ENSOLUM

CLOSURE REPORT

Property:

Canyon Largo #243 (08/29/23)
Unit Letter H, S14 T25N R7W
Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2324237500

November 8, 2023

Ensolum Project No. 05A1226278

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

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LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Canyon Largo #243 (08/29/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2324237500
Location:	36.40216° North, 107.53911° West Unit Letter H, Section 14, Township 25 North, Range 7 West Rio Arriba County, New Mexico
Property:	United States Bureau of Land Management
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 18, 2023, a release of natural gas and associated pipeline liquids from the Canyon Largo #243 pipeline was identified by a third party. Enterprise verified a release and subsequently isolated and locked the pipeline out of service. On August 24, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. On August 29, 2023, Enterprise determined the release was "reportable" due to the potential 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 NM EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section. One POD (SJ-01613) was identified in an adjacent PLSS section (**Figure A**, **Appendix B**). The recorded depth to water for this POD is 730 feet below grade surface (bgs). This POD is located approximately 1.1 miles northeast of the Site and approximately 527 feet higher in elevation than the Site.

- Six cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in an adjacent PLSS section. The CPWs are depicted on **Figure B** (**Appendix B**). The closet CPW is located 290 feet northwest of the Site. Documentation for the cathodic protection well located near the Canyon Largo #431 production pad indicates a depth to water at 105 feet bgs. This cathodic protection well is approximately 23 feet lower in elevation than the Site. The other five CPWs are located over 0.5 miles from the Site. The average depth to water for the CPWs is 144 feet bgs.

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**). A stock pond is located within 300 feet of the Site, and the NM EMNRD OCD has previously indicated that a stock pond was equivalent to a significant watercourse.

- 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 less than 50 feet bgs, resulting in a Tier I ranking. 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 24, 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.

The final excavation measured approximately 17 feet long and 13 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 8.5 feet bgs. The scraped overspray area measured approximately 50 feet long and 20 wide at the maximum extents with an average depth of 6 inches. The lithology encountered during the completion of remediation activities consisted primarily of silty sand.

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**. Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, the excavation has not yet been backfilled at the time this document was created. Once the permanent pipeline repairs are completed, the pipeline excavation will be backfilled with imported fill and then contoured to the surrounding grade.

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 11 composite soil samples (S-1 through S-6 and OS-1 through OS-5) from the pipeline excavation and overspray area for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. The excavator bucket or hand tools were utilized to obtain fresh aliquots from each area of excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event
On August 30, 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 samples S-1 (8.5') and S-2 (8.5') were collected from the floor of the primary excavation. Composite soil samples S-3 (0' to 8.5'), S-4 (0' to 8.5'), S-5 (0' to 8.5'), and S-6 (0' to 8.5') were collected from the walls of the primary excavation. The overspray area was scraped approximately six inches in depth and composite soil samples OS-1 through OS-5 were then collected from the scraped area.

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-6 and OS-1 through S-5) 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 total 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 sample S-4 indicate a total BTEX concentration of 0.12 mg/kg, which is 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 OS-3 indicate a total combined TPH GRO/DRO/MRO concentration of 10 mg/kg, which is less than the NM EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other composite soil samples indicate total 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 is less than the NM EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION

Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, the excavation has not yet been backfilled at the time this document was finalized. Once permanent pipeline repairs are completed, Enterprise will backfill the excavation with imported fill and then contour to the surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- Eleven composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or total combined 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.

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.

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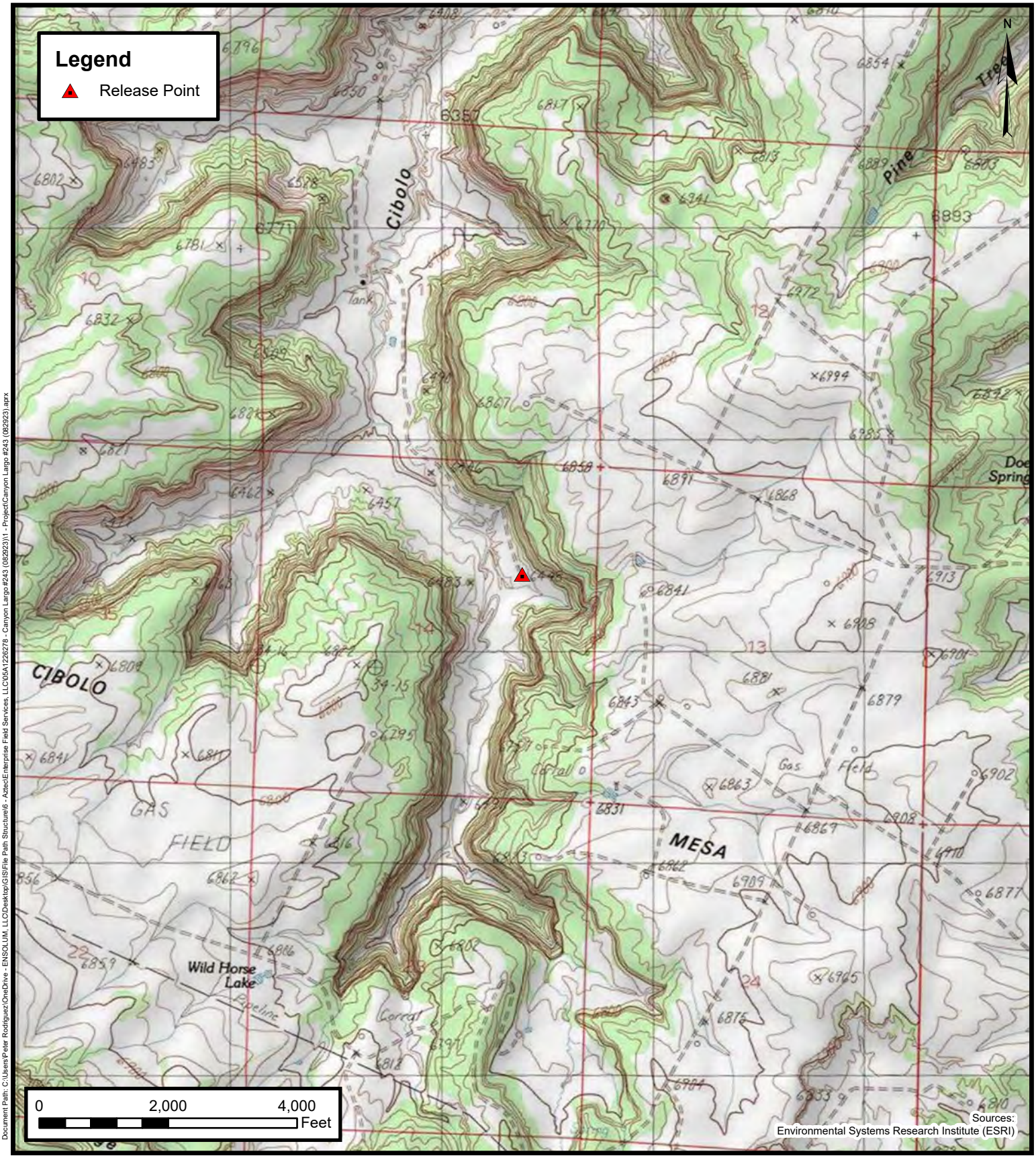
APPENDIX A

