

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email: tjlong@eprod.com	Incident # (assigned by OCD): NAPP2112327080
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.585495** Longitude **-107.773132** (NAD 83 in decimal degrees to 5 decimal places)

Site Name Blanco C-11 @ 1730 – West Release Site	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 4/27/2021	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
O	11	27N	9W	San Juan

Surface Owner: State Federal Tribal Private (Name: **Navajo Tribal**)

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): 5-10 BBLS	Volume Recovered (bbls): None
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 44 MCF	Volume Recovered (Mcf): None
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On April 27, 2021 at approximately 1600 hours, Enterprise had a release of natural gas and condensate from the Blanco C-11 pipeline. The release is approximately 80 feet from a wash. Approximately 2-3 barrels of condensate has been observed on the ground surface. The pipeline was isolated, depressurized, locked out and tagged out. No residences were affected. No emergency services responded. Remediation activities were completed on May 5, 2021. The final excavation dimensions measured approximately 18 feet long by 10 feet wide by 12 feet deep. Approximately 233 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	

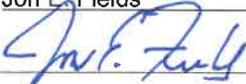
Closure

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: Jon E. Fields Title: Director, Environmental
 Signature:  Date: 9/28/2021
 email: jefields@eprod.com Telephone: (713) 381-6684

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: 03/04/2022
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv



CLOSURE REPORT

Property:

**Blanco C-11 @ 1730 – West Release Site
SE ¼, S10 T27N R9W
San Juan County, New Mexico**

New Mexico EMNRD OCD Incident ID No. nAPP2112327080

July 6, 2021

Ensolum Project No. 05A1226146

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 "L. Daniell".

Landon Daniell
Field Environmental Scientist

A handwritten signature in blue ink, appearing to read "Rane Dechilly".

Rane Dechilly
Environmental Scientist

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

Kyle Summers, CPG
Sr. Project Manager

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CLOSURE REPORT

Blanco C-11 @ 1730 – West Release Site
SE ¼, S10 T27N R9W
San Juan County, New Mexico

Ensolum Project No. 05A1226146

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Blanco C-11 @1730 – West Release Site (Site)
Incident ID	nAPP2112327080
Location:	36.585495° North, 107.773132° West Southeast (SE) ¼ of Section 10, Township 27 North, Range 9 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On April 27, 2021 at 1730 hours, Enterprise personnel discovered a second release of natural gas and condensate on the Blanco C-11 pipeline. The resulting release was characterized by soil discoloration at the ground surface. Enterprise subsequently isolated and locked the pipeline out of service. On April 30, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact.

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 New Mexico EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NNEPA and the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. Ensolum utilized the general site characteristics and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico 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

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points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified within a one mile radius of the Site. In addition, no PODs were identified in the adjacent Public Land Survey System (PLSS) sections (**Figure A, Appendix B**).

One existing groundwater monitoring well that is associated with the Enterprise Lateral C-11 (2012) release site is located approximately 0.3 miles east of the Site. Based on groundwater data from that well, the depth to water at the Lateral C-11 (2012) site is approximately 41 feet below grade surface (bgs).

