

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email: tjlong@eprod.com	Incident # (assigned by OCD): nAPP2132227694
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.80451** Longitude **-107.99446** (NAD 83 in decimal degrees to 5 decimal places)

Site Name Aztec Com 4#2	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 11/16/2021	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
B	21	30N	11W	San Juan

Surface Owner: State Federal Tribal Private (Name: **Duane Meador**)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): 3-5 BBLS	Volume Recovered (bbls): None
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 0.781 MCF	Volume Recovered (Mcf): None
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On November 10, 2021, Enterprise had a release of natural gas and natural gas liquids from the Aztec Gas Com #2 pipeline. The pipeline was isolated, depressurized, locked and tagged out. An area of approximately five feet long by five feet wide was impacted by the released fluids. No washes were affected. No residences were affected. The Aztec Fire Department responded to this release as a precaution after being reported by public, however there was no fire. On November 16, 2021, Enterprise determined the release reportable due the volume of impacted subsurface soil. Remediation and repairs were completed on November 18, 2021. The final excavation dimensions measured approximately 22.5 feet long by 14 feet wide by seven feet deep. Approximately 126 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

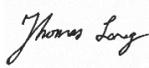
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature:  Date: 02-14-2022

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: 06/10/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv



CLOSURE REPORT

Property:

**Aztec Gas Com 4#2 (11/16/21)
Unit Letter B, S21 T30N R11W
San Juan County, New Mexico**

New Mexico EMNRD OCD Incident ID No. NAPP2132227694

February 2, 2022
Ensolum Project No. 05A1226167

Prepared for:

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

Prepared by:

A handwritten signature in blue ink, appearing to read "Chad D'Aponti".

Chad D'Aponti
Project Scientist

A handwritten signature in blue ink, appearing to read "Kyle Summers".

Kyle Summers
Senior Project Manager

Closure Report
Enterprise Field Services, LLC
Aztec Gas Com 4#2 (11/16/21)
February 2, 2022



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Closure Report
Enterprise Field Services, LLC
Aztec Gas Com 4#2 (11/16/21)
February 2, 2022



1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Aztec Gas Com 4#2 (11/16/21) (Site)
Incident ID	NAPP2132227694
Location:	36.80451° North, 107.99446° West Unit Letter B, Section 21, Township 30 North, Range 11 West San Juan County, New Mexico
Property:	Private
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On November 10, 2021, Enterprise discovered a release on the Aztec Gas Com 4#2 pipeline. Enterprise isolated and locked the pipeline out of service. On November 16, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. In addition, Enterprise determined the release was “reportable” due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. To address activities related to oil and gas releases, the NM EMNRD OCD references NM 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. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the NM Office of the State Engineer (OSE) and the NM EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

- The 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 same Public Land Survey System (PLSS) section as the Site and in adjacent sections. The average depth to water for the PODs located in this PLSS section and in adjacent PLSS sections is approximately 21 feet below grade surface (bgs). The closest PODs (SJ-02923, SJ-03257, SJ-03265, and SJ-03310) are located approximately 0.8 miles from the Site. The average depth to water for these four PODS is 43 feet bgs (**Figure A, Appendix B**).

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February 2, 2022



- Numerous cathodic protection wells (CPWs) were identified in the same PLSS section and in the adjacent PLSS sections in the NM EMNRD OCD imaging database. Seven CPWs are located within one mile of the Site and are depicted on **Figure B (Appendix B)**. The records for the cathodic protection well located near the Fifield #4 well location indicate a depth to water of approximately 100 feet bgs. This cathodic protection well is located approximately 0.5 miles southwest of the Site and is approximately four feet lower in elevation than the Site. The records for the cathodic protection well located near the Fuller #1, #3 well locations indicate a depth to water of approximately 80 feet bgs. This cathodic protection well is located approximately 0.6 miles southeast of the Site and is approximately 31 feet higher in elevation than the Site. The records for the cathodic protection well located near the Gonzales State Com #1 well location indicate a depth to water of approximately 120 feet bgs. This cathodic protection well is located approximately 0.75 miles north of the Site and is approximately 58 feet lower in elevation than the Site. The records for the cathodic protection well located near the Morris A#6 well location indicate a depth to water of approximately 140 feet bgs. This cathodic protection well is located approximately 0.75 miles southwest of the Site and is approximately 33 feet higher in elevation than the Site. The records for the cathodic protection well located near the Taylor #1R, Com #2 well locations indicate a depth to water of approximately 65 feet bgs. This cathodic protection well is located approximately 0.80 miles west of the Site and is approximately 78 feet lower in elevation than the Site. The records for the cathodic protection well located near the Elliott Fed #1-22 and Morris A#10 well locations indicate a depth to water of approximately 125 feet bgs. This cathodic protection well is located approximately 0.90 miles southeast of the Site and is approximately 63 feet higher in elevation than the Site. The records for the cathodic protection well located near the Morris Com #101 well location indicate a “seep” at 100 feet bgs. This cathodic protection well is located approximately one mile southwest of the Site and is approximately 49 feet higher in elevation than the Site.
- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The Site is located approximately 795 feet southeast of Williams Arroyo (**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 fresh water 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 fresh water wells or springs were identified within 1,000 feet of the Site. The residences located within the 1,000 feet may have unregistered water wells (**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 located 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 located within an area overlying a subsurface mine (**Figure G, Appendix B**).
- The Site is not located within an unstable area.

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

Based on the identified siting criteria, Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain “uncontaminated” soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. None of the samples collected below four feet bgs exceeded the Tier I closure criteria, so Tier II closure criteria were not included in the report. The Tier I closure criteria 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 kilograms (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 November 16, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors (West States) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 22.5 feet long and 14 feet wide at the maximum extents. The maximum depth of the excavation measured approximately seven feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of sand and gravel underlain by sandstone.

An estimated total of 126 cubic yards of petroleum hydrocarbon affected soil and 30 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 imported fill and was compacted and then contoured to the surrounding topography.

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

4.0 SOIL SAMPLING PROGRAM

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

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Enterprise Field Services, LLC
Aztec Gas Com 4#2 (11/16/21)
February 2, 2022



Ensolum's soil sampling program included the collection of five composite soil samples (S-1 through S-5) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. A hand tool was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On November 16, 2021, the first sampling event 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'-7') and S-2 (0'-7') were collected from the end walls of the excavation before the excavation was extended to north and south to allow for additional pipeline replacement.

Second Sampling Event

On November 18, 2021, the second sampling event 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-3 (7') was collected from the floor of the excavation. Composite soil samples S-4 (0'-7') and S-5 (0'-4') were collected from the sloped walls of the excavation.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-5) to the NM EMNRD OCD Tier I closure criteria.

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD Tier I closure criteria of 10 mg/kg.
- The laboratory analytical results the composite soil samples indicate total BTEX concentrations ranging from less than the laboratory PQLs/RLs to 0.31 mg/kg (S-5), which are less than the NM EMNRD OCD Tier I closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples indicate total TPH GRO/DRO/MRO concentrations ranging from less than the laboratory PQLs/RLs to 15 mg/kg (S-5), which are less than the NM EMNRD OCD Tier I closure criteria of 100 mg/kg.

- The laboratory analytical results for the composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD Tier I closure criteria of 600 mg/kg.

The laboratory analytical results are summarized in **Table 1 (Appendix F)**.

7.0 RECLAMATION AND REVEGETATION

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

8.0 FINDINGS AND RECOMMENDATION

- Five composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 126 cubic yards of petroleum hydrocarbon affected soil and 30 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

9.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the

Closure Report
Enterprise Field Services, LLC
Aztec Gas Com 4#2 (11/16/21)
February 2, 2022

