



## CLOSURE REPORT

Property:

**State Gas Com #3 (06/27/23)**  
Unit Letter J, S32 T31N R12W  
San Juan County, New Mexico

**New Mexico EMNRD OCD Incident ID No. NAPP2317847012**

**August 28, 2023**

Ensolum Project No. 05A1226250

Prepared for:

**Enterprise Field Services, LLC**  
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Farmington, NM 87401  
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## 1.0 INTRODUCTION

### 1.1 Site Description & Background

<b>Operator:</b>	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
<b>Site Name:</b>	State Gas Com #3 (06/27/23) (Site)
<b>NM EMNRD OCD Incident ID No.</b>	NAPP2317847012
<b>Location:</b>	36.85503° North, 108.1194° West Unit Letter J, Section 32, Township 31 North, Range 12 West San Juan County, New Mexico
<b>Property:</b>	State Land Office
<b>Regulatory:</b>	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On June 23, 2023, a release of natural gas from the State Gas Com #3 pipeline was identified by a third party. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. On June 27, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. In addition, Enterprise determined the release was “reportable” due to the proximity of a potentially significant watercourse. The NM EMNRD OCD was subsequently notified.

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

### 1.2 Project Objective

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

## 2.0 CLOSURE CRITERIA

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

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site. Numerous PODs were identified in the adjacent PLSS sections. The average depth to water for the PODs is 82 feet below grade surface (bgs). The closest POD (SJ-04197-POD1) is approximately 0.80 miles northwest of the site and approximately 100 feet lower in elevation than the Site. The recorded depth to water for this POD is 140 feet bgs (**Figure A, Appendix B**).

- 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)**. Documentation for the cathodic protection well located near the Thompson 1R production pad indicates a depth to water of 200 feet bgs. This cathodic protection well is located approximately 0.70 miles east of the Site and is approximately 77 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #7 production pad indicates depths to water of approximately 100 and 170 feet bgs. This cathodic protection well is located approximately 0.92 miles northwest of the Site and is approximately 64 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #3E production pad indicates a depth to water of approximately 170 feet bgs. This cathodic protection well is located approximately 0.96 miles southwest of the Site and is approximately 85 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #4E production pad indicates depths to water of approximately 80 and 90 feet bgs. This cathodic protection well is located approximately 1.4 miles northwest of the Site and is approximately 6 feet lower in elevation than the Site.
- The Site is located within 300 feet of an NM EMNRD OCD-defined significant watercourse (**Figure C, Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D, Appendix B**).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E, Appendix B**).
- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E, Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F, Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G, Appendix B**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H, Appendix B**).

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

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

<sup>1</sup> – Constituent concentrations are in milligrams per kilogram (mg/kg).

<sup>2</sup> – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

<sup>3</sup> – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

### 3.0 SOIL REMEDIATION ACTIVITIES

On June 27, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Riley Industrial Services, Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 4 feet long and 3 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 4 feet bgs. The flow path measured approximately 51 feet long and 8 inches wide. The lithology encountered during the completion of remediation activities consisted primarily of silty sand.

Approximately 35 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with surrounding soils and then contoured to the surrounding topography.

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

### 4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG<sup>®</sup> 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 three composite soil samples (S-1, S-2, and FP-1) from the primary excavation and flow path for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft<sup>2</sup>) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

#### First Sampling Event

On June 27, 2023, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (0' to 4'), and S-2 (0' to 4'), were collected from the floor and walls of the excavation. Composite soil sample FP-1 (0.5) was collected along the flow path to confirm there was no impact.

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

## 5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

## 6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1, S-2, and FP-1) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1 (Appendix F)**.

- The laboratory analytical results for all composite soil samples indicate total benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for all composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for all composite soil samples indicate 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-1, S-2, and FP-1 indicate chloride concentrations of 260 mg/kg, 310 mg/kg, and 330 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 600 mg/kg.

## 7.0 RECLAMATION AND REVEGETATION

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

## 8.0 FINDINGS AND RECOMMENDATION

- Three 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 35 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with surrounding soils and then contoured to the surrounding topography.

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

## 9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

### 9.1 Standard of Care

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

### 9.2 Limitations

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

### 9.3 Reliance

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



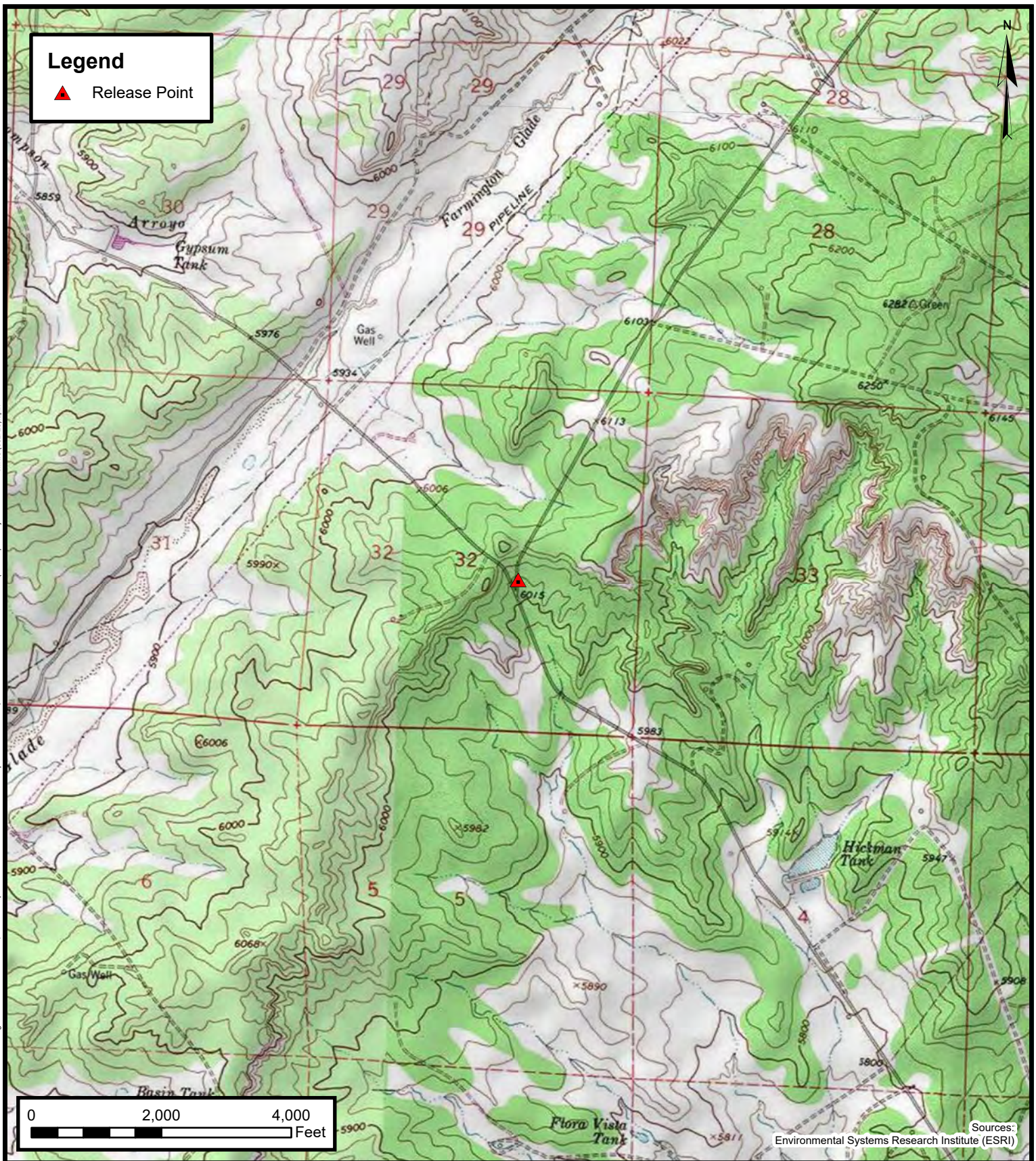
# APPENDIX A

## Figures

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## Topographic Map

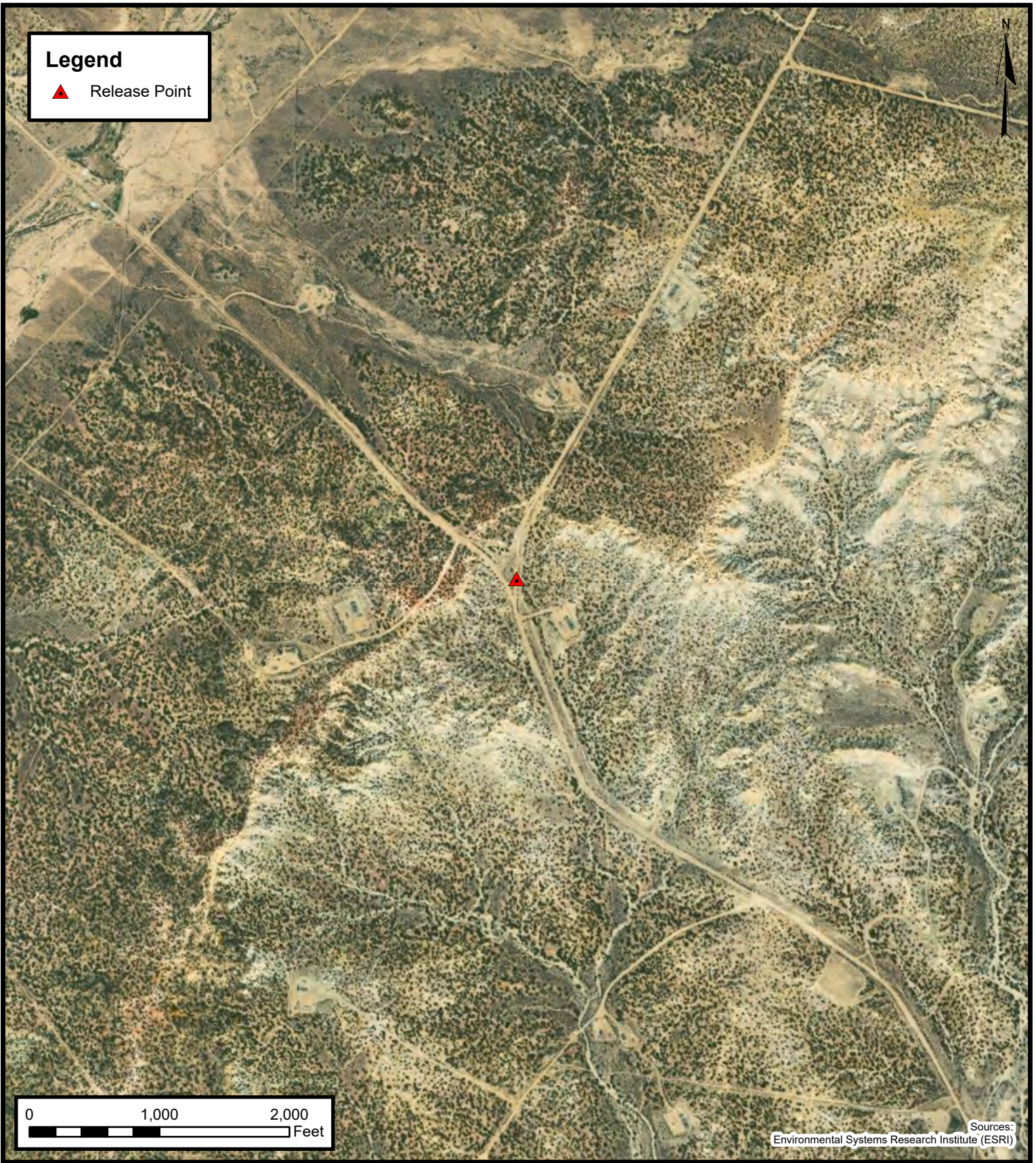
Enterprise Field Services, LLC  
State Gas Com #3 (06/27/23)  
Project Number: 05A1226250