Figures



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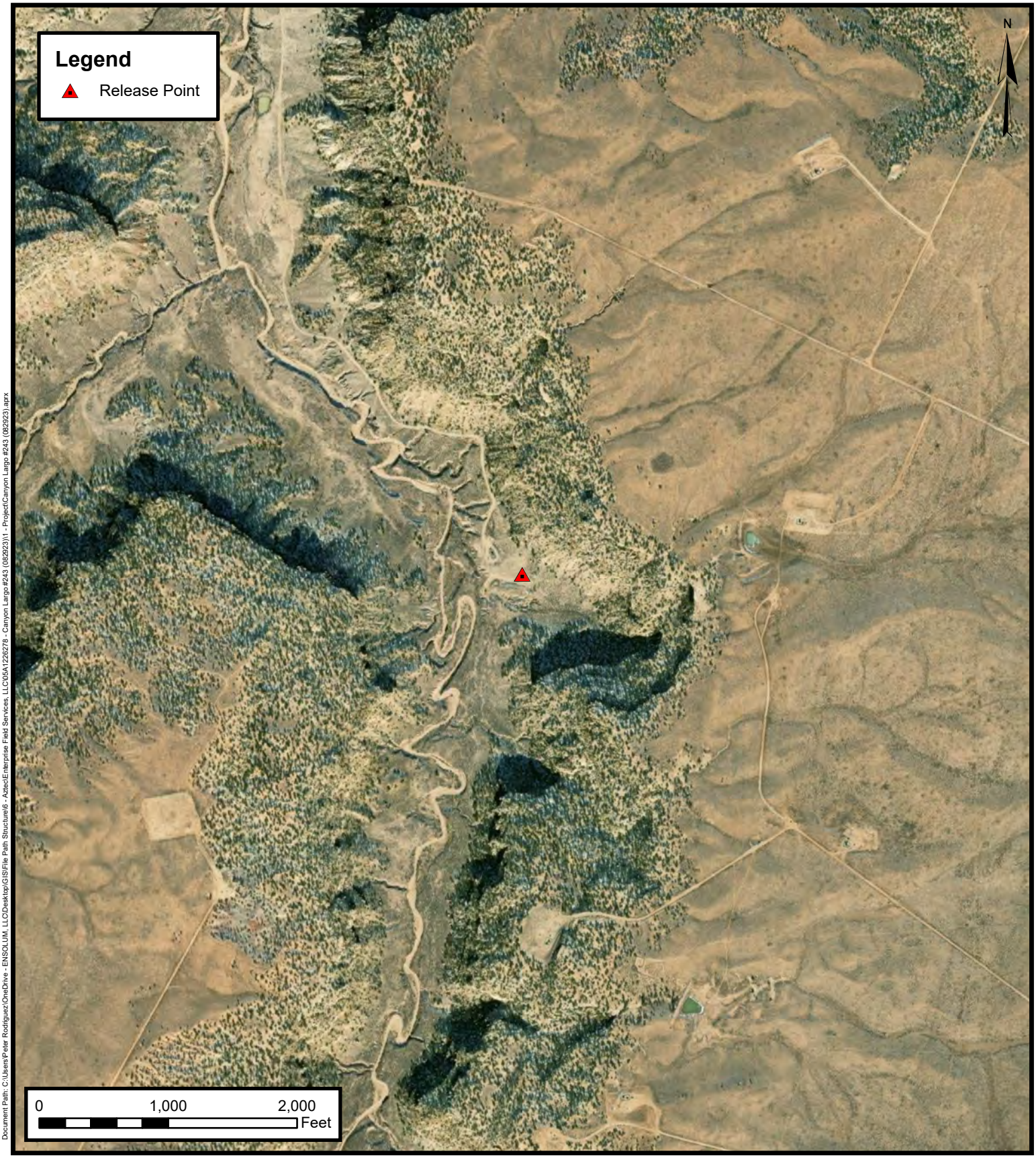
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE
1



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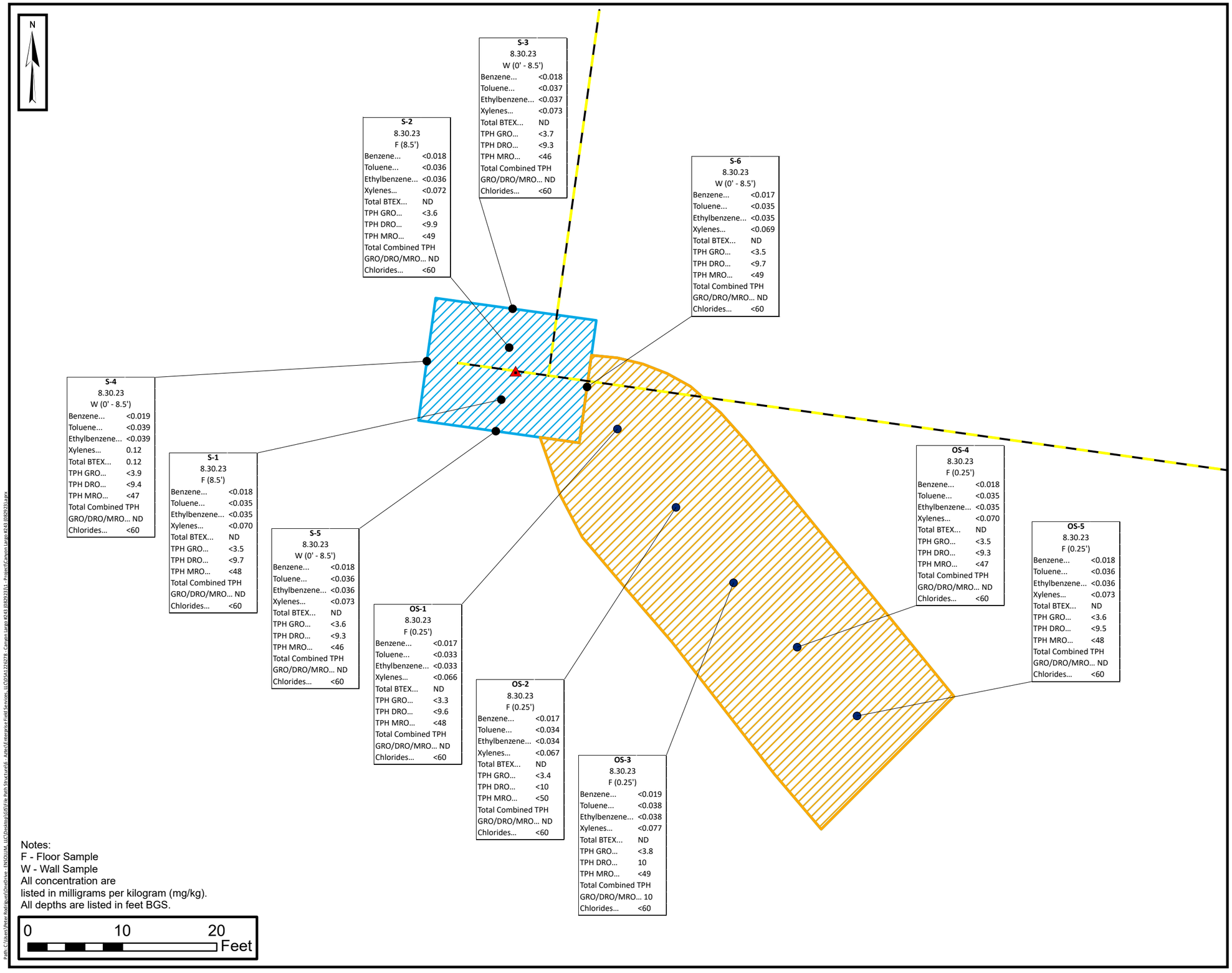
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE
2



LEGEND

- Release Point
- Composite Soil Sample Location
- Overspray Composite Soil Sample Location
- Pipeline Location
- Excavation Extent
- Overspray Extent

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Site Map with Soil Analytical Results

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Unit Letter H, S14 T25N R7W
Rio Arriba County, New Mexico
36.40216, -107.53911

