ENSOLUM

CLOSURE REPORT

Property:

State Gas Com #3 (08/12/24) Release
Unit Letter J, S32 T31N R12W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2422558840

November 25, 2024 (Updated March 14, 2025)

Ensolum Project No. 05A12263330

Prepared for:

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

Prepared by:

Landon Daniell
Project Geologist

Kyle Summers
Senior Managing Geologist

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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	State Gas Com #3 (08/12/24) Release (Site)
NM EMNRD OCD Incident ID No.	NAPP2422558840
Location:	36.853315° North, 108.118563° West Unit Letter J, Section 32, Township 31 North, Range 12 West San Juan County, New Mexico
Property:	State Trust Land
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 6, 2024, a release of natural gas from the State Gas Com #3 pipeline was identified. Enterprise subsequently isolated and locked the pipeline out of service. On August 12, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact. In addition, 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. During the evaluation and remediation of the Site, Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. 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). Numerous PODs were identified in the adjacent Public Land Survey System (PLSS) sections (**Figure A**, **Appendix B**). No PODs were identified in the same PLSS section as the Site. Documentation for POD SJ-02145 indicates a depth to water (DTW) of 110 feet below grade surface (bgs). This POD is located approximately 0.53 miles southeast of the Site and is approximately 10 feet lower in elevation than the Site. Documentation for POD SJ-03204 indicates a depth to water of 20 feet below grade surface (bgs). This POD is located approximately 1.13 miles

west of the Site and is approximately 94 feet lower in elevation than the Site. Documentation for POD SJ-04197 POD 1 indicates a depth to water of 140 feet below grade surface (bgs). This POD is located approximately 0.91 miles northwest of the Site and is approximately 65 feet lower in elevation than the Site.

- Four cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the adjacent PLSS sections. These CPWs are depicted on **Figure B** (**Appendix B**). No CPWs were identified in the same PLSS section as the Site. Documentation for the cathodic protection well located near the Thompson #1R production pad indicates a depth to water of 200 feet below grade surface (bgs). This cathodic protection well is located approximately 0.67 miles east of the Site and is approximately 44 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliafero #3E production pads indicates a depth to water of 170 feet bgs. This cathodic protection well is located approximately 1.00 miles west of the Site and is approximately 52 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliafero #7 production pads indicates a depth to water of 100 feet bgs. This cathodic protection well is located approximately 1.05 miles northwest of the Site and is approximately 30 feet lower in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined, significant watercourse (**Figure C**, **Appendix B**). A first-order drainage to a “blue line” ephemeral wash is located approximately 48 feet east of the Site.

- 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**). Site is located within 300 feet of an “Intermittently Flooded” (J) riverine, which is not generally designated as a wetland in arid areas.

- Based on information identified in the NM Mining and Minerals Division’s Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).

- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.

- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information the Site is located within 300 feet of a NM EMNRD OCD-defined, significant watercourse, resulting in a Tier I ranking. The closure criteria for soils remaining in place at the Site include:

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On August 12, 2024, Enterprise initiated activities to 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 excavation measured approximately 25 feet long and 16 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 16.5 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of weathered shale overlain by silty sand.

Approximately 235 cubic yards (yd^3) of petroleum hydrocarbon-affected soils and 5 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding 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 15 composite soil samples (S-1 through S-14 and S-13a) from the excavation and one composite soil sample (BF-1) from the backfill 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 Excavation bucket and/or hand tools were utilized to obtain fresh

aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event
On August 14, 2024, 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-9 (12') and S-10 (12') were collected from the floor of the excavation. Composite soil samples S-1 (0' to 12'), S-2 (0' to 12'), S-3 (0' to 12'), S-4 (0' to 12'), S-5 (0' to 12'), S-6 (0' to 12'), S-7 (0' to 12'), and S-8 (0' to 12') were collected from the walls of the excavation. The results for composite soil samples S-9 and S-10 indicated exceedances in chloride concentrations.

Second Sampling Event
On August 19, 2024, 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-11 (12' to 13.5') and S-12 (12' to 13.5') were collected from the floor and walls of the excavation to replace composite samples S-9 and S-10, respectively. The result for composite soil sample S-12 indicated an exceedance in chloride concentration.

Third Sampling Event
On August 23, 2024, 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-13 (13.5' to 16') and S-14 (13.5' to 16') were collected from the floor and walls of the excavation to replace composite samples S-11 and S-12, respectively. The result for composite soil sample S-13 indicated an exceedance in chloride concentration.

Fourth Sampling Event
On August 30, 2024, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample S-13a (16.5') was collected from the floor and walls of the excavation to replace composite sample S-13.

Fifth Sampling Event
On February 20, 2025, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample BF-1 was collected from the imported fill.

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 Eurofins Environment Testing South Central, LLC (Eurofins) 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 excavation composite soil samples (S-1 through S-14 and S-13a) and the backfill composite soil sample (BF-1) to the applicable NM EMNRD OCD closure criteria. The results for composite soil samples S-9, S-10, S-12, and S-14 are not included in the following discussion because the impacted soils associated with these samples were removed from the Site. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for the composite soil samples remaining in place indicate that 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 the composite soil samples remaining in place 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 the composite soil sample S-7 indicate a total combined TPH GRO/DRO/MRO concentration of 15 mg/kg. The laboratory analytical results for the other composite soil samples collected from the soils remaining at the Site 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 composite soil samples S-4, S-5, S-11, and S-14 indicate chloride concentrations ranging from 150 mg/kg (S-4) to 500 mg/kg (S-11). The analytical results for the other composite soil samples collected from the soils remaining in place indicate that 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

The excavation was backfilled with imported fill and then contoured to the surrounding grade. The backfill and the upper four feet of the excavation have been analytically verified to be below the Tier I soil standards of 50 mg/kg BTEX, 10 mg/kg benzene, 100 mg/kg total combined TPH, and 600 mg/kg Chloride. See **APPENDIX D** and **APPENDIX F** for further documentation.

8.0 REVEGETATION

Revegetation will be addressed in accordance with 19.15.29.13 NMAC utilizing the recommended seed mix as described in the Vegetation Community Descriptions and Seed Mixes provided by the BLM Farmington Field Office. In this case the surrounding flood-plain/wash vegetation is predominantly of the Sagebrush Vegetation Community. Enterprise will reseed the area with the appropriate seed mix during the next favorable growing season. Enterprise will provide revegetation documentation under separate cover.

9.0 FINDINGS AND RECOMMENDATION

- Sixteen 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 235 yd^3 of petroleum hydrocarbon-affected soils and 5 bbls of hydro-excavation soil cuttings and water 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.

10.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

10.1 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).

10.2 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.

10.3 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 this 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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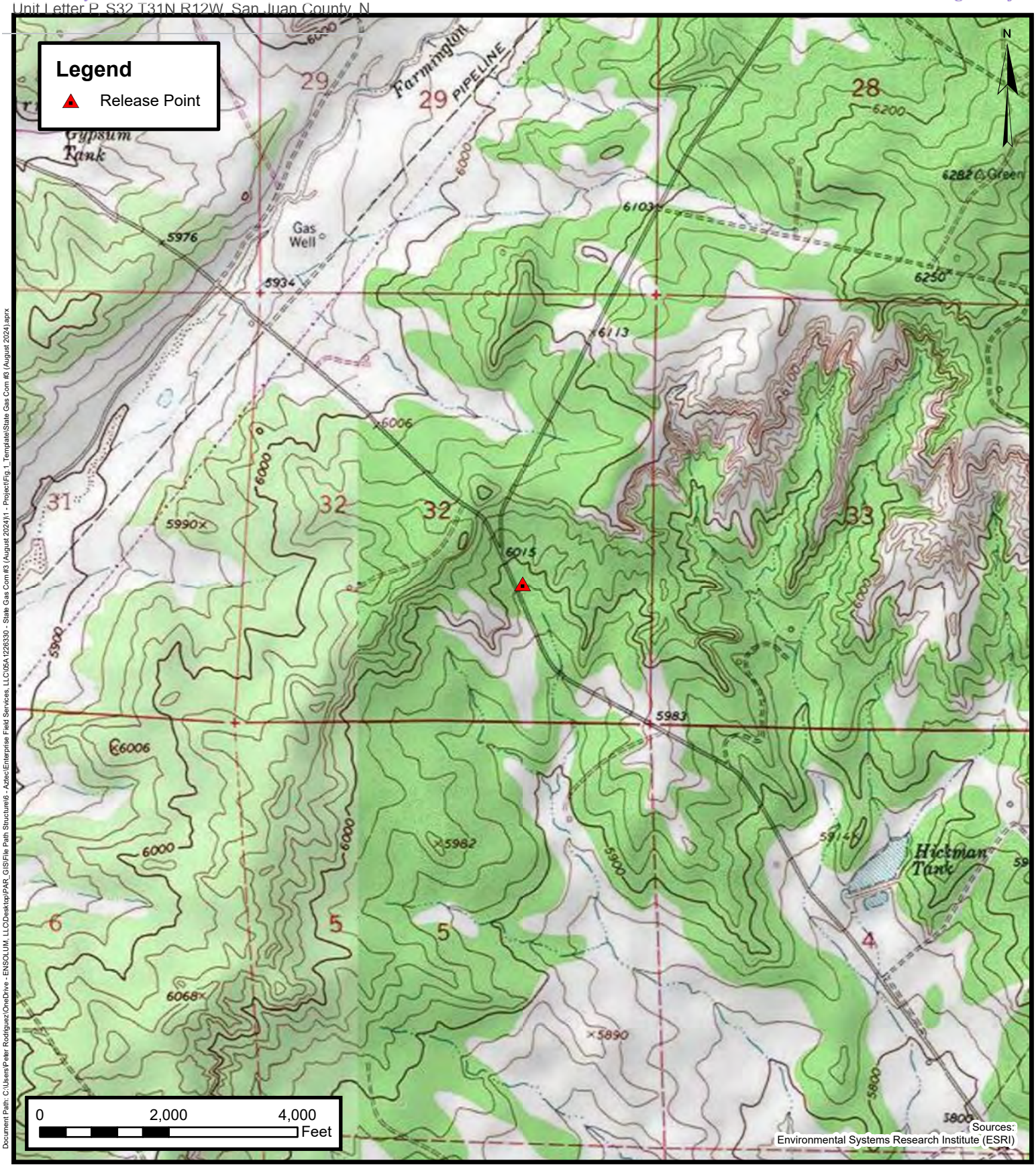
APPENDIX A

Figures

Unit Letter P, S32 T31N R12W, San Juan County, N



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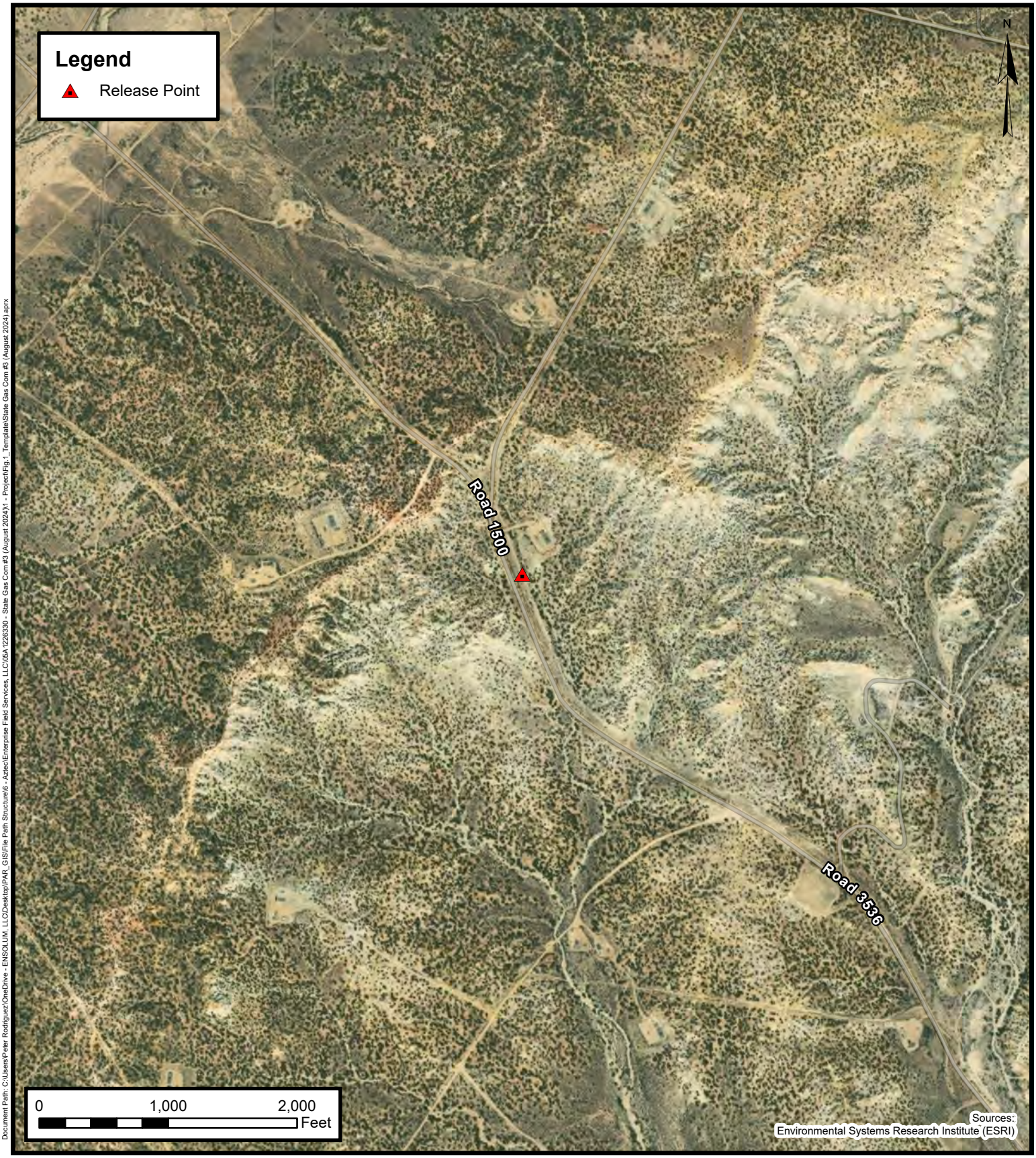
Topographic Map

Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE
1



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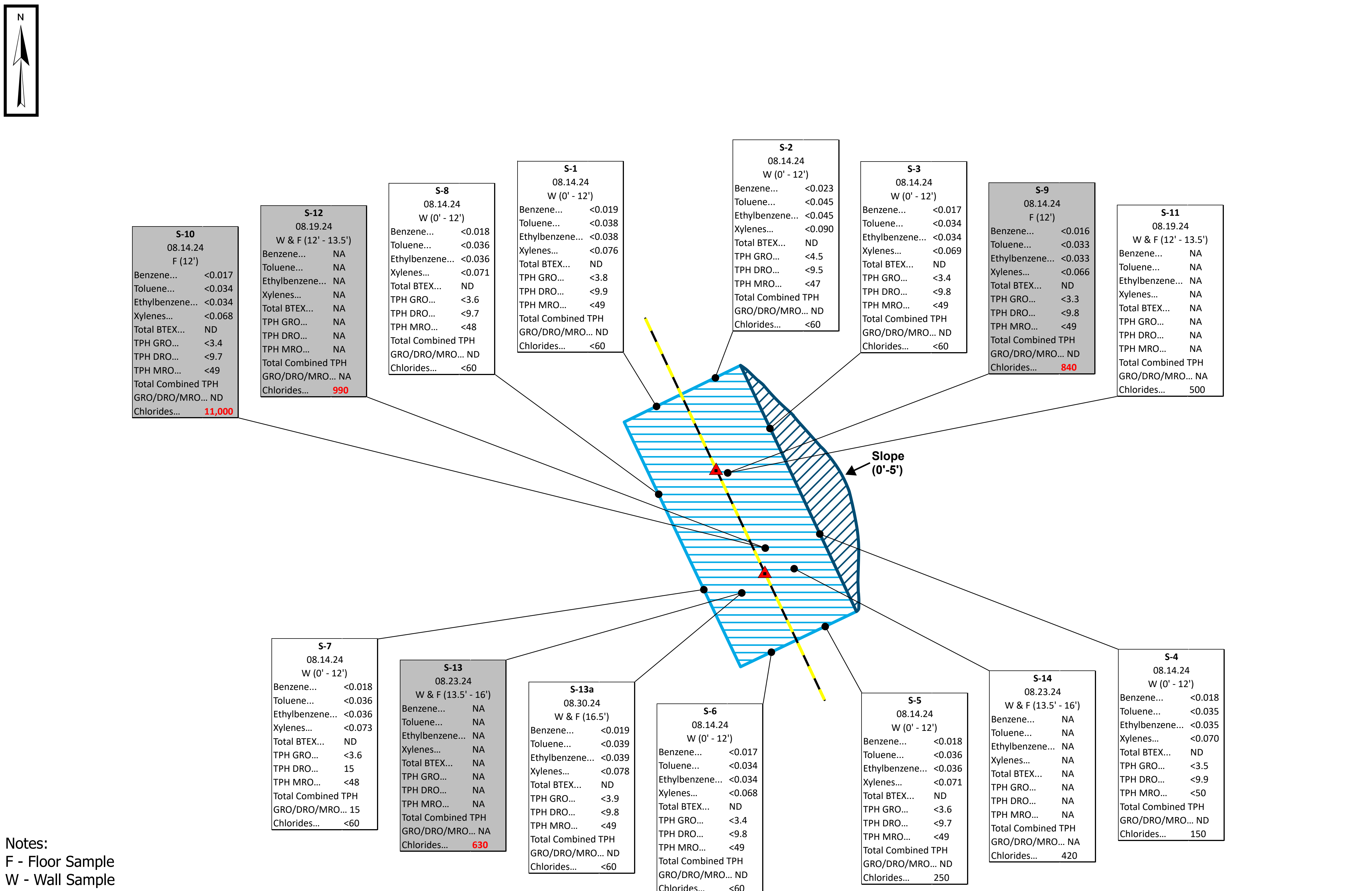
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE
2



Notes:
F - Floor Sample
W - Wall Sample
NA - Not Analyzed
All concentration are listed in milligrams per kilogram (mg/kg).
All depths are listed in feet BGS.
Concentrations in **red** exceed the applicable NM EMNRD OCD Closure Criteria.
Analytical callouts in **gray** denote sampling location removed by excavation.