- Seven (7) cathodic protection wells (CPWs) were identified within one mile of the Site as well as in adjacent PLSS sections in the New Mexico EMNRD OCD imaging database (**Figure B, Appendix B**). One (1) is associated with the Marshall #1 oil/gas production well that is located approximately 0.8 miles southeast of the Site and at a higher elevation (6,221 feet) than the Site (6,076 feet), with a reported depth to water of 150 feet bgs. The second CPW is associated with the Turner Hughes #16, #13, and #10 oil/gas production wells and is located approximately 1.2 miles northeast of the Site at a higher elevation (6,064 feet) than the Site, with a reported depth to water of 145 feet bgs. The third CPW is associated with the Turner Hughes #14A oil/gas production well and is located approximately 1.3 miles northwest of the Site and at a higher elevation (6,389 feet) than the Site, with a reported depth to water of 120 feet bgs. The fourth CPW is associated with the Hughes #10A, Turner Hughes #5 oil/gas production wells and is located approximately 1.5 miles north of the Site and at a higher elevation (6,836 feet) than the Site, with a reported depth to water of 175 feet bgs. The fifth CPW is associated with the Turner Hughes #14 oil/gas production well and is located approximately 1.5 miles northwest of the Site and at a higher elevation (6,441 feet) than the Site, with a reported depth to water of 130 feet bgs. The sixth CPW is associated with the Turner Hughes #15 and #19 oil/gas production wells and is located approximately 1.6 miles north of the Site and at a higher elevation (6,204 feet) than the Site, with a reported depth to water of 180 feet bgs. The seventh CPW is associated with the Turner Hughes #21-A oil/gas production well and is located approximately 1.9 miles northwest of the Site and at a higher elevation (7,127 feet) than the Site. The records for this CPW indicate “damp” at 80 feet bgs.
- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The Site is located approximately 300 feet south of Hoot Owl Canyon Wash (**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**). The nearest permanent residence is located approximately 820 feet northwest of the Site.
- No springs, or private domestic fresh water wells used by less than five (5) 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 (**Figure E, Appendix B**). The residence located approximately 820 feet northwest may have an unregistered water well.
- 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**).

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- Based on information identified in the New Mexico 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 within a 100-year floodplain (**Figure H, Appendix B**).

Based on available information, Enterprise estimates the depth to water at the Site to be less than 50 feet bgs. Applicable closure criteria for soils remaining in place at the Site include:

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

¹ – Constituent concentrations are in milligrams per 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 April 30, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sierra Oilfield Services, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 18 feet long and 10 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 12 feet bgs. The excavated flow path measured approximately six (6) feet long and four (4) feet wide and approximately two (2) feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand.

Approximately 233 cubic yards of petroleum hydrocarbon affected soils and 100 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and contoured to provide a suitable driving surface.

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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Ensolum's soil sampling program included the collection of eight (8) composite soil samples (S-1 through S-8) from the excavation for laboratory analysis. The composite samples were comprised of five (5) 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 clean shovel or the excavator bucket was utilized to obtain fresh aliquots from each area of the excavation. The regulatory notification and documentation are provided in **Appendix E**.

First Sampling Event

On May 5, 2021, sampling was performed at the Site. The NNEPA and New Mexico EMNRD OCD were notified of the sampling event although no representatives were present during sampling activities.

Composite soil sample S-1 (12') was collected from the floor of excavation. Composite soil samples S-2 (0'-12'), S-3 (0'-12'), S-4 (0'-12'), S-5 (0'-12'), S-6 (0'-12'), and S-7 (0'-12') were collected from the walls of the excavation. Composite soil sample S-8 (0'-2') was collected from the walls and floor of the excavated flow path.

All soil samples were 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, New Mexico, 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 DATA EVALUATION

Ensolum compared the 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-8) to the applicable New Mexico 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 applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for the composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples S-1, S-5, and S-8 indicate combined TPH GRO/DRO/MRO concentrations of 90 mg/kg, 9.4 mg/kg, and 9.7 mg/kg, respectively, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for composite soil samples S-1, S-5, and S-8 indicate combined chloride concentrations of 190 mg/kg, 320 mg/kg, and 240 mg/kg, respectively, which are less than

Closure Report
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July 6, 2021



the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD 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 contoured to provide a suitable driving surface.

8.0 FINDINGS AND RECOMMENDATION

- Eight (8) 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 233 cubic yards of petroleum hydrocarbon affected soils and 100 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled and contoured to provide a suitable driving surface.

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.

Closure Report
Enterprise Field Services, LLC
Blanco C-11 @ 1730 – West Release Site
July 6, 2021