Figure

3

Project Number: 05A1226278

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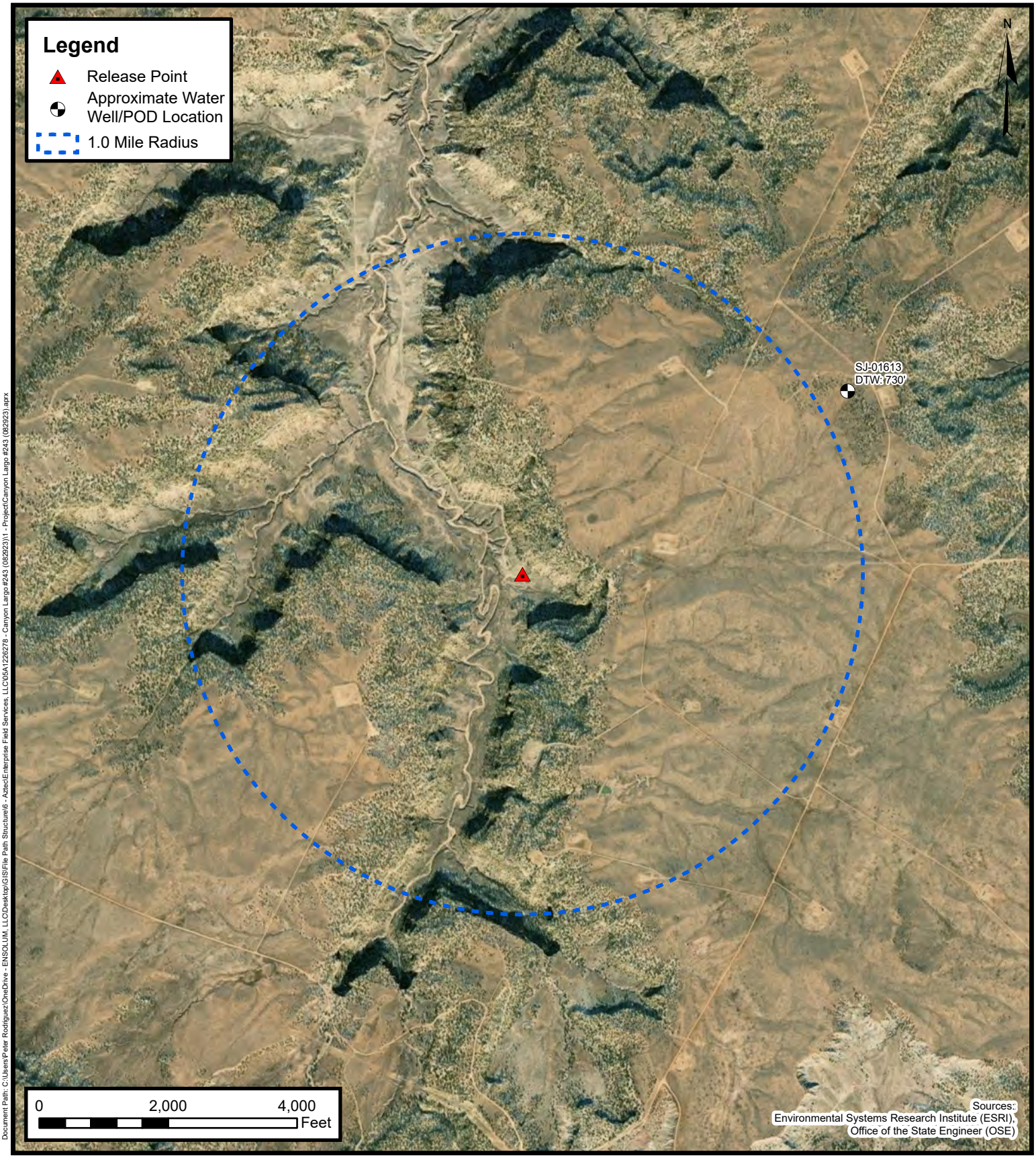
APPENDIX B

Siting Figures and Documentation



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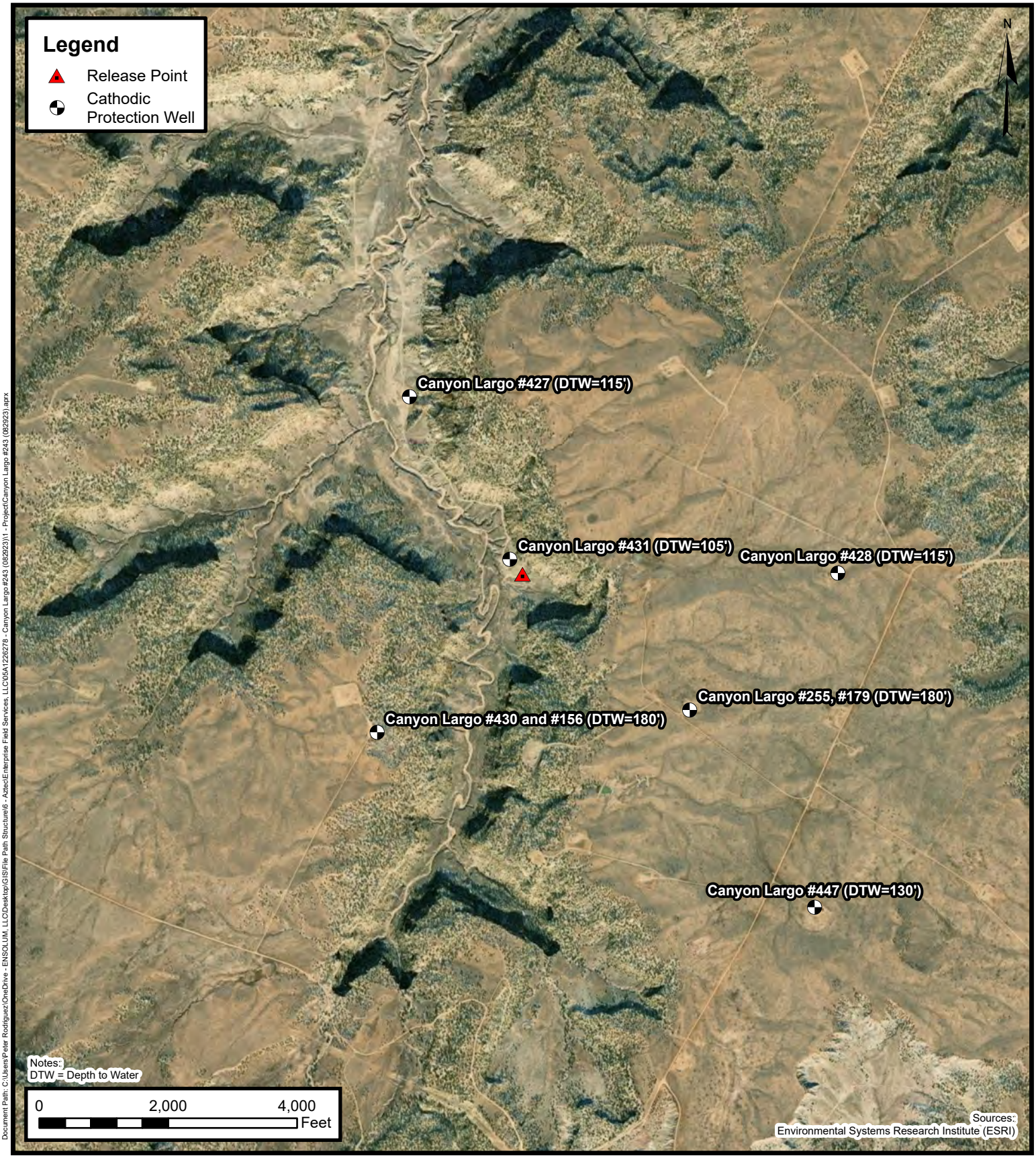
1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE

A



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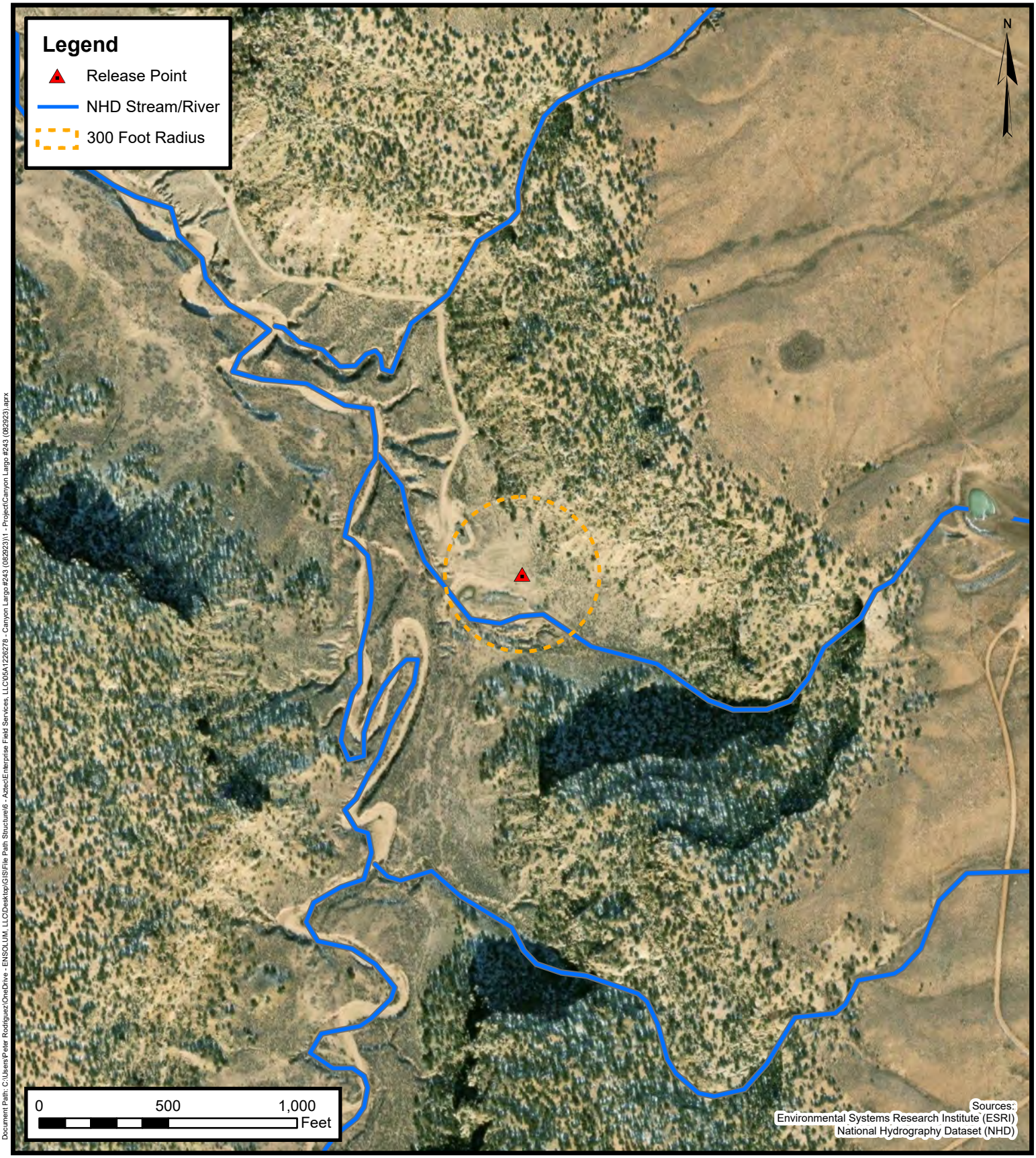
Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE
B