0 10 20 Feet

LEGEND

- Point of Release
- Composite Soil Sample Location
- State Gas Com #3 Pipeline
- Main Excavation Extent (0' - 16' bgs)
- Sloped Excavation Extent (0' - 5' bgs)

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Site Map with Soil Analytical Results

Enterprise Field Services, LLC
State Gas Com #3 (August 2024)
Unit Letter J, S32 T31N R12W
San Juan County, New Mexico
36.853315, -108.118563

Figure
3
Project Number: 05A1226330

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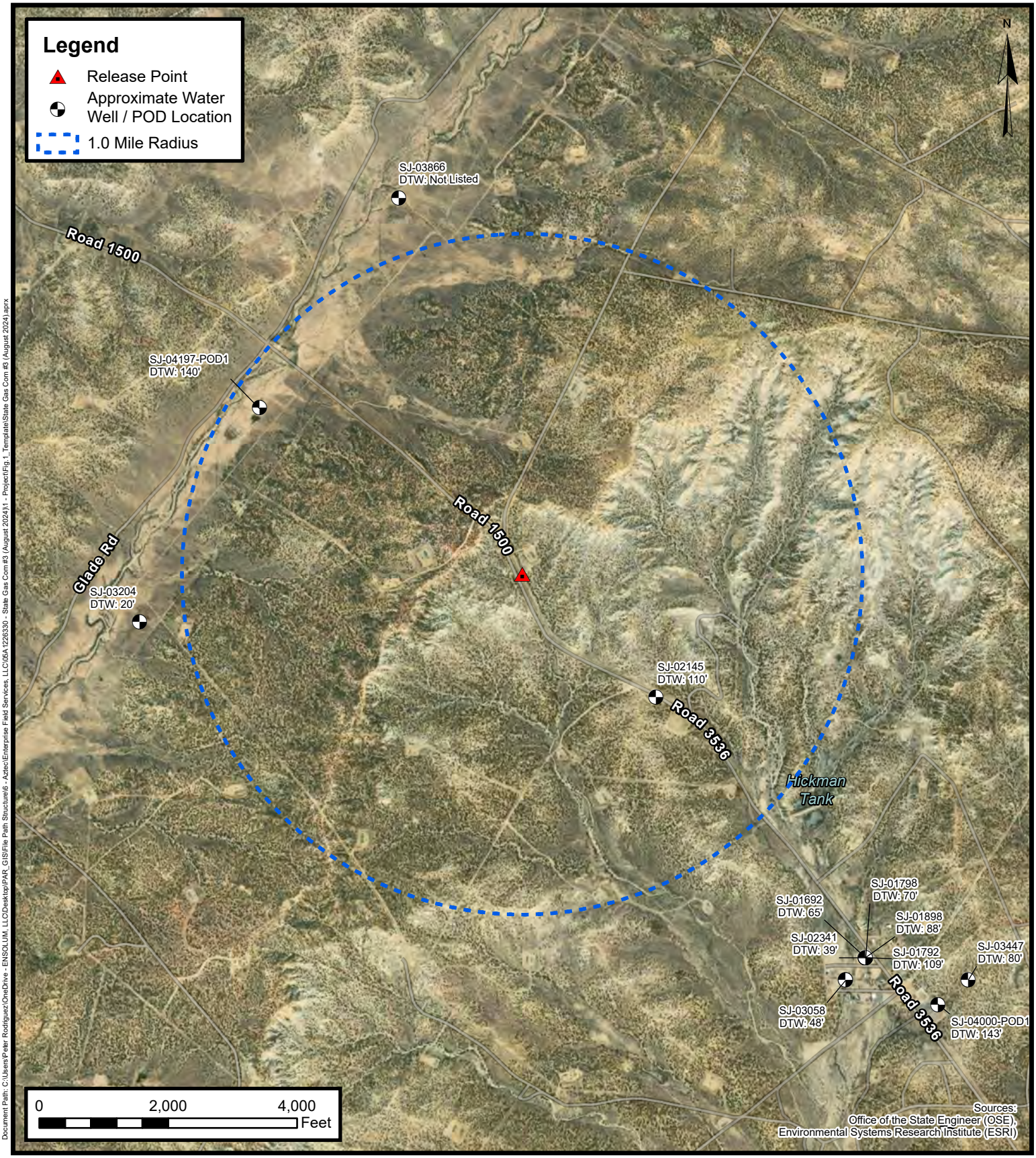
APPENDIX B

Siting Figures and Documentation



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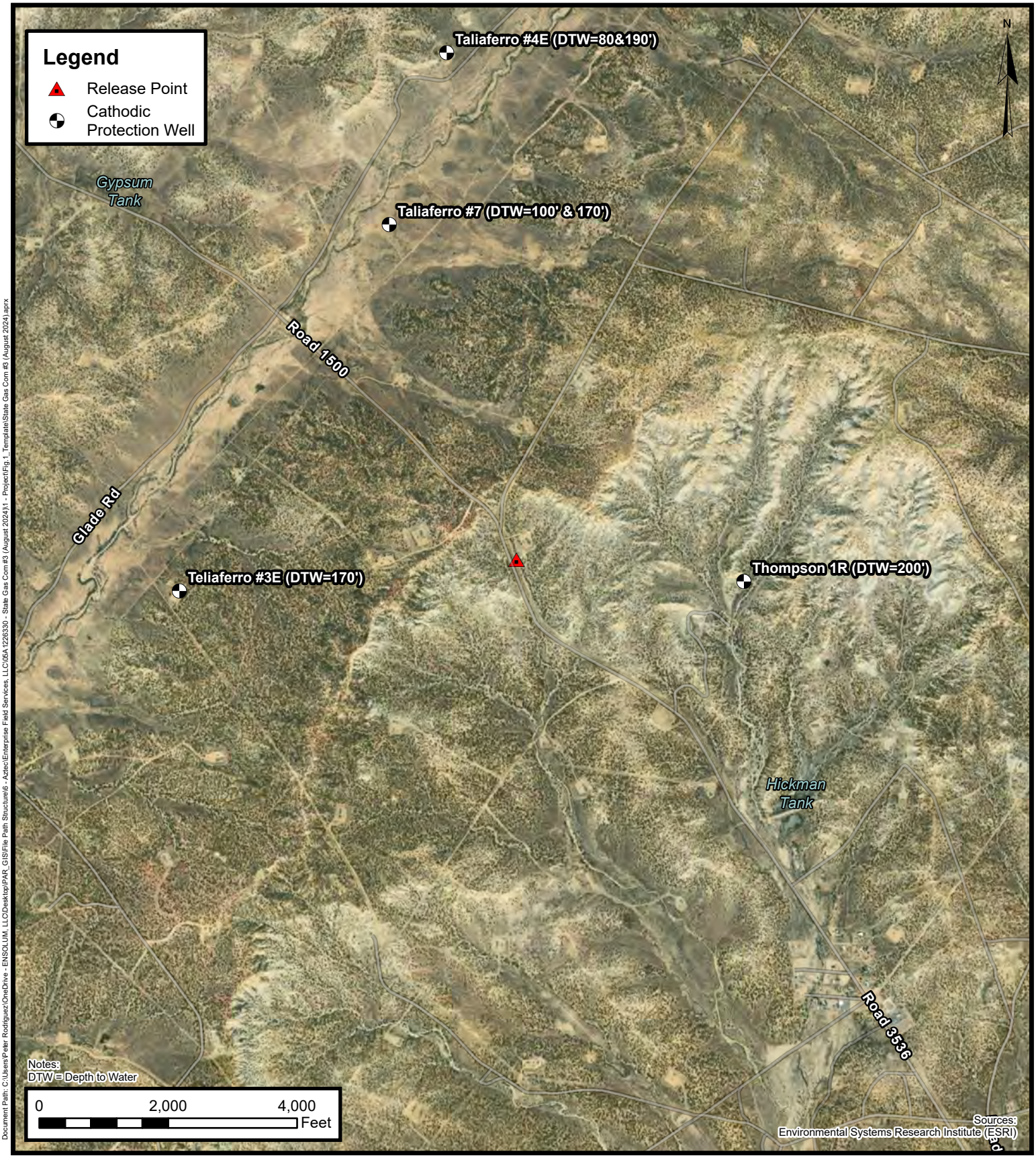
1.0 Mile Radius Water Well / POD Location Map

Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE

A



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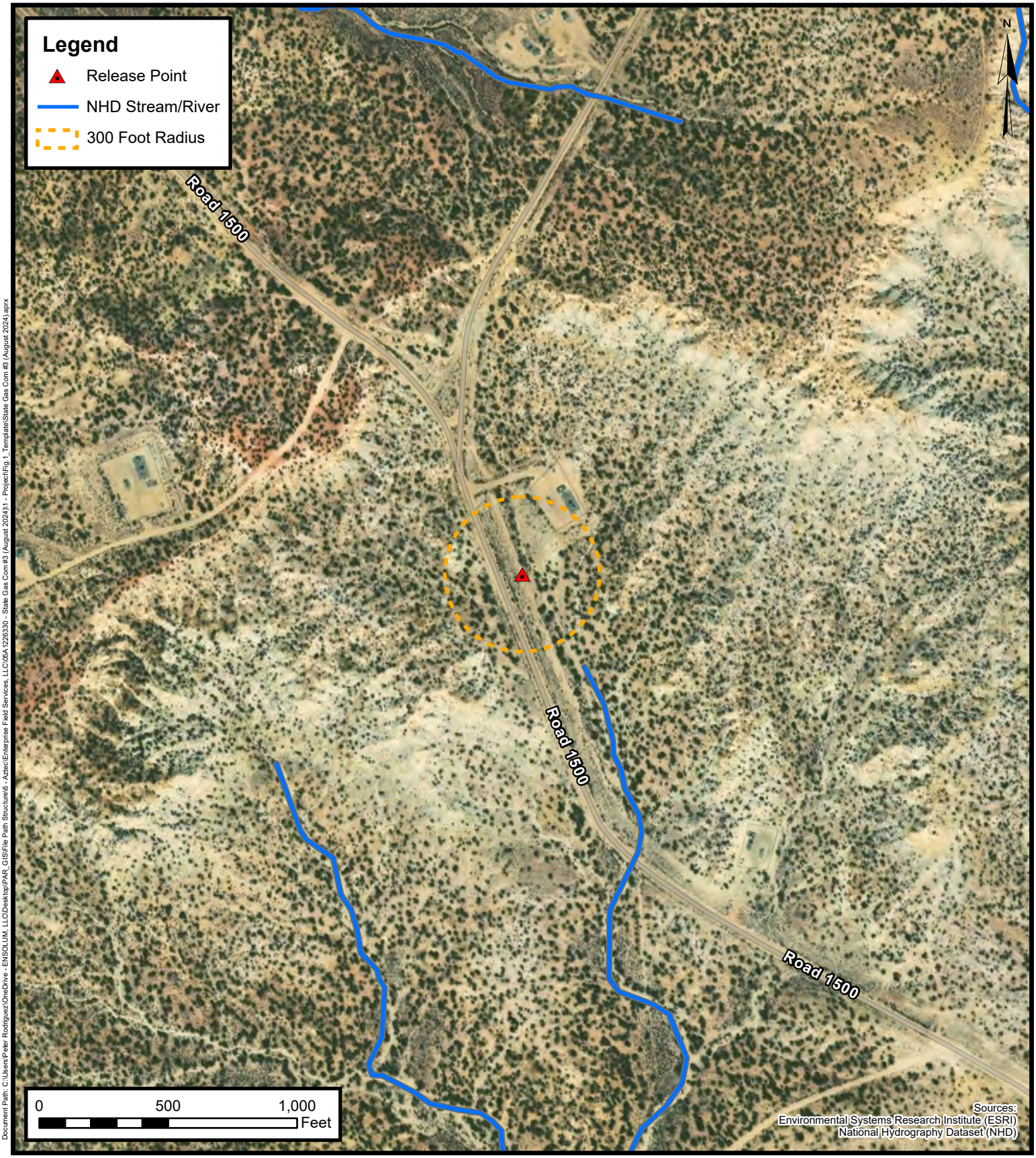
Cathodic Protection Well
Recorded Depth to Water
Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE
B



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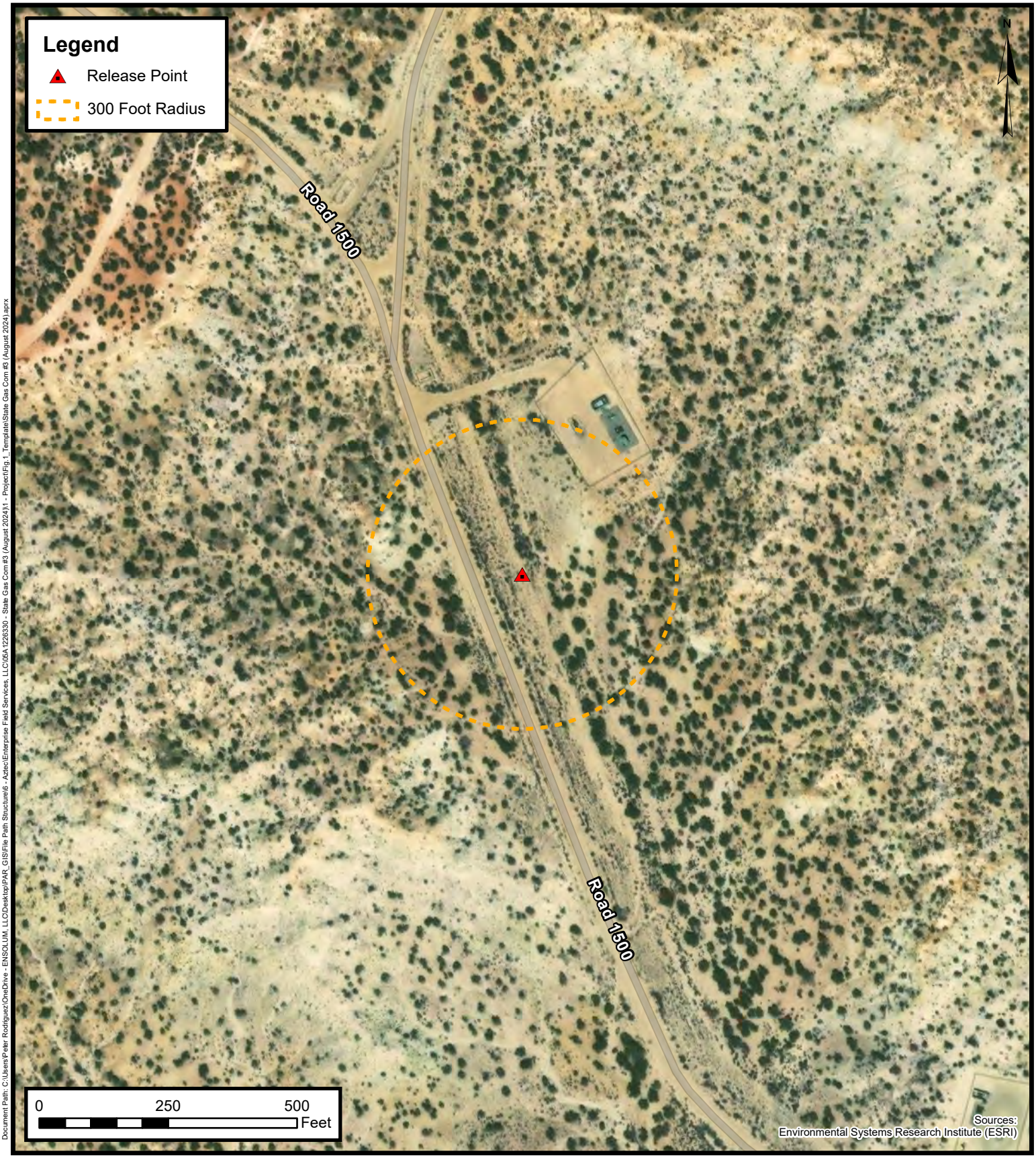
300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE