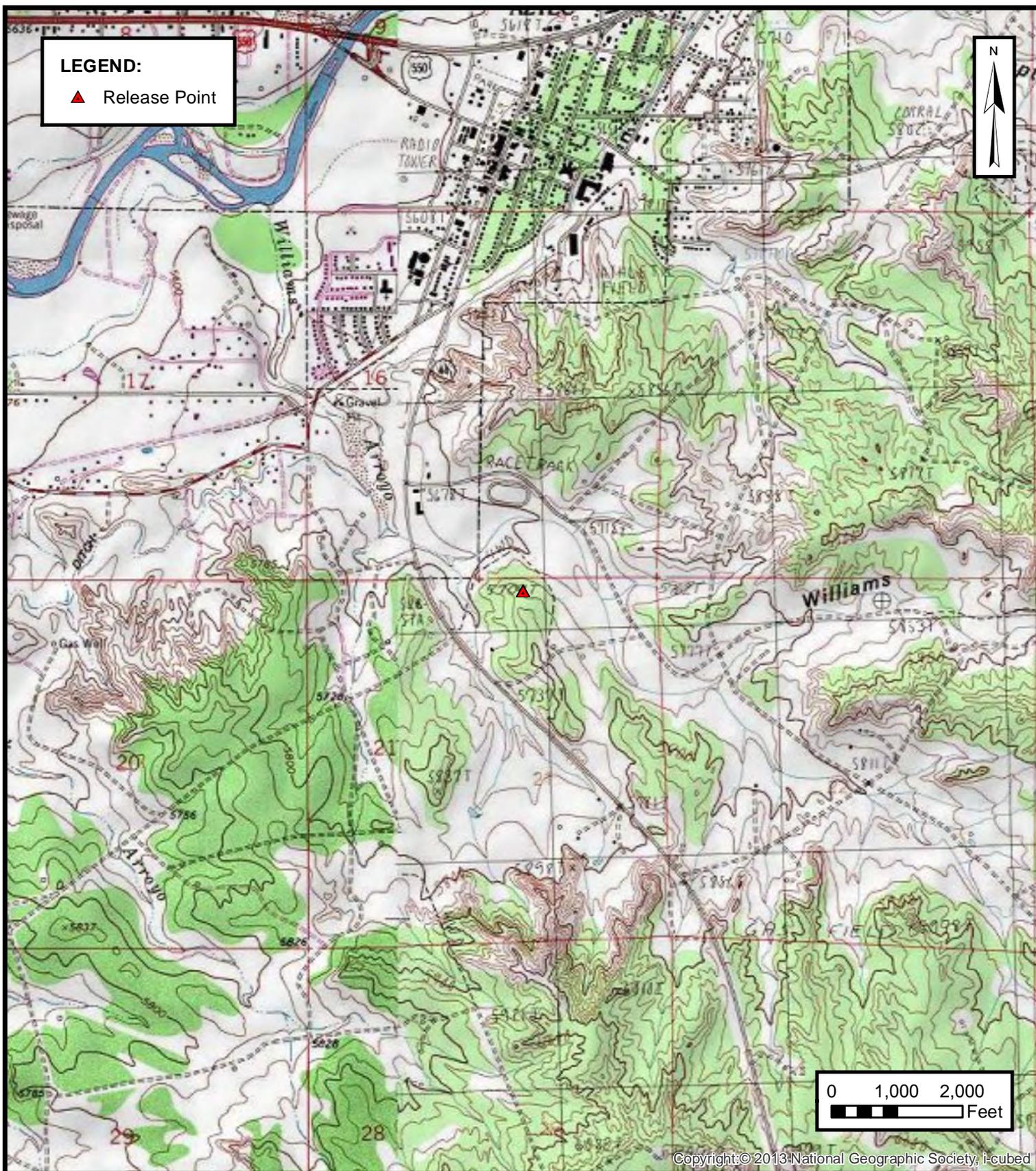


express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

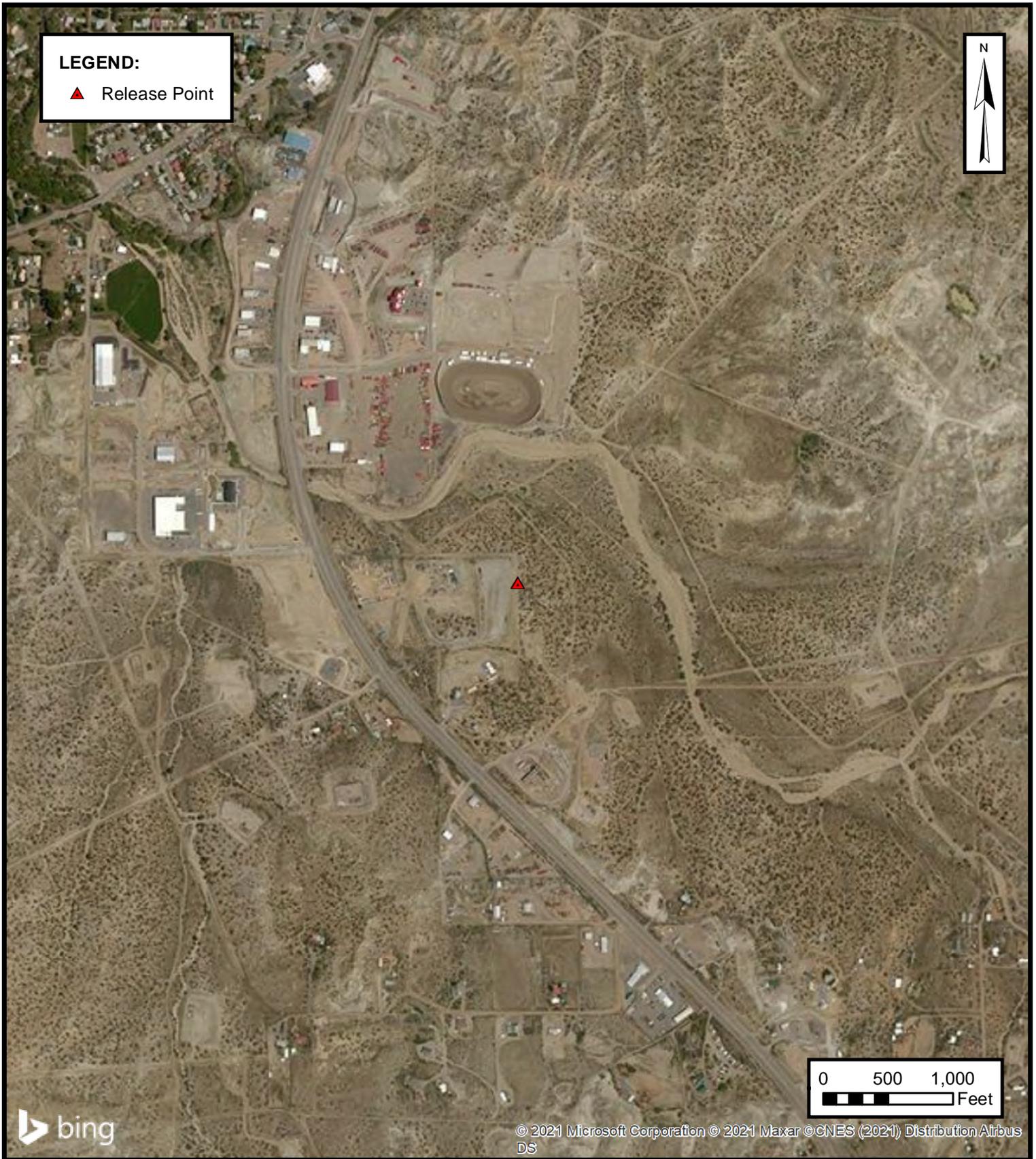
Figures



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Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP
 ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W
 PROJECT NUMBER: 05A1226167

FIGURE
1



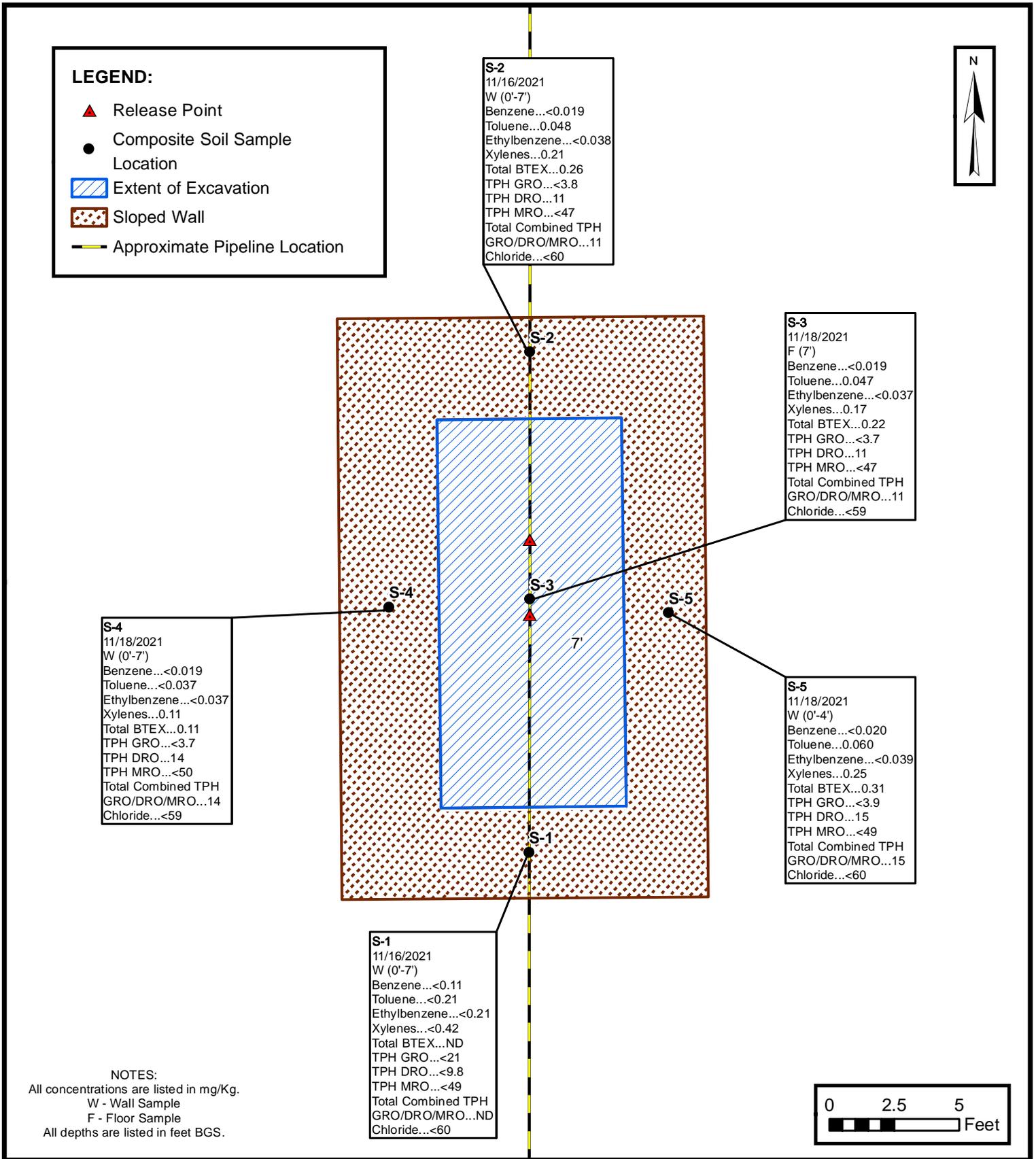
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SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W