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300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE

C

Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226278 - Canyon Largo #243 (08292323)\1 - Project\Canyon Largo #243 (082923).aprx

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300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE

D

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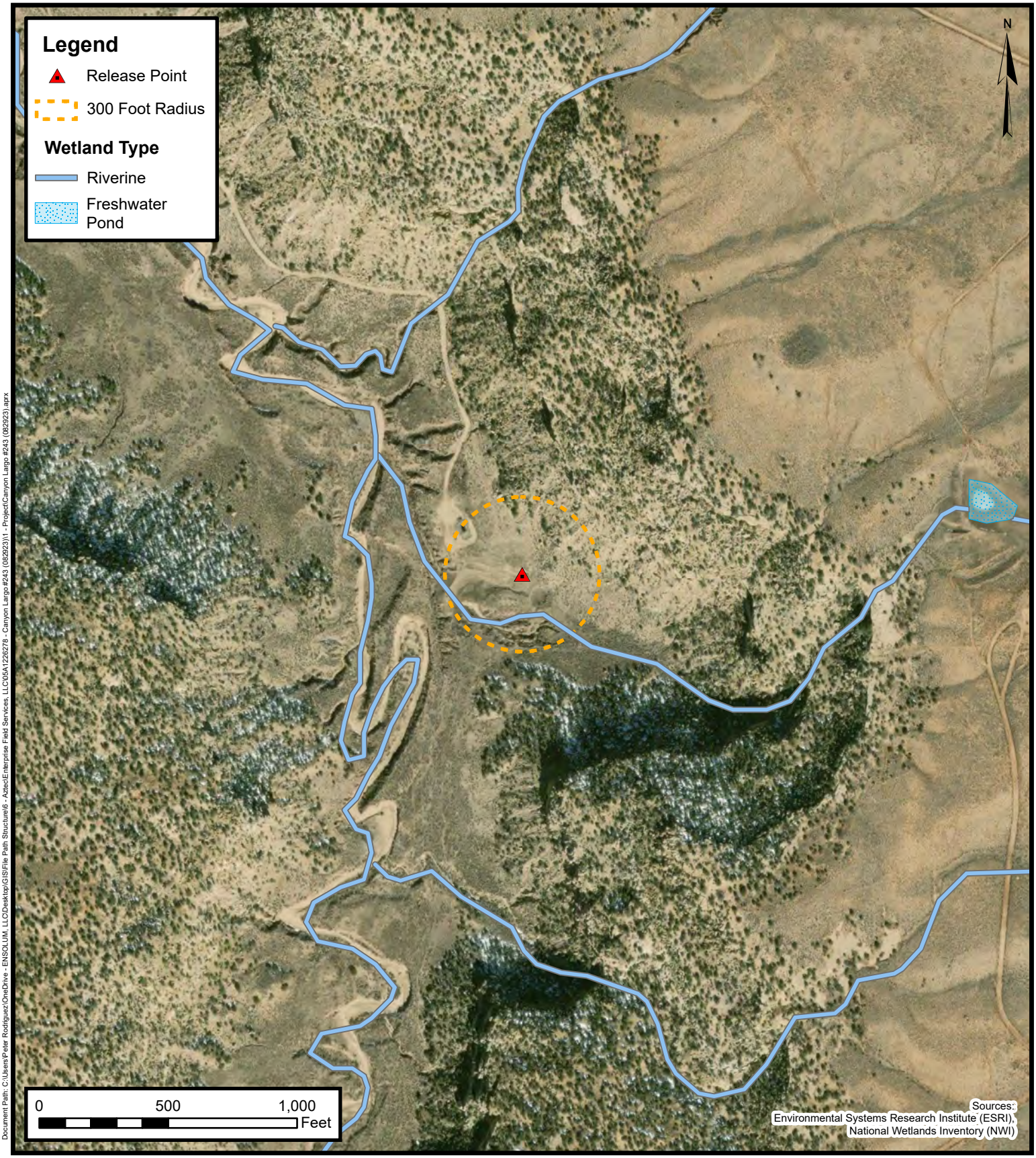
Water Well and Natural Spring Location
Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE
E



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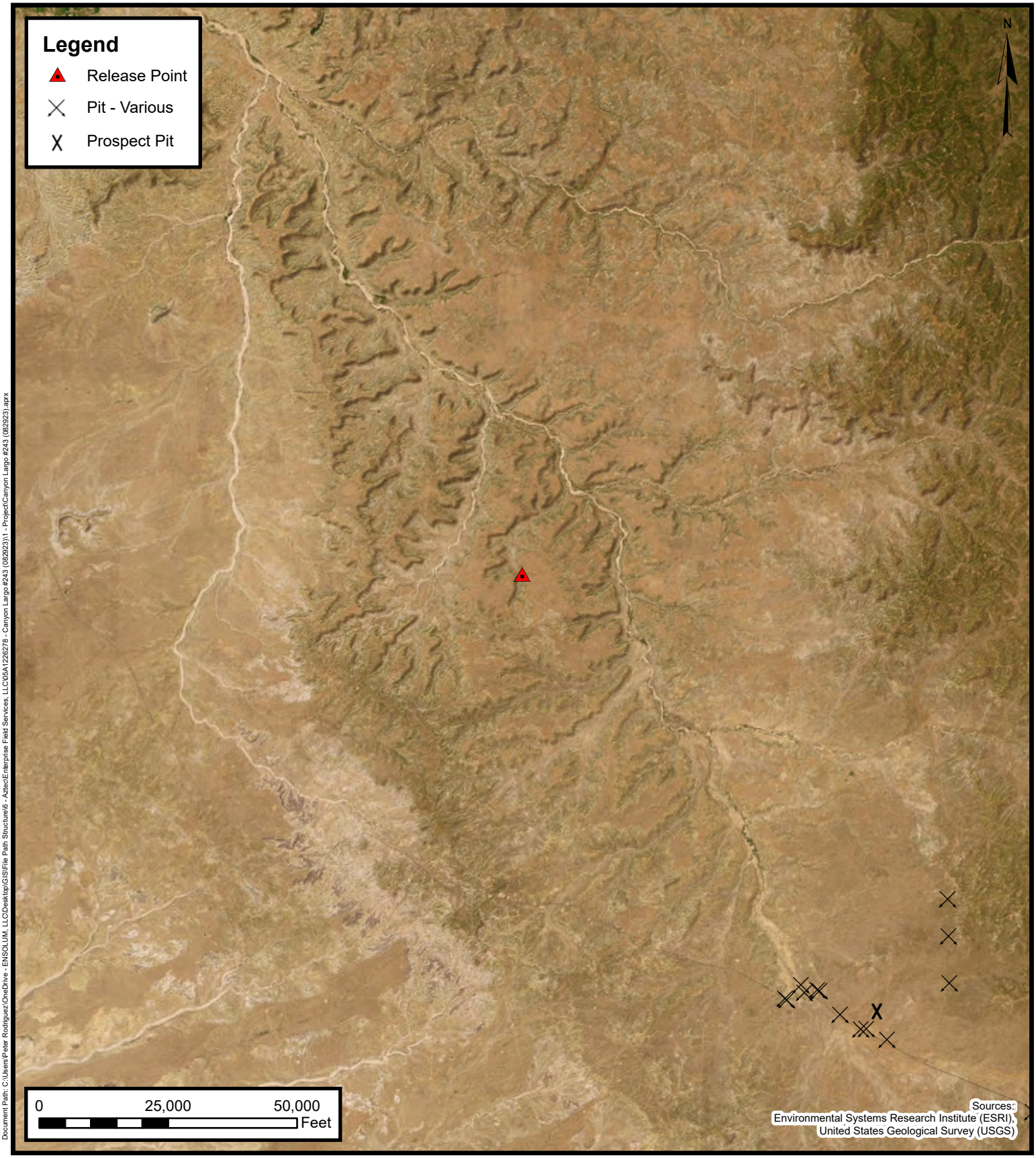
Wetlands