C



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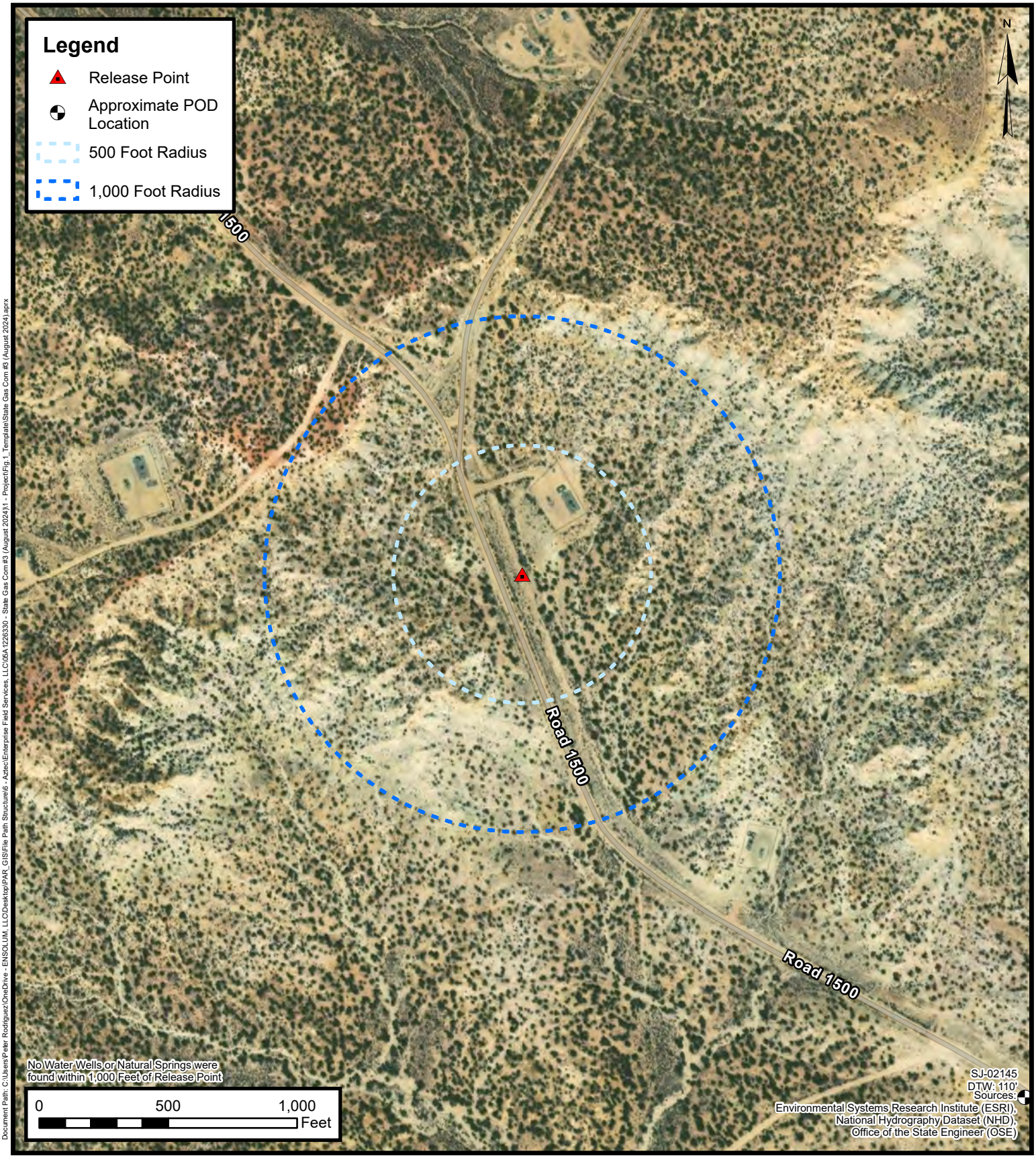
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
State Gas Com #3 ((08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE

D



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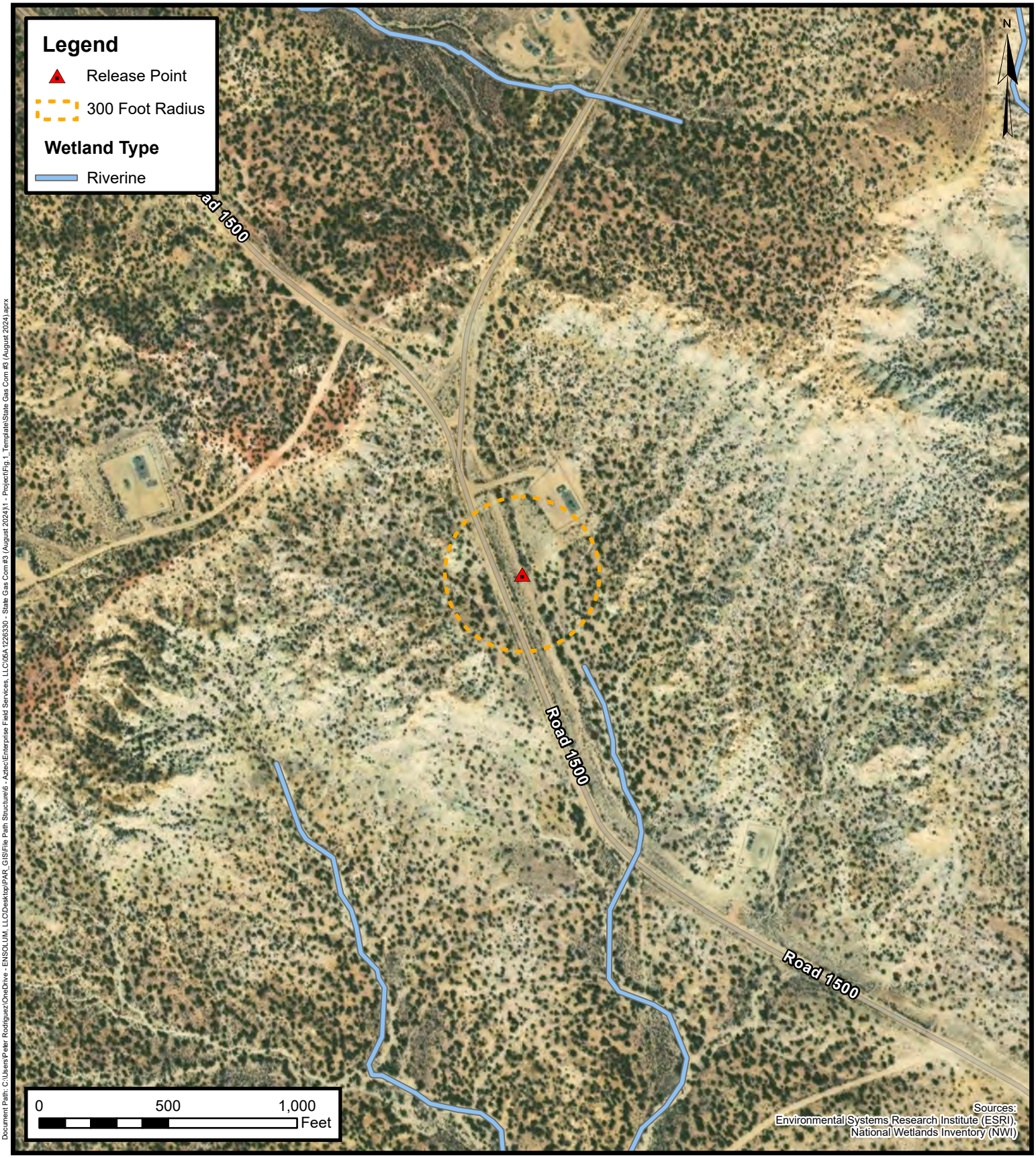
Water Well and Natural Spring Location
Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE
E



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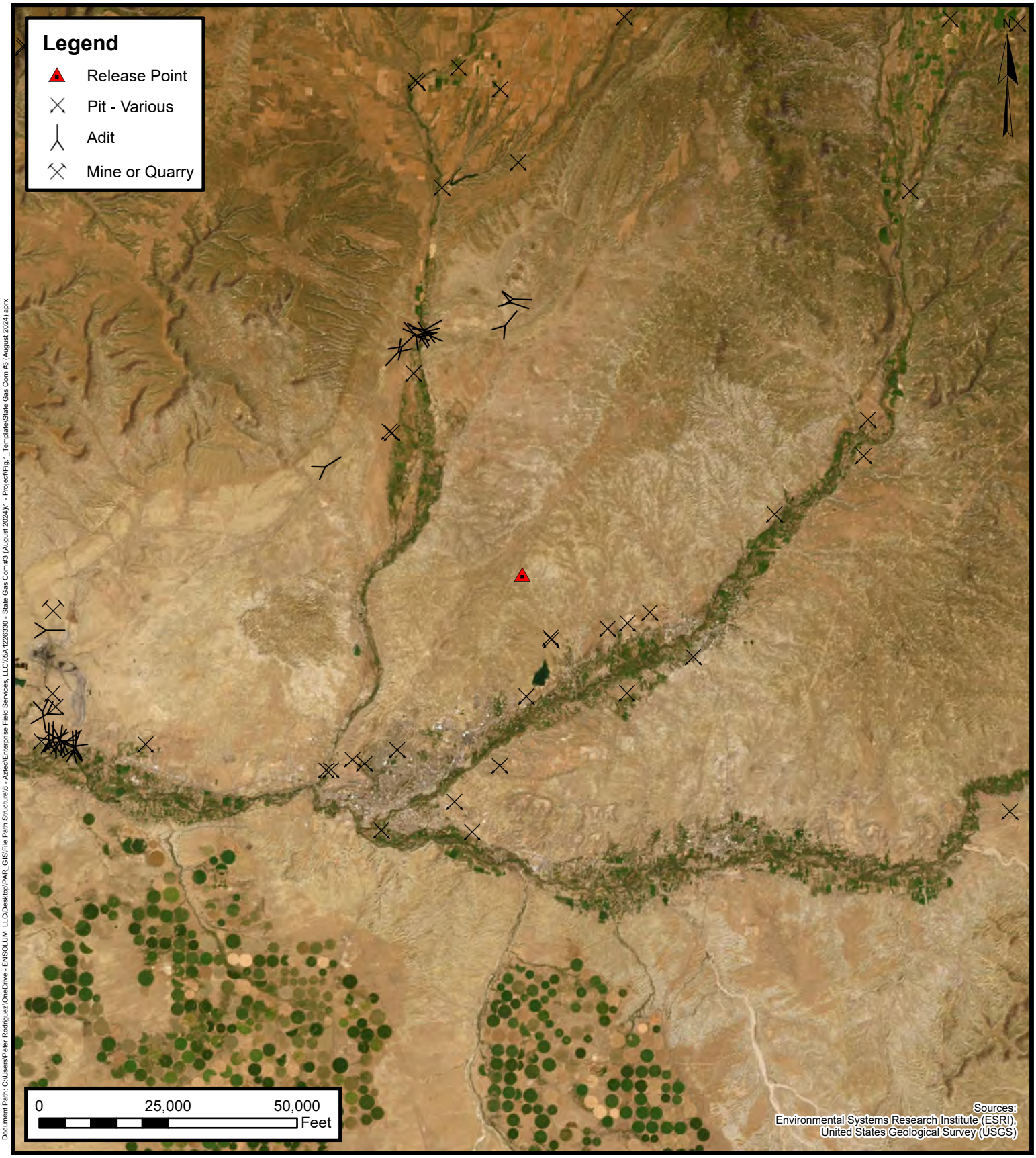
Wetlands

Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE
F



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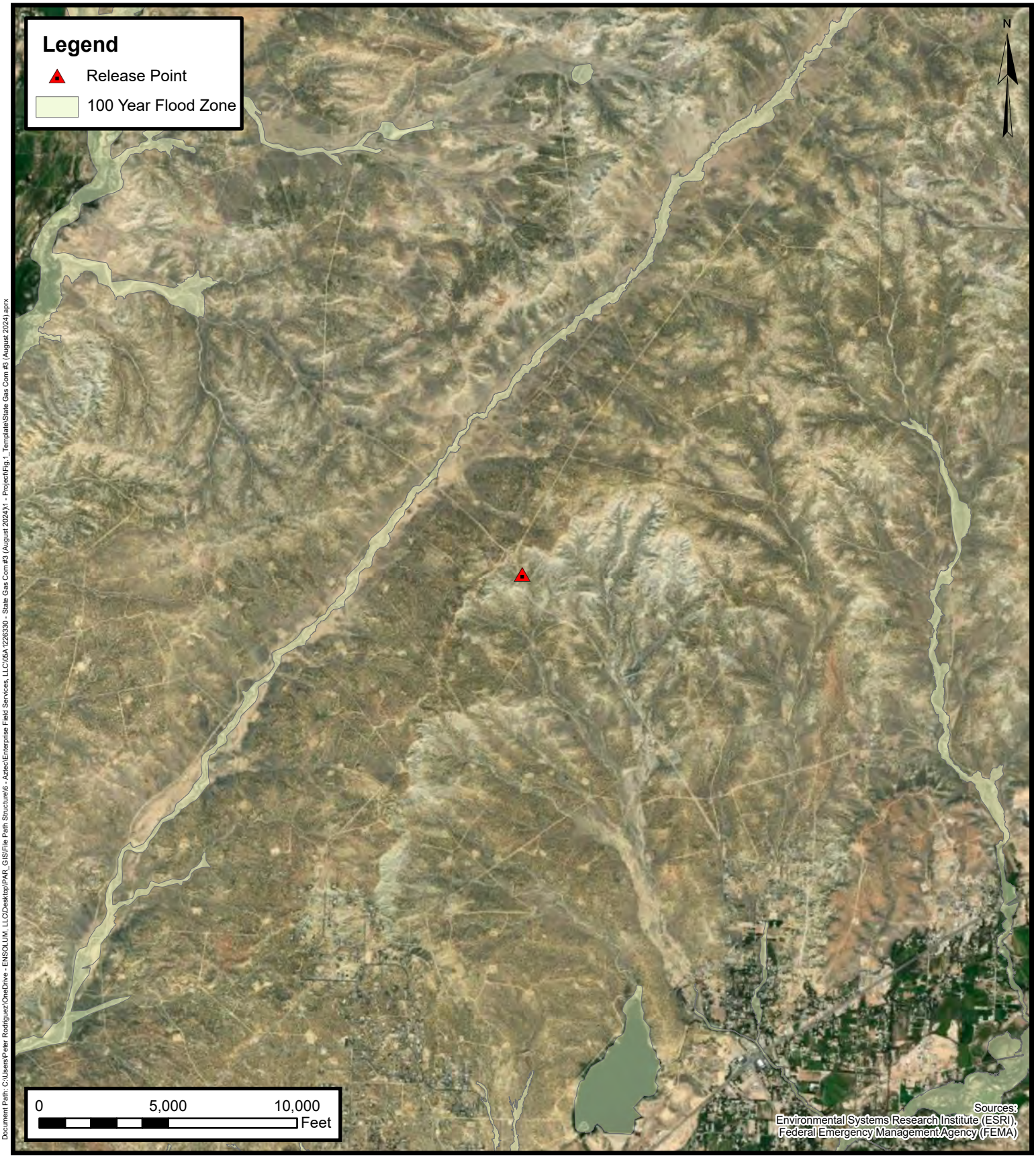
Mines, Mills, and Quarries

Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

FIGURE
G



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100-Year Flood Plain Map

Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Project Number: 05A1226330
Unit Letter J, S32 T31N R12W, San Juan County, NM
36.853315, -108.118563

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 01692	SJ	SJ		3	4	04	30N	12W	223459	4081230*	156	65	91
SJ 01792	SJ	SJ		3	4	04	30N	12W	223459	4081230*	155	109	46
SJ 01798	SJ	SJ		3	4	04	30N	12W	223459	4081230*	158	70	88
SJ 01898	SJ	SJ		3	4	04	30N	12W	223459	4081230*	140	88	52
SJ 02145	SJ	SJ	1	1	1	04	30N	12W	222547	4082522*	160	110	50
SJ 02341	SJ	SJ		3	4	04	30N	12W	223459	4081230*	85	39	46
SJ 03058	SJ	SJ	3	3	4	04	30N	12W	223358	4081129*	120	48	72
SJ 03447	SJ	SJ	4	4	4	04	30N	12W	223937	4081095*	120	80	40
SJ 04000 POD1	SJ	SJ	3	4	4	04	30N	12W	223787	4080985	280	143	137

Average Depth to Water: **83 feet**
Minimum Depth: **39 feet**
Maximum Depth: **143 feet**

Record Count: 9

PLSS Search:

Section(s): 4, 5, 6 **Township:** 30N **Range:** 12W

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

1505

30-045-24452

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

Operator MERIDIAN OIL INC. Location: Unit C Sec. 29 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced TALIAFERRO #4E

cps 6297w

Elevation N/A Completion Date 12/22/86 Total Depth 380' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 80' & 190'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 360', 350', 340', 330', 320', 310', 300', 290', 280', 270'

Depths vent pipes placed: 380'

Vent pipe perforations: 180'

Remarks: gb #1

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MAY 31 1991
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.