PROJECT NUMBER: 05A1226167

FIGURE
2



SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W

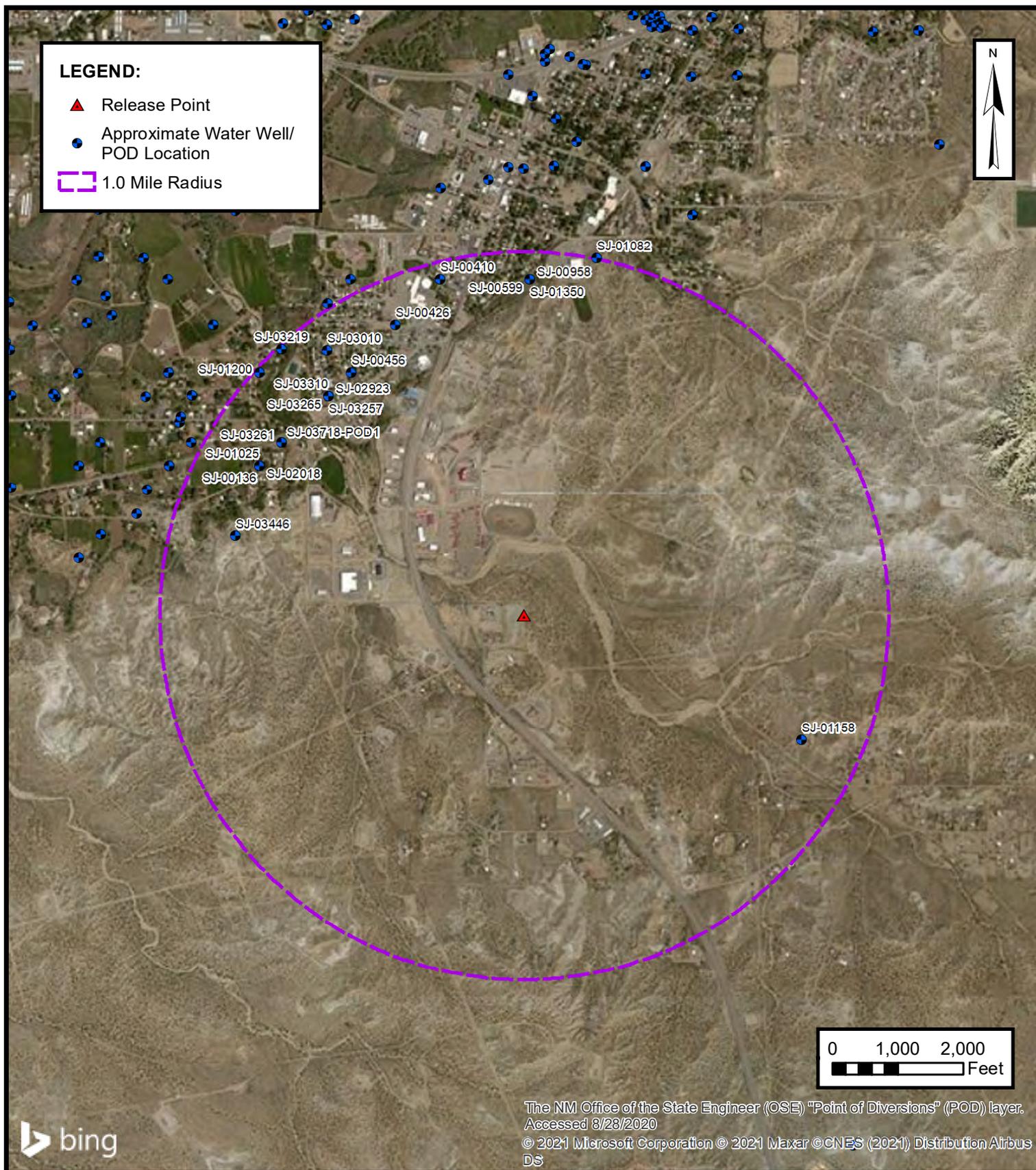
PROJECT NUMBER: 05A1226167

FIGURE
3



APPENDIX B

Siting Figures and Documentation

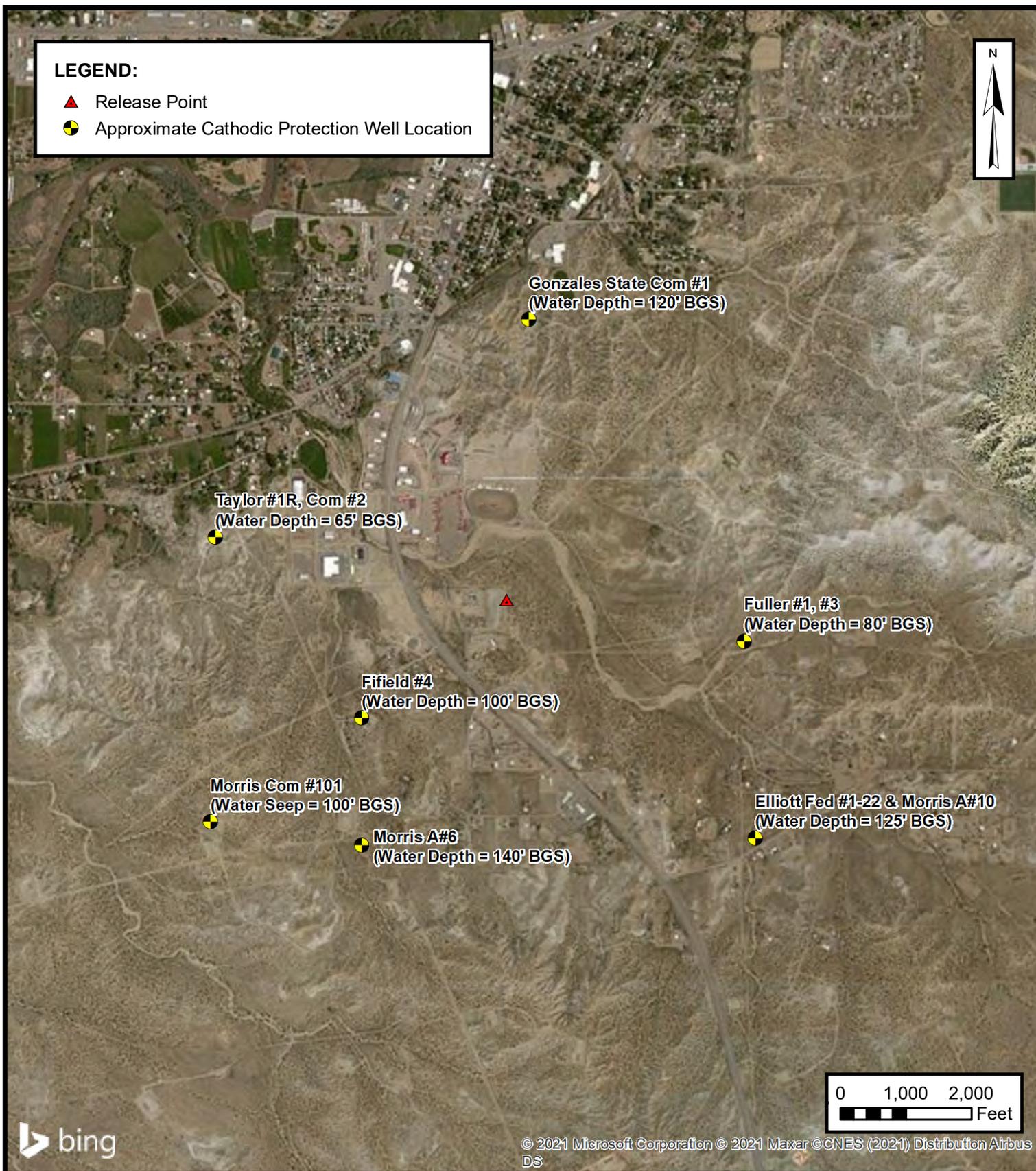


1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W

PROJECT NUMBER: 05A1226167

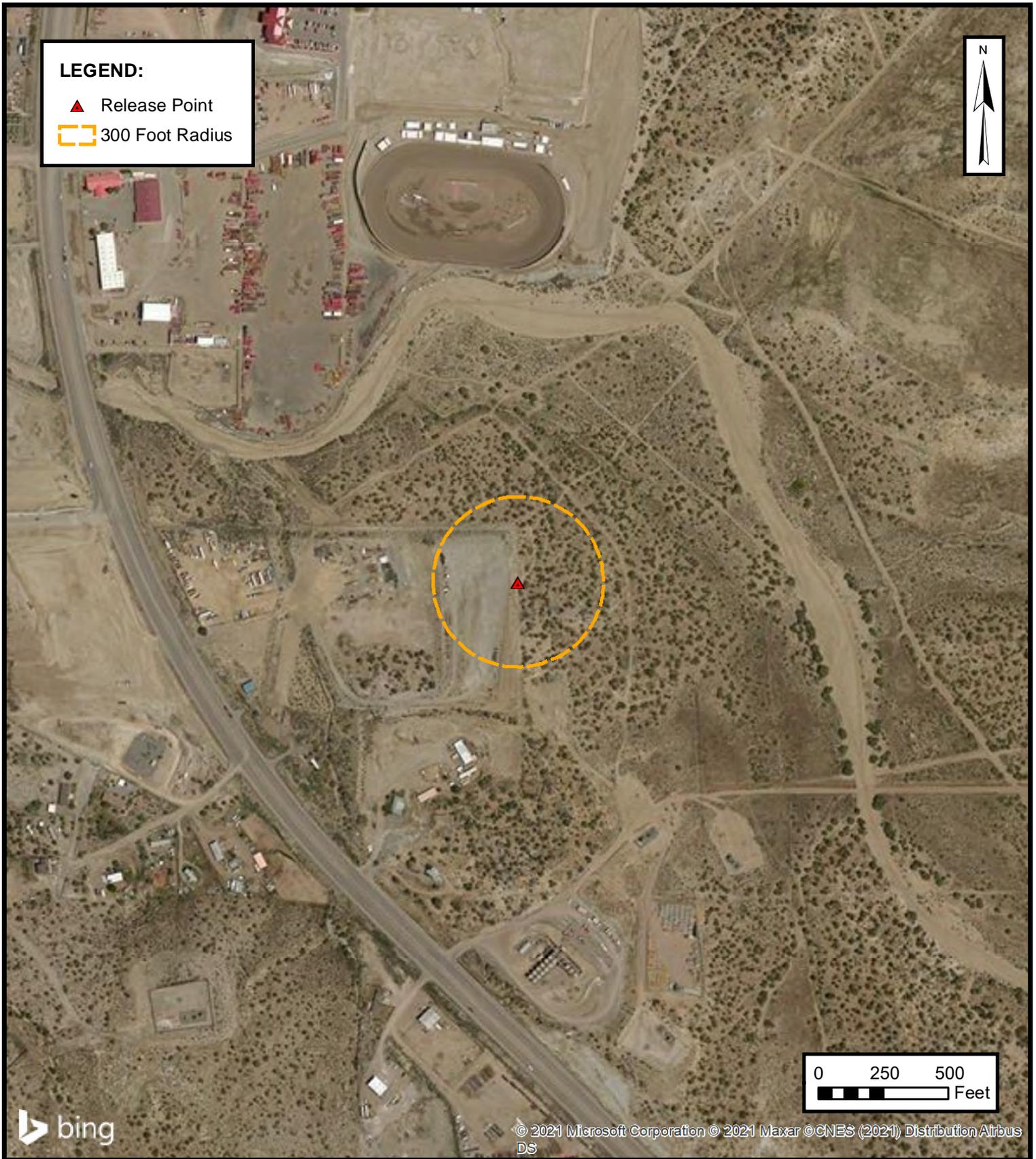
FIGURE
A



CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER
 ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W

PROJECT NUMBER: 05A1226167

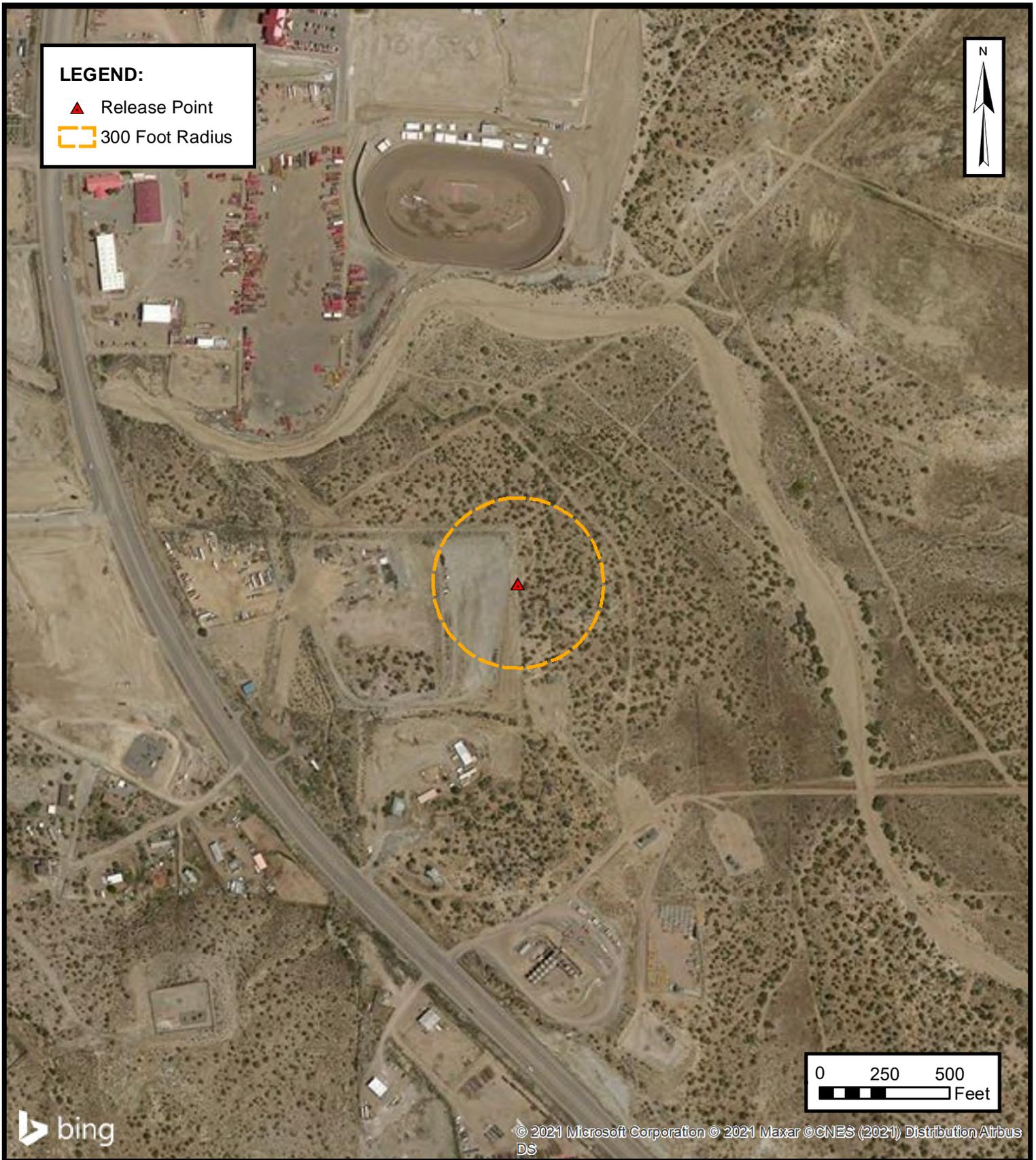
FIGURE B



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**300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION**
 ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W
 PROJECT NUMBER: 05A1226167

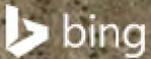
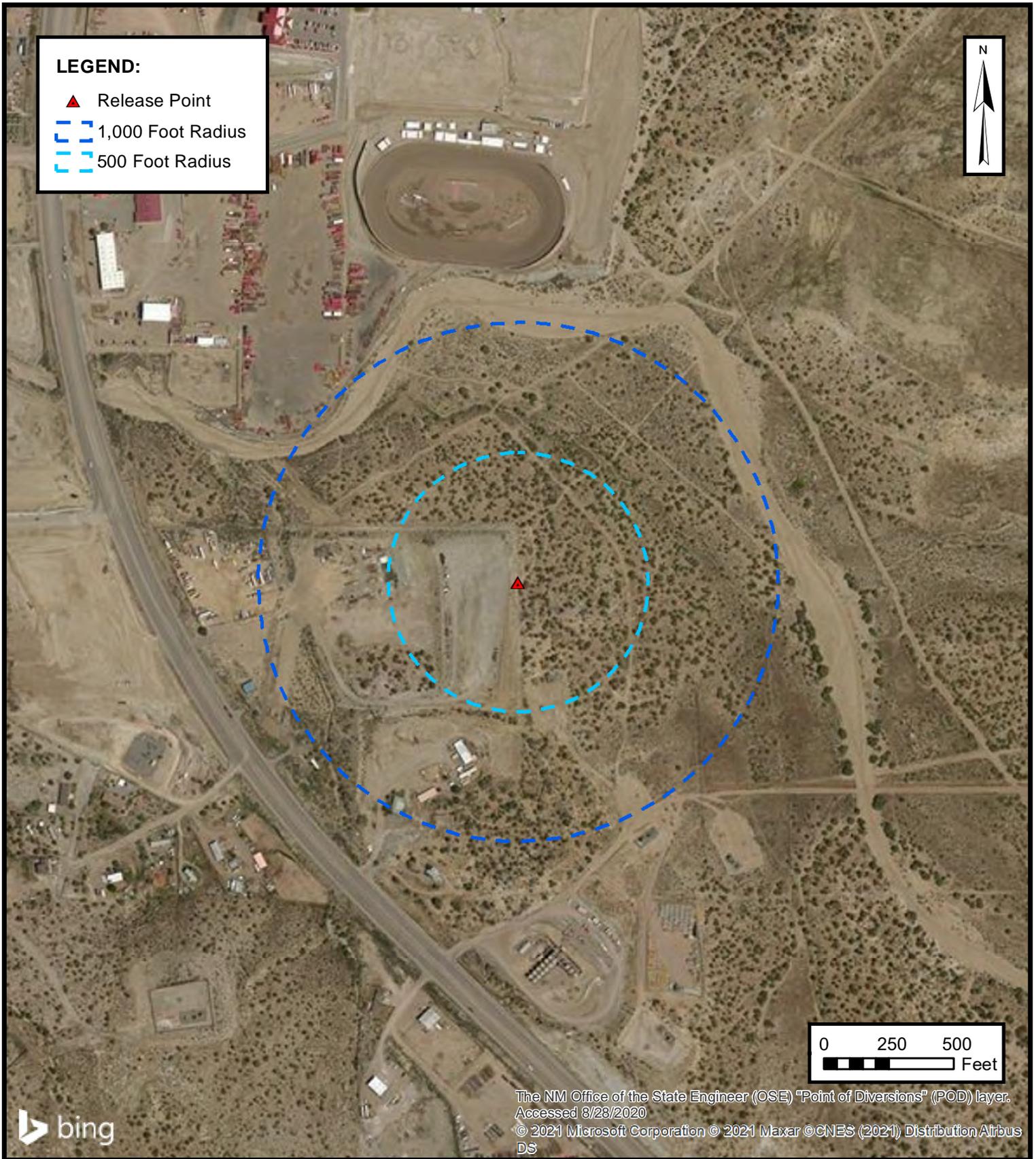
**FIGURE
C**