Unit Letter J, S32 T31N R12W, San Juan County, New Mexico  
36.85503, -108.11940

**FIGURE**  
**1**



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## Site Vicinity Map

Enterprise Field Services, LLC  
State Gas Com #3 (06/27/23)  
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36.85503, -108.11940

FIGURE  
2



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**Legend**

-  Release Point
-  Composite Soil Sample Location
-  Pipeline
-  Excavation Extent
-  Flow Path



S-1	
06.27.23	
F & W (0' - 4')	
Benzene...	<0.018
Toluene...	<0.036
Ethylbenzene...	<0.036
Xylenes...	<0.072
Total BTEX...	ND
TPH GRO...	<3.6
TPH DRO...	<10
TPH MRO...	<50
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	260

S-2	
06.27.23	
F & W (0' - 4')	
Benzene...	<0.018
Toluene...	<0.036
Ethylbenzene...	<0.036
Xylenes...	<0.072
Total BTEX...	ND
TPH GRO...	<3.6
TPH DRO...	<10
TPH MRO...	<50
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	310

FP-1	
06.27.23	
F (0.5')	
Benzene...	<0.016
Toluene...	<0.031
Ethylbenzene...	<0.031
Xylenes...	<0.063
Total BTEX...	ND
TPH GRO...	<3.1
TPH DRO...	<10
TPH MRO...	<50
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	330

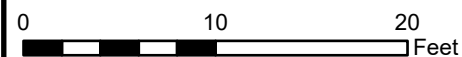
**Notes:**

F - Floor Sample

W - Wall Sample

All depths are listed in feet BGS.

All concentration are listed in milligrams per kilogram (mg/kg).

**Site Map**

Enterprise Field Services, LLC

State Gas Com #3 (06/27/23)

Project Number: 05A1226250

Unit Letter J, S32 T31N R12W, San Juan County, New Mexico  
36.85503, -108.11940**FIGURE****3**



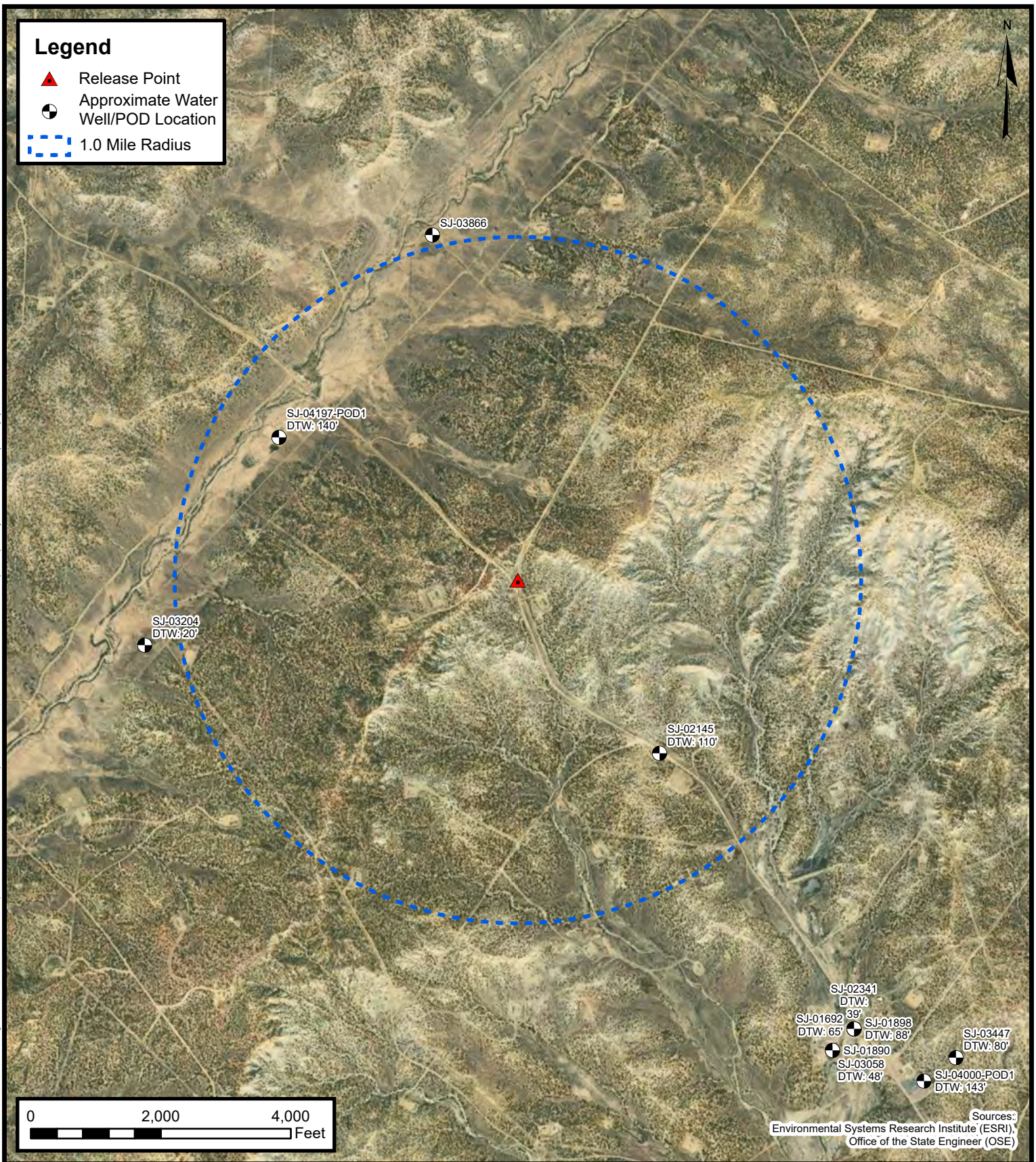
## APPENDIX B

### Siting Figures and Documentation

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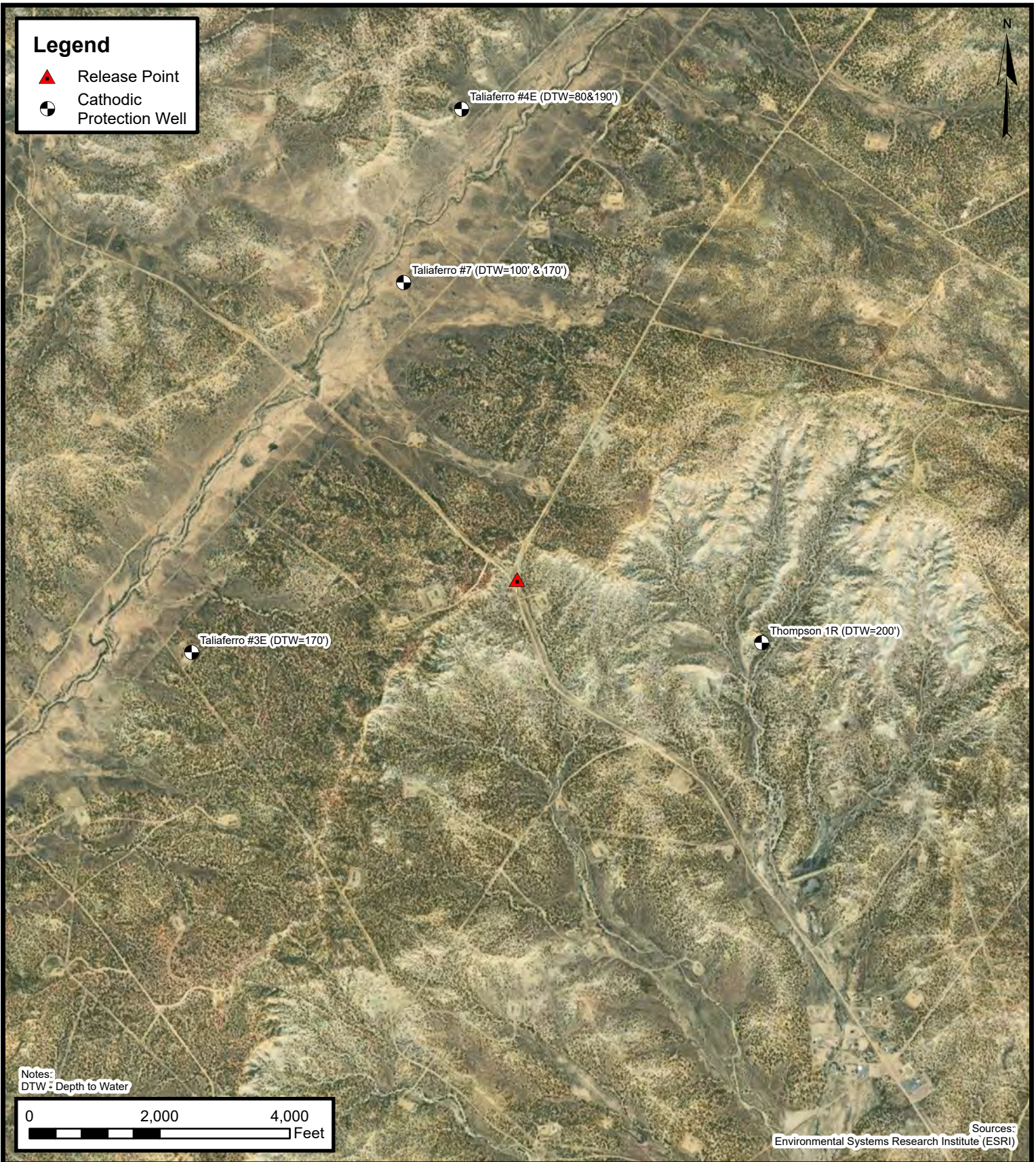
## 1.0 Mile Radius Water Well/ Pod Location Map