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

Drilling Log (Attach Hereto). ☒ (297w) Completion Date December 22, 1986

Well Name	Location	
Taliaferro #4-E	Unocal Texas Petroleum	C 29-31-12
Type & Size Bit Used		Work Order No.

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
380'				

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	360	350	340	330	320	310	300	290	280	270
Anode Output (Amps)	4.4	3.8	4.0	3.3	3.5	3.8	3.3	3.0	3.0	3.8

	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

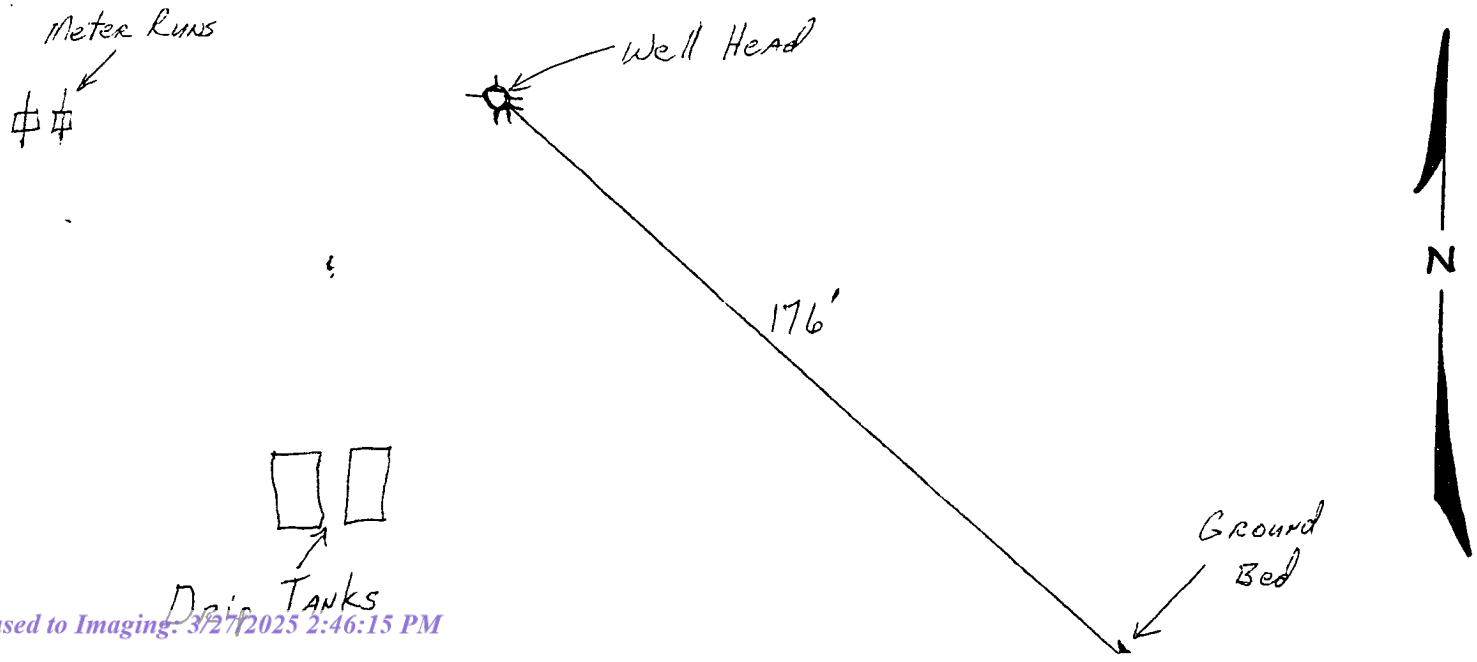
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 41.6	Amps 20.7	Ohms 2.15	3430'	

Remarks: Water standing at 200' when hole was logged. Used 350' of 1" vent pipe w/ 150' of perforations.

All Construction Completed

Cody Mumbrea
(Signature)

GROUND BED LAYOUT SKETCH



CORROSION CONTROL CO. — 301 Ash — Aztec, New Mexico

COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 22 1986

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Taliaferro	4-E	29	31	12

WATER AT 80' & 190' FEET

HOLE MADE: 380'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0'	80'	Sand w/clay stringers	Brown
80'	190'	Clay & sand	Brown
190'	240'	Sand & Bentonite	Gray
240'	380'	Shale w/some sand.	Gray.

REMARKS: Water Volume was approx 6 gallons per minute.

Driller Cody Mendoza Tool Dresser

1502

30-045-24763

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

Operator MERIDIAN OIL INC. Location: Unit L Sec. 29 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced TALIAFERRO #7

cps 6298w

Elevation N/A Completion Date 12/16/86 Total Depth 320' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 100' & 170'

Depths gas encountered: N/A

Type & amount of coke breeze used: 1500 lbs.

Depths anodes placed: 300', 290', 280', 270', 260', 250', 240', 230', 220', 200'

Depths vent pipes placed: 320'

Vent pipe perforations: 150'

Remarks: gb #1

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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.

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

Drilling Log (Attach Hereto). ☒ Le 298W Completion Date December 16, 1986

Well Name	Location	
Taliaferro #7	Union Texas Petroleum	L 29-31N-12W
Type & Size Bit Used: 6&3/4"		Work Order No.

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
320'	7 Hrs.	1500#		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	300	290	280	270	260	250	240	230	220	200
Anode Output (Amps)	5.2	3.7	3.6	3.5	4.5	3.7	3.6	4.4	3.9	3.6
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

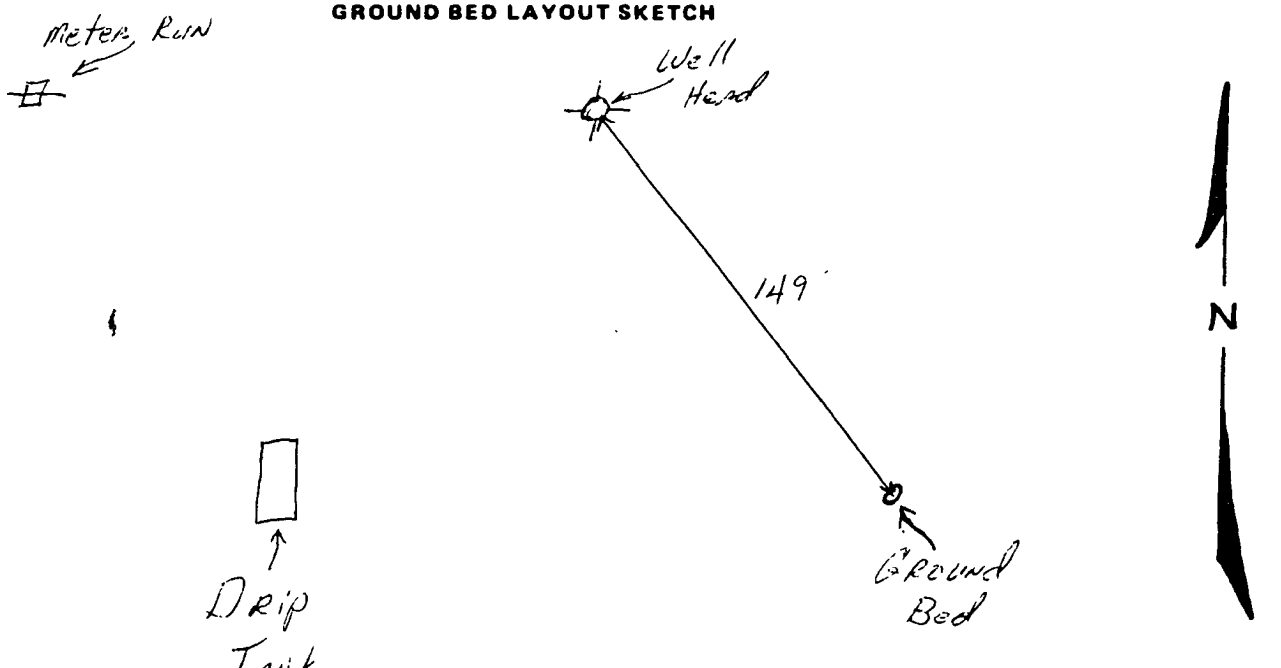
Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.4	Amps 21.2	Ohms 0.52		2700'	

Remarks: Water was standing at 165' when the hole was logged. Used 320' of 1" vent pipe with 150' of perforations.

All Construction Completed

Cody Mankins (Signature)

GROUND BED LAYOUT SKETCH



CORROSION CONTROL CO. — 301 Ash — Aztec, New Mexico

COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 16 19 86

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Taliaferro	7	29	31	12

WATER AT	FEET	HOLE MADE:
100' and 170'		320'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	40	Sand	Brown
40	90	Clay	Brown
90	130	Sand	Lt. Gray
130	160	Sand stone	Lt. Brown
160	180	Coarse water sand	Gray
180	300	Sandy shale	Gray
300	320	Sand	Lt. Brown

REMARKS: Hole was making approx. 35 gallons of water per minute.

Driller Cody Mashburn Tool Dresser

1504

30-045-25078

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

Operator MERIDIAN OIL INC. Location: Unit O Sec. 31 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced TALIAFERRO #3E

cps 6295w

Elevation N/A Completion Date 12/18/86 Total Depth 300' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 170'

Depths gas encountered: N/A

Type & amount of coke breeze used: 1400 lbs.

Depths anodes placed: 280', 270', 260', 250', 240', 230', 220', 210', 200', 190'

Depths vent pipes placed: 300'

Vent pipe perforations: 150'

Remarks: gb #1

RECEIVED
MAY 31 1991
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.

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

Drilling Log (Attach Hereto). ☒ (295 W) **Completion Date** December 18, 1986

Well Name	Location	
Taliaferro #3-E	Union Texas Petroleum	O 31-31N-12W
Type & Size Bit Used 6&3/4"		**Work Order No.**

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
300'	7 Hrs.	1400#		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	280	270	260	250	240	230	220	210	200	190
Anode Output (Amps)	2.5	3.3	3.5	3.7	3.3	3.1	2.6	3.7	2.6	2.7
Anode Depth										
Anode Output (Amps)										

#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

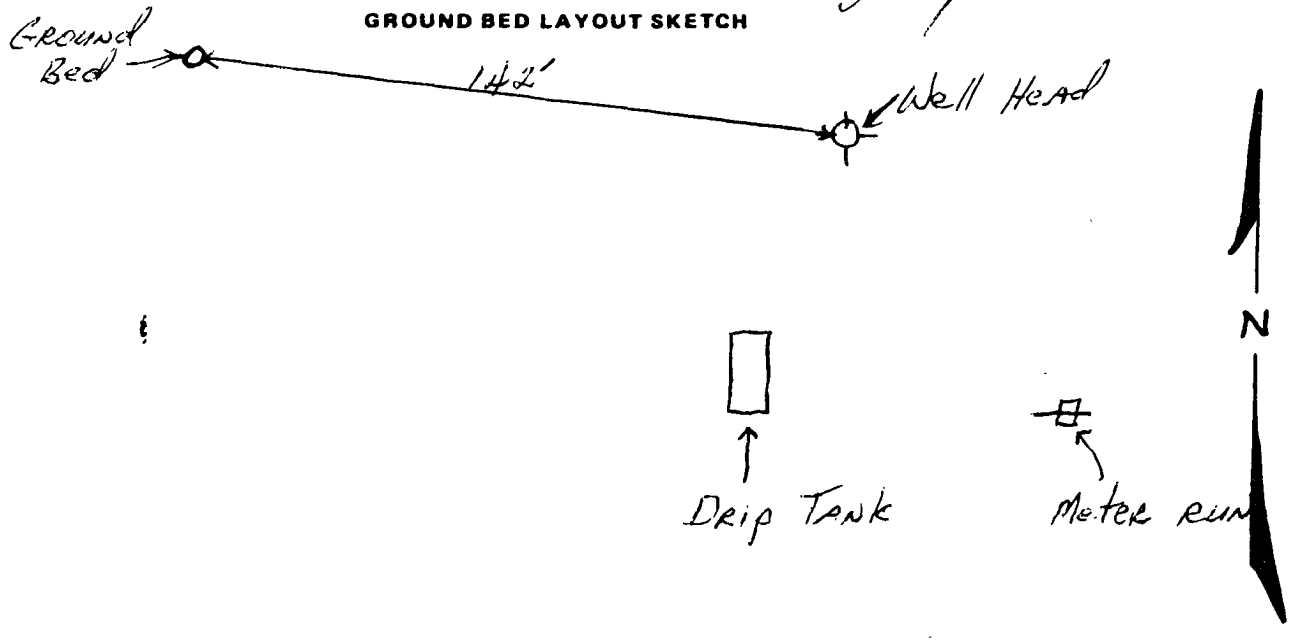
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.6	Amps 15.2	Ohms 0.76	2700'	

Remarks: Water was standing at 170' when the hole was logged. Used 300' of 1" vent pipe with 150' of perforations.

All Construction Completed

Cody Mankins
(Signature)

GROUND BED LAYOUT SKETCH



COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 18 1986

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Taliaferro	3-E	31	31	12

WATER AT	FEET	HOLE MADE:
70' and 170'		300'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	60	Sand	Brown
60	80	Coarse sand	Gray
80	150	Sand and clay	Brown
150	180	Coarse water sand	Gray
180	290	Sandy shale	Grav
290	300	Gravel and sand	Brown

REMARKS: Hole was making approx. 40 gallons of water per minute.

Driller Cody Meadows Tool Dresser

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

Operator BURLINGTON RESOURCES Location: Unit K Sec. 33 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced

THOMPSON 1R 30-045-29569

Elevation ____ Completion Date 7-2-98 Total Depth 380 Land Type SF

Casing Strings, Sizes, Types & Depths

20' 8" PVC

If Casing Strings are cemented, show amounts & types used

NONE

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. 200 7 GAL PER MIN

Depths gas encountered: NONE

Ground bed depth with type & amount of coke breeze used:

380' SW LARUSCO

Depths anodes placed: 215-230-235-240-315-320-225-330

Depths vent pipes placed: 0-340

Vent pipe perforations: 210-240

Remarks:

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MAR - 9 1999
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.

TIERRA DYNAMIC COMPANY DEEP WELL GROUNDED LOG DATA SHEET

COMPANY NAME:	LS NMNM 01614
WELL NAME	THOMPSON 1R
LEGAL LOCATION: 33 31-12	COUNTY: SAN JUAN
DATE: 7-2-98	TYPE OF COKE: SW LAROSEO
DEPTH: 380	AMT. OF COKE BACKFILL: 2300#
BIT SIZE: 6¾	VENT PIPE: 0-340
DRILLER NAME: MERCER	PERF. PIPE: 210-340
SIZE AND TYPE OF CASING: 20' 8" PVC	ANODE AMT. & TYPE: 8
	BOULDER DRILLING:

DEPTH FT.	LOG	ANODE	DEPTH FT.	LOG	ANODE	DEPTH FT.	LOG	ANODE
100	.8		265	.6		430		
105	.8		270	.8		435		
110	.6		275	.7		440		
115	.7		280	.7		445		
120	1.0		285	.9		450		
125	.9		290	.6		455		
130	1.1		295	.6		460		
135	1.0		300	.7		465		
140	.9		305	.8		470		
145	.7		310	.9		475		
150	.7		315	1.3		480		
155	1.1		320	1.8		485		
160	.6		325	1.6		490		
165	.8		330	1.5		495		
170	1.0		335	.9		500		
175	1.2		340	.8		505		
180	1.2		345	.9		510		
185	.8		350	.8		515		
190	.8		355	.8		520		
195	1.0		360	.7		525		
200	.9		365	1.0		530		
205	.8		370	.8		535		
210	.7		375			540		
215	1.1		380			545		
220	.8		385			550		
225	.9		390			555		
230	1.0		395			560		
235	1.1		400			565		
240	1.1		405			570		
245	.9		410			575		
250	.7		415			580		
255	.6		420			585		
260	.6		425			590		
						595		

COMPLETION INFORMATION:
WATER DEPTHS: WATER 200
ISOLATION PLUGS:

ANODE#	DEPTH	OUTPUT NO COK	OUTPUT COKED
1	330	1.5	5.7
2	325	1.6	6.7
3	320	1.5	6.7
4	315	1.3	6.1
5	240	1.[illegible]	5.3
6	235	1.1	3.9 5-7
7	230	.9	5.1
8	215	.9	3.9
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

LOGING VOLTS: 12.3 VOLTAGE SOURCE: Bat.
TOTAL AMPS: 13.2 TOTAL G/B RESISTANCE: 0.931
REMARKS:

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 03204	SJ	SJ	1	3	4	31	31N	12W	220133	4083029*	40	20	20
SJ 03866	SJ	SJ	1	2	3	29	31N	12W	221482	4084952	100		
SJ 04197 POD1	SJ	SJ		2	2	31	31N	12W	220763	4084003	195	140	55

Average Depth to Water: **80 feet**

Minimum Depth: **20 feet**

Maximum Depth: **140 feet**

Record Count: 3

PLSS Search:

Section(s): 32, 28, 29, 30, 31, 33 **Township:** 31N **Range:** 12W

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

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:RB21200
PM: Gary Turner
AFE: N74338

2. Originating Site:
State Com #3

3. Location of Material (Street Address, City, State or ULSTR):
UL P Section 32 T31N R12W; 36.852697, -108.118221

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 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 235/5 yd^3 / 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 8-8-2024, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Grey 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: OFT

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: Grey Crabtree TITLE: Envivo Manager DATE: 8/12/24
SIGNATURE: TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

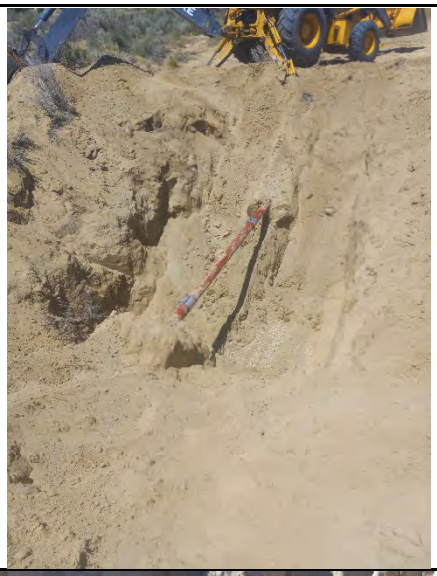
APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Ensolum Project No. 05A1226330

ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Gas Com #3 (08/05/24)
Ensolum Project No. 05A1226330

ENSOLUM

Photograph 4 Photograph Description: View of the in-process excavation activities.	
Photograph 5 Photograph Description: View of the in-process excavation activities.	
Photograph 6 Photograph Description: View of final excavation.	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Gas Com #3 (08/12/24)
Ensolum Project No. 05A1226330

ENSOLUM

Photograph 7 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Kyle Summers
To: Landon Daniell
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 373073
Date: Thursday, October 24, 2024 12:15:31 PM
Attachments: image002.png
image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, August 12, 2024 4:53 PM
To: Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 373073

[**EXTERNAL EMAIL**]

FYI

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

Enterprise Products

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, August 12, 2024 4:52 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 373073

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422558840.