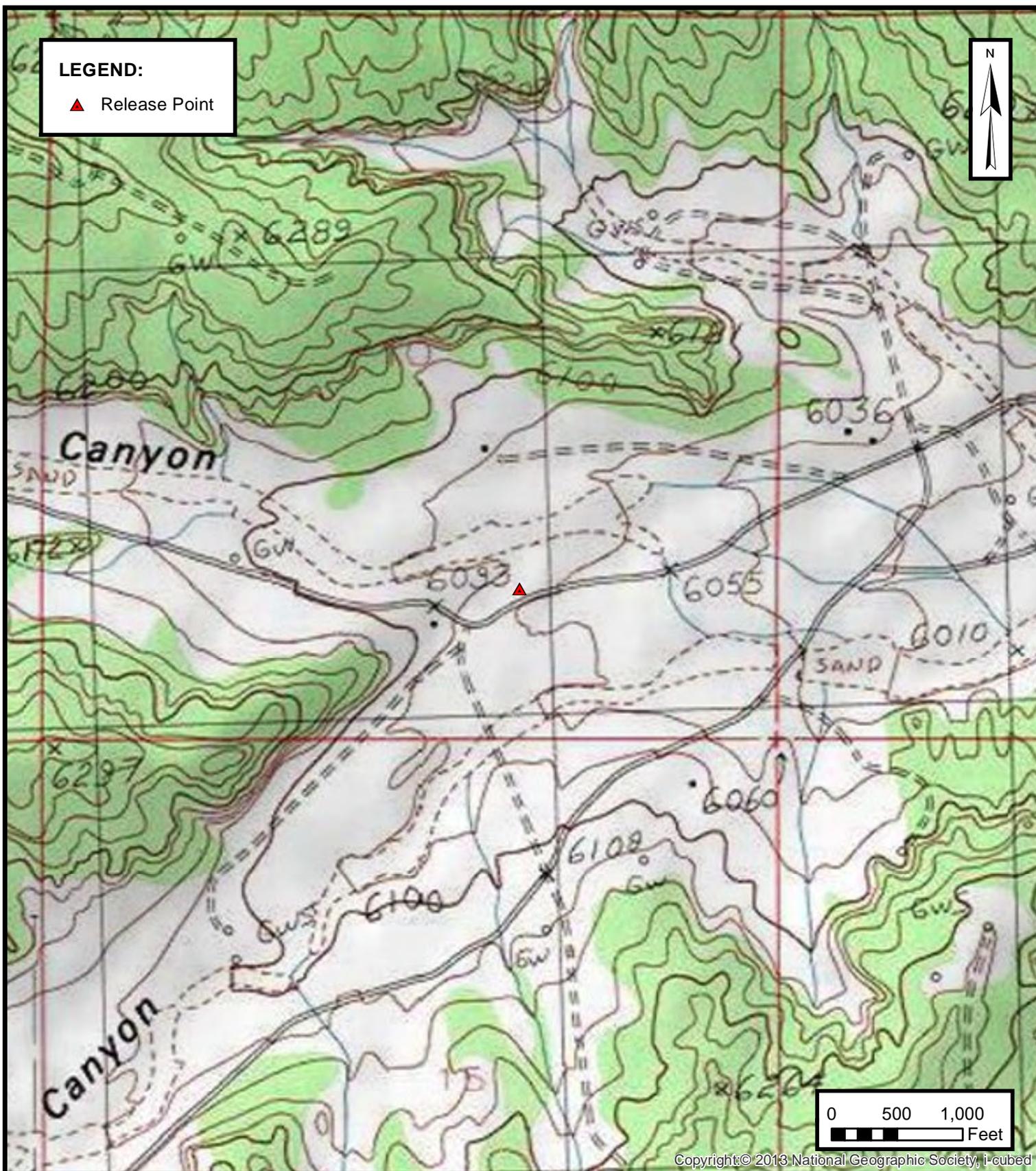
9.3 Reliance

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



APPENDIX A

Figures



ENSOLUM
 Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
 BLANCO C-11 @ 1730 - WEST RELEASE SITE
 SE ¼, S10 T27N R9W, San Juan County, New Mexico
 36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