Enterprise Field Services, LLC  
 State Gas Com #3 (06/27/23)  
 Project Number: 05A1226250  
 Unit Letter J, S32 T31N R12W, San Juan County, New Mexico  
 36.85503, -108.11940

**FIGURE**  
**A**



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## Cathodic Protection Well Recorded Depth to Water

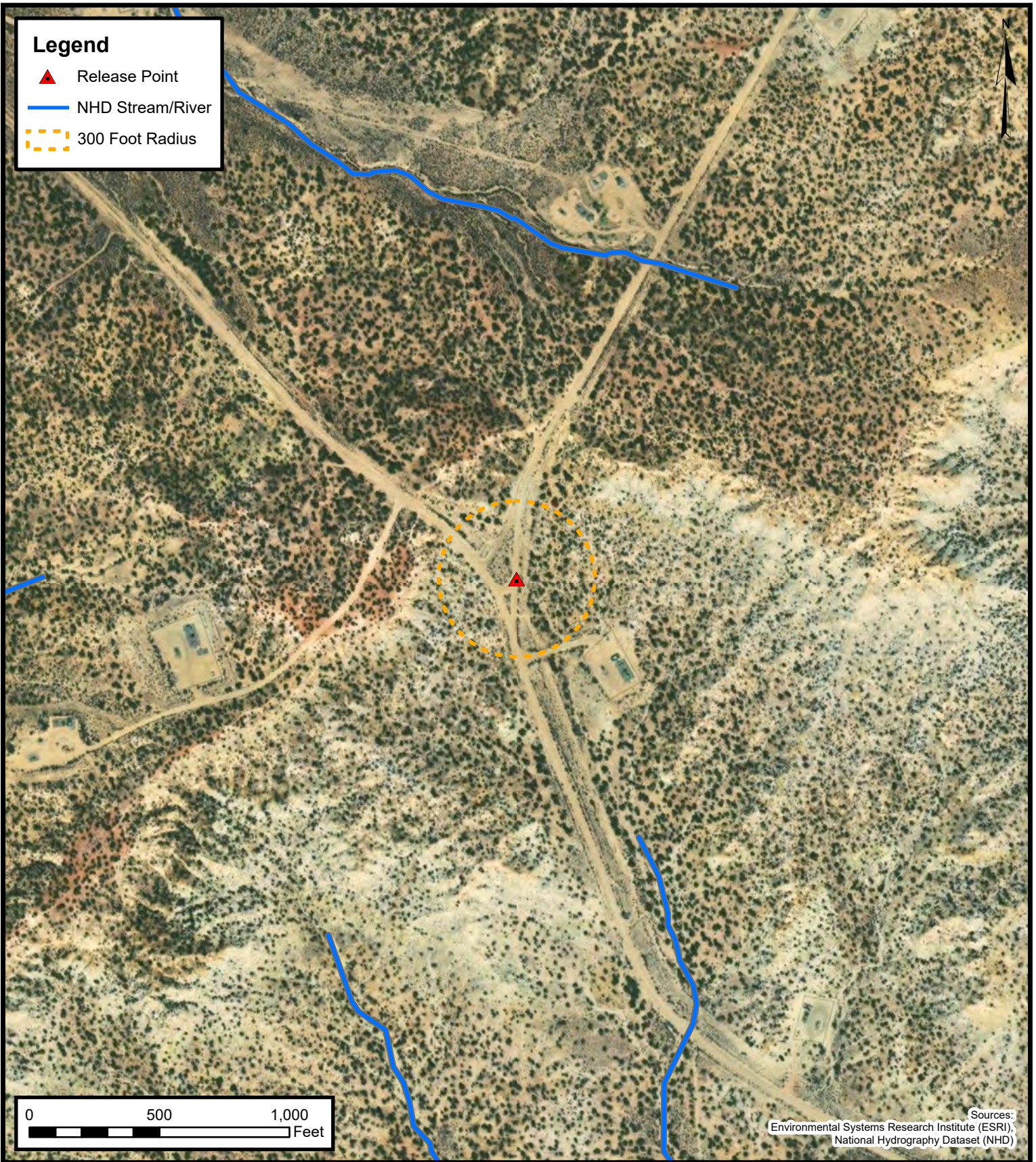
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**FIGURE  
B**



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### 300 Foot Radius Watercourse and Drainage Identification

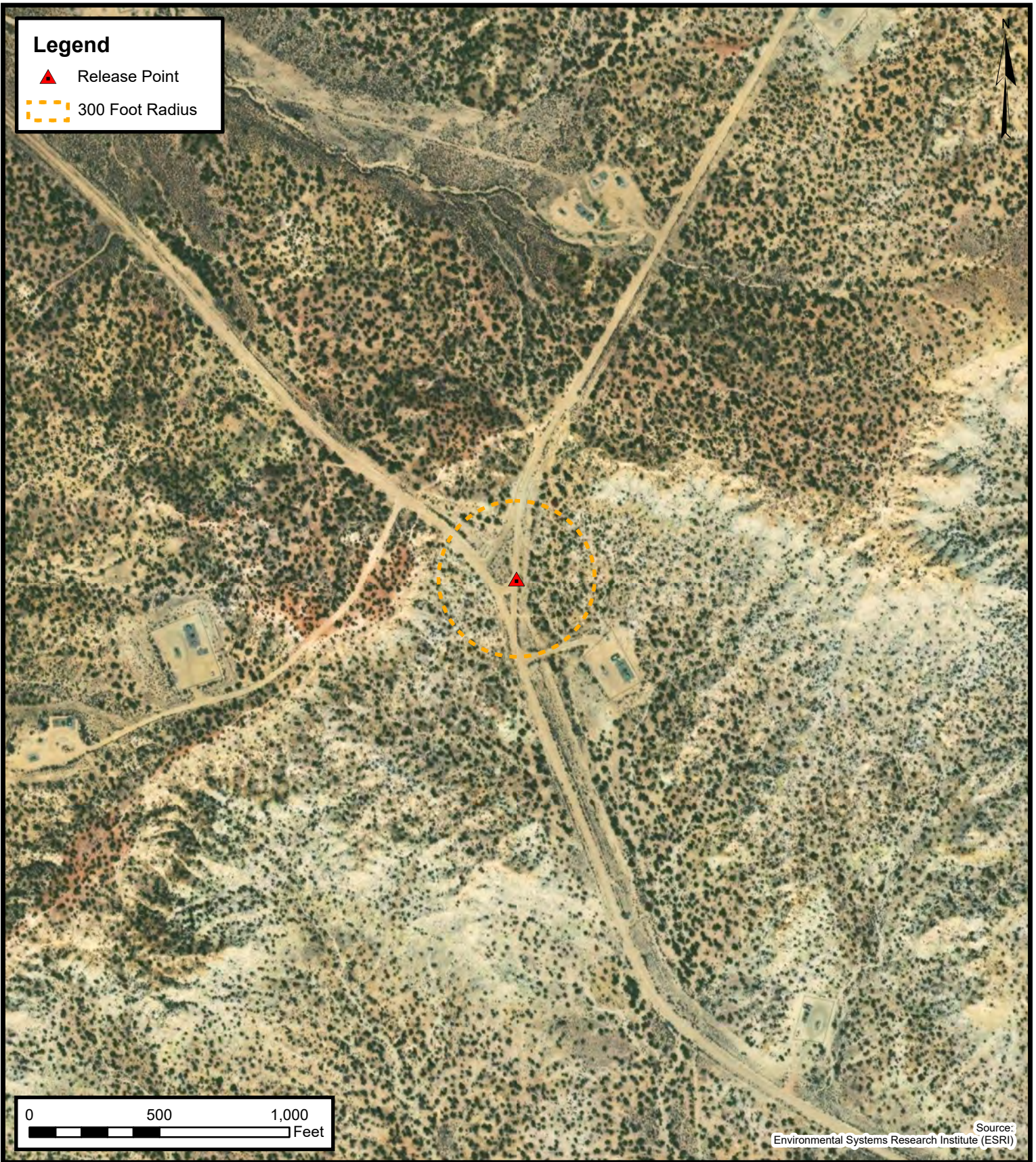
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FIGURE  
C



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### 300 Foot Radius Occupied Structure Identification