The sampling event is expected to take place:

When: 08/14/2024 @ 09:00
Where: P-32-31N-12W 0 FNL 0 FEL (36.853315,-108.118563)

Additional Information: Ensolum, LLC

Additional Instructions: 36.853315,-108.118563

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: Kyle Summers
To: Landon Daniell
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 374551
Date: Thursday, October 24, 2024 12:16:22 PM
Attachments: image002.png
image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, August 16, 2024 7:34 AM
To: Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 374551

[**EXTERNAL EMAIL**]

FYI

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

Enterprise Products

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, August 16, 2024 7:32 AM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 374551

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422558840.

The sampling event is expected to take place:

When: 08/19/2024 @ 09:00
Where: P-32-31N-12W 0 FNL 0 FEL (36.853315,-108.118563)

Additional Information: Ensolum, LLC

Additional Instructions: 36.853315,-108.118563

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: Kyle Summers
To: Landon Daniell
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 376186
Date: Thursday, October 24, 2024 12:16:49 PM
Attachments: image002.png
image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, August 21, 2024 1:14 PM
To: Kyle Summers <ksummers@ensolum.com>; Landon Daniell <ldaniell@ensolum.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 376186

[**EXTERNAL EMAIL**]

FYI

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

Enterprise Products

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, August 21, 2024 1:13 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 376186

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422558840.

The sampling event is expected to take place:

When: 08/23/2024 @ 10:00
Where: P-32-31N-12W 0 FNL 0 FEL (36.853315,-108.118563)

Additional Information: Ensoulm, LLC.

Additional Instructions: 36.853315,-108.118563

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: Long, Thomas
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 378127
Date: Tuesday, August 27, 2024 7:40:25 AM

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422558840.

The sampling event is expected to take place:

When: 08/30/2024 @ 09:00
Where: P-32-31N-12W 0 FNL 0 FEL (36.853315,-108.118563)

Additional Information: Ensolum, LLC

Additional Instructions: 36.853315,-108.118563

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, February 3, 2025 2:32 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 408454

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2422558840, for the following reasons:

- **The Reclamation Report is denied. The OCD requires at least one (1) representative 5-point composite sample that will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation.**
- **The Reclamation deferral request is denied. Areas not reasonably needed for production or drilling activities will need to be reclaimed and revegetated as early as practicable.**
- **The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 408454.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Scott Rodgers
Environmental Specialist - A
505-469-1830
scott.rodgers@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, February 18, 2025 8:15 AM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 432929

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422558840.

The sampling event is expected to take place:

When: 02/20/2025 @ 09:00
Where: P-32-31N-12W 0 FNL 0 FEL (36.853315,-108.118563)

Additional Information: Ensolum, LLC

Additional Instructions: 36.853315,-108.118563

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
State Gas Com #3 (08/12/24)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Soil Samples Removed by Excavation													
S-9	08.14.24	C	12	<0.016	<0.033	<0.033	<0.066	ND	<3.3	<9.8	<49	ND	**840**
S-10	08.14.24	C	12	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.7	<49	ND	**1,100**
S-12	08.19.24	C	12 to 13.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	**990**
S-13	08.23.24	C	13.5 to 16	NA	NA	NA	NA	NA	NA	NA	NA	NA	**630**
Excavation Composite Soil Samples													
S-1	08.14.24	C	0 to 12	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.9	<49	ND	<60
S-2	08.14.24	C	0 to 12	<0.023	<0.045	<0.045	<0.090	ND	<4.5	<9.5	<47	ND	<60
S-3	08.14.24	C	0 to 12	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<9.8	<49	ND	<60
S-4	08.14.24	C	0 to 12	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<9.9	<50	ND	150
S-5	08.14.24	C	0 to 12	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.7	<49	ND	250
S-6	08.14.24	C	0 to 12	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.8	<49	ND	<60
S-7	08.14.24	C	0 to 12	<0.018	<0.036	<0.036	<0.073	ND	<3.6	15	<48	15	<60
S-8	08.14.24	C	0 to 12	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.7	<48	ND	<60
S-11	08.19.24	C	12 to 13.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	500
S-14	08.23.24	C	13.5 to 16.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	420
S-13a	08.30.24	C	16.5	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<9.8	<49	ND	<60
Backfill Composite Soil Sample													
BF-1	02.20.25	C	BF	<0.026	<0.052	<0.052	<0.10	ND	<5.2	<9.7	<48	ND	<60

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

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

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

NE = Not established

NA = Not analyzed

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

BF = Backfill Sample

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 8/21/2024 12:54:15 PM

JOB DESCRIPTION

State Com 3 August 2024

JOB NUMBER

885-9920-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
8/21/2024 12:54:15 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: State Com 3 August 2024

Laboratory Job ID: 885-9920-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 885-9920-1
Project: State Com 3 August 2024

Job ID: 885-9920-1 Eurofins Albuquerque

Job Narrative
885-9920-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/15/2024 6:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-1
Lab Sample ID: 885-9920-1
Date Collected: 08/14/24 09:00
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.8		mg/Kg		08/15/24 10:12	08/15/24 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*08/15/24 10:12*	*08/15/24 12:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		08/15/24 10:12	08/15/24 12:45	1
Ethylbenzene	ND		0.038		mg/Kg		08/15/24 10:12	08/15/24 12:45	1
Toluene	ND		0.038		mg/Kg		08/15/24 10:12	08/15/24 12:45	1
Xylenes, Total	ND		0.076		mg/Kg		08/15/24 10:12	08/15/24 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*48 - 145*	*08/15/24 10:12*	*08/15/24 12:45*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/15/24 08:43	08/15/24 11:54	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/15/24 08:43	08/15/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*08/15/24 08:43*	*08/15/24 11:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/15/24 10:00	08/15/24 13:08	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-2
Lab Sample ID: 885-9920-2
Date Collected: 08/14/24 09:05
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.5		mg/Kg		08/15/24 10:12	08/15/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*08/15/24 10:12*	*08/15/24 13:08*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 10:12	08/15/24 13:08	1
Ethylbenzene	ND		0.045		mg/Kg		08/15/24 10:12	08/15/24 13:08	1
Toluene	ND		0.045		mg/Kg		08/15/24 10:12	08/15/24 13:08	1
Xylenes, Total	ND		0.090		mg/Kg		08/15/24 10:12	08/15/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*48 - 145*	*08/15/24 10:12*	*08/15/24 13:08*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/15/24 08:43	08/15/24 12:07	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/15/24 08:43	08/15/24 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*08/15/24 08:43*	*08/15/24 12:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/15/24 10:00	08/15/24 13:21	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-3
Lab Sample ID: 885-9920-3
Date Collected: 08/14/24 09:10
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4		mg/Kg		08/15/24 10:12	08/15/24 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/15/24 10:12*	*08/15/24 13:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		08/15/24 10:12	08/15/24 13:32	1
Ethylbenzene	ND		0.034		mg/Kg		08/15/24 10:12	08/15/24 13:32	1
Toluene	ND		0.034		mg/Kg		08/15/24 10:12	08/15/24 13:32	1
Xylenes, Total	ND		0.069		mg/Kg		08/15/24 10:12	08/15/24 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*48 - 145*	*08/15/24 10:12*	*08/15/24 13:32*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/15/24 08:43	08/15/24 12:19	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/15/24 08:43	08/15/24 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*08/15/24 08:43*	*08/15/24 12:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/15/24 10:00	08/15/24 13:33	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-4
Lab Sample ID: 885-9920-4
Date Collected: 08/14/24 09:15
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5		mg/Kg		08/15/24 10:12	08/15/24 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*08/15/24 10:12*	*08/15/24 13:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		08/15/24 10:12	08/15/24 13:55	1
Ethylbenzene	ND		0.035		mg/Kg		08/15/24 10:12	08/15/24 13:55	1
Toluene	ND		0.035		mg/Kg		08/15/24 10:12	08/15/24 13:55	1
Xylenes, Total	ND		0.070		mg/Kg		08/15/24 10:12	08/15/24 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*08/15/24 10:12*	*08/15/24 13:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/15/24 08:43	08/15/24 12:32	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/15/24 08:43	08/15/24 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*08/15/24 08:43*	*08/15/24 12:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		08/15/24 10:00	08/15/24 13:45	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-5
Lab Sample ID: 885-9920-5
Date Collected: 08/14/24 09:20
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.6		mg/Kg		08/15/24 10:12	08/15/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*08/15/24 10:12*	*08/15/24 14:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		08/15/24 10:12	08/15/24 14:19	1
Ethylbenzene	ND		0.036		mg/Kg		08/15/24 10:12	08/15/24 14:19	1
Toluene	ND		0.036		mg/Kg		08/15/24 10:12	08/15/24 14:19	1
Xylenes, Total	ND		0.071		mg/Kg		08/15/24 10:12	08/15/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/15/24 10:12*	*08/15/24 14:19*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/15/24 08:43	08/15/24 12:58	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/15/24 08:43	08/15/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*08/15/24 08:43*	*08/15/24 12:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		59		mg/Kg		08/15/24 10:00	08/15/24 14:23	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-6
Lab Sample ID: 885-9920-6
Date Collected: 08/14/24 09:25
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4		mg/Kg		08/15/24 10:12	08/15/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*08/15/24 10:12*	*08/15/24 14:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		08/15/24 10:12	08/15/24 14:42	1
Ethylbenzene	ND		0.034		mg/Kg		08/15/24 10:12	08/15/24 14:42	1
Toluene	ND		0.034		mg/Kg		08/15/24 10:12	08/15/24 14:42	1
Xylenes, Total	ND		0.068		mg/Kg		08/15/24 10:12	08/15/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*08/15/24 10:12*	*08/15/24 14:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/15/24 08:43	08/15/24 13:10	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/15/24 08:43	08/15/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*121*		*62 - 134*	*08/15/24 08:43*	*08/15/24 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/15/24 10:00	08/15/24 14:35	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-7
Lab Sample ID: 885-9920-7
Date Collected: 08/14/24 09:30
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.6		mg/Kg		08/15/24 10:12	08/15/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/15/24 10:12*	*08/15/24 15:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		08/15/24 10:12	08/15/24 15:06	1
Ethylbenzene	ND		0.036		mg/Kg		08/15/24 10:12	08/15/24 15:06	1
Toluene	ND		0.036		mg/Kg		08/15/24 10:12	08/15/24 15:06	1
Xylenes, Total	ND		0.073		mg/Kg		08/15/24 10:12	08/15/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*48 - 145*	*08/15/24 10:12*	*08/15/24 15:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		9.5		mg/Kg		08/15/24 08:43	08/15/24 13:23	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/15/24 08:43	08/15/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*117*		*62 - 134*	*08/15/24 08:43*	*08/15/24 13:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/15/24 10:00	08/15/24 14:47	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-8
Lab Sample ID: 885-9920-8
Date Collected: 08/14/24 09:35
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.6		mg/Kg		08/15/24 10:34	08/15/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*08/15/24 10:34*	*08/15/24 12:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		08/15/24 10:34	08/15/24 12:55	1
Ethylbenzene	ND		0.036		mg/Kg		08/15/24 10:34	08/15/24 12:55	1
Toluene	ND		0.036		mg/Kg		08/15/24 10:34	08/15/24 12:55	1
Xylenes, Total	ND		0.071		mg/Kg		08/15/24 10:34	08/15/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 10:34*	*08/15/24 12:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/15/24 08:43	08/15/24 13:36	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/15/24 08:43	08/15/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*08/15/24 08:43*	*08/15/24 13:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/15/24 10:00	08/15/24 15:00	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-9
Lab Sample ID: 885-9920-9
Date Collected: 08/14/24 09:40
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3		mg/Kg		08/15/24 10:34	08/15/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*08/15/24 10:34*	*08/15/24 13:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016		mg/Kg		08/15/24 10:34	08/15/24 13:17	1
Ethylbenzene	ND		0.033		mg/Kg		08/15/24 10:34	08/15/24 13:17	1
Toluene	ND		0.033		mg/Kg		08/15/24 10:34	08/15/24 13:17	1
Xylenes, Total	ND		0.066		mg/Kg		08/15/24 10:34	08/15/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/15/24 10:34*	*08/15/24 13:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/15/24 08:43	08/15/24 13:49	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/15/24 08:43	08/15/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*08/15/24 08:43*	*08/15/24 13:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**840**		60		mg/Kg		08/15/24 10:00	08/15/24 15:12	20

Client Sample Results

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-10
Lab Sample ID: 885-9920-10
Date Collected: 08/14/24 09:45
Matrix: Solid
Date Received: 08/15/24 06:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4		mg/Kg		08/15/24 10:34	08/15/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*08/15/24 10:34*	*08/15/24 13:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		08/15/24 10:34	08/15/24 13:39	1
Ethylbenzene	ND		0.034		mg/Kg		08/15/24 10:34	08/15/24 13:39	1
Toluene	ND		0.034		mg/Kg		08/15/24 10:34	08/15/24 13:39	1
Xylenes, Total	ND		0.068		mg/Kg		08/15/24 10:34	08/15/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*	*08/15/24 10:34*	*08/15/24 13:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/15/24 08:43	08/15/24 14:01	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/15/24 08:43	08/15/24 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*120*		*62 - 134*	*08/15/24 08:43*	*08/15/24 14:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		60		mg/Kg		08/15/24 10:00	08/15/24 15:24	20

QC Sample Results

Client: Ensolum
Project/Site: State Com 3 August 2024

Job ID: 885-9920-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-10315/1-A
Matrix: Solid
Analysis Batch: 10369

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10315

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		08/15/24 10:12	08/15/24 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*08/15/24 10:12*	*08/15/24 12:21*	*1*

Lab Sample ID: LCS 885-10315/2-A
Matrix: Solid
Analysis Batch: 10369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10315

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	24.2		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*194*		*35 - 166*

Lab Sample ID: 885-9920-1 MS
Matrix: Solid
Analysis Batch: 10369

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 10315

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		19.0	21.0		mg/Kg		110	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*204*		*35 - 166*

Lab Sample ID: 885-9920-1 MSD
Matrix: Solid
Analysis Batch: 10369

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 10315

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		19.0	19.6		mg/Kg		103	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*208*		*35 - 166*

Lab Sample ID: MB 885-10320/1-A
Matrix: Solid
Analysis Batch: 10362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10320

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		08/15/24 10:34	08/15/24 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*08/15/24 10:34*	*08/15/24 12:33*	*1*

QC Sample Results

Client: Ensolum
Project/Site: State Com 3 August 2024

Job ID: 885-9920-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-10320/2-A
Matrix: Solid
Analysis Batch: 10362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10320

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	25.7		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*210*	*S1+*	*35 - 166*

Lab Sample ID: 885-9920-8 MS
Matrix: Solid
Analysis Batch: 10362

Client Sample ID: S-8
Prep Type: Total/NA
Prep Batch: 10320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		17.8	17.7		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*216*		*35 - 166*