FIGURE
1



ENSOLUM
 Environmental & Hydrogeologic Consultants

SITE VICINITY MAP

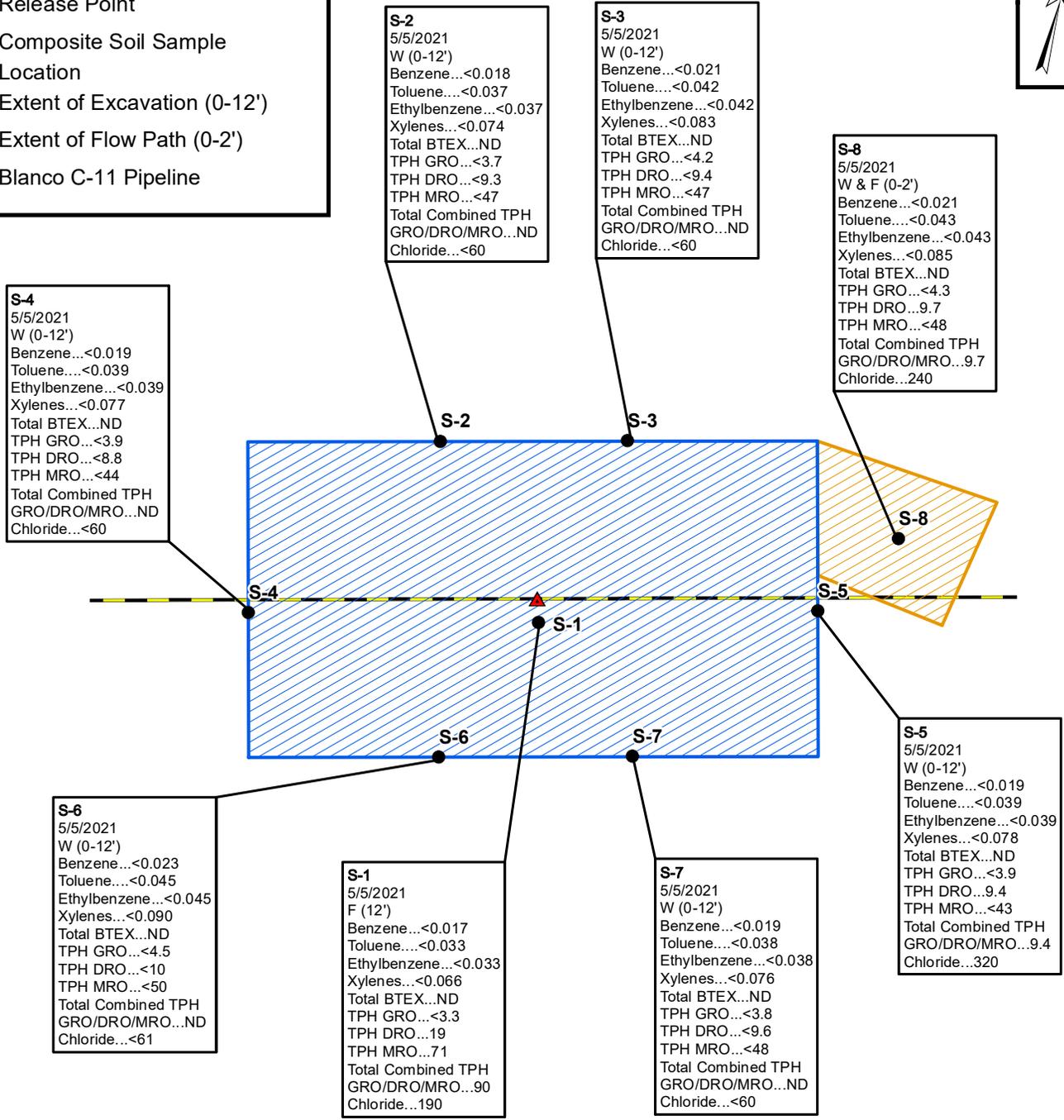
ENTERPRISE FIELD SERVICES, LLC
 BLANCO C-11 @ 1730 - WEST RELEASE SITE
 SE ¼, S10 T27N R9W, San Juan County, New Mexico
 36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

FIGURE
2

LEGEND:

-  Release Point
-  Composite Soil Sample Location
-  Extent of Excavation (0-12')
-  Extent of Flow Path (0-2')
-  Blanco C-11 Pipeline

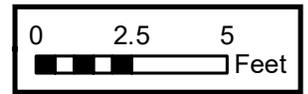


Notes:

W - Wall Sample
F - Floor Sample

All concentrations are in mg/kg.

All depths are listed in feet bgs.



SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @ 1730 - WEST RELEASE SITE
SE ¼, S10 T27N R9W, San Juan County, New Mexico
36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

FIGURE

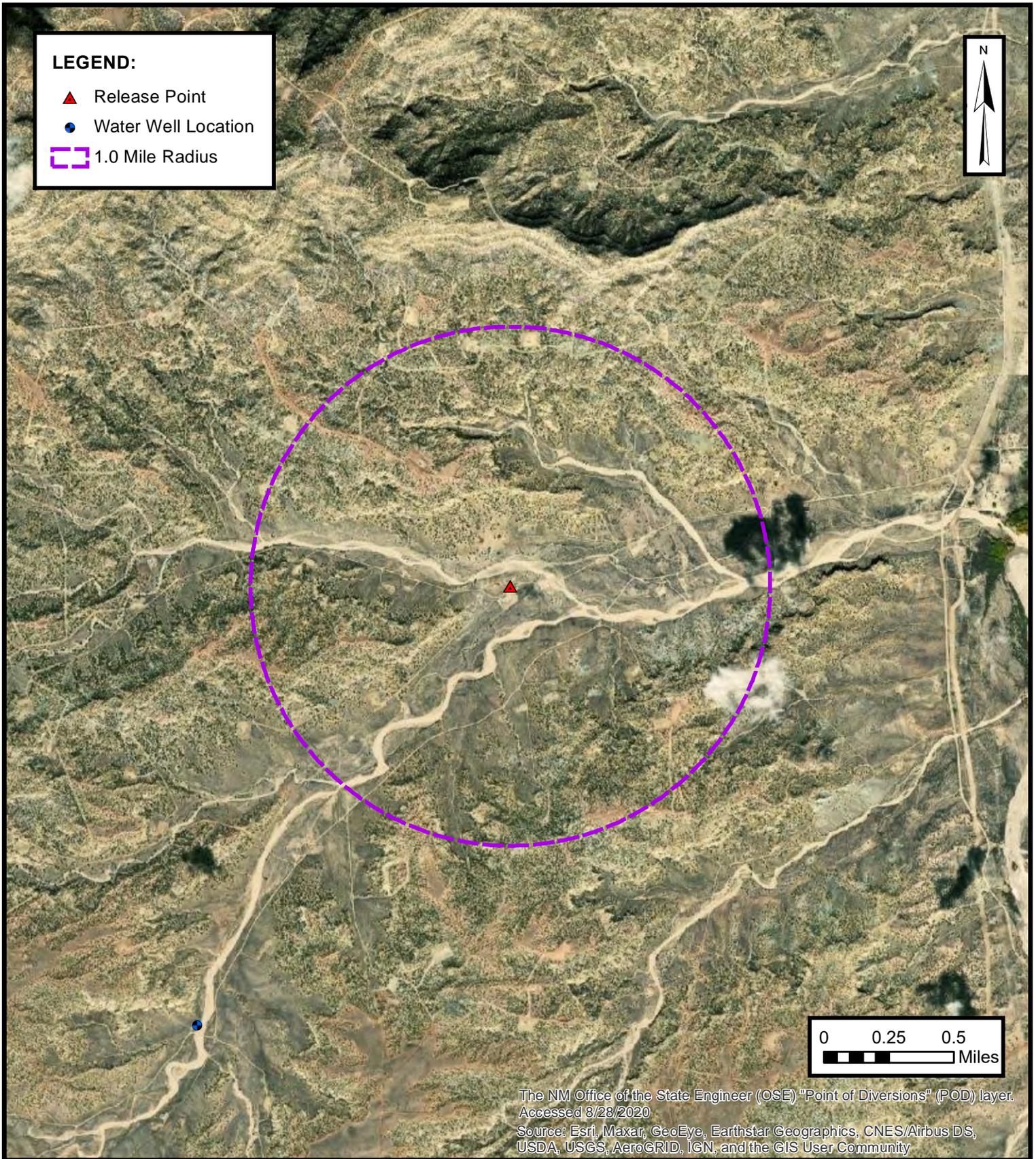
3





APPENDIX B

Siting Figures and Documentation