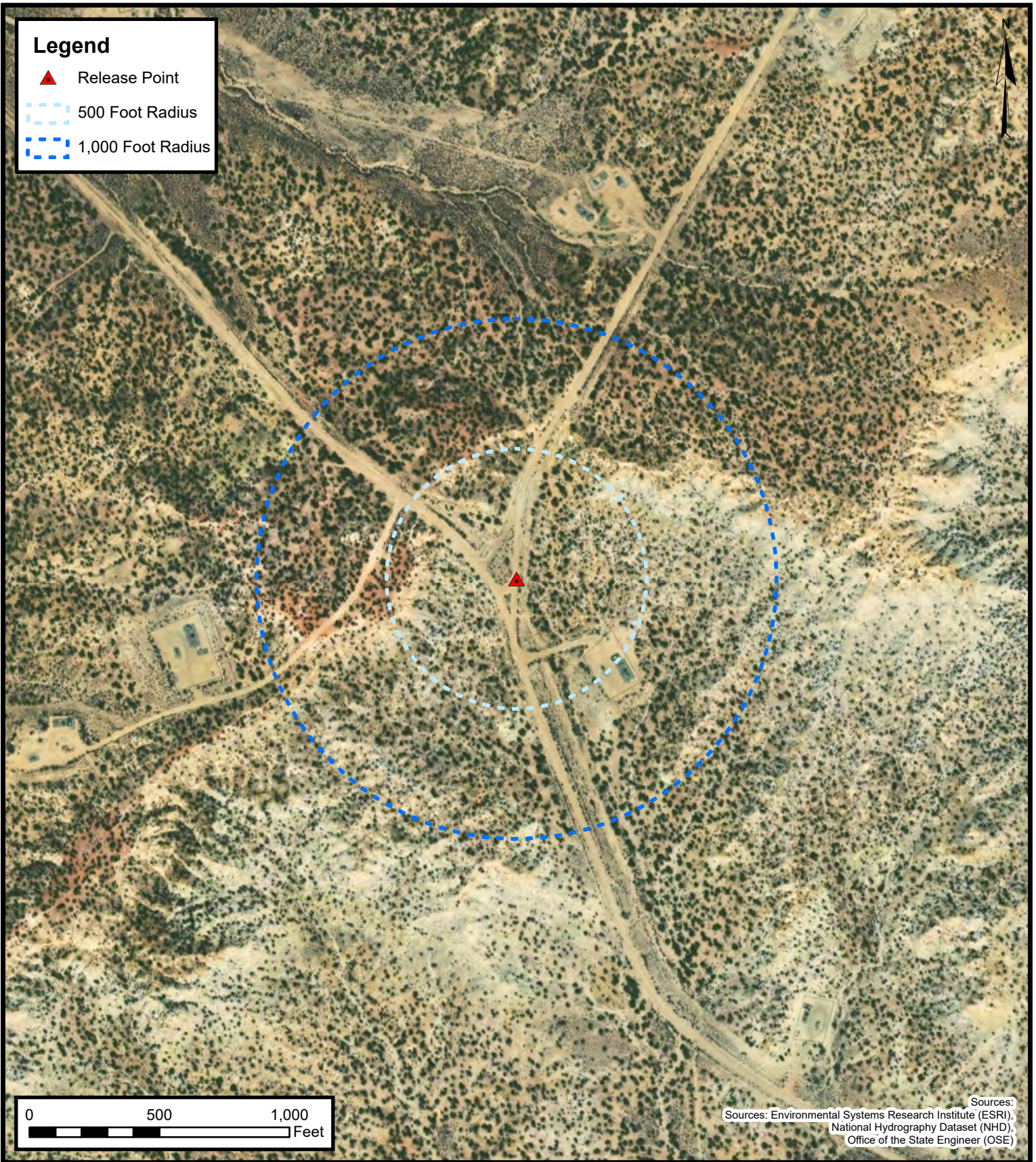
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**FIGURE  
D**



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**Water Well and  
Natural Spring Location**

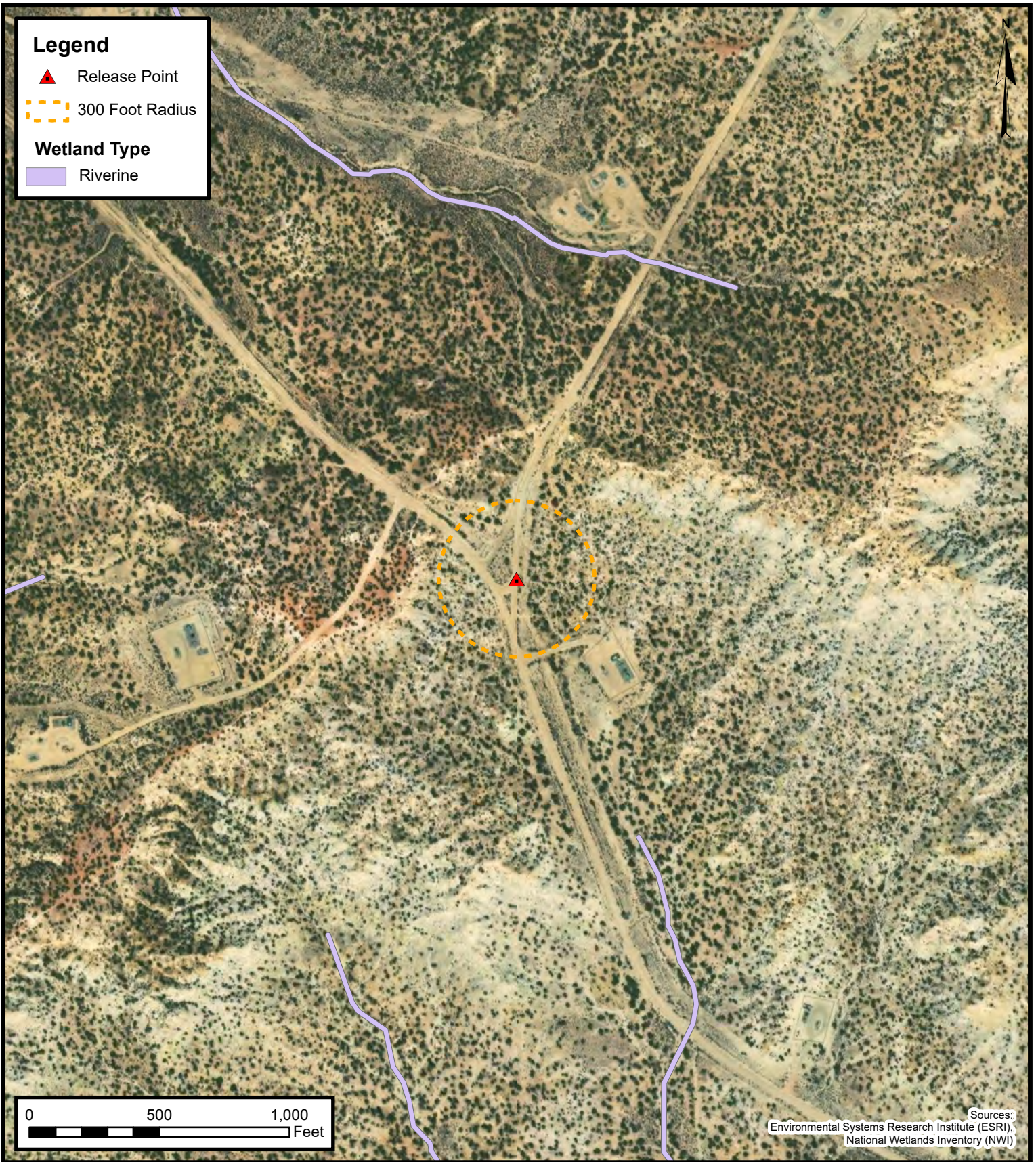
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36.85503, -108.11940

**FIGURE  
E**



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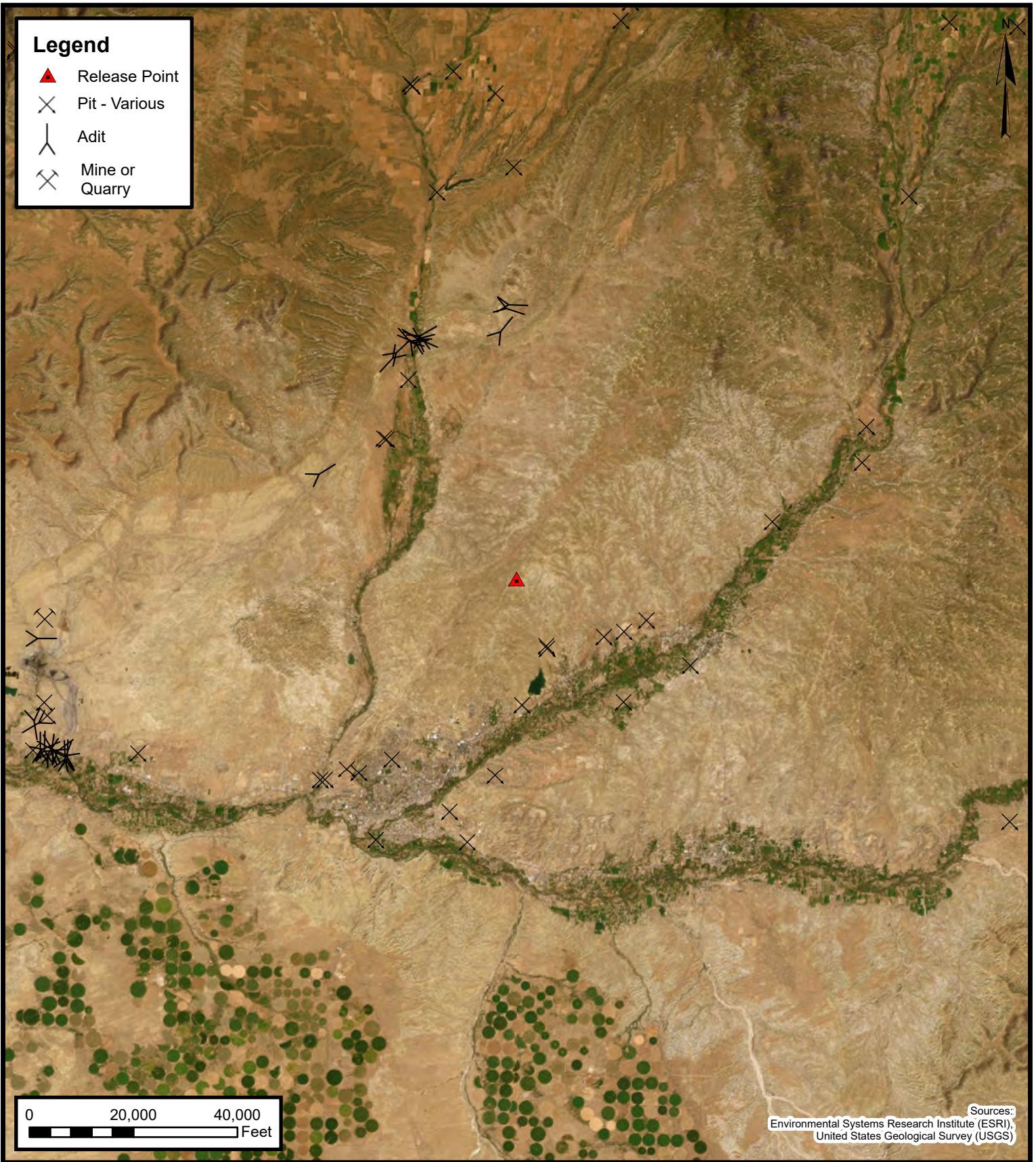
## Wetlands

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FIGURE  
F



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## Mines, Mills, and Quarries