**300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION**
 ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W

PROJECT NUMBER: 05A1226167

**FIGURE
D**



WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
AZTEC GAS COM 4#2 (11/16/21)

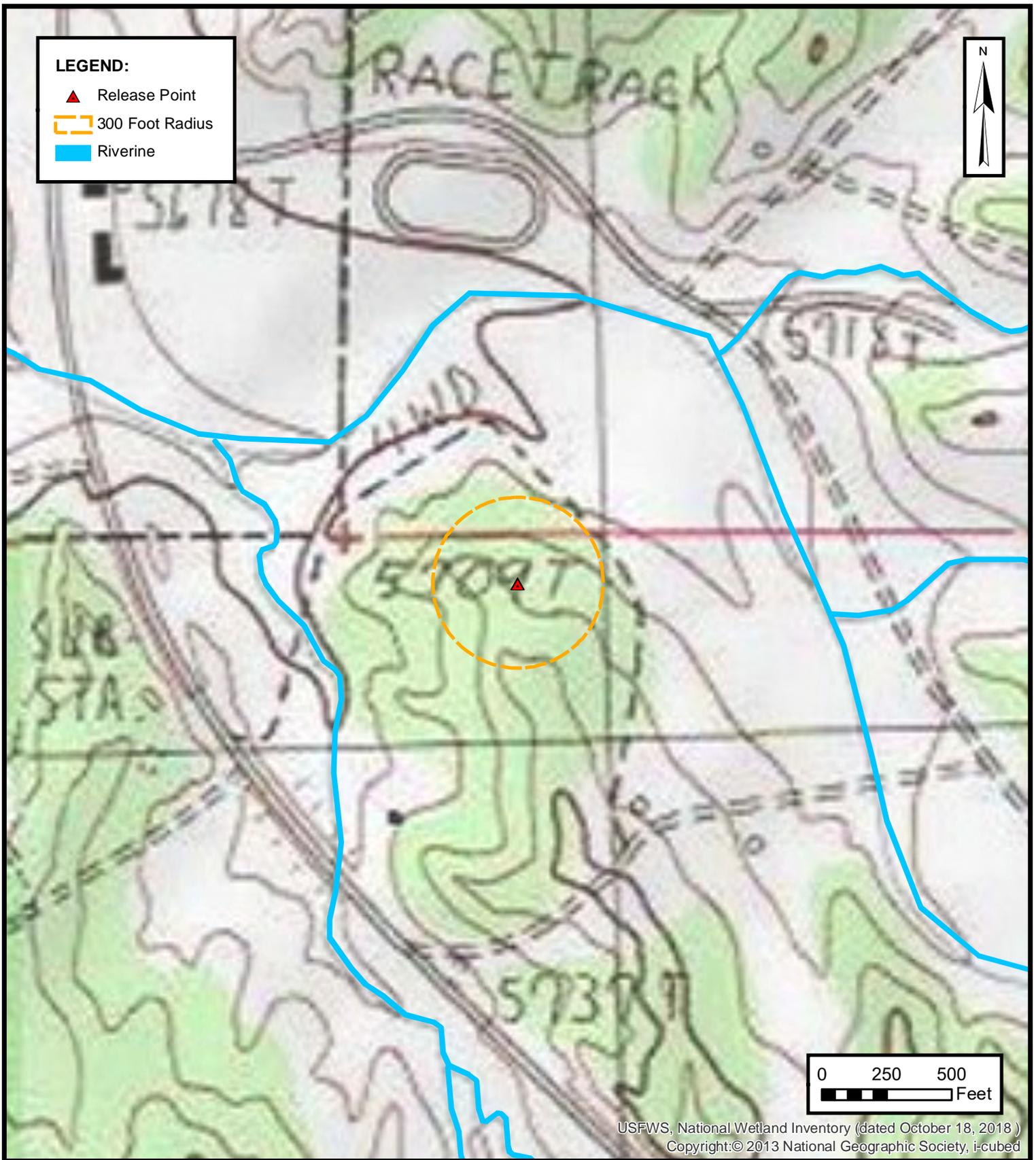
Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
36.80451° N, 107.99446° W

PROJECT NUMBER: 05A1226167

**FIGURE
E**



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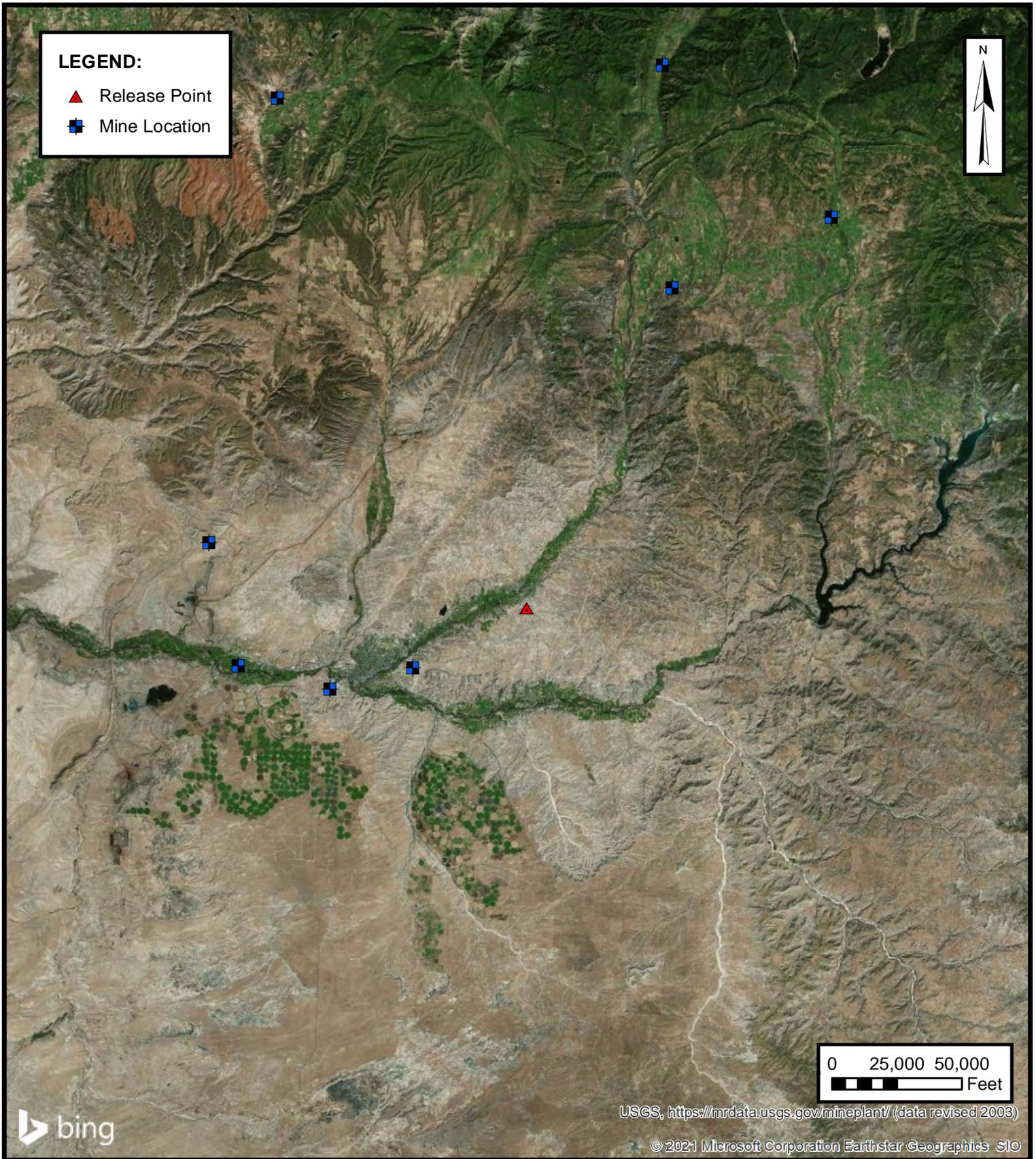


WETLANDS

ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W

PROJECT NUMBER: 05A1226167

FIGURE
F



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MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W

PROJECT NUMBER: 05A1226167

FIGURE

G



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100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
 AZTEC GAS COM 4#2 (11/16/21)
 Unit Letter B, S21 T30N R11W, San Juan County, New Mexico
 36.80451° N, 107.99446° W

PROJECT NUMBER: 05A1226167

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
SJ 00136	SJAR	SJ		2	4	17	30N	11W		231716	4078065*	69	35	34
SJ 00159	SJAR	SJ		1	3	17	30N	11W		230530	4078103*	35	8	27
SJ 00166	SJAR	SJ		3	2	17	30N	11W		231332	4078482*	48	11	37
SJ 00234	SJAR	SJ		1	4	17	30N	11W		231324	4078076*	54	23	31
SJ 00410	SJAR	SJ		2	1	16	30N	11W		232531	4078851*	61	45	16
SJ 00411	SJAR	SJ		1	4	17	30N	11W		231324	4078076*	60	25	35
SJ 00457	SJAR	SJ		2	1	4	17	30N	11W	231423	4078175*	52	18	34
SJ 00650	SJAR	SJ		3	1	4	17	30N	11W	231223	4077975*	49	18	31
SJ 00665	SJAR	SJ		1	2	17	30N	11W		231341	4078888*	28	14	14
SJ 00745	SJAR	SJ			2	17	30N	11W		231533	4078683*	54	30	24
SJ 01057	SJAR	SJ		3	2	17	30N	11W		231332	4078482*	63	28	35
SJ 01060	SJAR	SJ		3	2	17	30N	11W		231332	4078482*	58	23	35
SJ 01082	SJAR	SJ		1	2	2	16	30N	11W	233215	4078924*	80	34	46
SJ 01200	SJAR	SJ		4	2	17	30N	11W		231731	4078471*	50	20	30
SJ 01296	SJAR	SJ		2	3	17	30N	11W		230927	4078089*	50	10	40
SJ 01342	SJAR	SJ		1	1	2	17	30N	11W	231240	4078987*	26	5	21
SJ 01528	SJAR	SJ		1	1	17	30N	11W		230548	4078912*	26	10	16
SJ 01722	SJAR	SJ			1	17	30N	11W		230745	4078706*	20	8	12
SJ 01722 POD2	SJAR	SJ		4	2	1	17	30N	11W	230985	4078712	17	3	14
SJ 01810	SJAR	SJ		4	3	17	30N	11W		230916	4077685*	29	9	20
SJ 01847	SJAR	SJ		1	4	17	30N	11W		231324	4078076*	30	6	24
SJ 01899	SJAR	SJ		2	3	1	17	30N	11W	230643	4078604*	27	7	20
SJ 01948	SJAR	SJ		2	1	17	30N	11W		230944	4078900*	21	3	18
SJ 02018	SJAR	SJ		2	4	17	30N	11W		231716	4078065*	100	40	60
SJ 02773	SJAR	SJ		3	1	1	16	30N	11W	232037	4078763*	46	25	21
SJ 02817	SJAR	SJ		2	2	1	17	30N	11W	231043	4078999*	15		

