2023)

Project #: See notes

Project Manager: KSummers

Sampler: RDeechilly
On Ice: ☒ Yes ☐ No yogi
# of Coolers: 1
Cooler Temp(including CF): 4.5 - 0 = 4.5 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2308955	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
8/16/23	1330	S	S-1	(1) 4oz Jar	Cool	001	X	X									X
8/16/23	1335	S	S-2	(1) 4oz Jar	Cool	002	X	X									X
8/16/23	1340	S	S-3	(1) 4oz Jar	Cool	003	X	X									X
8/16/23	1345	S	S-4	(1) 4oz Jar	Cool	004	X	X									X
8/16/23	1350	S	S-5	(1) 4oz Jar	Cool	005	X	X									X
8/16/23	1355	S	S-6	(1) 4oz Jar	Cool	006	X	X									X
8/16/23	1400	S	S-7	(1) 4oz Jar	Cool	007	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/16/23	1539				8/16/23	1539
Date:	Time:	Relinquished by:	Received by:	Via: Courier	Date	Time
8/16/23	1752				8/17/23	6:50

Remarks: SAME DAY
PM - Tom Long (EPROD)
Paykey - RB21200
Non AFE - N66904

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

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

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

CONDITIONS

Action 290245

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 290245
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/1/2023