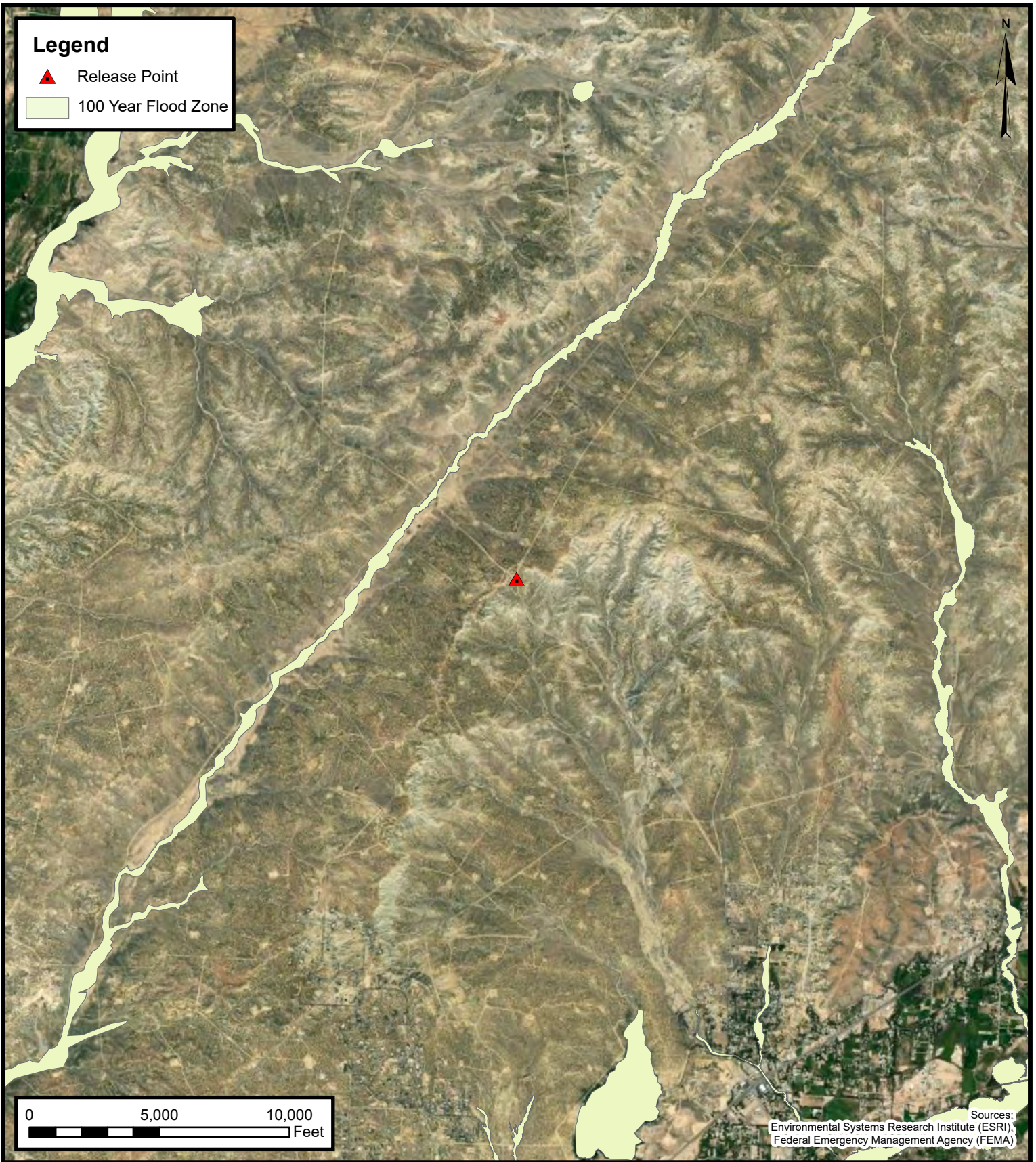
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FIGURE  
**G**



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## 100-Year Flood Plain Map

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State Gas Com #3 (06/27/23)  
Project Number: 05A1226250  
Unit Letter J, S32 T31N R12W, San Juan County, New Mexico  
36.85503, -108.11940

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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">SJ 03204</a>	SJ	SJ		1	3	4	31	31N	12W	220133	4083029*	40	20	20
<a href="#">SJ 03866</a>	SJ	SJ		1	2	3	29	31N	12W	221482	4084952	100		
<a href="#">SJ 04197 POD1</a>	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

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

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Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER





# 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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">SJ 01692</a>	SJ	SJ		3	4	04	30N	12W		223459	4081230*	156	65	91
<a href="#">SJ 01792</a>	SJ	SJ		3	4	04	30N	12W		223459	4081230*	155	109	46
<a href="#">SJ 01798</a>	SJ	SJ		3	4	04	30N	12W		223459	4081230*	158	70	88
<a href="#">SJ 01898</a>	SJ	SJ		3	4	04	30N	12W		223459	4081230*	140	88	52
<a href="#">SJ 02145</a>	SJ	SJ		1	1	1	04	30N	12W	222547	4082522*	160	110	50
<a href="#">SJ 02341</a>	SJ	SJ		3	4	04	30N	12W		223459	4081230*	85	39	46
<a href="#">SJ 03058</a>	SJ	SJ		3	3	4	04	30N	12W	223358	4081129*	120	48	72
<a href="#">SJ 03447</a>	SJ	SJ		4	4	4	04	30N	12W	223937	4081095*	120	80	40
<a href="#">SJ 04000 POD1</a>	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

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

6/26/23 1:09 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

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)

**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 87410Drilling Log (Attach Hereto). ☒

C297W

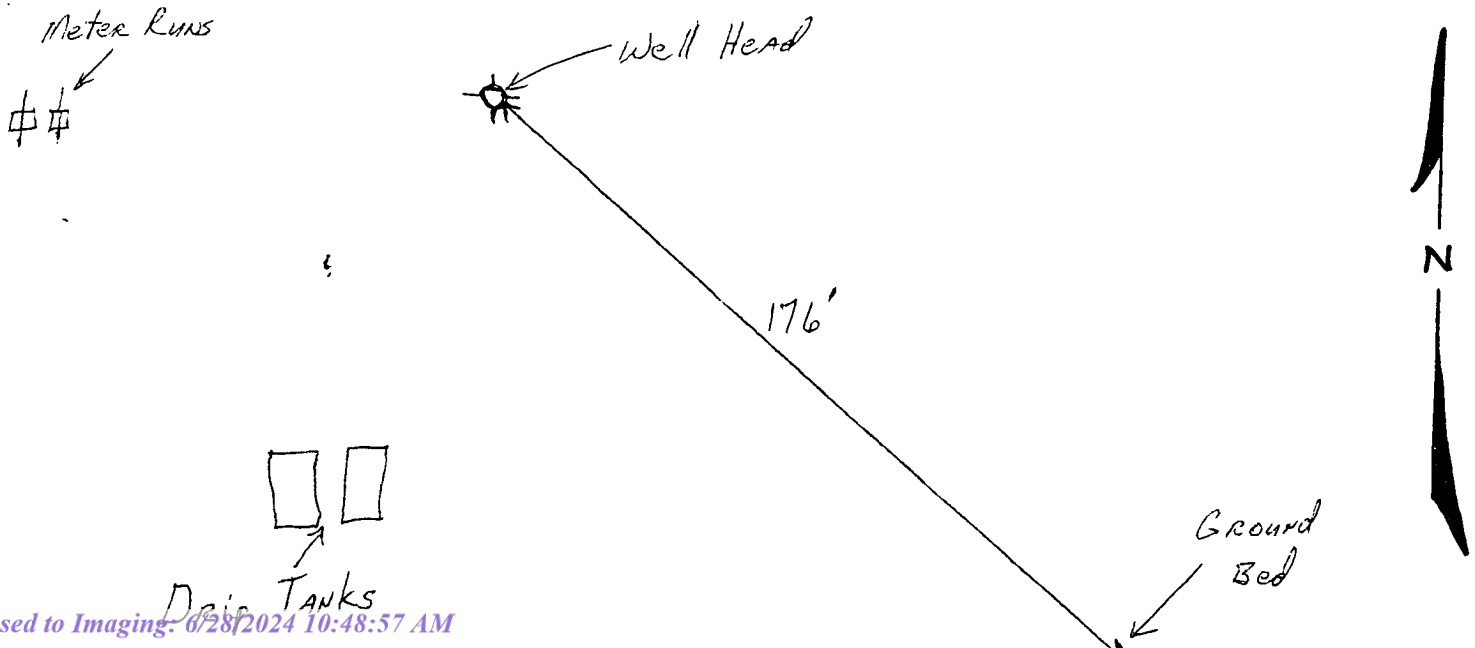
Completion Date December 22, 1984

Well Name <u>TALIAFERRO # 4-E</u>		Location <u>U.S. Texas Petroleum</u>		C 29-31-12	
Type & Size Bit Used				Work Order No.	
Anode Hole Depth <u>380'</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 <u>360</u>	#2 <u>350</u>	#3 <u>340</u>	#4 <u>330</u>	#5 <u>320</u>	#6 <u>310</u>
#7 <u>300</u>	#8 <u>290</u>	#9 <u>280</u>	#10 <u>270</u>		
Anode Output (Amps)					
#1 <u>4.4</u>	#2 <u>3.8</u>	#3 <u>4.0</u>	#4 <u>3.5</u>	#5 <u>3.5</u>	#6 <u>3.8</u>
#7 <u>3.3</u>	#8 <u>3.0</u>	#9 <u>3.0</u>	#10 <u>3.8</u>		
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 <u>11.6</u>	Amps <u>20.7</u>	Ohms <u>0.56</u>	<u>3480'</u>		

Remarks: Water standing at 200' when hole was logged. Used  
380' 1" vent pipe w/ 150' of perforations.