Lab Sample ID: 885-9920-8 MSD
Matrix: Solid
Analysis Batch: 10362

Client Sample ID: S-8
Prep Type: Total/NA
Prep Batch: 10320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		17.8	18.2		mg/Kg		102	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*206*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-10315/1-A
Matrix: Solid
Analysis Batch: 10370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10315

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 10:12	08/15/24 12:21	1
Ethylbenzene	ND		0.050		mg/Kg		08/15/24 10:12	08/15/24 12:21	1
Toluene	ND		0.050		mg/Kg		08/15/24 10:12	08/15/24 12:21	1
Xylenes, Total	ND		0.10		mg/Kg		08/15/24 10:12	08/15/24 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*48 - 145*	*08/15/24 10:12*	*08/15/24 12:21*	*1*

QC Sample Results

Client: Ensolum
Project/Site: State Com 3 August 2024

Job ID: 885-9920-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-10315/3-A
Matrix: Solid
Analysis Batch: 10370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10315

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.932		mg/Kg		93	70 - 130		
Ethylbenzene			1.00	0.831		mg/Kg		83	70 - 130		
Toluene			1.00	0.868		mg/Kg		87	70 - 130		
Xylenes, Total			3.00	2.48		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*

Lab Sample ID: 885-9920-2 MS
Matrix: Solid
Analysis Batch: 10370

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 10315

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.901	0.817		mg/Kg		91	70 - 130		
Ethylbenzene	ND		0.901	0.767		mg/Kg		85	70 - 130		
Toluene	ND		0.901	0.773		mg/Kg		86	70 - 130		
Xylenes, Total	ND		2.70	2.28		mg/Kg		83	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*

Lab Sample ID: 885-9920-2 MSD
Matrix: Solid
Analysis Batch: 10370

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 10315

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.901	0.780		mg/Kg		87	70 - 130	5	20
Ethylbenzene	ND		0.901	0.733		mg/Kg		81	70 - 130	5	20
Toluene	ND		0.901	0.745		mg/Kg		83	70 - 130	4	20
Xylenes, Total	ND		2.70	2.22		mg/Kg		81	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*

Lab Sample ID: MB 885-10320/1-A
Matrix: Solid
Analysis Batch: 10363

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10320

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 10:34	08/15/24 12:33	1
Ethylbenzene	ND		0.050		mg/Kg		08/15/24 10:34	08/15/24 12:33	1
Toluene	ND		0.050		mg/Kg		08/15/24 10:34	08/15/24 12:33	1
Xylenes, Total	ND		0.10		mg/Kg		08/15/24 10:34	08/15/24 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*08/15/24 10:34*	*08/15/24 12:33*	*1*

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: State Com 3 August 2024

Job ID: 885-9920-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-10320/3-A
Matrix: Solid
Analysis Batch: 10363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10320

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.977		mg/Kg		98	70 - 130		
Ethylbenzene			1.00	1.00		mg/Kg		100	70 - 130		
Toluene			1.00	0.998		mg/Kg		100	70 - 130		
Xylenes, Total			3.00	2.99		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*

Lab Sample ID: 885-9920-9 MS
Matrix: Solid
Analysis Batch: 10363

Client Sample ID: S-9
Prep Type: Total/NA
Prep Batch: 10320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.659	0.644		mg/Kg		98	70 - 130		
Ethylbenzene	ND		0.659	0.652		mg/Kg		98	70 - 130		
Toluene	ND		0.659	0.657		mg/Kg		97	70 - 130		
Xylenes, Total	ND		1.98	1.97		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

Lab Sample ID: 885-9920-9 MSD
Matrix: Solid
Analysis Batch: 10363

Client Sample ID: S-9
Prep Type: Total/NA
Prep Batch: 10320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.659	0.628		mg/Kg		95	70 - 130	3	20
Ethylbenzene	ND		0.659	0.650		mg/Kg		97	70 - 130	0	20
Toluene	ND		0.659	0.654		mg/Kg		96	70 - 130	1	20
Xylenes, Total	ND		1.98	1.96		mg/Kg		96	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-10309/1-A
Matrix: Solid
Analysis Batch: 10303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10309

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/15/24 08:43	08/15/24 11:29	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/15/24 08:43	08/15/24 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/15/24 08:43*	*08/15/24 11:29*	*1*

QC Sample Results

Client: Ensolum
Project/Site: State Com 3 August 2024

Job ID: 885-9920-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-10309/2-A
Matrix: Solid
Analysis Batch: 10303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10309

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	51.8		mg/Kg		104	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-10312/1-A
Matrix: Solid
Analysis Batch: 10376

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10312

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/15/24 09:15	08/15/24 11:54	1

Lab Sample ID: LCS 885-10312/2-A
Matrix: Solid
Analysis Batch: 10376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10312

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.8		mg/Kg		96	90 - 110		

QC Association Summary

Client: Ensolum
Project/Site: State Com 3 August 2024

Job ID: 885-9920-1

GC VOA

Prep Batch: 10315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-1	S-1	Total/NA	Solid	5035	
885-9920-2	S-2	Total/NA	Solid	5035	
885-9920-3	S-3	Total/NA	Solid	5035	
885-9920-4	S-4	Total/NA	Solid	5035	
885-9920-5	S-5	Total/NA	Solid	5035	
885-9920-6	S-6	Total/NA	Solid	5035	
885-9920-7	S-7	Total/NA	Solid	5035	
MB 885-10315/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-10315/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-10315/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-9920-1 MS	S-1	Total/NA	Solid	5035	
885-9920-1 MSD	S-1	Total/NA	Solid	5035	
885-9920-2 MS	S-2	Total/NA	Solid	5035	
885-9920-2 MSD	S-2	Total/NA	Solid	5035	

Prep Batch: 10320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-8	S-8	Total/NA	Solid	5035	
885-9920-9	S-9	Total/NA	Solid	5035	
885-9920-10	S-10	Total/NA	Solid	5035	
MB 885-10320/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-10320/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-10320/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-9920-8 MS	S-8	Total/NA	Solid	5035	
885-9920-8 MSD	S-8	Total/NA	Solid	5035	
885-9920-9 MS	S-9	Total/NA	Solid	5035	
885-9920-9 MSD	S-9	Total/NA	Solid	5035	

Analysis Batch: 10362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-8	S-8	Total/NA	Solid	8015M/D	10320
885-9920-9	S-9	Total/NA	Solid	8015M/D	10320
885-9920-10	S-10	Total/NA	Solid	8015M/D	10320
MB 885-10320/1-A	Method Blank	Total/NA	Solid	8015M/D	10320
LCS 885-10320/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10320
885-9920-8 MS	S-8	Total/NA	Solid	8015M/D	10320
885-9920-8 MSD	S-8	Total/NA	Solid	8015M/D	10320

Analysis Batch: 10363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-8	S-8	Total/NA	Solid	8021B	10320
885-9920-9	S-9	Total/NA	Solid	8021B	10320
885-9920-10	S-10	Total/NA	Solid	8021B	10320
MB 885-10320/1-A	Method Blank	Total/NA	Solid	8021B	10320
LCS 885-10320/3-A	Lab Control Sample	Total/NA	Solid	8021B	10320
885-9920-9 MS	S-9	Total/NA	Solid	8021B	10320
885-9920-9 MSD	S-9	Total/NA	Solid	8021B	10320

Analysis Batch: 10369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-1	S-1	Total/NA	Solid	8015M/D	10315

QC Association Summary

Client: Ensolum
Project/Site: State Com 3 August 2024

Job ID: 885-9920-1

GC VOA (Continued)

Analysis Batch: 10369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-2	S-2	Total/NA	Solid	8015M/D	10315
885-9920-3	S-3	Total/NA	Solid	8015M/D	10315
885-9920-4	S-4	Total/NA	Solid	8015M/D	10315
885-9920-5	S-5	Total/NA	Solid	8015M/D	10315
885-9920-6	S-6	Total/NA	Solid	8015M/D	10315
885-9920-7	S-7	Total/NA	Solid	8015M/D	10315
MB 885-10315/1-A	Method Blank	Total/NA	Solid	8015M/D	10315
LCS 885-10315/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10315
885-9920-1 MS	S-1	Total/NA	Solid	8015M/D	10315
885-9920-1 MSD	S-1	Total/NA	Solid	8015M/D	10315

Analysis Batch: 10370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-1	S-1	Total/NA	Solid	8021B	10315
885-9920-2	S-2	Total/NA	Solid	8021B	10315
885-9920-3	S-3	Total/NA	Solid	8021B	10315
885-9920-4	S-4	Total/NA	Solid	8021B	10315
885-9920-5	S-5	Total/NA	Solid	8021B	10315
885-9920-6	S-6	Total/NA	Solid	8021B	10315
885-9920-7	S-7	Total/NA	Solid	8021B	10315
MB 885-10315/1-A	Method Blank	Total/NA	Solid	8021B	10315
LCS 885-10315/3-A	Lab Control Sample	Total/NA	Solid	8021B	10315
885-9920-2 MS	S-2	Total/NA	Solid	8021B	10315
885-9920-2 MSD	S-2	Total/NA	Solid	8021B	10315

GC Semi VOA

Analysis Batch: 10303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-1	S-1	Total/NA	Solid	8015M/D	10309
885-9920-2	S-2	Total/NA	Solid	8015M/D	10309
885-9920-3	S-3	Total/NA	Solid	8015M/D	10309
885-9920-4	S-4	Total/NA	Solid	8015M/D	10309
885-9920-5	S-5	Total/NA	Solid	8015M/D	10309
885-9920-6	S-6	Total/NA	Solid	8015M/D	10309
885-9920-7	S-7	Total/NA	Solid	8015M/D	10309
885-9920-8	S-8	Total/NA	Solid	8015M/D	10309
885-9920-9	S-9	Total/NA	Solid	8015M/D	10309
885-9920-10	S-10	Total/NA	Solid	8015M/D	10309
MB 885-10309/1-A	Method Blank	Total/NA	Solid	8015M/D	10309
LCS 885-10309/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10309

Prep Batch: 10309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-1	S-1	Total/NA	Solid	SHAKE	
885-9920-2	S-2	Total/NA	Solid	SHAKE	
885-9920-3	S-3	Total/NA	Solid	SHAKE	
885-9920-4	S-4	Total/NA	Solid	SHAKE	
885-9920-5	S-5	Total/NA	Solid	SHAKE	
885-9920-6	S-6	Total/NA	Solid	SHAKE	
885-9920-7	S-7	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ensolum
Project/Site: State Com 3 August 2024

Job ID: 885-9920-1

GC Semi VOA (Continued)

Prep Batch: 10309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-8	S-8	Total/NA	Solid	SHAKE	
885-9920-9	S-9	Total/NA	Solid	SHAKE	
885-9920-10	S-10	Total/NA	Solid	SHAKE	
MB 885-10309/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10309/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 10312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-1	S-1	Total/NA	Solid	300_Prep	
885-9920-2	S-2	Total/NA	Solid	300_Prep	
885-9920-3	S-3	Total/NA	Solid	300_Prep	
885-9920-4	S-4	Total/NA	Solid	300_Prep	
885-9920-5	S-5	Total/NA	Solid	300_Prep	
885-9920-6	S-6	Total/NA	Solid	300_Prep	
885-9920-7	S-7	Total/NA	Solid	300_Prep	
885-9920-8	S-8	Total/NA	Solid	300_Prep	
885-9920-9	S-9	Total/NA	Solid	300_Prep	
885-9920-10	S-10	Total/NA	Solid	300_Prep	
MB 885-10312/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-10312/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 10376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9920-1	S-1	Total/NA	Solid	300.0	10312
885-9920-2	S-2	Total/NA	Solid	300.0	10312
885-9920-3	S-3	Total/NA	Solid	300.0	10312
885-9920-4	S-4	Total/NA	Solid	300.0	10312
885-9920-5	S-5	Total/NA	Solid	300.0	10312
885-9920-6	S-6	Total/NA	Solid	300.0	10312
885-9920-7	S-7	Total/NA	Solid	300.0	10312
885-9920-8	S-8	Total/NA	Solid	300.0	10312
885-9920-9	S-9	Total/NA	Solid	300.0	10312
885-9920-10	S-10	Total/NA	Solid	300.0	10312
MB 885-10312/1-A	Method Blank	Total/NA	Solid	300.0	10312
LCS 885-10312/2-A	Lab Control Sample	Total/NA	Solid	300.0	10312

Lab Chronicle

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-1
Lab Sample ID: 885-9920-1
Date Collected: 08/14/24 09:00
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8015M/D		1	10369	JP	EET ALB	08/15/24 12:45
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8021B		1	10370	JP	EET ALB	08/15/24 12:45
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 11:54
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 13:08

Client Sample ID: S-2
Lab Sample ID: 885-9920-2
Date Collected: 08/14/24 09:05
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8015M/D		1	10369	JP	EET ALB	08/15/24 13:08
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8021B		1	10370	JP	EET ALB	08/15/24 13:08
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 12:07
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 13:21

Client Sample ID: S-3
Lab Sample ID: 885-9920-3
Date Collected: 08/14/24 09:10
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8015M/D		1	10369	JP	EET ALB	08/15/24 13:32
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8021B		1	10370	JP	EET ALB	08/15/24 13:32
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 12:19
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 13:33

Client Sample ID: S-4
Lab Sample ID: 885-9920-4
Date Collected: 08/14/24 09:15
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8015M/D		1	10369	JP	EET ALB	08/15/24 13:55

Lab Chronicle

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-4
Lab Sample ID: 885-9920-4
Date Collected: 08/14/24 09:15
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8021B		1	10370	JP	EET ALB	08/15/24 13:55
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 12:32
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 13:45

Client Sample ID: S-5
Lab Sample ID: 885-9920-5
Date Collected: 08/14/24 09:20
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8015M/D		1	10369	JP	EET ALB	08/15/24 14:19
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8021B		1	10370	JP	EET ALB	08/15/24 14:19
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 12:58
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 14:23

Client Sample ID: S-6
Lab Sample ID: 885-9920-6
Date Collected: 08/14/24 09:25
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8015M/D		1	10369	JP	EET ALB	08/15/24 14:42
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8021B		1	10370	JP	EET ALB	08/15/24 14:42
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 13:10
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 14:35

Client Sample ID: S-7
Lab Sample ID: 885-9920-7
Date Collected: 08/14/24 09:30
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8015M/D		1	10369	JP	EET ALB	08/15/24 15:06
Total/NA	Prep	5035			10315	AT	EET ALB	08/15/24 10:12
Total/NA	Analysis	8021B		1	10370	JP	EET ALB	08/15/24 15:06

Lab Chronicle

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-7
Lab Sample ID: 885-9920-7
Date Collected: 08/14/24 09:30
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 13:23
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 14:47

Client Sample ID: S-8
Lab Sample ID: 885-9920-8
Date Collected: 08/14/24 09:35
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10320	AT	EET ALB	08/15/24 10:34
Total/NA	Analysis	8015M/D		1	10362	AT	EET ALB	08/15/24 12:55
Total/NA	Prep	5035			10320	AT	EET ALB	08/15/24 10:34
Total/NA	Analysis	8021B		1	10363	AT	EET ALB	08/15/24 12:55
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 13:36
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 15:00

Client Sample ID: S-9
Lab Sample ID: 885-9920-9
Date Collected: 08/14/24 09:40
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10320	AT	EET ALB	08/15/24 10:34
Total/NA	Analysis	8015M/D		1	10362	AT	EET ALB	08/15/24 13:17
Total/NA	Prep	5035			10320	AT	EET ALB	08/15/24 10:34
Total/NA	Analysis	8021B		1	10363	AT	EET ALB	08/15/24 13:17
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 13:49
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 15:12

Client Sample ID: S-10
Lab Sample ID: 885-9920-10
Date Collected: 08/14/24 09:45
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			10320	AT	EET ALB	08/15/24 10:34
Total/NA	Analysis	8015M/D		1	10362	AT	EET ALB	08/15/24 13:39
Total/NA	Prep	5035			10320	AT	EET ALB	08/15/24 10:34
Total/NA	Analysis	8021B		1	10363	AT	EET ALB	08/15/24 13:39
Total/NA	Prep	SHAKE			10309	KR	EET ALB	08/15/24 08:43
Total/NA	Analysis	8015M/D		1	10303	KR	EET ALB	08/15/24 14:01

Lab Chronicle

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Client Sample ID: S-10
Lab Sample ID: 885-9920-10

Date Collected: 08/14/24 09:45
Matrix: Solid

Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 10:00
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 15:24

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-9920-1
Project/Site: State Com 3 August 2024

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Ensolum

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

Phone #:

email or Fax#: ksummers@ensolum.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush Same Day

Project Name:
State Com 3 August 2024

Project #:
05A1226330 See Notes

Project Manager:
K. Summers

Sampler: K. Summers

On Ice: ☒ Yes ☐ No mojo

# of Coolers: 1

Cooler Temp(including CF): 2.8 +0.3 = 3.1 (°C)