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE
F



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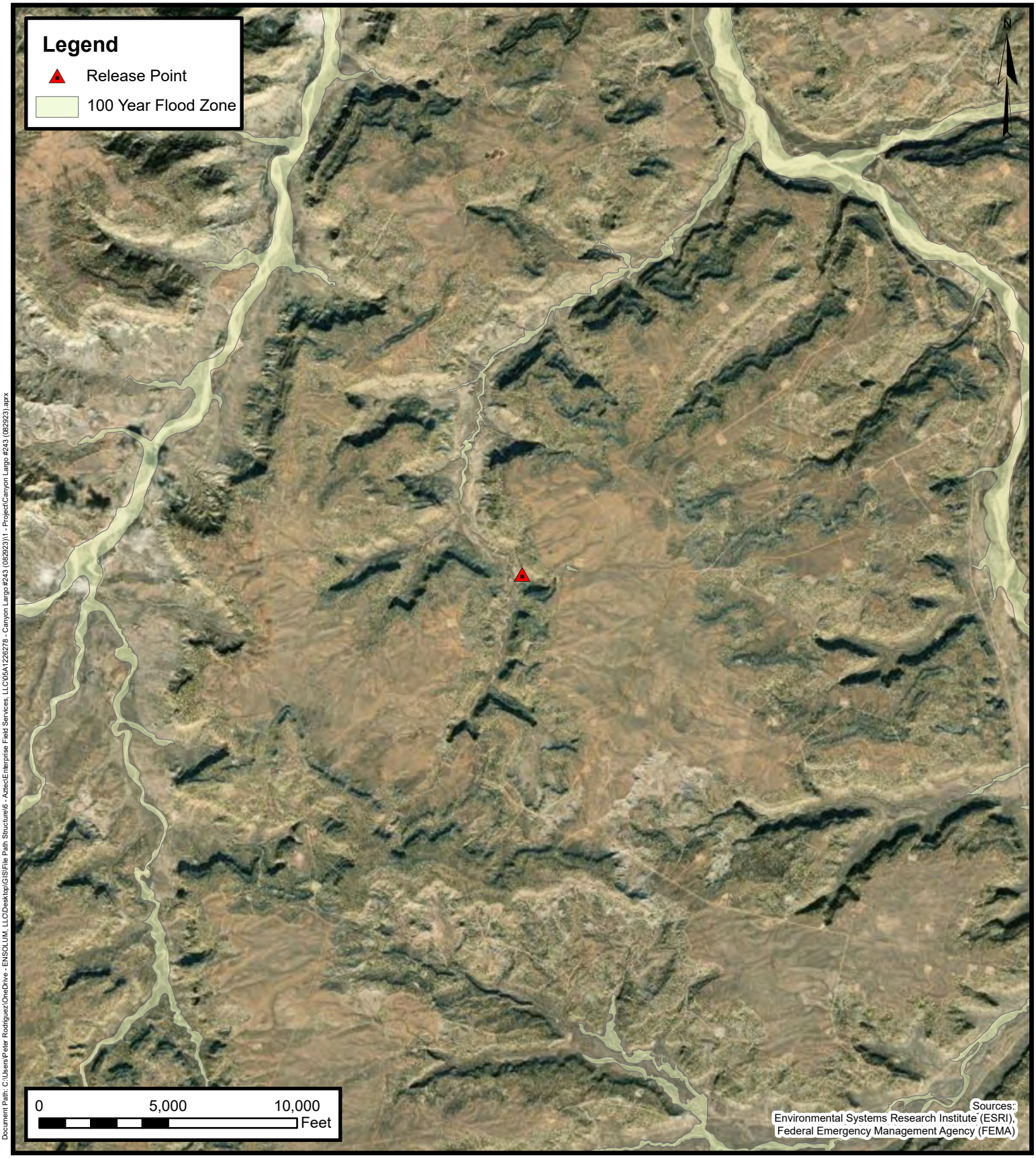
Mines, Mills, and Quarries

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE
G



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100-Year Flood Plain Map

Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Project Number: 05A1226278
Unit Letter H, S14 T25N R7W, Rio Arriba County, New Mexico
36.40216, -107.53911

FIGURE

H

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 01613	SJ	SJ			4	12	25N	07W	273879	4032426*	1083	730	353

Average Depth to Water: **730 feet**

Minimum Depth: **730 feet**

Maximum Depth: **730 feet**

Record Count: 1

PLSS Search:

Section(s): 14, 10, 11, 12, 13, 15, 22, 23, 24 **Township:** 25N **Range:** 07W

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

#430 30-039-25427
#156 30-039-20280

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

Operator Meridian Oil Inc. Location: Unit K Sec. 14 Twp 25 Rng 07

Name of Well/Wells or Pipeline Serviced
Canyon Largo #430 And #156

Elevation — Completion Date 11/13/95 Total Depth 427' Land Type F

Casing Strings, Sizes, Types & Depths 11/8 Set 97' of 8" PVC Casing.
No Gas, Water, or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented
With 23 Sacks.

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

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Hit Fresh Water at 180'

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 427' Depth.
Used 107 Sacks of Asbury 218R (5350#)

Depths anodes placed: 395', 385', 375', 365', 355', 345', 335', 325', 315', 305', 295', 285', 265', 255', +245'.

Depths vent pipes placed: Surface To 427'.

Vent pipe perforations: Bottom 320'.

Remarks:

RECEIVED
JAN 11 1996
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.

#431 30-039-25376

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

Operator Meridian Oil Inc. Location: Unit H Sec. 14 Twp 25 Rng 07

Name of Well/Wells or Pipeline Serviced

Canyon Largo #431

Elevation 6445' Completion Date 5/30/95 Total Depth 386' Land Type F

Casing Strings, Sizes, Types & Depths 3/29 Set 99' of 8" PVC Casing.
No Gas, Water, or Boulders Were Encountered During Casing.

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

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

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Hit Fresh Water at 105'.

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 386' Depth.
Used 94 Sacks of Asbury 218R (4700#)

Depths anodes placed: 365', 340', 330', 320', 310', 300', 290', 280', 225', 200', 185', 175', 165', 155', +145'.

Depths vent pipes placed: Surface To 386'.

Vent pipe perforations: Bottom 260'.

Remarks:

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JAN 11 1996
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.

#427 30-039-25164

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

Operator Meridian Oil Inc. Location: Unit N Sec. 11 Twp 25 Rng 07

Name of Well/Wells or Pipeline Serviced

Canyon Largo #427

Elevation — Completion Date 11/28/95 Total Depth 335' Land Type F

Casing Strings, Sizes, Types & Depths 11/27 Set 99' of 8" PVC Casing.

No Gas, Water, or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented

With 21 Sacks.

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

None

Depths & thickness of water zones with description of water: Fresh, Clear,

Salty, Sulphur, Etc. Hit Fresh Water at 115'

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 335' Depth.

Used 76 Sacks of Asbury 218R. (3800#)

Depths anodes placed: 315', 305', 295', 285', 275', 245', 225', 215', 200', 190', 180', 170', 160', 150', & 140'

Depths vent pipes placed: Surface To 335'.

Vent pipe perforations: Bottom 210'.

Remarks:

RECEIVED
JAN 11 1996
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.

#255 30-039-20516
#179 30-039-20542

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

Operator Meridian Oil Inc. Location: Unit K Sec. 13 Twp 25 Rng 7

Name of Well/Wells or Pipeline Serviced Canyon Largo #255, #179

Elevation 6847 Completion Date 2-22-95 Total Depth 448 Land Type F

Casing Strings, Sizes, Types & Depths Set 60' of 8" P.V.C. casing.