All Construction Completed

Cody Mumbres  
 (Signature)

**GROUND BED LAYOUT SKETCH**



**CORROSION CONTROL CO.**

### 301 Ash

**Az1**

## New Mexico

Page 25 of 66

COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 22 1986

**WELL NAME:**

WELL NUMBER:

**SECTION:**

TOWNSHIP:

**RANGE:**

Falio Ferro

4-E

27

31

12

## WATER AT

**FEET**

**HOLE MADE:**

80-1190

350-

### DESCRIPTION OF FORMATION

[illegible]

REMARKS: Water Volume was approx 6 gallons per minute

## Driller

## Tool Dresser

1502

30-045-24 T63

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

RECEIVED  
MAY 31 1987  
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 SYSTEM, INC.**P.O. BOX 1359 - PHONE 334-6141  
AZTEC, NEW MEXICO 87410Drilling Log (Attach Hereto). ☒

L 298W

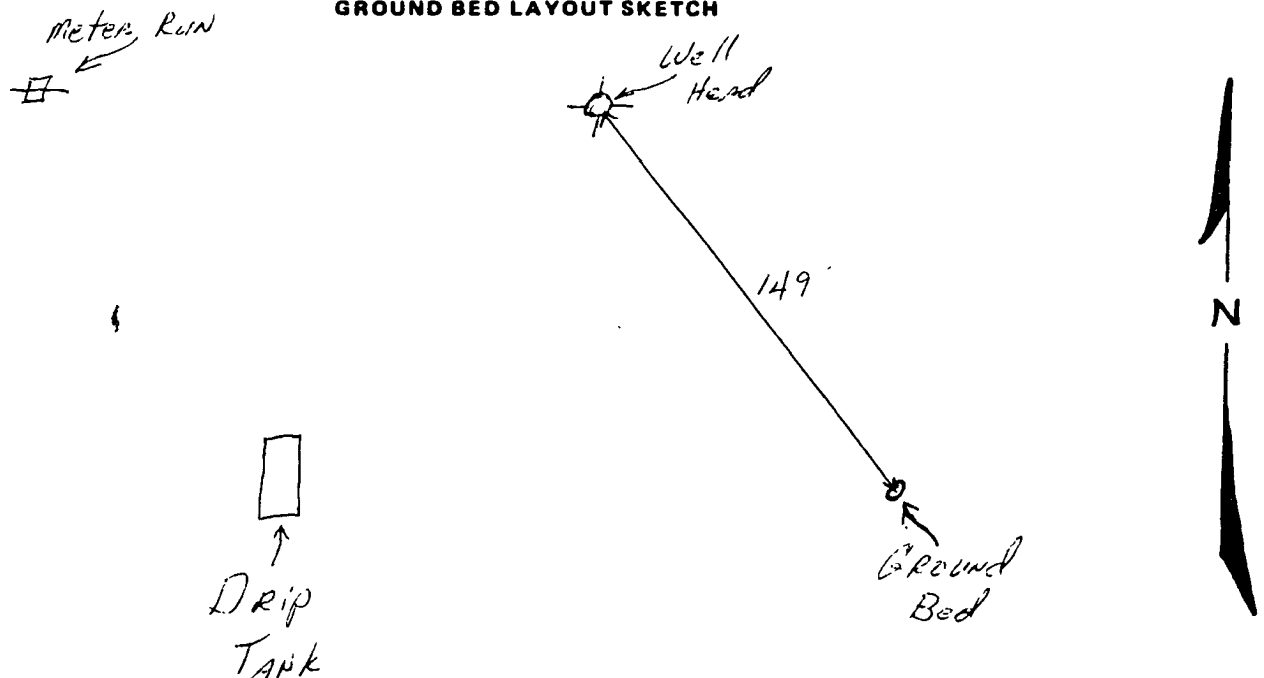
Completion Date December 16, 1986

Well Name <u>Taliaferro #7</u>		Location <u>Union Texas Petroleum</u>		<u>L 29-31N-12W</u>	
Type & Size Bit Used <u>6 &amp; 3/4"</u>				Work Order No.	
Anode Hole Depth <u>320'</u>	Total Drilling Rig Time <u>7 Hrs.</u>		Total Lbs. Coke Used <u>1500#</u>	Lost Circulation Mat'l Used	
Anode Depth		Anode Output (Amps)		No. Sacks Mud Used	
#1 300	#2 290	#3 280	#4 270	#5 260	#6 250
#7 240	#8 230	#9 220	#10 200		
#1 5.2	#2 3.7	#3 3.6	#4 3.5	#5 4.5	#6 3.7
#7 3.6	#8 4.4	#9 3.9	#10 3.6		
Anode Depth		Anode Output (Amps)		No. 8 C.P. Cable Used	
#11	#12	#13	#14	#15	#16
#17	#18	#19	#20		
Total Circuit Resistance		No. 2 C.P. Cable Used			
Volts <u>11.4</u>	Amps <u>21.2</u>	Ohms <u>0.52</u>	<u>2700'</u>		

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 Munkiewicz  
 (Signature)

**GROUND BED LAYOUT SKETCH**



150<sup>th</sup>

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 0 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 87410Drilling Log (Attach Hereto). ☒

6295W

Completion Date December 18, 1986

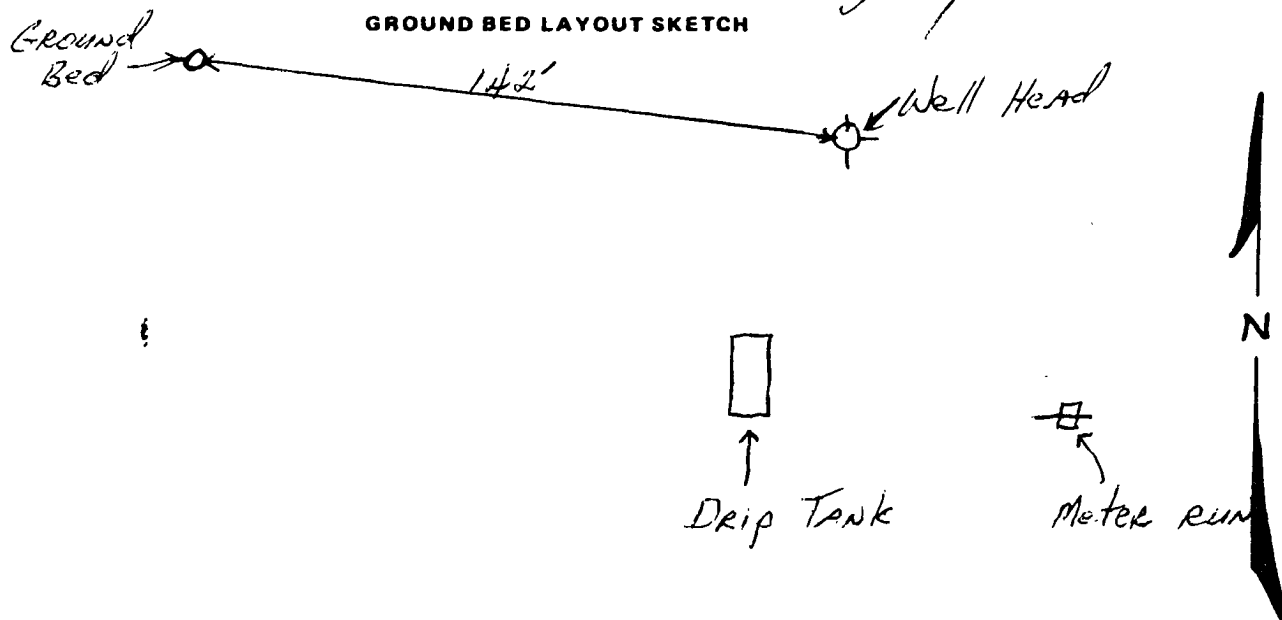
Well Name Taliaferro #3-E		Location Union Texas Petroleum		0 31-31N-12W	
Type & Size Bit Used 6 3/4"				Work Order No.	
Anode Hole Depth 300'	Total Drilling Rig Time 7 Hrs.	Total Lbs. Coke Used 1400#	Lost Circulation Mat'l Used		No. Sacks Mud Used
Anode Depth					
#1 280	#2 270	#3 260	#4 250	#5 240	#6 230
#7 220	#8 210	#9 200	#10 190		
Anode Output (Amps)					
#1 2.5	#2 3.3	#3 3.5	#4 3.7	#5 3.3	#6 3.1
#7 2.6	#8 3.7	#9 2.6	#10 2.7		
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 11.6	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 M. Jones*  
(Signature)

## GROUND BED LAYOUT SKETCH



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

### DESCRIPTION OF FORMATION

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

Driller Cody Macken Tool Dresser

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICOOperator BURLINGTON RESOURCES Location: Unit K Sec. 33 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced \_\_\_\_\_

THOMPSON 1R 30-045-29569Elevation \_\_\_\_\_ Completion Date 7-2-98 Total Depth 380 Land Type ST

Casing Strings, Sizes, Types &amp; Depths \_\_\_\_\_

20' 8" PVC

If Casing Strings are cemented, show amounts &amp; types used \_\_\_\_\_

NONE

If Cement or Bentonite Plugs have been placed, show depths &amp; amounts used \_\_\_\_\_

NONEDepths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. 200 7 GAL PER MINDepths gas encountered: NONE

Ground bed depth with type &amp; amount of coke breeze used: \_\_\_\_\_

380' SW LABUSCODepths anodes placed: 215-230-235-240-315-320-225-330Depths vent pipes placed: 0-340Vent pipe perforations: 210-240

Remarks: \_\_\_\_\_

RECEIVED  
MAR - 9 1999OIL CON. DIV.  
D.M.B.

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:			L. J. NIMMON & SONS							
WELL NAME: THOMPSON 1R										
LEGAL LOCATION: 33-31-12			COUNTY: SAN JUAN							
DATE: 7-2-98			TYPE OF COKE: SW LAROSE							
DEPTH: 380			AMT. OF COKE BACKFILL: 2300							
BIT SIZE: 6 1/2			VENT PIPE: 0-340							
DRILLER NAME: MERCER			PERF. PIPE: 210-340							
SIZE AND TYPE OF CASING: 20' 8" PXC			ANODE AMT. & TYPE: 8							
			BOULDER DRILLING:							
DEPTH			DEPTH			COMPLETION INFORMATION:				
FT.	LOG	ANODE	FT.	LOG	ANODE	FT.	LOG	ANODE	WATER DEPTHS: WATER 220	
									ISOLATION PLUGS:	
100	.8		265	.6		430				
105	.8		270	.6		435			OUTPUT	OUTPUT
110	.6		275	.7		440			ANODE#	DEPTH
115	.7		280	.7		445			NO. COK	COKED
120	1.0		285	.9		450			1	330
125	.9		290	.6		455			2	325
130	1.0		295	.6		460			3	320
135	1.0		300	.7		465			4	315
140	.9		305	.8		470			5	310
145	.7		310	.9		475			6	305
150	.7		315	1.2		480			7	300
155	.7		320	1.2		485			8	295
160	.6		325	1.6		490			9	290
165	.8		330	1.6		495			10	
170	1.0		335	1.9		500			11	
175	1.0		340	.8		505			12	
180	1.2		345	.9		510			13	
185	.8		350	.8		515			14	
190	.8		355	.8		520			15	
195	.8		360	.7		525			16	
200	.9		365	1.0		530			17	
205	.8		370	.8		535			18	
210	.7		375			540			19	
215	1.1		380			545			20	
220	.8		385			550			21	
225	.9		390			555			22	
230	1.0		395			560			23	
235	1.1		400			565			24	
240	1.1		405			570			25	
245	.9		410			575			26	
250	.7		415			580			27	
255	.6		420			585			28	
260	1.0		425			590			29	
						595			30	
LOGGING VOLTS: 12.3			VOLTAGE SOURCE: Bat.							
TOTAL AMPS: 13.2			TOTAL G/B RESISTANCE: 0.936							
REMARKS:										