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

885-9920 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/14/24	0900	S	S-1	1x4oz.	Cool	1	X	X					X			
8/14/24	0905	S	S-2			2	X	X					X			
8/14/24	0910	S	S-3			3	X	X					X			
8/14/24	0915	S	S-4			4	X	X					X			
8/14/24	0920	S	S-5			5	X	X					X			
8/14/24	0925	S	S-6			6	X	X					X			
8/14/24	0930	S	S-7			7	X	X					X			
8/14/24	0935	S	S-8			8	X	X					X			
8/14/24	0940	S	S-9			9	X	X					X			
8/14/24	0945	S	S-10			10	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/14/24	1210				8/14/24	1210
8/14/24	1800			courier	8/15/24	4:10

Remarks: Bill Tom Long PayKey: ~~AFE~~ RB21200
AFE: N74338

SAME Day

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-9920-1

Login Number: 9920 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 8/23/2024 1:20:24 PM

JOB DESCRIPTION

State Gas Com #3 (8/5/24)

JOB NUMBER

885-10169-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
8/23/2024 1:20:24 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: State Gas Com #3 (8/5/24)

Laboratory Job ID: 885-10169-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-10169-1
Project/Site: State Gas Com #3 (8/5/24)

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 885-10169-1
Project: State Gas Com #3 (8/5/24)

Job ID: 885-10169-1 Eurofins Albuquerque

Job Narrative
885-10169-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/20/2024 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 885-10169-1
Project/Site: State Gas Com #3 (8/5/24)

Client Sample ID: S-11
Lab Sample ID: 885-10169-1
Date Collected: 08/19/24 10:10
Matrix: Solid
Date Received: 08/20/24 07:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500		60		mg/Kg		08/20/24 09:45	08/20/24 11:21	20

Client Sample Results

Client: Ensolum
Job ID: 885-10169-1
Project/Site: State Gas Com #3 (8/5/24)

Client Sample ID: S-12
Lab Sample ID: 885-10169-2
Date Collected: 08/19/24 10:20
Matrix: Solid
Date Received: 08/20/24 07:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	990		60		mg/Kg		08/20/24 09:45	08/20/24 11:33	20

QC Sample Results

Client: Ensolum
Job ID: 885-10169-1
Project/Site: State Gas Com #3 (8/5/24)

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-10583/1-A
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10583

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/20/24 09:45	08/20/24 10:51	1

Lab Sample ID: LCS 885-10583/2-A
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10583

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.8		mg/Kg		99	90 - 110		

QC Association Summary

Client: Ensolum
Job ID: 885-10169-1
Project/Site: State Gas Com #3 (8/5/24)

HPLC/IC

Prep Batch: 10583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10169-1	S-11	Total/NA	Solid	300_Prep	
885-10169-2	S-12	Total/NA	Solid	300_Prep	
MB 885-10583/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-10583/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 10616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10169-1	S-11	Total/NA	Solid	300.0	10583
885-10169-2	S-12	Total/NA	Solid	300.0	10583
MB 885-10583/1-A	Method Blank	Total/NA	Solid	300.0	10583
LCS 885-10583/2-A	Lab Control Sample	Total/NA	Solid	300.0	10583

Lab Chronicle

Client: Ensolum
Job ID: 885-10169-1
Project/Site: State Gas Com #3 (8/5/24)

Client Sample ID: S-11
Lab Sample ID: 885-10169-1
Date Collected: 08/19/24 10:10
Matrix: Solid
Date Received: 08/20/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 11:21

Client Sample ID: S-12
Lab Sample ID: 885-10169-2
Date Collected: 08/19/24 10:20
Matrix: Solid
Date Received: 08/20/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 11:33

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-10169-1
Project/Site: State Gas Com #3 (8/5/24)

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: ksummers@ensolumcom

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

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

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

Project Name: State Gas Com #3 (8/5/24)

Project #: SEE NOTES

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.4 - 0.1 = 4.3 (°C) mojo

HALL ENVIRONMENTAL ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 8710
Tel. 505-345-3975 Fax 505-345-4107

885-10169 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/19/24	1010	S	S-11	4oz jar	Cool	1							X			
8/19/24	1020	S	S-12	4oz jar	Cool	2							X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/19/24	1551				8/19/24	1551
8/19/24	1722			courier	8/20/24	7:30

Remarks:
PM Tom Long
Pay key: RB22200
Non AFE #N74338
Same Day

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-10169-1

Login Number: 10169 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 8/29/2024 3:25:06 PM

JOB DESCRIPTION

State Gas Com #3

JOB NUMBER

885-10539-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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8/29/2024 3:25:06 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: State Gas Com #3

Laboratory Job ID: 885-10539-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-10539-1
Project/Site: State Gas Com #3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: State Gas Com #3

Job ID: 885-10539-1

Job ID: 885-10539-1 Eurofins Albuquerque

Job Narrative
885-10539-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/24/2024 6:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 885-10539-1
Project/Site: State Gas Com #3

Client Sample ID: S-13
Lab Sample ID: 885-10539-1
Date Collected: 08/23/24 10:00
Matrix: Solid
Date Received: 08/24/24 06:25

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		60		mg/Kg		08/26/24 14:09	08/26/24 15:12	20

Client Sample Results

Client: Ensolum
Job ID: 885-10539-1
Project/Site: State Gas Com #3

Client Sample ID: S-14
Lab Sample ID: 885-10539-2
Date Collected: 08/23/24 10:05
Matrix: Solid
Date Received: 08/24/24 06:25

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		60		mg/Kg		08/26/24 14:09	08/26/24 15:25	20

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3

Job ID: 885-10539-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-11015/1-A
Matrix: Solid
Analysis Batch: 11043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11015

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/26/24 14:09	08/26/24 14:45	1

Lab Sample ID: LCS 885-11015/2-A
Matrix: Solid
Analysis Batch: 11043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11015

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.2		mg/Kg		97	90 - 110		

Lab Sample ID: MB 885-11043/6
Matrix: Solid
Analysis Batch: 11043

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			08/26/24 09:20	1

Lab Sample ID: MRL 885-11043/5
Matrix: Solid
Analysis Batch: 11043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.516		mg/L		103	50 - 150		

QC Association Summary

Client: Ensolum
Job ID: 885-10539-1
Project/Site: State Gas Com #3

HPLC/IC

Prep Batch: 11015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10539-1	S-13	Total/NA	Solid	300_Prep	
885-10539-2	S-14	Total/NA	Solid	300_Prep	
MB 885-11015/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11015/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 11043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10539-1	S-13	Total/NA	Solid	300.0	11015
885-10539-2	S-14	Total/NA	Solid	300.0	11015
MB 885-11015/1-A	Method Blank	Total/NA	Solid	300.0	11015
MB 885-11043/6	Method Blank	Total/NA	Solid	300.0	
LCS 885-11015/2-A	Lab Control Sample	Total/NA	Solid	300.0	11015
MRL 885-11043/5	Lab Control Sample	Total/NA	Solid	300.0	

Lab Chronicle

Client: Ensolum
Job ID: 885-10539-1
Project/Site: State Gas Com #3

Client Sample ID: S-13
Lab Sample ID: 885-10539-1
Date Collected: 08/23/24 10:00
Matrix: Solid
Date Received: 08/24/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			11015	JT	EET ALB	08/26/24 14:09
Total/NA	Analysis	300.0		20	11043	JT	EET ALB	08/26/24 15:12

Client Sample ID: S-14
Lab Sample ID: 885-10539-2
Date Collected: 08/23/24 10:05
Matrix: Solid
Date Received: 08/24/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			11015	JT	EET ALB	08/26/24 14:09
Total/NA	Analysis	300.0		20	11043	JT	EET ALB	08/26/24 15:25

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-10539-1
Project/Site: State Gas Com #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: ksummers@ensolum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 1 DAY Same Day

Project Name: State Gas Com #3

Project #: SEE NOTES K. Summers LD

Project Manager: L. Daniell LD

Sampler: K. Summers

On Ice: ☑ Yes ☐ No chucky

# of Coolers: 1

Cooler Temp(including CF): 4.3 +0.2 = 4.5 (°C)

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

885-10539 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/23/24	1000	S	S-13	1402 jar	Cool								X			
8/23/24	1005	S	S-14	1402 jar	Cool								X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/23/24	1127				8/23/24	1127
8/23/24	1714			courier	8/24/24	6:25

Remarks: PM Tom Long
PayKey: RB21200
Non AFE # N74015
Same Day

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-10539-1

Login Number: 10539 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 9/9/2024 2:34:03 PM

JOB DESCRIPTION

State Gas Com #3

JOB NUMBER

885-10984-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
9/9/2024 2:34:03 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: State Gas Com #3

Laboratory Job ID: 885-10984-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-10984-1
Project/Site: State Gas Com #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 885-10984-1
Project: State Gas Com #3

Job ID: 885-10984-1 Eurofins Albuquerque

Job Narrative
885-10984-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 8/31/2024 6:45 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 885-10984-1
Project/Site: State Gas Com #3

Client Sample ID: S-13a
Lab Sample ID: 885-10984-1
Date Collected: 08/30/24 09:00
Matrix: Solid
Date Received: 08/31/24 06:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.9		mg/Kg		09/03/24 09:17	09/03/24 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*09/03/24 09:17*	*09/03/24 12:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		09/03/24 09:17	09/03/24 12:03	1
Ethylbenzene	ND		0.039		mg/Kg		09/03/24 09:17	09/03/24 12:03	1
Toluene	ND		0.039		mg/Kg		09/03/24 09:17	09/03/24 12:03	1
Xylenes, Total	ND		0.078		mg/Kg		09/03/24 09:17	09/03/24 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/03/24 09:17*	*09/03/24 12:03*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/03/24 09:16	09/03/24 11:19	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/03/24 09:16	09/03/24 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/03/24 09:16*	*09/03/24 11:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/03/24 09:39	09/03/24 12:29	20

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3

Job ID: 885-10984-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11497/1-A
Matrix: Solid
Analysis Batch: 11522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11497

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/03/24 09:17	09/03/24 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 09:17*	*09/03/24 11:42*	*1*

Lab Sample ID: LCS 885-11497/2-A
Matrix: Solid
Analysis Batch: 11522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11497

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	24.6		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*35 - 166*

Lab Sample ID: 885-10984-1 MS
Matrix: Solid
Analysis Batch: 11522

Client Sample ID: S-13a
Prep Type: Total/NA
Prep Batch: 11497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		19.4	19.4		mg/Kg		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*	*S1+*	*35 - 166*

Lab Sample ID: 885-10984-1 MSD
Matrix: Solid
Analysis Batch: 11522

Client Sample ID: S-13a
Prep Type: Total/NA
Prep Batch: 11497

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		19.4	19.3		mg/Kg		100	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11497/1-A
Matrix: Solid
Analysis Batch: 11523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11497

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 09:17	09/03/24 11:42	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 09:17	09/03/24 11:42	1
Toluene	ND		0.050		mg/Kg		09/03/24 09:17	09/03/24 11:42	1

QC Sample Results

Client: Ensolum
Job ID: 885-10984-1
Project/Site: State Gas Com #3

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-11497/1-A
Matrix: Solid
Analysis Batch: 11523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11497

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 09:17	09/03/24 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/03/24 09:17*	*09/03/24 11:42*	*1*

Lab Sample ID: LCS 885-11497/3-A
Matrix: Solid
Analysis Batch: 11523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11497

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.03		mg/Kg		103	70 - 130		
Ethylbenzene			1.00	1.06		mg/Kg		106	70 - 130		
Toluene			1.00	1.05		mg/Kg		105	70 - 130		
Xylenes, Total			3.00	3.14		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-11494/1-A
Matrix: Solid
Analysis Batch: 11504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11494

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/03/24 09:16	09/03/24 10:58	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/03/24 09:16	09/03/24 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*09/03/24 09:16*	*09/03/24 10:58*	*1*

Lab Sample ID: LCS 885-11494/2-A
Matrix: Solid
Analysis Batch: 11504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	39.8		mg/Kg		80	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3

Job ID: 885-10984-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-11501/1-A
Matrix: Solid
Analysis Batch: 11531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11501

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/03/24 09:39	09/03/24 12:04	1

Lab Sample ID: LCS 885-11501/2-A
Matrix: Solid
Analysis Batch: 11531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.3		mg/Kg		94	90 - 110		

QC Association Summary

Client: Ensolum Job ID: 885-10984-1
Project/Site: State Gas Com #3

GC VOA

Prep Batch: 11497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10984-1	S-13a	Total/NA	Solid	5035	
MB 885-11497/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-11497/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-11497/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-10984-1 MS	S-13a	Total/NA	Solid	5035	
885-10984-1 MSD	S-13a	Total/NA	Solid	5035	

Analysis Batch: 11522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10984-1	S-13a	Total/NA	Solid	8015M/D	11497
MB 885-11497/1-A	Method Blank	Total/NA	Solid	8015M/D	11497
LCS 885-11497/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11497
885-10984-1 MS	S-13a	Total/NA	Solid	8015M/D	11497
885-10984-1 MSD	S-13a	Total/NA	Solid	8015M/D	11497

Analysis Batch: 11523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10984-1	S-13a	Total/NA	Solid	8021B	11497
MB 885-11497/1-A	Method Blank	Total/NA	Solid	8021B	11497
LCS 885-11497/3-A	Lab Control Sample	Total/NA	Solid	8021B	11497

GC Semi VOA

Prep Batch: 11494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10984-1	S-13a	Total/NA	Solid	SHAKE	
MB 885-11494/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11494/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 11504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10984-1	S-13a	Total/NA	Solid	8015M/D	11494
MB 885-11494/1-A	Method Blank	Total/NA	Solid	8015M/D	11494
LCS 885-11494/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11494

HPLC/IC

Prep Batch: 11501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10984-1	S-13a	Total/NA	Solid	300_Prep	
MB 885-11501/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11501/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 11531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10984-1	S-13a	Total/NA	Solid	300.0	11501
MB 885-11501/1-A	Method Blank	Total/NA	Solid	300.0	11501
LCS 885-11501/2-A	Lab Control Sample	Total/NA	Solid	300.0	11501

Lab Chronicle

Client: Ensolum
Job ID: 885-10984-1
Project/Site: State Gas Com #3

Client Sample ID: S-13a
Lab Sample ID: 885-10984-1
Date Collected: 08/30/24 09:00
Matrix: Solid
Date Received: 08/31/24 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			11497	AT	EET ALB	09/03/24 09:17
Total/NA	Analysis	8015M/D		1	11522	AT	EET ALB	09/03/24 12:03
Total/NA	Prep	5035			11497	AT	EET ALB	09/03/24 09:17
Total/NA	Analysis	8021B		1	11523	AT	EET ALB	09/03/24 12:03
Total/NA	Prep	SHAKE			11494	EM	EET ALB	09/03/24 09:16
Total/NA	Analysis	8015M/D		1	11504	EM	EET ALB	09/03/24 11:19
Total/NA	Prep	300_Prep			11501	EH	EET ALB	09/03/24 09:39
Total/NA	Analysis	300.0		20	11531	EH	EET ALB	09/03/24 12:29

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-10984-1
Project/Site: State Gas Com #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Ensolum LLC

Mailing Address: 1606 S Rio Grande
Aztec NM 87410

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 100%
☐ Standard ☒ Rush 9-3-24

Project Name: August 12/24
State Gas Com #3

Project #:

Project Manager:
K Summers

Sampler: CJ Aponti

On Ice: ☑ Yes ☐ No 4.0g

# of Coolers: 1

Cooler Temp(including CF): 1.4 ± 0 = 1.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LAB
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM
Tel. 505-345-3975 Fax 505-345-4107
885-10984 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/30	900	S	S-13 a	1 4oz Jar	Cool	1	✓	✓					✓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/30/24	1014				8/30/24	1014
8/30/24	1300			courier	8/31/24	6:45

Remarks:
Tom Long
R13 21200

Same Day

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-10984-1

Login Number: 10984 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 2/21/2025 3:23:22 PM

JOB DESCRIPTION

State Gas Com #3 (Aug 2024)

JOB NUMBER

885-20276-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
2/21/2025 3:23:22 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: State Gas Com #3 (Aug 2024)

Laboratory Job ID: 885-20276-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 885-20276-1
Project: State Gas Com #3 (Aug 2024)

Job ID: 885-20276-1 Eurofins Albuquerque

Job Narrative
885-20276-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 2/21/2025 7:18 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Client Sample ID: BF-1
Lab Sample ID: 885-20276-1
Date Collected: 02/20/25 09:00
Matrix: Solid
Date Received: 02/21/25 07:18

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.2		mg/Kg		02/21/25 09:03	02/21/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*02/21/25 09:03*	*02/21/25 11:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.026		mg/Kg		02/21/25 09:03	02/21/25 11:46	1
Ethylbenzene	ND		0.052		mg/Kg		02/21/25 09:03	02/21/25 11:46	1
Toluene	ND		0.052		mg/Kg		02/21/25 09:03	02/21/25 11:46	1
Xylenes, Total	ND		0.10		mg/Kg		02/21/25 09:03	02/21/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*02/21/25 09:03*	*02/21/25 11:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		02/21/25 09:05	02/21/25 11:10	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/21/25 09:05	02/21/25 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*02/21/25 09:05*	*02/21/25 11:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/21/25 09:32	02/21/25 10:36	20

QC Sample Results

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-21220/1-A
Matrix: Solid
Analysis Batch: 21222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21220