*UTM location was derived from PLSS - see Help

(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
SJ 02923	SJAR	SJ		3	3	1	16	30N	11W	232028	4078358*	75	40	35
SJ 03010	SJAR	SJ		1	3	1	16	30N	11W	232028	4078558*	80	40	40
SJ 03219	SJAR	SJ		2	4	2	17	30N	11W	231830	4078570*	68	38	30
SJ 03241	SJAR	SJ		3	3	2	17	30N	11W	231231	4078381	75	20	55
SJ 03249	SJAR	SJ		2	2	3	17	30N	11W	231026	4078188*	55	12	43
SJ 03257	SJAR	SJ		3	3	1	16	30N	11W	232028	4078358*	80	40	40
SJ 03261	SJAR	SJ		2	2	4	17	30N	11W	231815	4078164*	88	50	38
SJ 03265	SJAR	SJ		3	3	1	16	30N	11W	232028	4078358*	90	70	20
SJ 03266	SJAR	SJ		3	4	1	17	30N	11W	230837	4078392*	30	10	20
SJ 03269	SJAR	SJ		4	3	2	17	30N	11W	231431	4078381*	80	10	70
SJ 03276	SJAR	SJ		4	1	3	17	30N	11W	230629	4078002*	60	20	40
SJ 03310	SJAR	SJ		3	3	1	16	30N	11W	232028	4078358*	55	20	35
SJ 03319	SJAR	SJ		4	3	1	17	30N	11W	230643	4078404*	55	31	24
SJ 03373	SJAR	SJ		3	1	1	17	30N	11W	230447	4078811*	50	35	15
SJ 03436	SJAR	SJ		3	4	1	17	30N	11W	230837	4078392*	20		
SJ 03718 POD1	SJAR	SJ		2	2	4	17	30N	11W	231815	4078164*	68	41	27
SJ 03750 POD1	SJAR	SJ		3	3	1	17	30N	11W	230499	4078391	20	6	14
SJ 03771 POD1	SJAR	SJ		3	3	1	17	30N	11W	230499	4078391	20	6	14
SJ 03821 POD 1	SJAR	SJ		3	4	1	17	30N	11W	230826	4078404	13	1	12
SJ 03853 POD1	SJAR	SJ		2	1	4	17	30N	11W	231375	4078263	38	24	14
SJ 04096 POD1	SJAR	SJ		4	3	2	17	30N	11W	231379	4078288	66	25	41
SJ 04150 POD1	SJAR	SJ		2	3	1	17	30N	11W	230627	4078637	20	15	5
SJ 04274 POD1	SJAR	SJ		1	3	1	17	30N	11W	230507	4078501	30	30	0
SJ 04355 POD1	SJAR	SJ		4	2	1	17	30N	11W	231070	4078825	22	4	18
SJ 04356 POD1	SJAR	SJ		4	2	1	17	30N	11W	231094	4078739	38	3	35
SJ 04443 POD1	SJAR	SJ		2	1	2	17	30N	11W	231486	4078985	50		

*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.

Average Depth to Water: **21 feet**

Minimum Depth: **1 feet**

Maximum Depth: **70 feet**

Record Count: 52

PLSS Search:

Section(s): 21, 15, 16, 17, **Township:** 30N **Range:** 11W
20, 22, 27, 28,
29

30-045-26625

3943

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 E Sec. 21 Twp 30 Rng 11

Name of Well/Wells or Pipeline Serviced FIFIELD #4

cps 190'

Elevation 5754' Completion Date 11/5/87 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. 100' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 350', 340', 330', 320', 310', 300', 290', 280', 270', 260'

Depths vent pipes placed: 380'

Vent pipe perforations: 280'

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.

MERIDIAN OIL INC.
WELL CASING

OK Burr

27 0238 (Rev. 10-82)

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto)

Completion Date 11-5-87

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check						
1902W	FIFIELD # 4 FIFIELD		.79 IV	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad						
Location	Anode Size	Anode Type	Size Bar:							
E21-30-11	2" x 60"	Duriron	6 3/4"							
Feet Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used						
380	375									
Anode Depth	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
= 350'	= 340'	= 330'	= 320'	= 310'	= 300'	= 290'	= 280'	= 270'	= 260'	
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
= 5.3	= 5.2	= 5.4	= 5.9	= 5.0	= 5.8	= 5.9	= 6.2	= 7.2	= 6.9	
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	Volts		Amps		Ohms		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
	11.6		20.3		.57					

Remarks: DRILLED 380' ; LOGGED 375' DRILLER SAID WATER AT 100' NOT ENOUGH FOR SAMPLE. INSTALLED 380' OF 1" PVC VENT PIPE ; PERFORATED BOTTOM 280'

Rectifier Size: 40 V 16 A
 Addn'l Depth: _____
 Depth Credit: 125 ✓
 Extra Cable: 30 ✓
 Ditch & 1 Cable: 10 ✓
 Ditch & 2 Cable: 180 -?
 25' Meter Pole: _____
 20' Meter Pole: 1
 10' Stub Pole: _____
 Junction Box: 1

All Construction Completed

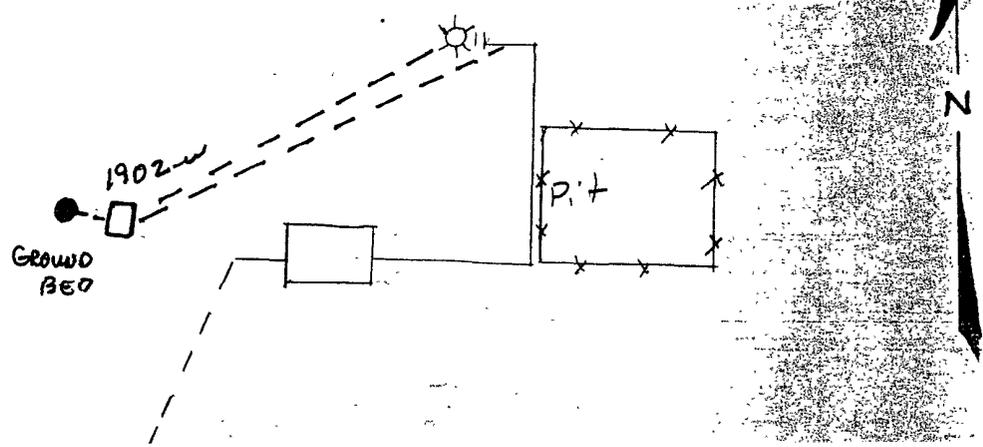
Randy Smith
(Signature)

4300.00 ✓
 -437.50 ✓

 7.50 ✓ 3862.50
 4.30 ✓
 176.40 ✓ 99.00
 300.00
 40.00

 4390.70 431330
 219.54 21567

 4610.24 4528.97 OK



5254

BURGL CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141

AZTEC, NEW MEXICO 87410

DEEP WELL GROUND BED LOG

Date 11-4-87

Company Fifeild #4 Meridian Oil

Well No. 4 Location Fifeild Volts Applied 11.6 Amperes 20.3

Depth (ft)	Reading 1	Reading 2	Reading 3	Reading 4	Reading 5	Reading 6	Reading 7	Reading 8	Reading 9	Reading 10
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
85										
90										
95										
100	2.4	2.8								
105	2.8	2.2								
110	2.8	2.1								
115	2.4	1.9								
120	2.5	1.9								
125	2.6	1.7								
130	2.6	1.9								
135	2.6	1.8								
140	2.5	1.9								
145	2.4	1.8								
150	2.4	1.8								
155	2.3	1.8								
160	1.8	1.5								
165	2.2	1.6								
170	2.3	1.8								
175	2.3	1.8								
180	2.1	1.6								
185	2.0	1.5								
190	1.5	1.1								
195	2.0	1.5								
200	1.5	1.3								
205	1.9	1.3								
210	2.6	1.9								
215	1.9	1.4								
220	2.1	1.7								
225	1.8	1.6								

BURGE CORROSION SYSTEMS, INC.
 P. O. BOX 1359
 AZTEC, NEW MEXICO 87410
 DRILLING AND LOGGING LOG

1902W

JOB NUMBER 147
 WELL NAME Fifield #4
 COMPANY NAME MERIDIAN

HOLE DIAMETER 6 3/4 IN
 HOLE DEPTH _____ FT
 NUM OF ANODES _____

DATE 11-3-87

LEGAL DESCRIPTION 1/4 E S 21 T 30 R 11

WATER DEPTH 140 FT

FINAL READING _____ VOLTS
 FINAL READING _____ AMPS
 FINAL READING _____ OHMS

HOLE DEPTH	SOIL TYPE	LOG	INITIAL			HOLE DEPTH	SOIL TYPE	LOG	FINAL			SOIL TYPE	LOG	INITIAL			FINAL		
			AMPS	AMPS	AMPS				AMPS	AMPS	AMPS			AMPS	AMPS	AMPS	AMPS	AMPS	AMPS
5	Sand					245	11				485								
10	Sand					250	11				490								
15	Sandstone					255	11				495								
20	11					260	11				500								
25	Water Sand					265	11				505								
30	11					270	11				510								
35	11					275	11				515								
40	Shale Clay					280	Shale				520								
45	11					285					525								
50	11					290	Sandstone				530								
55	11					295	11				535								
60	11					300	Water Sand				540								
65	11					305	11				545								
70	11					310	Shale				550								
75	11					315	11				555								
80	11					320	Water Sand				560								
85	11					325	11				565								
90	11					330	11				570								
95	11					335	Shale				575								
100	11					340	11				580								
105	Shale					345	11				585								
110	11					350	11				590								
115	11					355	Sandstone				595								
120	11					360	11				600								
125	11					365	11				605								
130	11					370	11				610								
135	11					375	11				615								
140	11					380	11				620								
145	11					385	11				625								
150	11					390					630								
155	11					395					635								
160	11					400					640								
165	11					405					645								
170	11					410					650								
175	11					415					655								
180	11					420					660								
185	11					425					665								
190	Sandstone					430					670								
195	11					435					675								
200	Shale					440					680								
205	11					445					685								
210	11					450					690								
215	Water Sand					455					695								
220	11					460					700								
225	Shale					465					705								
230	11					470					710								
235	Water Sand					475					715								
240	11					480					720								

30-045-09392
3 30-045-26626

3944

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. 22 Twp 30 Rng. 11

Name of Well/Wells or Pipeline Serviced FULLER #1, #3
cps 1903w

Elevation 5789' Completion Date 11/11/87 Total Depth 280' Land Type* N/A

Casing, Sizes, Types & Depths 65' OF 7" PVC CASING

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' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 245', 230', 210', 200', 190', 170', 160', 150', 140', 130'

Depths vent pipes placed: N/A

Vent pipe perforations: 220'

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.

MERIDIAN OIL INC.

Post Office Box 4239
 Farmington, New Mexico 87499

(505) 327-0251

WELL CASING

Running Log (Attach Here)

CATHODIC PROTECTION CONSTRUCTION REPORT Completion Date 11-11-87
 DAILY LOG

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins. Union Check											
1903w	Fuller #3 Fuller #1		.79 N	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad											
Location	Anode Size	Anode Type	Size Bit												
C22-30-11	2" x 60"	Duriron	6 3/4												
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Loss Circulation Mat'l Used											
290	276'	6 hrs													
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10					
	245'	230'	210'	200'	190'	170'	160'	150'	140'	130'					
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10					
	4.0	3.8	3.7	4.4	4.1	4.7	5.9	5.9	5.4	6.0					
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	Volts					Amps					Ohms				
	11.8					17.9					.66				
						No. 8 C.P. Cable Used					No. 2 C.P. Cable Used				

Remarks: Set a total of 45' of 7" casing. Vent pipe is perforated up to 60'. Water was at 90'. No water sample was taken.

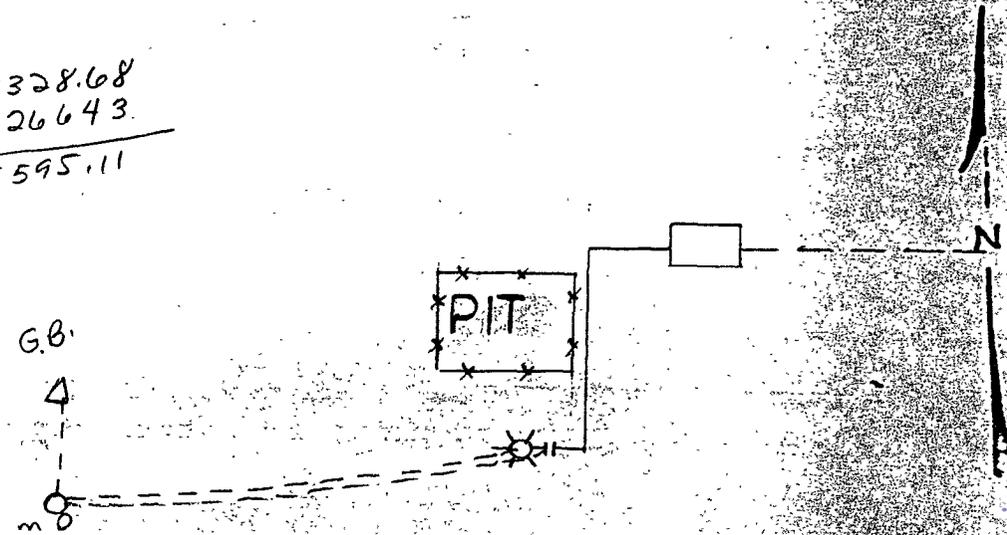
40 16 4300.00 ✓ 140.00 @ 3 hrs.
 Rectifier Size: 60 V 28 A
 Add'l Depth: 420.00 - casing
 Depth Credit: 224.00 ✓ 3.50
 Extra Cable: 30 ✓ 7.50
 Ditch & 1 Cable: 86' ✓ 36.98
 Ditch & 2 Cable: 124' ✓ 68.20
 25' Meter Pole:
 20' Meter Pole: 300.00 ✓
 10' Stub Pole:
 Junction Box: 40.00 ✓

All Construction Completed

Randy Smith
 (Signature)

GROUND BED LAYOUT SKETCH

5638.68 5328.68
 1x 281.93 26643.
 5920.61 5595.11



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

Operator Meridian Oil Inc. Location: Unit G Sec. 16 Twp 30 Rng 11

Name of Well/Wells or Pipeline Serviced Gonzales State Com #1

Elevations 5700 Completion Date 7-20-95 Total Depth 380 Land Type F

Casing Strings, Sizes, Types & Depths Set 96' of 8" P.O.C.