## APPENDIX C

### Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138  
Revised 08/01/11

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

97057-1125

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	
2. Originating Site: State Gas Com #3	AFE: Pending PM: Gary Turner Pay Key: REB21200
2. Location of Material (Street Address, City, State or ULSTR): UL J Section 32 T31N R12W; 36.855030, -108.119400	
4. Source and Description of Waste: Source: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release. Description: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release. Estimated Volume <u>50</u> yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) <u>35</u> yd <sup>3</sup> / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	
<p>I, Thomas Long <i>Thomas Long</i>, representative or authorized agent for Enterprise Products Operating do hereby  <b>Generator Signature</b>          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)</p> <p><input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <b>Operator Use Only: Waste Acceptance Frequency</b> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load</p> <p><input type="checkbox"/> 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)</p> <p><input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)</p>	
<p align="center"><b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b></p> <p>I, Thomas Long <i>Thomas Long</i> 6-27-2023, representative for Enterprise Products Operating authorize to complete  <b>Generator Signature</b>          the required testing/sign the Generator Waste Testing Certification.</p> <p>I, <u>Greg Crabtree</u>, representative for <u>Envirotech, Inc.</u> 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.</p>	
5. Transporter: TBD	

### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility \* Permit #: NM01-0011

Address of Facility: Hill Top, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

### Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree

TITLE: Enviro Manager

DATE: 6/27/23

SIGNATURE: *Greg Crabtree*  
 Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615



## APPENDIX D

# Photographic Documentation



## SITE PHOTOGRAPHS

Closure Report  
Enterprise Field Services, LLC  
State Gas Com #3 (06/27/23)  
Ensolum Project No. 05A1226250

**Photograph 1**

Photograph Description: View of the excavation.

**Photograph 2**

Photograph Description: View of the sampled flow path.

**Photograph 3**

Photograph Description: View of the sampled flow path.



## SITE PHOTOGRAPHS

Closure Report  
Enterprise Field Services, LLC  
State Gas Com #3 (06/27/23)  
Ensolum Project No. 05A1226250



### Photograph 4

Photograph Description: View of the site after initial restoration.





## APPENDIX E

# Regulatory Correspondence

**From:** [Long, Thomas](#)  
**To:** ["eco@slo.state.nm.us"](mailto:eco@slo.state.nm.us)  
**Subject:** FW: State Gas Com #3 - UL J Section 32 T31N R12W; 36.855030, -108.119400; NMOCD Incident # nAPP2317847012  
**Date:** Thursday, June 29, 2023 8:47:00 AM  
**Attachments:** [Initial C-141 - State Com #3 6-29-2023.pdf](#)  
[Gas Loss - State GC#3.pdf](#)  
[Initial C-141 - OCD Permitting.pdf](#)

---

Tami,

Please find the attached Initial C-141 for the State Com #3 release.

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](mailto:tjlong@eprod.com)



---

**From:** Long, Thomas  
**Sent:** Thursday, June 29, 2023 7:22 AM  
**To:** 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; 'eco@slo.state.nm.us' <eco@slo.state.nm.us>  
**Cc:** Stone, Brian <bmstone@eprod.com>  
**Subject:** FW: State Gas Com #3 - UL J Section 32 T31N R12W; 36.855030, -108.119400

Nelson/Tami,

Please find the attached site sketch and lab report for the State Com #3 release site. All sample results are below the NMOCD Tier I remediation standard. A final closure report will be submitted in the near future. If you have any questions, please call or email.

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





---

**From:** Long, Thomas  
**Sent:** Tuesday, June 27, 2023 12:53 PM  
**To:** 'Velez, Nelson, EMNRD' <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>  
**Cc:** 'eco@slo.state.nm.us' <[eco@slo.state.nm.us](mailto:eco@slo.state.nm.us)>; Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** FW: State Gas Com #3 - UL J Section 32 T31N R12W; 36.855030, -108.119400

Nelson,

I just received these pictures and site sketch and saw the small wash on the map and in the pictures. The wash is not a blue line on a topo. The release was not located in the wash, but fluids did flow into the wash. Ensolum collected a sample along the flow path in the wash as well as the excavation. The excavation is very small, approximately 3 feet x 4 feet x 4 feet deep. I will submit a NOR/C-141 because of the small wash. Please let me know if you have any concerns.

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



---

**From:** SLO Spills <[spills@slo.state.nm.us](mailto:spills@slo.state.nm.us)>  
**Sent:** Tuesday, June 27, 2023 10:29 AM  
**To:** Long, Thomas <[tjlong@eprod.com](mailto:tjlong@eprod.com)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>; SLO Surface ECO <[SLOSurfaceECO@slo.state.nm.us](mailto:SLOSurfaceECO@slo.state.nm.us)>  
**Subject:** [EXTERNAL] RE: State Gas Com #3 - UL J Section 32 T31N R12W; 36.855030, -108.119400

[Use caution with links/attachments]

Tom,

Thank you for the communication. ECO approves the confirmation sampling for today. Please provide a follow up closure summary letter with laboratory analytical results.

Have a great day

Environmental Compliance Office  
Surface Resources Division  
New Mexico State Land Office  
[nmstatelands.org](http://nmstatelands.org)

---

**From:** Long, Thomas <[tjlong@eprod.com](mailto:tjlong@eprod.com)>  
**Sent:** Tuesday, June 27, 2023 10:23 AM  
**To:** SLO Spills <[spills@slo.state.nm.us](mailto:spills@slo.state.nm.us)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** [EXTERNAL] FW: State Gas Com #3 - UL J Section 32 T31N R12W; 36.855030, -108.119400

Tami,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect soil samples for laboratory analysis today at the State Gas Com #3 excavation. The excavation is approximately 4 feet long by 4 feet wide by 3 feet deep. No signs of hydrocarbon impact per field screening. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thank you,

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



---

**From:** Long, Thomas  
**Sent:** Monday, June 26, 2023 12:46 PM  
**To:** 'spills@slo.state.nm.us' <[spills@slo.state.nm.us](mailto:spills@slo.state.nm.us)>  
**Subject:** State Gas Com #3 - UL J Section 32 T31N R12W; 36.855030, -108.119400

This email is a notification that Enterprise had a release of natural gas and natural gas liquids from the State Gas Com #3 pipeline on Friday June 23, 2023 at approximately 11:00 a.m. Approximately one barrel of natural gas liquids was observed on the ground surface. No washes or waterways were affected. There were no injuries nor a fire. The pipeline was isolated, depressurized, locked and tagged out. All released liquids remained in the ROW. The release is located in UL J Section 32 T31N R12W; 36.855030, -108.119400. Enterprise is currently scheduling the repairs and remediation. I will keep you informed as to when we will collect soil samples for laboratory analysis.

If you have any questions, please call or email.

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



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



## APPENDIX F

### Table 1 – Soil Analytical Summary

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**TABLE 1**  
State Gas Com #3 (06/27/23)  
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX <sup>1</sup>	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup>	Chloride
		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(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
Flow Path Composite Soil Sample													
FP-1	06.27.23	C	0.5	<0.016	<0.031	<0.031	<0.063	ND	<3.1	<10	<50	ND	330
Excavation Composite Soil Samples													
S-1	06.27.23	C	0 to 4	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<10	<50	ND	260
S-2	06.27.23	C	0 to 4	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<10	<50	ND	310

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



## APPENDIX G

### Laboratory Data Sheets & Chain of Custody Documentation

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

July 05, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: State Com

OrderNo.: 2306E05

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/28/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2306E05

Date Reported: 7/5/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: State Com

Collection Date: 6/27/2023 10:30:00 AM

Lab ID: 2306E05-001

Matrix: MEOH (SOIL)

Received Date: 6/28/2023 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Chloride	260	60		mg/Kg	20	6/28/2023 12:20:49 PM	75886
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2023 11:41:59 AM	75875
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/28/2023 11:41:59 AM	75875
Surr: DNOP	94.5	69-147		%Rec	1	6/28/2023 11:41:59 AM	75875
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/28/2023 10:44:00 AM	R97769
Surr: BFB	93.7	15-244		%Rec	1	6/28/2023 10:44:00 AM	R97769
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.018		mg/Kg	1	6/28/2023 10:44:00 AM	R97769
Toluene	ND	0.036		mg/Kg	1	6/28/2023 10:44:00 AM	R97769
Ethylbenzene	ND	0.036		mg/Kg	1	6/28/2023 10:44:00 AM	R97769
Xylenes, Total	ND	0.072		mg/Kg	1	6/28/2023 10:44:00 AM	R97769
Surr: 4-Bromofluorobenzene	90.3	39.1-146		%Rec	1	6/28/2023 10:44:00 AM	R97769

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

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

Page 1 of 9



CLIENT: ENSOLUM

Client Sample ID: S-2

Project: State Com

Collection Date: 6/27/2023 10:35:00 AM

Lab ID: 2306E05-002

Matrix: MEOH (SOIL) Received Date: 6/28/2023 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	310	60		mg/Kg	20	6/28/2023 12:33:13 PM	75886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2023 11:52:36 AM	75875
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/28/2023 11:52:36 AM	75875
Surr: DNOP	98.0	69-147		%Rec	1	6/28/2023 11:52:36 AM	75875
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/28/2023 11:06:00 AM	R97769
Surr: BFB	92.7	15-244		%Rec	1	6/28/2023 11:06:00 AM	R97769
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.018		mg/Kg	1	6/28/2023 11:06:00 AM	R97769
Toluene	ND	0.036		mg/Kg	1	6/28/2023 11:06:00 AM	R97769
Ethylbenzene	ND	0.036		mg/Kg	1	6/28/2023 11:06:00 AM	R97769
Xylenes, Total	ND	0.072		mg/Kg	1	6/28/2023 11:06:00 AM	R97769
Surr: 4-Bromofluorobenzene	93.1	39.1-146		%Rec	1	6/28/2023 11:06:00 AM	R97769

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2306E05  
Date Reported: 7/5/2023