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		02/21/25 09:03	02/21/25 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*02/21/25 09:03*	*02/21/25 11:22*	*1*

Lab Sample ID: LCS 885-21220/2-A
Matrix: Solid
Analysis Batch: 21222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21220

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	22.2		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*186*		*35 - 166*

Lab Sample ID: 885-20276-1 MS
Matrix: Solid
Analysis Batch: 21222

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		26.0	25.0		mg/Kg		96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*		*35 - 166*

Lab Sample ID: 885-20276-1 MSD
Matrix: Solid
Analysis Batch: 21222

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		26.0	24.0		mg/Kg		92	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*199*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-21220/1-A
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21220

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/21/25 09:03	02/21/25 11:22	1
Ethylbenzene	ND		0.050		mg/Kg		02/21/25 09:03	02/21/25 11:22	1
Toluene	ND		0.050		mg/Kg		02/21/25 09:03	02/21/25 11:22	1

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3 (Aug 2024)

Job ID: 885-20276-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-21220/1-A
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21220

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		02/21/25 09:03	02/21/25 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*02/21/25 09:03*	*02/21/25 11:22*	*1*

Lab Sample ID: LCS 885-21220/3-A
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21220

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.901		mg/Kg		90	70 - 130		
Ethylbenzene			1.00	0.886		mg/Kg		89	70 - 130		
Toluene			1.00	0.894		mg/Kg		89	70 - 130		
Xylenes, Total			3.00	2.70		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*

Lab Sample ID: 885-20276-1 MS
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		1.04	0.999		mg/Kg		96	70 - 130		
Ethylbenzene	ND		1.04	1.00		mg/Kg		96	70 - 130		
Toluene	ND		1.04	1.00		mg/Kg		96	70 - 130		
Xylenes, Total	ND		3.12	3.06		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*

Lab Sample ID: 885-20276-1 MSD
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		1.04	0.970		mg/Kg		93	70 - 130	3	20
Ethylbenzene	ND		1.04	0.991		mg/Kg		95	70 - 130	1	20
Toluene	ND		1.04	0.989		mg/Kg		95	70 - 130	1	20
Xylenes, Total	ND		3.12	3.04		mg/Kg		97	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

QC Sample Results

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-21221/1-A
Matrix: Solid
Analysis Batch: 21212
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21221

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/21/25 09:05	02/21/25 10:49	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/21/25 09:05	02/21/25 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*02/21/25 09:05*	*02/21/25 10:49*	*1*

Lab Sample ID: LCS 885-21221/2-A
Matrix: Solid
Analysis Batch: 21212
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21221

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	50.5		mg/Kg		101	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*

Lab Sample ID: 885-20276-1 MS
Matrix: Solid
Analysis Batch: 21212
Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		48.6	47.9		mg/Kg		99	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Lab Sample ID: 885-20276-1 MSD
Matrix: Solid
Analysis Batch: 21212
Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.6	47.9		mg/Kg		99	44 - 136	0	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-21228/1-A
Matrix: Solid
Analysis Batch: 21219
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21228

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		02/21/25 09:32	02/21/25 10:15	1

QC Sample Results

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-21228/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 21219
Prep Batch: 21228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.9		mg/Kg		96	90 - 110		

QC Association Summary

Client: Ensolum Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

GC VOA

Prep Batch: 21220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	5035	
MB 885-21220/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-21220/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-21220/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-20276-1 MS	BF-1	Total/NA	Solid	5035	
885-20276-1 MS	BF-1	Total/NA	Solid	5035	
885-20276-1 MSD	BF-1	Total/NA	Solid	5035	
885-20276-1 MSD	BF-1	Total/NA	Solid	5035	

Analysis Batch: 21222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	8015M/D	21220
MB 885-21220/1-A	Method Blank	Total/NA	Solid	8015M/D	21220
LCS 885-21220/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	21220
885-20276-1 MS	BF-1	Total/NA	Solid	8015M/D	21220
885-20276-1 MSD	BF-1	Total/NA	Solid	8015M/D	21220

Analysis Batch: 21223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	8021B	21220
MB 885-21220/1-A	Method Blank	Total/NA	Solid	8021B	21220
LCS 885-21220/3-A	Lab Control Sample	Total/NA	Solid	8021B	21220
885-20276-1 MS	BF-1	Total/NA	Solid	8021B	21220
885-20276-1 MSD	BF-1	Total/NA	Solid	8021B	21220

GC Semi VOA

Analysis Batch: 21212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	8015M/D	21221
MB 885-21221/1-A	Method Blank	Total/NA	Solid	8015M/D	21221
LCS 885-21221/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	21221
885-20276-1 MS	BF-1	Total/NA	Solid	8015M/D	21221
885-20276-1 MSD	BF-1	Total/NA	Solid	8015M/D	21221

Prep Batch: 21221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	SHAKE	
MB 885-21221/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-21221/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-20276-1 MS	BF-1	Total/NA	Solid	SHAKE	
885-20276-1 MSD	BF-1	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 21219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	300.0	21228
MB 885-21228/1-A	Method Blank	Total/NA	Solid	300.0	21228
LCS 885-21228/2-A	Lab Control Sample	Total/NA	Solid	300.0	21228

QC Association Summary

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

HPLC/IC

Prep Batch: 21228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	300_Prep	
MB 885-21228/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-21228/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Client Sample ID: BF-1
Lab Sample ID: 885-20276-1
Date Collected: 02/20/25 09:00
Matrix: Solid
Date Received: 02/21/25 07:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			21220	AT	EET ALB	02/21/25 09:03
Total/NA	Analysis	8015M/D		1	21222	AT	EET ALB	02/21/25 11:46
Total/NA	Prep	5035			21220	AT	EET ALB	02/21/25 09:03
Total/NA	Analysis	8021B		1	21223	AT	EET ALB	02/21/25 11:46
Total/NA	Prep	SHAKE			21221	EM	EET ALB	02/21/25 09:05
Total/NA	Analysis	8015M/D		1	21212	EM	EET ALB	02/21/25 11:10
Total/NA	Prep	300_Prep			21228	DL	EET ALB	02/21/25 09:32
Total/NA	Analysis	300.0		20	21219	DL	EET ALB	02/21/25 10:36

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: ksummers@ensolum.com

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

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

Turn-Around Time: Same Day
☐ Standard ☒ Rush 100% Final at same time

Project Name: State Gas Com #3 (Aug 2024)

Project #: SEE NOTES

Project Manager: K. Summers

Sampler: L. Daniel

On Ice: ☐ Yes ☐ No

# of Coolers: 1 Yeti

Cooler Temp(including CF): 0.4-0=0.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABO
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 871
Tel. 505-345-3975 Fax 505-345-4107

885-20276 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
2/20/25	9:00	S	BF-1	1402 jar	Cool		X	X					X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/20/25	1521				2/20/25	1521
2/20/25	1919			courier	2/21/25	7:18

Remarks: PM Tom Long
RB21200
N74015

Same Day Final Lab Report w/ prelim

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.

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-20276-1

Login Number: 20276 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 2/21/2025 3:23:22 PM

JOB DESCRIPTION

State Gas Com #3 (Aug 2024)

JOB NUMBER

885-20276-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
2/21/2025 3:23:22 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: State Gas Com #3 (Aug 2024)

Laboratory Job ID: 885-20276-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 885-20276-1
Project: State Gas Com #3 (Aug 2024)

Job ID: 885-20276-1 Eurofins Albuquerque

Job Narrative
885-20276-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 2/21/2025 7:18 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Client Sample ID: BF-1
Lab Sample ID: 885-20276-1
Date Collected: 02/20/25 09:00
Matrix: Solid
Date Received: 02/21/25 07:18

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.2		mg/Kg		02/21/25 09:03	02/21/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*02/21/25 09:03*	*02/21/25 11:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.026		mg/Kg		02/21/25 09:03	02/21/25 11:46	1
Ethylbenzene	ND		0.052		mg/Kg		02/21/25 09:03	02/21/25 11:46	1
Toluene	ND		0.052		mg/Kg		02/21/25 09:03	02/21/25 11:46	1
Xylenes, Total	ND		0.10		mg/Kg		02/21/25 09:03	02/21/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*02/21/25 09:03*	*02/21/25 11:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		02/21/25 09:05	02/21/25 11:10	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/21/25 09:05	02/21/25 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*02/21/25 09:05*	*02/21/25 11:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/21/25 09:32	02/21/25 10:36	20

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3 (Aug 2024)

Job ID: 885-20276-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-21220/1-A
Matrix: Solid
Analysis Batch: 21222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21220

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		02/21/25 09:03	02/21/25 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*02/21/25 09:03*	*02/21/25 11:22*	*1*

Lab Sample ID: LCS 885-21220/2-A
Matrix: Solid
Analysis Batch: 21222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21220

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	22.2		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*186*		*35 - 166*

Lab Sample ID: 885-20276-1 MS
Matrix: Solid
Analysis Batch: 21222

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		26.0	25.0		mg/Kg		96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*		*35 - 166*

Lab Sample ID: 885-20276-1 MSD
Matrix: Solid
Analysis Batch: 21222

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		26.0	24.0		mg/Kg		92	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*199*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-21220/1-A
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21220

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/21/25 09:03	02/21/25 11:22	1
Ethylbenzene	ND		0.050		mg/Kg		02/21/25 09:03	02/21/25 11:22	1
Toluene	ND		0.050		mg/Kg		02/21/25 09:03	02/21/25 11:22	1

QC Sample Results

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-21220/1-A
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21220

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		02/21/25 09:03	02/21/25 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*02/21/25 09:03*	*02/21/25 11:22*	*1*

Lab Sample ID: LCS 885-21220/3-A
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21220

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.901		mg/Kg		90	70 - 130		
Ethylbenzene			1.00	0.886		mg/Kg		89	70 - 130		
Toluene			1.00	0.894		mg/Kg		89	70 - 130		
Xylenes, Total			3.00	2.70		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*

Lab Sample ID: 885-20276-1 MS
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		1.04	0.999		mg/Kg		96	70 - 130		
Ethylbenzene	ND		1.04	1.00		mg/Kg		96	70 - 130		
Toluene	ND		1.04	1.00		mg/Kg		96	70 - 130		
Xylenes, Total	ND		3.12	3.06		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*

Lab Sample ID: 885-20276-1 MSD
Matrix: Solid
Analysis Batch: 21223

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		1.04	0.970		mg/Kg		93	70 - 130	3	20
Ethylbenzene	ND		1.04	0.991		mg/Kg		95	70 - 130	1	20
Toluene	ND		1.04	0.989		mg/Kg		95	70 - 130	1	20
Xylenes, Total	ND		3.12	3.04		mg/Kg		97	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3 (Aug 2024)

Job ID: 885-20276-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-21221/1-A
Matrix: Solid
Analysis Batch: 21212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21221

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/21/25 09:05	02/21/25 10:49	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/21/25 09:05	02/21/25 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*02/21/25 09:05*	*02/21/25 10:49*	*1*

Lab Sample ID: LCS 885-21221/2-A
Matrix: Solid
Analysis Batch: 21212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21221

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	50.5		mg/Kg		101	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*

Lab Sample ID: 885-20276-1 MS
Matrix: Solid
Analysis Batch: 21212

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		48.6	47.9		mg/Kg		99	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Lab Sample ID: 885-20276-1 MSD
Matrix: Solid
Analysis Batch: 21212

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 21221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.6	47.9		mg/Kg		99	44 - 136	0	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-21228/1-A
Matrix: Solid
Analysis Batch: 21219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21228

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		02/21/25 09:32	02/21/25 10:15	1

QC Sample Results

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-21228/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 21219
Prep Batch: 21228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.9		mg/Kg		96	90 - 110		

QC Association Summary

Client: Ensolum Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

GC VOA

Prep Batch: 21220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	5035	
MB 885-21220/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-21220/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-21220/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-20276-1 MS	BF-1	Total/NA	Solid	5035	
885-20276-1 MS	BF-1	Total/NA	Solid	5035	
885-20276-1 MSD	BF-1	Total/NA	Solid	5035	
885-20276-1 MSD	BF-1	Total/NA	Solid	5035	

Analysis Batch: 21222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	8015M/D	21220
MB 885-21220/1-A	Method Blank	Total/NA	Solid	8015M/D	21220
LCS 885-21220/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	21220
885-20276-1 MS	BF-1	Total/NA	Solid	8015M/D	21220
885-20276-1 MSD	BF-1	Total/NA	Solid	8015M/D	21220

Analysis Batch: 21223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	8021B	21220
MB 885-21220/1-A	Method Blank	Total/NA	Solid	8021B	21220
LCS 885-21220/3-A	Lab Control Sample	Total/NA	Solid	8021B	21220
885-20276-1 MS	BF-1	Total/NA	Solid	8021B	21220
885-20276-1 MSD	BF-1	Total/NA	Solid	8021B	21220

GC Semi VOA

Analysis Batch: 21212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	8015M/D	21221
MB 885-21221/1-A	Method Blank	Total/NA	Solid	8015M/D	21221
LCS 885-21221/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	21221
885-20276-1 MS	BF-1	Total/NA	Solid	8015M/D	21221
885-20276-1 MSD	BF-1	Total/NA	Solid	8015M/D	21221

Prep Batch: 21221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	SHAKE	
MB 885-21221/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-21221/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-20276-1 MS	BF-1	Total/NA	Solid	SHAKE	
885-20276-1 MSD	BF-1	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 21219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	300.0	21228
MB 885-21228/1-A	Method Blank	Total/NA	Solid	300.0	21228
LCS 885-21228/2-A	Lab Control Sample	Total/NA	Solid	300.0	21228

QC Association Summary

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

HPLC/IC

Prep Batch: 21228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20276-1	BF-1	Total/NA	Solid	300_Prep	
MB 885-21228/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-21228/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Client Sample ID: BF-1
Lab Sample ID: 885-20276-1

Date Collected: 02/20/25 09:00
Matrix: Solid

Date Received: 02/21/25 07:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			21220	AT	EET ALB	02/21/25 09:03
Total/NA	Analysis	8015M/D		1	21222	AT	EET ALB	02/21/25 11:46
Total/NA	Prep	5035			21220	AT	EET ALB	02/21/25 09:03
Total/NA	Analysis	8021B		1	21223	AT	EET ALB	02/21/25 11:46
Total/NA	Prep	SHAKE			21221	EM	EET ALB	02/21/25 09:05
Total/NA	Analysis	8015M/D		1	21212	EM	EET ALB	02/21/25 11:10
Total/NA	Prep	300_Prep			21228	DL	EET ALB	02/21/25 09:32
Total/NA	Analysis	300.0		20	21219	DL	EET ALB	02/21/25 10:36

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-20276-1
Project/Site: State Gas Com #3 (Aug 2024)

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: ksummers@ensolum.com

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

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

Turn-Around Time:
☐ Standard ☒ Rush 100% Final at same time (Same Day)

Project Name: State Gas Com #3 (Aug 2024)

Project #: SEE NOTES

Project Manager: K. Summers

Sampler: L. Daniel

On Ice: ☐ Yes ☐ No

# of Coolers: 1 (Ice)

Cooler Temp(including CF): 0.4-0=0.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABO
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 871
Tel. 505-345-3975 Fax 505-345-4107

885-20276 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
2/20/25	9:00	S	BF-1	1402 jar	Cool		X	X					X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/20/25	1521				2/20/25	1521
2/20/25	1919			courier	2/21/25	7:18

Remarks: PM Tom Long
RB21200
N74015
Final Lab Report w/ prelim (Same Day)

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-20276-1

Login Number: 20276 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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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

Action 442953

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442953
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2422558840**
Incident Name	**NAPP2422558840 STATE COM #3 @ 0**
Incident Type	**Natural Gas Release**
Incident Status	**Reclamation Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	STATE COM #3
Date Release Discovered	08/12/2024
Surface Owner	State

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	No
Condensate Released (bbls) Details	Cause: Corrosion | Pipeline (Any) | Condensate | Released: 5 BBL | Recovered: 0 BBL | Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	Cause: Corrosion | Pit (Specify) | Natural Gas Vented | Released: 3 MCF | Recovered: 0 MCF | Lost: 3 MCF.
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**Yes, according to supplied volumes 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: 08/13/2024

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QUESTIONS (continued)

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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)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
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	Between 1 and 100 (ft.)
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	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 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)	500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	15
GRO+DRO (EPA SW-846 Method 8015M)	15
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	08/12/2024
On what date will (or did) the final sampling or liner inspection occur	02/20/2025
On what date will (or was) the remediation complete(d)	08/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	400
What is the estimated volume (in cubic yards) that will be reclaimed	235
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	235
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: 03/17/2025
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] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**432929**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/20/2025**
What was the (estimated) number of samples that were to be gathered	**1**
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	400
What was the total volume (cubic yards) remediated	235
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	400
What was the total volume (in cubic yards) reclaimed	235
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: 03/17/2025

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QUESTIONS (continued)

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	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	400
What was the total volume of replacement material (in cubic yards) for this site	235
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	07/01/2025
Summarize any additional reclamation activities not included by answers (above)	None
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 03/17/2025

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QUESTIONS (continued)

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 442953
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
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CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Reclamation Report is approved. All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/27/2025