If Casing Strings are cemented, show amounts & types used Cemented with 10 sacks of Type II

If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180' and was clear

Depths gas encountered: No gas

Ground bed depth with type & amount of coke breeze used: 448' with 63 (100lb) sacks of Loresco SW

Depths anodes placed: #1 is at 430', #15 is at 380'

Depths vent pipes placed: Bottom to Surface

Vent pipe perforations: Up to 160'

Remarks:

RECEIVED
JAN 11 1996
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.

#428 30-039-25785

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

Operator Meridian Oil Inc. Location: Unit G Sec. 13 Twp 25 Rng 07

Name of Well/Wells or Pipeline Serviced
Canyon Largo #428

Elevation — Completion Date 11/2/95 Total Depth 466' Land Type F

Casing Strings, Sizes, Types & Depths 10/31 Set 97' of 8" PVC Casing.
No Gas, Water, or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented
With 24 Sacks.

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

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Hit Fresh Water at 115'.

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 466' Depth.
Used 121 Sacks of Asbury 218R. (6050#)

Depths anodes placed: 450', 443', 436', 429', 422', 415', 408', 401', 394', 387', 380', 345', 188', 181', 174'

Depths vent pipes placed: Surface To 466'

Vent pipe perforations: Bottom 340'

Remarks:

RECEIVED
JAN 11 1996
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.

#447 30-039-25460

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

Operator Meridian Oil Inc. Location: Unit G Sec. 24 Twp 25 Rng 07

Name of Well/Wells or Pipeline Serviced
Canyon Largo #447

Elevation — Completion Date 11/7/95 Total Depth 461 Land Type F

Casing Strings, Sizes, Types & Depths 11/3 Set 97' of 8" PVC Casing
No Gas, Water, or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented
With 20 Sacks.

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

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Hit Fresh Water at 130'.

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 461' Depth.
Used 119 Sacks of Asbury 218R (5950#)

Depths anodes placed: 445', 437', 429', 421', 413', 405', 397', 389', 315', 250', 182', 174', 166', 158', +150'

Depths vent pipes placed: Surface To 461.

Vent pipe perforations: Bottom 340.

Remarks:

RECEIVED
JAN 11 1996
OIL CON. DIV.
DIST. 3

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

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

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

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: Dwayne Dixon
AFE: N67287

2. Originating Site:
Canyon Largo #243

3. Location of Material (Street Address, City, State or ULSTR):
UL H Section 14 T25N R7W; 36.402160, 107.539100

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) 8-29-2023, 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: Enterprise Contractors

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: Envir. Manager DATE: 8/29/23
SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Ensolum Project No. 05A1226278

ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Canyon Largo #243 (08/29/23)
Ensolum Project No. 05A1226278

ENSOLUM

Photograph 4 Photograph Description: View of scraped overspray area.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Kyle Summers
To: Ranee Deechilly
Subject: Fwd: [EXTERNAL] Canyon Largo #243 - UL H Section 14 T25N R7W; 36.402160, 107.539100
Date: Tuesday, August 29, 2023 3:45:36 PM

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Adeloye, Abiodun A <aadeloye@blm.gov>
Sent: Tuesday, August 29, 2023 3:41:57 PM
To: Long, Thomas <tjlong@eprod.com>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Craun, James N <jcraun@blm.gov>
Cc: Kyle Summers <ksummers@ensolum.com>; Stone, Brian <bmstone@eprod.com>
Subject: RE: [EXTERNAL] Canyon Largo #243 - UL H Section 14 T25N R7W; 36.402160, 107.539100

[**EXTERNAL EMAIL**]

Thanks Thomas. Please include Nolan Craun the Realty Specialist Supervisor for all your future release notifications. Please submit the BLM UE form as soon as possible.
Thank you.

Abiodun Adeloye (Emmanuel)
Natural Resources Specialist (NRS)
6251 College Blvd., Suite A
Farmington, NM 87402
Office: 505-564-7665
Mobile: 505-635-0984

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, August 29, 2023 3:18 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Adeloye, Abiodun A <aadeloye@blm.gov>
Cc: Kyle Summers <ksummers@ensolum.com>; Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] Canyon Largo #243 - UL H Section 14 T25N R7W; 36.402160, 107.539100

Nelson/Emmanuel,

This email is a notification that Enterprise had a release of natural gas and natural gas liquids on the Canyon Largo #243 on August 18, 2023. The pipeline was isolated, depressurized, locked and tagged out. No washes/waterways affected. No fires nor injuries occurred. No liquids were observed on the ground surface. Repairs and remediation began August 25, 2023, and Enterprise determined the release reportable today per NMOCD regulation, due the volume of impacted subsurface soil. 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 tomorrow August 30, 2023, at 9:00 a.m. at the Canyon Largo #243 excavation. Enterprise will submit the required NOR, subsequent C-141 and BLM documentation. 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

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Canyon Largo #243 (08/29/23)
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	8.30.23	C	8.5	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<9.7	<48	ND	<60
S-2	8.30.23	C	8.5	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.9	<49	ND	<60
S-3	8.30.23	C	0 to 8.5	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.3	<46	ND	<60
S-4	8.30.23	C	0 to 8.5	<0.019	<0.039	<0.039	0.12	0.12	<3.9	<9.4	<47	ND	<60
S-5	8.30.23	C	0 to 8.5	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.3	<46	ND	<60
S-6	8.30.23	C	0 to 8.5	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.7	<49	ND	<60
Overspray Composite Soil Samples													
OS-1	8.30.23	C	0.25	<0.017	<0.033	<0.033	<0.066	ND	<3.3	<9.6	<48	ND	<60
OS-2	8.30.23	C	0.25	<0.017	<0.034	<0.034	<0.067	ND	<3.4	<10	<50	ND	<60
OS-3	8.30.23	C	0.25	<0.019	<0.038	<0.038	<0.077	ND	<3.8	10	<49	10	<60
OS-4	8.30.23	C	0.25	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<9.3	<47	ND	<60
OS-5	8.30.23	C	0.25	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.5	<48	ND	<60

[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

September 08, 2023

Kyle Summers

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

RE: Canyon Largo 243 OrderNo.: 2308G95

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/31/2023 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 **2308G95**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 10:10:00 AM
Lab ID: 2308G95-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 11:11:37 AM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/31/2023 9:50:51 AM	77224
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2023 9:50:51 AM	77224
Surr: DNOP	101	69-147		%Rec	1	8/31/2023 9:50:51 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/31/2023 1:18:00 PM	G99374
Surr: BFB	105	15-244		%Rec	1	8/31/2023 1:18:00 PM	G99374
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.018		mg/Kg	1	8/31/2023 1:18:00 PM	R99374
Toluene	ND	0.035		mg/Kg	1	8/31/2023 1:18:00 PM	R99374
Ethylbenzene	ND	0.035		mg/Kg	1	8/31/2023 1:18:00 PM	R99374
Xylenes, Total	ND	0.070		mg/Kg	1	8/31/2023 1:18:00 PM	R99374
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	8/31/2023 1:18:00 PM	R99374

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 **2308G95**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 10:15:00 AM
Lab ID: 2308G95-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 11:24:02 AM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/31/2023 10:01:24 AM	77224
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2023 10:01:24 AM	77224
Surr: DNOP	104	69-147		%Rec	1	8/31/2023 10:01:24 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/31/2023 1:40:00 PM	G99374
Surr: BFB	103	15-244		%Rec	1	8/31/2023 1:40:00 PM	G99374
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.018		mg/Kg	1	8/31/2023 1:40:00 PM	R99374
Toluene	ND	0.036		mg/Kg	1	8/31/2023 1:40:00 PM	R99374
Ethylbenzene	ND	0.036		mg/Kg	1	8/31/2023 1:40:00 PM	R99374
Xylenes, Total	ND	0.072		mg/Kg	1	8/31/2023 1:40:00 PM	R99374
Surr: 4-Bromofluorobenzene	93.9	39.1-146		%Rec	1	8/31/2023 1:40:00 PM	R99374