If Casing Strings are cemented, show amounts & types used Cemented with 17 sacks of Type I & II cement.

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

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 120 and was clear

Depths gas encountered: no gas

Ground bed depth with type & amount of coke breeze used: 380 with 108 (5016) sacks of Asbery 218R

Depths anodes placed: #1 is at 365 and #15 is at 155

Depths vent pipes placed: Bottom to Surface

Vent pipe perforations: up to 130'

Remarks: _____

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JAN 11 1996

OIL CON. DIV.
DIST. 3

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

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

30-045-09331

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

Operator Meridian Oil Inc. Location: Unit 2 Sec. 21 Twp 30 Rng 11

Name of Well/Wells. or Pipeline Serviced _____

Morris A#6

Elevation 5791 Completion Date 10/9/94 Total Depth 448' Land Type P

Casing Strings, Sizes, Types & Depths 10/8 Set 99' of 8" PVC casing.

NO GAS or Boulders, BUT WATER WAS ENCOUNTERED AT 55' DURING CASING.

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

WITH 20 SACKS.

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

NONE

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

Salty, Sulphur, Etc. HIT SOME FRESH WATER AT 140', AND A MAJOR FRESH

WATER VEIN AT 375'. A WATER SAMPLE WAS TAKEN.

Depths gas encountered: NONE

Ground bed depth with type & amount of coke breeze used: 448' Depth.

Used 58 SACKS OF Lotesco SW (5800#)

Depths anodes placed: 425', 416', 405', 395', 385', 375', 365', 355', 220', 195', 185', 170', 160', 150', + 140'.

Depths vent pipes placed: SURFACE TO 448'.

Vent pipe perforations: BOTTOM 320'.

Remarks: _____

RECEIVED
R
JAN 20 1995

OIL CORP. DIV.
DIST. 9

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.

#1R 30-045-22990
COM #2 30-045-26842

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 P Sec. 17 Twp 30 Rng 11

Name of Well/Wells or Pipeline Serviced TAYLOR #1R, COM #2

cps 1928w

Elevation 5680' Completion Date 4/8/89 Total Depth 420' 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. 65'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 345', 225', 210', 195', 180', 140', 125', 110', 95', 80'

Depths vent pipes placed: 415'

Vent pipe perforations: 380'

Remarks: gb #1

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MAY 31 1991
OIL CON. DIV.
DIST.

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.

FM 07-0238 (Rev. 10-82)

WELL-CASING

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

CAMP 413-889

Drilling Log (Attach Hereto)

PROP I.D. 071045500

Completion Date 4/1/51

CPS #	Well Name, Line or Plant:	Work Order #	Series:	Ins. Union Size								
1928 W	Taylor #1K TAYLOR COM #2	2689A	.87V N									
Location: SE 17-30-11	Anode Size: 2" X 60"	Anode Type: DURATION	Size Bit: 6 3/4"									
Depth Drilled: 420'	Depth Logged: 415'	Drilling Rig Time	Total Lbs. Coils Used	Loss Circulation Mat'ls Used								
Anode Depth	# 1 345'	# 2 225'	# 3 210'	# 4 195'	# 5 180'	# 6 140'	# 7 125'	# 8 110'	# 9 95'	# 10 80'		
Anode Output (Amps)	# 1 4.5	# 2 5.0	# 3 6.0	# 4 6.2	# 5 6.8	# 6 4.0	# 7 4.5	# 8 5.4	# 9 4.5	# 10 4.5		
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 V	Amps 28.0 A	Ohms 41										

Remarks: WATER AT 65', INSTALLED 415' OF 1" P.V.C. VENT PIPE PERFORATED 380'. TOOK WATER SAMPLE

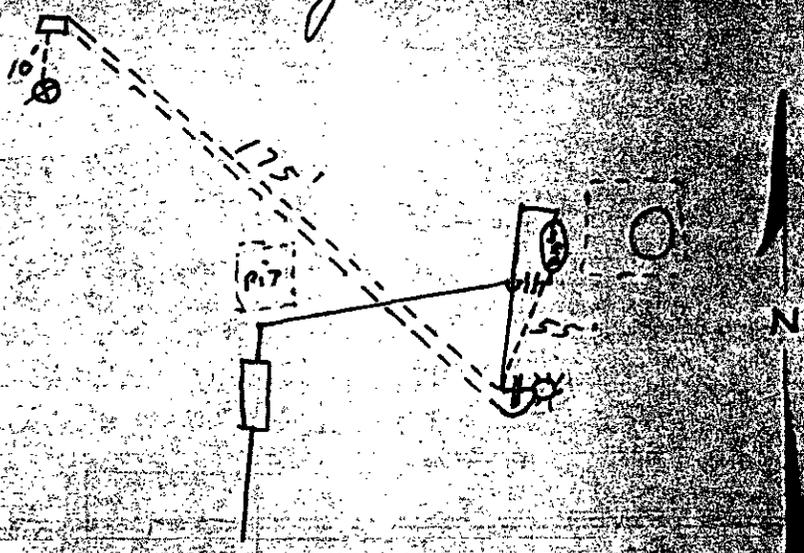
Gen. Bal 4074.00

Rectifier Size: 40 V 16 A	\$669.00
Add'l Depth: - 85'	-297.50
Extra Cable: 215'	51.60
Ditch & 1 Cable: 240'	168.00
25' Meter Pole:	
20' Meter Pole: 1	297.00
10' Stub Pole:	
Junction Box: 1	225.00

\$5187.10
TAX - 259.36
TOTAL 5446.46

All Construction Complete

J.E. Stalls
(Signature)



5680

MERIDIAN OIL

P.O. BOX 4289 Phone 527-0251
FARMINGTON, NEB

DEEP WELL GROUND BED LOG

Company Meridian Oil

Well No. Taylor Com² Location SE 17-30-11

Volts Applied 2000 DC

5				230	2.0			455				688							
10				235	1.8			460				685							
15				240	1.5			465				690							
20				245	1.6			470				695							
25				250	1.9			475				700							
30				255	1.5			480				705							
35				260	1.6			485				710							
40				265	1.5			490				715							
45				270	1.7			495				720							
50				275	1.8			500				725							
55				280	1.8			505				730							
60				285	1.8			510				735							
65	1.0			290	1.8			515				740							
70	2.1			295	1.6			520				745							
75	2.4			300	1.8			525				750							
80	2.3			305	1.6			530				755							
85	2.0			310	1.7			535				760							
90	2.1			315	1.5			540				765							
95	2.2			320	1.3			545				770							
100	2.1			325	1.3			550				775							
105	2.1			330	1.7			555				780							
110	2.5			335	1.5			560				785							
115	2.4			340	2.0			565				790							
120	2.4			345	1.8			570				795							
125	2.3			350	1.7			575				800							
130	2.2			355	1.8			580				805							
135	2.1			360	1.8			585				810							
140	2.1			365	1.7			590				815							
145	1.8			370	1.8			595				820							
150	1.7			375	1.4			600				825							
155	1.9			380	1.5			605				830							
160	2.0			385	1.4			610				835							
165	2.7			390	1.0			615				840							
170	1.8			395	1.3			620				845							
175	1.9			400	1.3			625				850							
180	2.2			405	1.4			630				855							
185	2.4			410	1.2			635				860							
190	2.4			415				640				865							
195	2.3			420				645				870							
200	2.3			425				650				875							
205	2.1			430				655				880							
210	2.1			435				660				885							
215	2.1			440				665				890							
220	2.0			445				670				895							
				450				675				900							

WATER

T.O.
DRILLED

CPS 1988 ✓

D. CIASS DRILLING CO.

Drill No. D-3

DRILLER'S WELL LOG - 7-88

S. P. No. Taylor Com #2 Date 4-8-88

Client _____ Prospect _____

County _____ State New Mexico

If hole is a re-drill or if moved from original staked position show distance and direction moved: _____

FROM	TO	FORMATION - COLOR - HARDNESS
0	40	SOFT SANDSTONE
40	45	Shale
45	65	SOFT SANDSTONE
65	75	SAND (Water)
75	200	Shale & SAND
200	225	Shale
225	290	Shale & SAND
290	320	SAND
320	400	Shale & SAND
400	420	SAND

Mud _____ Brm _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: _____

Driller RONNIE BROWN

606

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

Operator Meridian Location: Unit SW Sec. 22 Twp 30 Rng 11

Name of Well/Wells or Pipeline Serviced _____

Elliott Fed. #1-22 AND Morris A#10. 2228W

Elevation _____ Completion Date 11/2/91 Total Depth 380 Land Type _____

Casing Strings, Sizes, Types & Depths Drilled 100' AND set 9" PVC
CASING.

If Casing Strings are cemented, show amounts & types used Cemented
WITH 22 SACKS

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

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT Fresh Water AT 125'

Depths gas encountered: NONE

Ground bed depth with type & amount of coke breeze used: Drilled To
380' AND used 16 SACKS OF Lotesco, + 74 SACKS of Asbury

Depths anodes placed: 365, 355, 345, 315, 305, 295, 285, 275, 265, 255, 245, + 235'

Depths vent pipes placed: SURFACE TO 380'

Vent pipe perforations: BOTTOM 260'

Remarks: _____

RECEIVED
FEB 24 1992

OIL CON. DIV. I
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.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS#	P/L NAME(S), NUMBER(S)					
2228W	Elliott Fed #1-22 and Morris A #10					
*LO95	TOTAL	VOLTS	AMPS	- OHMS	DATE	NAME
		11.7	30.2	.39	11/2/91	JOHN L. MOSS

REMARKS (notes for construction log)

Drilled 380'. Installed 380' of Vent Pipe, with the bottom 260' perforated. Driller reported water at 125'

DEPTH	LOG ANODE	ANODE *											
100			295	4.3	6	490			685				
105			300	4.2		495			690				
110			305	4.8	5	500			695				
115			310	4.2		505			700				
120	2.6		315	4.2	4	510			ANODE	DEPTH	NO.	FULLY	
125	2.6		320	3.0		515			*		COKE	COK'D	
130	2.7		325	2.3		520			1	365	3.2	5.3	
135	2.9		330	2.1		525			2	355	3.6	5.9	
140	2.8		335	2.4		530			3	345	3.5	6.0	
145	2.9		340	2.9		535			4	315	4.4	6.6	
150	3.0		345	3.1	3	540			5	305	4.3	6.1	
155	2.6		350	2.8		545			6	295	4.4	6.2	
160	2.5		355	3.9	2	550			7	285	4.8	7.2	
165	2.6		360	3.1		555			8	275	4.8	7.4	
170	2.6		365	3.1	1	560			9	265	4.5	7.6	
175	2.3		370	1.5		565			10	255	4.6	8.4	
180	1.6		375	.6		570			11	245	5.2	8.9	
185	1.2		380			575			12	235	4.7	7.1	
190	1.4		385			580			13				
195	1.4		390			585			14				
200	1.3		395			590			15				
205	1.1		400			595			16				
210	2.8		405			600			17				
215	4.6		410			605			18				
220	4.4		415			610			19				
225	4.4		420			615			20				
230	4.5		425			620			21				
235	4.6	12	430			625			22				
240	4.5		435			630			23				
245	5.0	11	440			635			24				
250	5.0		445			640			25				
255	4.3	10	450			645			26				
260	4.4		455			650			27				
265	4.4	9	460			655			28				
270	4.4		465			660			29				
275	4.5	8	470			665			30				
280	4.4		475			670							
285	4.5	7	480			675							
	4.2		485			680							