CLIENT: ENSOLUM Client Sample ID: FP-1  
Project: State Com Collection Date: 6/27/2023 10:40:00 AM  
Lab ID: 2306E05-003 Matrix: MEOH (SOIL) Received Date: 6/28/2023 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	330	60		mg/Kg	20	6/28/2023 12:45:38 PM	75886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2023 12:03:12 PM	75875
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/28/2023 12:03:12 PM	75875
Surr: DNOP	93.7	69-147		%Rec	1	6/28/2023 12:03:12 PM	75875
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	6/28/2023 11:28:00 AM	R97769
Surr: BFB	95.0	15-244		%Rec	1	6/28/2023 11:28:00 AM	R97769
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.016		mg/Kg	1	6/28/2023 11:28:00 AM	R97769
Toluene	ND	0.031		mg/Kg	1	6/28/2023 11:28:00 AM	R97769
Ethylbenzene	ND	0.031		mg/Kg	1	6/28/2023 11:28:00 AM	R97769
Xylenes, Total	ND	0.063		mg/Kg	1	6/28/2023 11:28:00 AM	R97769
Surr: 4-Bromofluorobenzene	93.6	39.1-146		%Rec	1	6/28/2023 11:28:00 AM	R97769

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E05  
05-Jul-23

Client: ENSOLUM  
Project: State Com

Sample ID: MB-75886	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 75886	RunNo: 97784
Prep Date: 6/28/2023	Analysis Date: 6/28/2023	SeqNo: 3557546 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-75886	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 75886	RunNo: 97784
Prep Date: 6/28/2023	Analysis Date: 6/28/2023	SeqNo: 3557547 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.3 90 110

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 9

## QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E05

05-Jul-23

Client: ENSOLUM

Project: State Com

Sample ID: <b>LCS-75875</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>75875</b>		RunNo: <b>97779</b>							
Prep Date: <b>6/28/2023</b>	Analysis Date: <b>6/28/2023</b>		SeqNo: <b>3556463</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.3	61.9	130			
Surr: DNOP	4.4		5.000		87.8	69	147			

Sample ID: <b>MB-75875</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>75875</b>		RunNo: <b>97779</b>							
Prep Date: <b>6/28/2023</b>	Analysis Date: <b>6/28/2023</b>		SeqNo: <b>3556464</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.5	69	147			

Sample ID: <b>2306E05-003AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>FP-1</b>	Batch ID: <b>75875</b>		RunNo: <b>97779</b>							
Prep Date: <b>6/28/2023</b>	Analysis Date: <b>6/28/2023</b>		SeqNo: <b>3557672</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.50	0	91.4	54.2	135			
Surr: DNOP	4.7		4.950		95.8	69	147			

Sample ID: <b>2306E05-003AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>FP-1</b>	Batch ID: <b>75875</b>		RunNo: <b>97779</b>							
Prep Date: <b>6/28/2023</b>	Analysis Date: <b>6/28/2023</b>		SeqNo: <b>3557673</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.9	49.50	0	83.4	54.2	135	9.21	29.2	
Surr: DNOP	4.3		4.950		87.8	69	147	0	0	

Sample ID: <b>LCS-75869</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>75869</b>		RunNo: <b>97779</b>							
Prep Date: <b>6/27/2023</b>	Analysis Date: <b>6/28/2023</b>		SeqNo: <b>3557674</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.9	69	147			

Sample ID: <b>MB-75869</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>75869</b>		RunNo: <b>97779</b>							
Prep Date: <b>6/27/2023</b>	Analysis Date: <b>6/28/2023</b>		SeqNo: <b>3557676</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

## Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E05  
05-Jul-23

Client: ENSOLUM

Project: State Com

Sample ID: MB-75869	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 75869	RunNo: 97779								
Prep Date: 6/27/2023	Analysis Date: 6/28/2023	SeqNo: 3557676		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	69	147			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 9

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E05  
05-Jul-23

Client: ENSOLUM  
Project: State Com

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: R97769		RunNo: 97769							
Prep Date:	Analysis Date: 6/28/2023		SeqNo: 3556438		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.9	70	130			
Surr: BFB	2000		1000		202	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: R97769		RunNo: 97769							
Prep Date:	Analysis Date: 6/28/2023		SeqNo: 3556439		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.3	15	244			

Sample ID: 2306E05-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-1	Batch ID: R97769		RunNo: 97769							
Prep Date:	Analysis Date: 6/28/2023		SeqNo: 3556940		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.6	17.97	0	87.8	70	130			
Surr: BFB	1400		718.9		201	15	244			

Sample ID: 2306E05-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-1	Batch ID: R97769		RunNo: 97769							
Prep Date:	Analysis Date: 6/28/2023		SeqNo: 3556941		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.6	17.97	0	86.8	70	130	1.10	20	
Surr: BFB	1400		718.9		197	15	244	0	0	

Sample ID: lcs-75862	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 75862		RunNo: 97769							
Prep Date: 6/27/2023	Analysis Date: 6/28/2023		SeqNo: 3556942		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		201	15	244			

Sample ID: mb-75862	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 75862		RunNo: 97769							
Prep Date: 6/27/2023	Analysis Date: 6/28/2023		SeqNo: 3556943		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	15	244			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



## QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E05

05-Jul-23

Client: ENSOLUM

Project: State Com

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: R97769			RunNo: 97769						
Prep Date:	Analysis Date: 6/28/2023			SeqNo: 3556443		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.4	70	130			
Toluene	0.89	0.050	1.000	0	89.1	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.7	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.6	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	39.1	146			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: R97769			RunNo: 97769						
Prep Date:	Analysis Date: 6/28/2023			SeqNo: 3556444		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	39.1	146			

Sample ID: 2306E05-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2	Batch ID: R97769			RunNo: 97769						
Prep Date:	Analysis Date: 6/28/2023			SeqNo: 3556948		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.018	0.7194	0	84.6	70	130			
Toluene	0.62	0.036	0.7194	0	86.7	70	130			
Ethylbenzene	0.63	0.036	0.7194	0	87.4	70	130			
Xylenes, Total	1.9	0.072	2.158	0	87.0	70	130			
Surr: 4-Bromofluorobenzene	0.67		0.7194		93.8	39.1	146			

Sample ID: 2306E05-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2	Batch ID: R97769			RunNo: 97769						
Prep Date:	Analysis Date: 6/28/2023			SeqNo: 3556949		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.57	0.018	0.7194	0	78.9	70	130	6.94	20	
Toluene	0.59	0.036	0.7194	0	81.4	70	130	6.30	20	
Ethylbenzene	0.59	0.036	0.7194	0	82.1	70	130	6.28	20	
Xylenes, Total	1.8	0.072	2.158	0	82.1	70	130	5.79	20	
Surr: 4-Bromofluorobenzene	0.67		0.7194		93.6	39.1	146	0	0	

## Qualifiers:

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

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

Page 8 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E05  
05-Jul-23

Client: ENSOLUM  
Project: State Com

Sample ID: Ics-75862	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 75862	RunNo: 97769								
Prep Date: 6/27/2023	Analysis Date: 6/28/2023	SeqNo: 3556950	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	39.1	146			

Sample ID: mb-75862	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 75862	RunNo: 97769								
Prep Date: 6/27/2023	Analysis Date: 6/28/2023	SeqNo: 3556951	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	39.1	146			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



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

## Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2306E05

RcptNo: 1

Received By: Tracy Casarrubias 6/28/2023 6:45:00 AM

Completed By: Tracy Casarrubias 6/28/2023 7:01:58 AM

Reviewed By: *CMC* 6/28/23

### Chain of Custody

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

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH:   
 Adjusted?   
 Checked by: *ju 6/28/23*

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: Phone and Email/Fax are missing on COC- TMC 6/28/23

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Yes	yogi		

Client: Ensolum, LLC

Mailing Address: 606 S Rio Grande

Swit A 87410

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC      ☐ Other

☐ EDD (Type)

Turn-Around Time: 10000

☐ Standard ☒ Rush 6-28-23

Project Name:

State com

Project #:

054 1221250

**Project Manager:**

K Summers

Sampler: C.D. Apont

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (Including CF):  $5.2 - 0 = 5.2$  ( $^{\circ}\text{C}$ )

Container Type and #	Container Name	Container ID	Container Image	Container Status	Container IP	Container Port	Container Description
Container Type and #	Container Name	Container ID	Container Image	Container Status	Container IP	Container Port	Container Description

Preservative  
Type

HEAL No.

73060505

6/27	1030	S	S-1
6/27	1035	S	S-2
6/27	1040	S	FP-1

1	402 Jar	Cool	001
	1	Cool	002
	1	Cool	003

## HALL ENVIRONMENTAL ANALYSIS LABORATORY


[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

Date: 6/27/23	Time: 1413	Relinquished by: 
------------------	---------------	---

Received by:	Via:	Date	Time
G. A. W. R.		6/27/23	1413

Remarks:	Tom Long
----------	----------

Date: 6/27/23	Time: 1812	Relinquished by: Christa Haack
------------------	---------------	-----------------------------------

Received by: Via: Courier Date: 12/28/93 Time: 6:45

game Day

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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 353892

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:	241602
	Action Number:	353892
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317847012
Incident Name	NAPP2317847012 STATE GAS COM #3 @ 0
Incident Type	Natural Gas Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	STATE GAS COM #3
Date Release Discovered	06/27/2023
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	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Condensate   Released: 2 BBL   Recovered: 0 BBL   Lost: 2 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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QUESTIONS, Page 2

Action 353892

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:	241602
	Action Number:	353892
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (b) may with reasonable probability reach a watercourse.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 06/13/2024
--	---

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 353892

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	353892
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	330
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0.1
GRO+DRO (EPA SW-846 Method 8015M)	0.1
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

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

On what estimated date will the remediation commence	06/27/2023
On what date will (or did) the final sampling or liner inspection occur	06/27/2023
On what date will (or was) the remediation complete(d)	06/27/2023
What is the estimated surface area (in square feet) that will be reclaimed	12
What is the estimated volume (in cubic yards) that will be reclaimed	35
What is the estimated surface area (in square feet) that will be remediated	12
What is the estimated volume (in cubic yards) that will be remediated	35

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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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 353892

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:	241602
	Action Number:	353892
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	ENVIROTECH LANDFARM #1 [FEEM0112334691]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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.
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 06/13/2024
<i>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.</i>	

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QUESTIONS, Page 5  
  
Action 353892

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	353892
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Deferral Requests Only</b>	
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

**District I**1625 N. French Dr., Hobbs, NM 88240  
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QUESTIONS, Page 6

Action 353892

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	353892
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	353893
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/27/2023
What was the (estimated) number of samples that were to be gathered	3
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	12
What was the total volume (cubic yards) remediated	35
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	12
What was the total volume (in cubic yards) reclaimed	35
Summarize any additional remediation activities not included by answers (above)	none

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

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

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 06/13/2024
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**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 353892
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS  
  
Action 353892

CONDITIONS

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CONDITIONS

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