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 **2308G95**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 10:20:00 AM
Lab ID: 2308G95-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 11:36:26 AM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/31/2023 10:11:57 AM	77224
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/31/2023 10:11:57 AM	77224
Surr: DNOP	105	69-147		%Rec	1	8/31/2023 10:11:57 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/31/2023 2:02:00 PM	G99374
Surr: BFB	102	15-244		%Rec	1	8/31/2023 2:02:00 PM	G99374
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.018		mg/Kg	1	8/31/2023 2:02:00 PM	R99374
Toluene	ND	0.037		mg/Kg	1	8/31/2023 2:02:00 PM	R99374
Ethylbenzene	ND	0.037		mg/Kg	1	8/31/2023 2:02:00 PM	R99374
Xylenes, Total	ND	0.073		mg/Kg	1	8/31/2023 2:02:00 PM	R99374
Surr: 4-Bromofluorobenzene	96.3	39.1-146		%Rec	1	8/31/2023 2:02:00 PM	R99374

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 **2308G95**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 10:25:00 AM
Lab ID: 2308G95-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 11:48:51 AM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/31/2023 10:22:31 AM	77224
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/31/2023 10:22:31 AM	77224
Surr: DNOP	108	69-147		%Rec	1	8/31/2023 10:22:31 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	8/31/2023 2:24:00 PM	G99374
Surr: BFB	104	15-244		%Rec	1	8/31/2023 2:24:00 PM	G99374
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.019		mg/Kg	1	8/31/2023 2:24:00 PM	R99374
Toluene	ND	0.039		mg/Kg	1	8/31/2023 2:24:00 PM	R99374
Ethylbenzene	ND	0.039		mg/Kg	1	8/31/2023 2:24:00 PM	R99374
Xylenes, Total	0.12	0.078		mg/Kg	1	8/31/2023 2:24:00 PM	R99374
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	8/31/2023 2:24:00 PM	R99374

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 **2308G95**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 10:30:00 AM
Lab ID: 2308G95-005 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 12:01:15 PM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/31/2023 10:33:05 AM	77224
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/31/2023 10:33:05 AM	77224
Surr: DNOP	102	69-147		%Rec	1	8/31/2023 10:33:05 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/31/2023 2:46:00 PM	G99374
Surr: BFB	104	15-244		%Rec	1	8/31/2023 2:46:00 PM	G99374
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.018		mg/Kg	1	8/31/2023 2:46:00 PM	R99374
Toluene	ND	0.036		mg/Kg	1	8/31/2023 2:46:00 PM	R99374
Ethylbenzene	ND	0.036		mg/Kg	1	8/31/2023 2:46:00 PM	R99374
Xylenes, Total	ND	0.073		mg/Kg	1	8/31/2023 2:46:00 PM	R99374
Surr: 4-Bromofluorobenzene	94.4	39.1-146		%Rec	1	8/31/2023 2:46:00 PM	R99374

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 **2308G95**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 10:35:00 AM
Lab ID: 2308G95-006 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 12:13:40 PM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/31/2023 10:43:40 AM	77224
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2023 10:43:40 AM	77224
Surr: DNOP	98.8	69-147		%Rec	1	8/31/2023 10:43:40 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/31/2023 3:08:00 PM	G99374
Surr: BFB	98.2	15-244		%Rec	1	8/31/2023 3:08:00 PM	G99374
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.017		mg/Kg	1	8/31/2023 3:08:00 PM	R99374
Toluene	ND	0.035		mg/Kg	1	8/31/2023 3:08:00 PM	R99374
Ethylbenzene	ND	0.035		mg/Kg	1	8/31/2023 3:08:00 PM	R99374
Xylenes, Total	ND	0.069		mg/Kg	1	8/31/2023 3:08:00 PM	R99374
Surr: 4-Bromofluorobenzene	92.7	39.1-146		%Rec	1	8/31/2023 3:08:00 PM	R99374

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#: **2308G95**

08-Sep-23

Client: ENSOLUM

Project: Canyon Largo 243

Sample ID: **MB-77233**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **77233**	RunNo: **99389**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3628224** Units: **mg/Kg**

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

Sample ID: **LCS-77233**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **77233**	RunNo: **99389**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3628225** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	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#: **2308G95**

08-Sep-23

Client: ENSOLUM

Project: Canyon Largo 243

Sample ID: **LCS-77224**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77224**	RunNo: **99380**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3626556** 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	104	61.9	130			
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: **MB-77224**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77224**	RunNo: **99380**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3626557** 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		103	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#: **2308G95**

08-Sep-23

Client: ENSOLUM

Project: Canyon Largo 243

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R99374**	RunNo: **99374**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3626537** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		216	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R99374**	RunNo: **99374**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3626538** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		106	15	244			

Sample ID: **2308G95-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **G99374**	RunNo: **99374**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3627977** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.5	17.51	0	96.6	70	130			
Surr: BFB	1500		700.3		216	15	244			

Sample ID: **2308G95-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **G99374**	RunNo: **99374**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3627978** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.5	17.51	0	91.8	70	130	5.09	20	
Surr: BFB	1500		700.3		208	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#: **2308G95**

08-Sep-23

Client: ENSOLUM

Project: Canyon Largo 243

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R99374**	RunNo: **99374**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3626558** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	70	130			
Toluene	0.91	0.050	1.000	0	91.1	70	130			
Ethylbenzene	0.93	0.050	1.000	0	93.4	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.0	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R99374**	RunNo: **99374**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3626559** 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	0.96		1.000		96.3	39.1	146			

Sample ID: **2308G95-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **R99374**	RunNo: **99374**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3628009** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.018	0.7231	0	95.3	70	130			
Toluene	0.70	0.036	0.7231	0	96.3	70	130			
Ethylbenzene	0.71	0.036	0.7231	0	97.9	70	130			
Xylenes, Total	2.2	0.072	2.169	0.03535	98.2	70	130			
Surr: 4-Bromofluorobenzene	0.68		0.7231		94.3	39.1	146			

Sample ID: **2308G95-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **R99374**	RunNo: **99374**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3628010** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.018	0.7231	0	94.0	70	130	1.38	20	
Toluene	0.69	0.036	0.7231	0	95.1	70	130	1.28	20	
Ethylbenzene	0.70	0.036	0.7231	0	96.2	70	130	1.74	20	
Xylenes, Total	2.1	0.072	2.169	0.03535	95.7	70	130	2.52	20	
Surr: 4-Bromofluorobenzene	0.67		0.7231		93.3	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: 2308G95 | RcptNo: 1

Received By: Tracy Casarrubias 8/31/2023 6:10:00 AM

Completed By: Tracy Casarrubias 8/31/2023 6:38:08 AM

Reviewed By: MT 8/31/23

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: TM 8/31/23

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 8/31/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 6006 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: Canyon Largo #243

Project #: See notes

Project Manager: ksummers

Sampler: RDeechilly
On Ice: ☒ Yes ☐ No YMI
# of Coolers: 1
Cooler Temp(Including CF): 4.3-0=4.3 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2308295	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
8/30/23	1010	S	S-1	(1) 4oz Jar	cool	001	X	X									X
8/30/23	1015	S	S-2	(1) 4oz Jar	cool	002	X	X									X
8/30/23	1020	S	S-3	(1) 4oz Jar	cool	003	X	X									X
8/30/23	1025	S	S-4	(1) 4oz Jar	cool	004	X	X									X
8/30/23	1030	S	S-5	(1) 4oz Jar	cool	005	X	X									X
8/30/23	1035	S	S-6	(1) 4oz Jar	cool	006	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/30/23	1625				8/30/23	1625
8/30/23	1810			Courier	8/31/23	6:10

Remarks: PM - Tom Long (EPROD)
Pay Key - RB21200
Non AFE - N67287

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 08, 2023

Kyle Summers

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

RE: Canyon Largo 243 OrderNo.: 2308G96

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/31/2023 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 **2308G96**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** OS-1
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 9:00:00 AM
Lab ID: 2308G96-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 12:26:04 PM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/31/2023 10:54:18 AM	77224
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2023 10:54:18 AM	77224
Surr: DNOP	104	69-147		%Rec	1	8/31/2023 10:54:18 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/31/2023 12:18:02 PM	GS99366
Surr: BFB	95.8	15-244		%Rec	1	8/31/2023 12:18:02 PM	GS99366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.017		mg/Kg	1	8/31/2023 12:18:02 PM	BS99366
Toluene	ND	0.033		mg/Kg	1	8/31/2023 12:18:02 PM	BS99366
Ethylbenzene	ND	0.033		mg/Kg	1	8/31/2023 12:18:02 PM	BS99366
Xylenes, Total	ND	0.066		mg/Kg	1	8/31/2023 12:18:02 PM	BS99366
Surr: 4-Bromofluorobenzene	107	39.1-146		%Rec	1	8/31/2023 12:18:02 PM	BS99366