DISTRIBUTION - original - permanent CPS FILE
 copy - Division Corrosion Supervisor
 copy - Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-911108-1E

Company MERIDIAN		Sample No.		Date Sampled 11-2-91
Field Ellice Fed #1-22, Morris AM10	Legal Description 300-22-30-11	County or Parish San Juan	State NM	
Lease or Unit 2228w	Well	Depth 125'	Formation Water Table	Water, B/D
Type of Water (Produced, Supply, etc.) Produced		Sampling Point		
		Sampled By J. L. MOSS		



TECH, Inc.
333 East Main
Farmingington
New Mexico
87401
505/327-3311

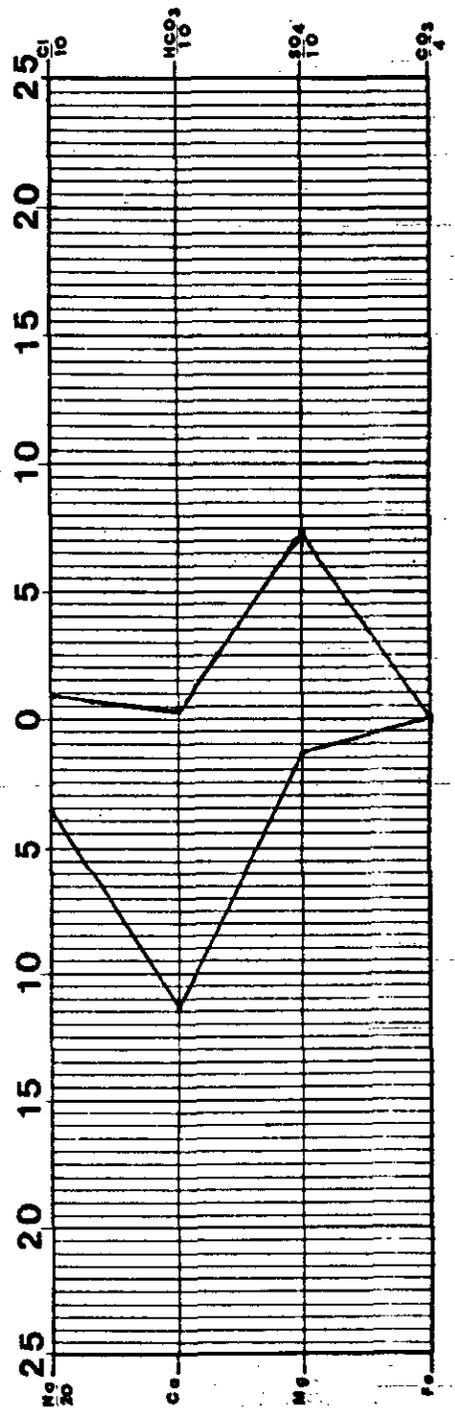
DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	mg/l	me/l	pH
Sodium, Na (calc.)	1,680	73	7.57
Calcium, Ca	228	11.4	1.0123
Magnesium, Mg	17	1.4	1.2
Barium, Ba			

ANIONS	mg/l	me/l	Total Dissolved Solids (calc.)
Chloride, Cl	305	8.6	5,990
Sulfate, So ₄	3,500	73	
Carbonate, CO ₃			
Bicarbonate, HCO ₃	255	4.19	

REMARKS & RECOMMENDATIONS: **ATTN: C.W. OGDORNE**



Date Received 8th Nov, 1991.	Preserved	Date Analyzed 26th Dec, 1991.	Analyzed By C.H.
--	-----------	---	----------------------------

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

Operator Burlington Resources Location: Unit ^I ~~2~~ Sec. ²⁰ ~~27~~ Twp 30 Rng 11

Name of Well/Wells or Pipeline Serviced Morris Com #101
30-045-29437

Elevation 5807 Completion Date 2-24-98 Total Depth 300' Land Type SF

Casing Strings, Sizes, Types & Depths 8" PVC X 20'

If Casing Strings are cemented, show amounts & types used 4 Bags Portland cement

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. 100' seep

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 300' - 1500 lbs
Loreco SW

Depths anodes placed: 285', 275', 265', 255', 245', 235', 225', 215'

Depths vent pipes placed: 300'

Vent pipe perforations: Bottom 150'

Remarks: _____

RECEIVED
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: <i>Burlington Resources</i>												
WELL NAME: <i>Morris Com #101</i>												
LEGAL LOCATION: <i>5-27-30-11</i>						COUNTY: <i>San Juan</i>						
DATE: <i>2-24-98</i>						TYPE OF COKE: <i>Loresio SW</i>						
DEPTH: <i>300'</i>						AMT. OF COKE BACKFILL: <i>1500 lbs</i>						
BIT SIZE: <i>6 3/4"</i>						VENT PIPE: <i>300'</i>						
DRILLER NAME: <i>Jack Ledbetter</i>						PERF. PIPE: <i>Bottom 150'</i>						
SIZE AND TYPE OF CASING: <i>8" P/C Casing X 20'</i>						ANODE AMT. & TYPE: <i>Anotez - Duriron</i>						
						BOULDER DRILLING: <i>0</i>						
DEPTH			DEPTH			DEPTH			COMPLETION INFORMATION:			
FT.	LOG	ANODE	FT.	LOG	ANODE	FT.	LOG	ANODE	WATER DEPTHS: <i>100'</i>			
									ISOLATION PLUGS:			
100			265	<i>2.7</i>	<i>3</i>	430						
105			270	<i>2.5</i>		435					OUTPUT	OUTPUT
110			275	<i>2.8</i>	<i>2</i>	440			ANODE#	DEPTH	NO COK	COKED
115			280	<i>2.9</i>		445			<i>1</i>	<i>285</i>	<i>3.4</i>	<i>6.8</i>
120			285	<i>3.4</i>	<i>1</i>	450			<i>2</i>	<i>275</i>	<i>2.8</i>	<i>7.2</i>
125			290	<i>4.4</i>		455			<i>3</i>	<i>265</i>	<i>2.7</i>	<i>7.1</i>
130			295	<i>4.0</i>		460			<i>4</i>	<i>255</i>	<i>3.0</i>	<i>7.6</i>
135			300	<i>T.O.</i>		465			<i>5</i>	<i>245</i>	<i>2.8</i>	<i>7.2</i>
140			305			470			<i>6</i>	<i>235</i>	<i>2.6</i>	<i>6.9</i>
145			310			475			<i>7</i>	<i>225</i>	<i>2.6</i>	<i>6.9</i>
150	<i>2.5</i>		315			480			<i>8</i>	<i>215</i>	<i>2.8</i>	<i>7.2</i>
155	<i>1.9</i>		320			485			<i>9</i>			
160	<i>2.1</i>		325			490			<i>10</i>			
165	<i>2.5</i>		330			495			<i>11</i>			
170	<i>2.4</i>		335			500			<i>12</i>			
175	<i>2.5</i>		340			505			<i>13</i>			
180	<i>2.1</i>		345			510			<i>14</i>			
185	<i>2.2</i>		350			515			<i>15</i>			
190	<i>2.1</i>		355			520			<i>16</i>			
195	<i>1.9</i>		360			525			<i>17</i>			
200	<i>2.0</i>		365			530			<i>18</i>			
205	<i>1.6</i>		370			535			<i>19</i>			
210	<i>1.5</i>		375			540			<i>20</i>			
215	<i>2.4</i>	<i>8</i>	380			545			<i>21</i>			
220	<i>2.1</i>		385			550			<i>22</i>			
225	<i>2.2</i>	<i>7</i>	390			555			<i>23</i>			
230	<i>2.4</i>		395			560			<i>24</i>			
235	<i>2.4</i>	<i>6</i>	400			565			<i>25</i>			
240	<i>2.3</i>		405			570			<i>26</i>			
245	<i>2.3</i>	<i>5</i>	410			575			<i>27</i>			
250	<i>2.3</i>		415			580			<i>28</i>			
255	<i>2.4</i>	<i>4</i>	420			585			<i>29</i>			
260	<i>2.6</i>		425			590			<i>30</i>			
						595						
LOGGING VOLTS: <i>11.80</i>						VOLTAGE SOURCE: <i>Auto</i>						
TOTAL AMPS: <i>21.9</i>						TOTAL G/B RESISTANCE: <i>.53</i>						
REMARKS:												

8 ✓



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
PayKey: RB21200
PM: Matt Melvin
AFE: N53397

2. Originating Site:
Aztec Com 4 #2

3. Location of Material (Street Address, City, State or ULSTR):
UL O Section 16 T30N R11W; 36.805090, -107.995910
Oct/Nov 2021

4. Source and Description of Waste:
Source: Remediation activities associated with a natural gas pipeline leak.
Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.
Estimated Volume 50 yd³/bbls Known Volume (to be entered by the operator at the end of the haul) 126/30 yd³/bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long *Thomas Long* 10-19-2021, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Gray 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: Sierra Oil Field Services, Riley
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: Gray Crabtree TITLE: Enviro Manager DATE: 10/19/21
SIGNATURE: *Gray Crabtree* TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Aztec Gas Com 4#2 (11/16/21)
Ensolum Project No. 05A1226167



Photograph 1

Photograph Description: View of the release area.



Photograph 2

Photograph Description: View of the excavation.



Photograph 3

Photograph Description: View of the site after restoration.





APPENDIX E

Regulatory Correspondence

From: [Long, Thomas](#)
To: ["Smith, Cory, EMNRD \(Cory.Smith@state.nm.us\)"](#)
Cc: [Stone, Brian](#)
Subject: FW: Aztec Com 4#2 - UL B Section 21 T30N R 11W; 36.80451, -107.99446
Date: Wednesday, November 17, 2021 6:53:00 AM

Cory,

This email is a notification that Enterprise determined this release reportable yesterday and will be collecting soil samples for laboratory analysis tomorrow, November 18, 2021 at 9:00 a.m. 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



From: Long, Thomas
Sent: Thursday, November 11, 2021 9:11 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Aztec Com 4#2 - UL B Section 21 T30N R 11W; 36.80451, -107.99446

Cory,

This email is a follow up to our phone conversation earlier this morning and is a courtesy notification as that Enterprise has not determined this release reportable per NOMCD regulation. Enterprise had a release of natural gas and condensate on the Aztec Com 4#2 last night (11-10-2021) at approximately 9:00 p.m. Gas loss was less than one MCF. Approximately one barrel of condensate was released to the ground surface. No washes were affected. No residences were affected. However, the Aztec Fire Department did respond as a precaution. The pipeline was isolated, blown down, locked and tagged out. I will keep you informed as the reportability status. 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





APPENDIX F

Table 1 – Soil Analytical Summary



TABLE 1 Aztec Gas Com 4#2 (11/16/21) SOIL ANALYTICAL SUMMARY													
Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX ¹	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH (GRO/DRO/MRO) ¹	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				100	600
Excavation Composite Soil Samples													
S-1	11.16.21	C	0 to 7	<0.11	<0.21	<0.21	<0.42	ND	<21	<9.8	<49	ND	<60
S-2	11.16.21	C	0 to 7	<0.019	0.048	<0.038	0.21	0.26	<3.8	11	<47	11	<60
S-3	11.18.21	C	7	<0.019	0.047	<0.037	0.17	0.22	<3.7	11	<47	11	<59
S-4	11.18.21	C	0 to 7	<0.019	<0.037	<0.037	0.11	0.11	<3.7	14	<50	14	<59
S-5	11.18.21	C	0 to 4	<0.020	0.060	<0.039	0.25	0.31	<3.9	15	<49	15	<60

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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligram 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



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

November 18, 2021

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Aztec Com 4 2

OrderNo.: 2111806

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/17/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2111806**

Date Reported: **11/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Aztec Com 4 2

Collection Date: 11/16/2021 1:00:00 PM

Lab ID: 2111806-001

Matrix: MEOH (SOIL)

Received Date: 11/17/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/17/2021 11:03:32 AM	63992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/17/2021 10:41:18 AM	63990
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/17/2021 10:41:18 AM	63990
Surr: DNOP	89.2	70-130		%Rec	1	11/17/2021 10:41:18 AM	63990
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	11/17/2021 10:47:29 AM	63967
Surr: BFB	103	70-130		%Rec	5	11/17/2021 10:47:29 AM	63967
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.11		mg/Kg	5	11/17/2021 10:47:29 AM	63967
Toluene	ND	0.21		mg/Kg	5	11/17/2021 10:47:29 AM	63967
Ethylbenzene	ND	0.21		mg/Kg	5	11/17/2021 10:47:29 AM	63967
Xylenes, Total	ND	0.42		mg/Kg	5	11/17/2021 10:47:29 AM	63967
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	11/17/2021 10:47:29 AM	63967

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	Value above quantitation range
	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 range due to dilution or matrix interference		

Analytical Report

Lab Order **2111806**

Date Reported: **11/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Aztec Com 4 2

Collection Date: 11/16/2021 1:05:00 PM

Lab ID: 2111806-002

Matrix: MEOH (SOIL)

Received Date: 11/17/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/17/2021 11:15:54 AM	63992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.4		mg/Kg	1	11/17/2021 10:53:39 AM	63990
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/17/2021 10:53:39 AM	63990
Surr: DNOP	87.9	70-130		%Rec	1	11/17/2021 10:53:39 AM	63990
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/17/2021 11:11:11 AM	63967
Surr: BFB	106	70-130		%Rec	1	11/17/2021 11:11:11 AM	63967
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/17/2021 11:11:11 AM	63967
Toluene	0.048	0.038		mg/Kg	1	11/17/2021 11:11:11 AM	63967
Ethylbenzene	ND	0.038		mg/Kg	1	11/17/2021 11:11:11 AM	63967
Xylenes, Total	0.21	0.076		mg/Kg	1	11/17/2021 11:11:11 AM	63967
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/17/2021 11:11:11 AM	63967

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	Value above quantitation range
	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 range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111806

18-Nov-21

Client: ENSOLUM
Project: Aztec Com 4 2

Sample ID: MB-63992	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63992	RunNo: 82904								
Prep Date: 11/17/2021	Analysis Date: 11/17/2021	SeqNo: 2944589	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63992	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63992	RunNo: 82904								
Prep Date: 11/17/2021	Analysis Date: 11/17/2021	SeqNo: 2944590	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| 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 range due to dilution or matrix interference | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111806

18-Nov-21

Client: ENSOLUM
Project: Aztec Com 4 2

Sample ID: 2111806-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 63990	RunNo: 82887								
Prep Date: 11/17/2021	Analysis Date: 11/17/2021	SeqNo: 2943731	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.8	49.16	8.984	76.0	39.3	155			
Surr: DNOP	4.4		4.916		90.2	70	130			

Sample ID: 2111806-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 63990	RunNo: 82887								
Prep Date: 11/17/2021	Analysis Date: 11/17/2021	SeqNo: 2943732	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.6	47.98	8.984	80.9	39.3	155	3.02	23.4	
Surr: DNOP	4.5		4.798		93.1	70	130	0	0	

Sample ID: MB-63990	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63990	RunNo: 82887								
Prep Date: 11/17/2021	Analysis Date: 11/17/2021	SeqNo: 2943738	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.6	70	130			

Sample ID: LCS-63990	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63990	RunNo: 82887								
Prep Date: 11/17/2021	Analysis Date: 11/17/2021	SeqNo: 2943739	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.5	68.9	135			
Surr: DNOP	4.5		5.000		90.6	70	130			

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111806

18-Nov-21

Client: ENSOLUM
Project: Aztec Com 4 2

Sample ID: mb-63967	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63967	RunNo: 82898								
Prep Date: 11/16/2021	Analysis Date: 11/17/2021	SeqNo: 2944136	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: lcs-63967	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63967	RunNo: 82898								
Prep Date: 11/16/2021	Analysis Date: 11/17/2021	SeqNo: 2944139	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	92.8	78.6	131			
Surr: BFB	1100		1000		111	70	130			

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111806

18-Nov-21

Client: ENSOLUM
Project: Aztec Com 4 2

Sample ID: mb-63967	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63967	RunNo: 82898								
Prep Date: 11/16/2021	Analysis Date: 11/17/2021	SeqNo: 2944193	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: LCS-63967	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63967	RunNo: 82898								
Prep Date: 11/16/2021	Analysis Date: 11/17/2021	SeqNo: 2944194	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.5	80	120			
Toluene	0.90	0.050	1.000	0	89.8	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- 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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2111806

RcptNo: 1

Received By: Sean Livingston 11/17/2021 8:00:00 AM

Signature of Sean Livingston

Completed By: Sean Livingston 11/17/2021 8:16:35 AM

Signature of Sean Livingston

Reviewed By: [Signature] 11/17/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JR 11/17/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.3, Good, [], [], []



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

November 24, 2021

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Aztec Com 4 2

OrderNo.: 2111999

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/19/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2111999

Date Reported: 11/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Aztec Com 4 2

Collection Date: 11/18/2021 9:00:00 AM

Lab ID: 2111999-001

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	59		mg/Kg	20	11/19/2021 11:36:50 AM	64055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.4		mg/Kg	1	11/19/2021 11:14:44 AM	64043
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2021 11:14:44 AM	64043
Surr: DNOP	87.3	70-130		%Rec	1	11/19/2021 11:14:44 AM	64043
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	11/19/2021 10:22:51 AM	B82982
Surr: BFB	99.9	70-130		%Rec	1	11/19/2021 10:22:51 AM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/19/2021 10:22:51 AM	E82982
Toluene	0.047	0.037		mg/Kg	1	11/19/2021 10:22:51 AM	E82982
Ethylbenzene	ND	0.037		mg/Kg	1	11/19/2021 10:22:51 AM	E82982
Xylenes, Total	0.17	0.075		mg/Kg	1	11/19/2021 10:22:51 AM	E82982
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	11/19/2021 10:22:51 AM	E82982

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	Value above quantitation range
	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 range due to dilution or matrix interference		

Analytical Report

Lab Order 2111999

Date Reported: 11/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Aztec Com 4 2

Collection Date: 11/18/2021 9:05:00 AM

Lab ID: 2111999-002

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	59		mg/Kg	20	11/19/2021 11:49:15 AM	64055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	14	9.9		mg/Kg	1	11/19/2021 11:26:54 AM	64043
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/19/2021 11:26:54 AM	64043
Surr: DNOP	79.5	70-130		%Rec	1	11/19/2021 11:26:54 AM	64043
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	11/19/2021 11:09:51 AM	B82982
Surr: BFB	97.9	70-130		%Rec	1	11/19/2021 11:09:51 AM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/19/2021 11:09:51 AM	E82982
Toluene	ND	0.037		mg/Kg	1	11/19/2021 11:09:51 AM	E82982
Ethylbenzene	ND	0.037		mg/Kg	1	11/19/2021 11:09:51 AM	E82982
Xylenes, Total	0.11	0.074		mg/Kg	1	11/19/2021 11:09:51 AM	E82982
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/19/2021 11:09:51 AM	E82982

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	Value above quantitation range
	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 range due to dilution or matrix interference		

Analytical Report

Lab Order 2111999

Date Reported: 11/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Aztec Com 4 2

Collection Date: 11/18/2021 9:10:00 AM

Lab ID: 2111999-003

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/19/2021 12:01:39 PM	64055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	15	9.9		mg/Kg	1	11/19/2021 11:38:47 AM	64043
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2021 11:38:47 AM	64043
Surr: DNOP	86.7	70-130		%Rec	1	11/19/2021 11:38:47 AM	64043
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	11/19/2021 11:56:56 AM	B82982
Surr: BFB	100	70-130		%Rec	1	11/19/2021 11:56:56 AM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/19/2021 11:56:56 AM	E82982
Toluene	0.060	0.039		mg/Kg	1	11/19/2021 11:56:56 AM	E82982
Ethylbenzene	ND	0.039		mg/Kg	1	11/19/2021 11:56:56 AM	E82982
Xylenes, Total	0.25	0.078		mg/Kg	1	11/19/2021 11:56:56 AM	E82982
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	11/19/2021 11:56:56 AM	E82982

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	Value above quantitation range
	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 range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111999

24-Nov-21

Client: ENSOLUM
Project: Aztec Com 4 2

Sample ID: MB-64055	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64055	RunNo: 82983								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2948446	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64055	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64055	RunNo: 82983								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2948447	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Qualifiers:

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- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111999

24-Nov-21

Client: ENSOLUM
Project: Aztec Com 4 2

Sample ID: MB-64043	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64043	RunNo: 82976								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2946526	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		86.9	70	130			

Sample ID: LCS-64043	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64043	RunNo: 82976								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2946527	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.1	68.9	135			
Surr: DNOP	4.2		5.000		84.4	70	130			

Sample ID: 2111999-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-3	Batch ID: 64043	RunNo: 82976								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2948755	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.5	47.62	11.19	72.0	39.3	155	4.86	23.4	
Surr: DNOP	3.8		4.762		80.5	70	130	0	0	

Sample ID: 2111999-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-3	Batch ID: 64043	RunNo: 82976								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2948756	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.65	11.19	73.7	39.3	155			
Surr: DNOP	4.1		4.965		83.0	70	130			

Qualifiers:

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- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111999

24-Nov-21

Client: ENSOLUM
Project: Aztec Com 4 2

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: B82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947648			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.6	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: B82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947649			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	78.6	131			
Surr: BFB	1200		1000		115	70	130			

Sample ID: 2111999-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-3	Batch ID: B82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947668			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.7	18.70	0	102	61.3	114			
Surr: BFB	890		747.9		118	70	130			

Sample ID: 2111999-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-3	Batch ID: B82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947669			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.7	18.70	0	106	61.3	114	3.38	20	
Surr: BFB	890		747.9		119	70	130	0	0	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111999

24-Nov-21

Client: ENSOLUM
Project: Aztec Com 4 2

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: E82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947691	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

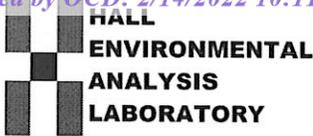
Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: E82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947692	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.5	80	120			
Toluene	0.96	0.050	1.000	0	95.7	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: 2111999-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-4	Batch ID: E82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947711	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.019	0.7446	0.01117	86.2	80	120			
Toluene	0.69	0.037	0.7446	0.03395	88.7	80	120			
Ethylbenzene	0.66	0.037	0.7446	0.01281	86.7	80	120			
Xylenes, Total	2.0	0.074	2.234	0.1057	86.5	80	120			
Surr: 4-Bromofluorobenzene	0.76		0.7446		103	70	130			

Sample ID: 2111999-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-4	Batch ID: E82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947712	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.019	0.7446	0.01117	113	80	120	26.5	20	R
Toluene	0.89	0.037	0.7446	0.03395	115	80	120	25.1	20	R
Ethylbenzene	0.88	0.037	0.7446	0.01281	116	80	120	28.4	20	R
Xylenes, Total	2.7	0.074	2.234	0.1057	116	80	120	27.6	20	R
Surr: 4-Bromofluorobenzene	0.77		0.7446		103	70	130	0	0	

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- 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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2111999 RcptNo: 1

Received By: Sean Livingston 11/19/2021 8:00:00 AM

Signature of Sean Livingston

Completed By: Sean Livingston 11/19/2021 8:21:49 AM

Signature of Sean Livingston

Reviewed By: [Signature] 11/19/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: [] (<2 or >12 unless noted)
Adjusted? []
Checked by: [Signature] 11/19/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.9, Good, [], [], []

Chain-of-Custody Record

Client: Eosolum LLC

Mailing Address: 1401 S Rio Colorado
Suite A 87410

Phone #:

email or Fax#:

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

Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time: 1/000

Standard Rush 11-19-21

Project Name: Aztec Com 4 #2

Project #: 05A 1221167

Project Manager: K Summers

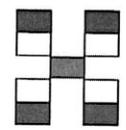
Sampler: C D Aponte

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 1.1 - 0.2 = 0.9 (°C)

Container Type and #	Preservative Type	HEAL No.
<u>1 4oz jar</u>	<u>cool</u>	<u>2111999</u>



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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)											
X	X					X														
X	X					X														
X	X					X														

Date	Time	Matrix	Sample Name
<u>11/18</u>	<u>900</u>	<u>S</u>	<u>S-3</u>
<u>11/18</u>	<u>905</u>	<u>S</u>	<u>S-4</u>
<u>11/18</u>	<u>910</u>	<u>S</u>	<u>S-5</u>

Date: 11/18 Time: 1303 Relinquished by: [Signature]

Date: 11/18/21 Time: 1846 Relinquished by: [Signature]

Received by: [Signature] Via: [Signature] Date: 11/18/21 Time: 1303

Received by: [Signature] Via: [Signature] Date: 11/19/21 Time: 8:00

Remarks: PM Tom Long
Pay Key R1321200
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.

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 81279

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 81279
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/10/2022