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 **2308G96**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** OS-2
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 9:05:00 AM
Lab ID: 2308G96-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 12:38:29 PM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/31/2023 11:04:56 AM	77224
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2023 11:04:56 AM	77224
Surr: DNOP	101	69-147		%Rec	1	8/31/2023 11:04:56 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/31/2023 12:41:40 PM	GS99366
Surr: BFB	93.5	15-244		%Rec	1	8/31/2023 12:41:40 PM	GS99366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.017		mg/Kg	1	8/31/2023 12:41:40 PM	BS99366
Toluene	ND	0.034		mg/Kg	1	8/31/2023 12:41:40 PM	BS99366
Ethylbenzene	ND	0.034		mg/Kg	1	8/31/2023 12:41:40 PM	BS99366
Xylenes, Total	ND	0.067		mg/Kg	1	8/31/2023 12:41:40 PM	BS99366
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	1	8/31/2023 12:41:40 PM	BS99366

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 **2308G96**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** OS-3
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 9:10:00 AM
Lab ID: 2308G96-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 1:15:43 PM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	10	9.7		mg/Kg	1	8/31/2023 11:15:35 AM	77224
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2023 11:15:35 AM	77224
Surr: DNOP	106	69-147		%Rec	1	8/31/2023 11:15:35 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/31/2023 1:05:23 PM	GS99366
Surr: BFB	94.8	15-244		%Rec	1	8/31/2023 1:05:23 PM	GS99366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.019		mg/Kg	1	8/31/2023 1:05:23 PM	BS99366
Toluene	ND	0.038		mg/Kg	1	8/31/2023 1:05:23 PM	BS99366
Ethylbenzene	ND	0.038		mg/Kg	1	8/31/2023 1:05:23 PM	BS99366
Xylenes, Total	ND	0.077		mg/Kg	1	8/31/2023 1:05:23 PM	BS99366
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	8/31/2023 1:05:23 PM	BS99366

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 **2308G96**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** OS-4
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 9:15:00 AM
Lab ID: 2308G96-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 1:28:08 PM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/31/2023 11:26:15 AM	77224
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/31/2023 11:26:15 AM	77224
Surr: DNOP	110	69-147		%Rec	1	8/31/2023 11:26:15 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/31/2023 1:29:12 PM	GS99366
Surr: BFB	97.0	15-244		%Rec	1	8/31/2023 1:29:12 PM	GS99366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.018		mg/Kg	1	8/31/2023 1:29:12 PM	BS99366
Toluene	ND	0.035		mg/Kg	1	8/31/2023 1:29:12 PM	BS99366
Ethylbenzene	ND	0.035		mg/Kg	1	8/31/2023 1:29:12 PM	BS99366
Xylenes, Total	ND	0.070		mg/Kg	1	8/31/2023 1:29:12 PM	BS99366
Surr: 4-Bromofluorobenzene	108	39.1-146		%Rec	1	8/31/2023 1:29:12 PM	BS99366

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 **2308G96**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** OS-5
Project: Canyon Largo 243 **Collection Date:** 8/30/2023 9:20:00 AM
Lab ID: 2308G96-005 **Matrix:** MEOH (SOIL) **Received Date:** 8/31/2023 6:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	8/31/2023 1:40:33 PM	77233
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/31/2023 11:36:58 AM	77224
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2023 11:36:58 AM	77224
Surr: DNOP	109	69-147		%Rec	1	8/31/2023 11:36:58 AM	77224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/31/2023 1:53:00 PM	GS99366
Surr: BFB	103	15-244		%Rec	1	8/31/2023 1:53:00 PM	GS99366
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.018		mg/Kg	1	8/31/2023 1:53:00 PM	BS99366
Toluene	ND	0.036		mg/Kg	1	8/31/2023 1:53:00 PM	BS99366
Ethylbenzene	ND	0.036		mg/Kg	1	8/31/2023 1:53:00 PM	BS99366
Xylenes, Total	ND	0.073		mg/Kg	1	8/31/2023 1:53:00 PM	BS99366
Surr: 4-Bromofluorobenzene	107	39.1-146		%Rec	1	8/31/2023 1:53:00 PM	BS99366

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#: **2308G96**

08-Sep-23

Client: ENSOLUM

Project: Canyon Largo 243

Sample ID:	**MB-77233**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**77233**	RunNo:	**99389**					
Prep Date:	**8/31/2023**	Analysis Date:	**8/31/2023**	SeqNo:	**3628224**	Units:	**mg/Kg**			

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

Sample ID:	**LCS-77233**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**77233**	RunNo:	**99389**					
Prep Date:	**8/31/2023**	Analysis Date:	**8/31/2023**	SeqNo:	**3628225**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	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#: **2308G96**

08-Sep-23

Client: ENSOLUM

Project: Canyon Largo 243

Sample ID: **LCS-77224**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77224**	RunNo: **99380**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3626556** 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	104	61.9	130			
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: **MB-77224**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77224**	RunNo: **99380**
Prep Date: **8/31/2023**	Analysis Date: **8/31/2023**	SeqNo: **3626557** 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		103	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#: **2308G96**

08-Sep-23

Client: ENSOLUM

Project: Canyon Largo 243

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS99366**	RunNo: **99366**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3626088** 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	95.0	70	130			
Surr: BFB	1900		1000		194	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS99366**	RunNo: **99366**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3626143** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.9	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 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#: **2308G96**

08-Sep-23

Client: ENSOLUM

Project: Canyon Largo 243

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **BS99366**	RunNo: **99366**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3626142** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	1.0	0.050	1.000	0	104	70	130			
Ethylbenzene	1.0	0.050	1.000	0	105	70	130			
Xylenes, Total	3.2	0.10	3.000	0	106	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BS99366**	RunNo: **99366**
Prep Date:	Analysis Date: **8/31/2023**	SeqNo: **3626144** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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 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: 2308G96 | RcptNo: 1

Received By: Tracy Casarrubias 8/31/2023 6:10:00 AM

Completed By: Tracy Casarrubias 8/31/2023 6:47:44 AM

Reviewed By: 8/31/23

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 8/31/23

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 8/31/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	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: SAMEDAY
☐ Standard ☒ Rush 100%

Project Name: Canyon Largo #243

Project #: see notes

Project Manager: ksummers

Sampler: RDeechilly
On Ice: ☑ Yes ☑ No Hoon
# of Coolers: 1
Cooler Temp(Including CF): 5.1-0=5.1 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2308G916	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
8/30/23	900	S	OS-1	(1) 4oz Jar	cool	001	X	X									X
8/30/23	905	S	OS-2	(1) 4oz Jar	cool	002	X	X									X
8/30/23	910	S	OS-3	(1) 4oz Jar	cool	003	X	X									X
8/30/23	915	S	OS-4	(1) 4oz Jar	cool	004	X	X									X
8/30/23	920	S	OS-5	(1) 4oz Jar	cool	005	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/30/23	1625				8/30/23	1625
8/30/23	1810			courier	8/31/23	6:10

Remarks:
PM - Tom Long (EPROD)
Pay Key - RB21200
Non AFE - N67287

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

QUESTIONS

Action 353878

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 353878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2324237500**
Incident Name	**NAPP2324237500 CANYON LARGO #243 @ 0**
Incident Type	**Natural Gas Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CANYON LARGO #243
Date Release Discovered	08/29/2023
Surface Owner	Federal

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

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 353878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	*Unavailable.*
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.	

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	*Not answered.*
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: 06/13/2024

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

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 353878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
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	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (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 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (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	Low
A 100-year floodplain	Between 1 and 5 (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)	0.1
GRO+DRO (EPA SW-846 Method 8015M)	0.1
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	08/29/2023
On what date will (or did) the final sampling or liner inspection occur	08/30/2023
On what date will (or was) the remediation complete(d)	09/01/2023
What is the estimated surface area (in square feet) that will be reclaimed	221
What is the estimated volume (in cubic yards) that will be reclaimed	84
What is the estimated surface area (in square feet) that will be remediated	221
What is the estimated volume (in cubic yards) that will be remediated	84
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 (continued)

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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	ENVIROTECH LANDFARM #1 [fEEM0112334691]
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	*Not answered.*
(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: 06/13/2024
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 (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**353883**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**08/30/2023**
What was the (estimated) number of samples that were to be gathered	**11**
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	221
What was the total volume (cubic yards) remediated	84
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	221
What was the total volume (in cubic yards) reclaimed	84
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: 06/13/2024

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QUESTIONS (continued)

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 353878

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/28/2024