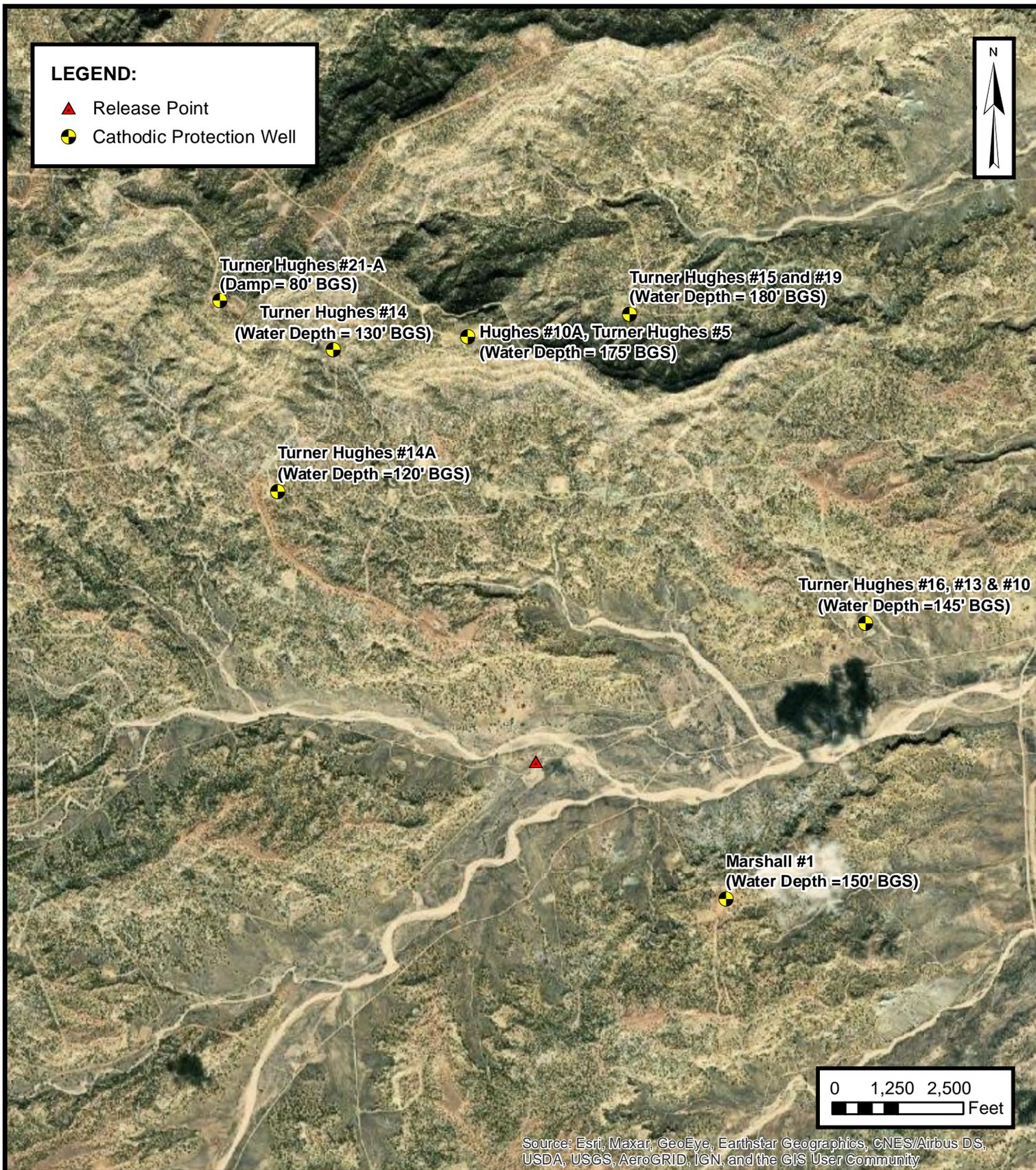


1.0 MILE RADIUS WATER WELL MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @ 1730 - WEST RELEASE SITE
SE ¼, S10 T27N R9W, San Juan County, New Mexico
36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

FIGURE
A



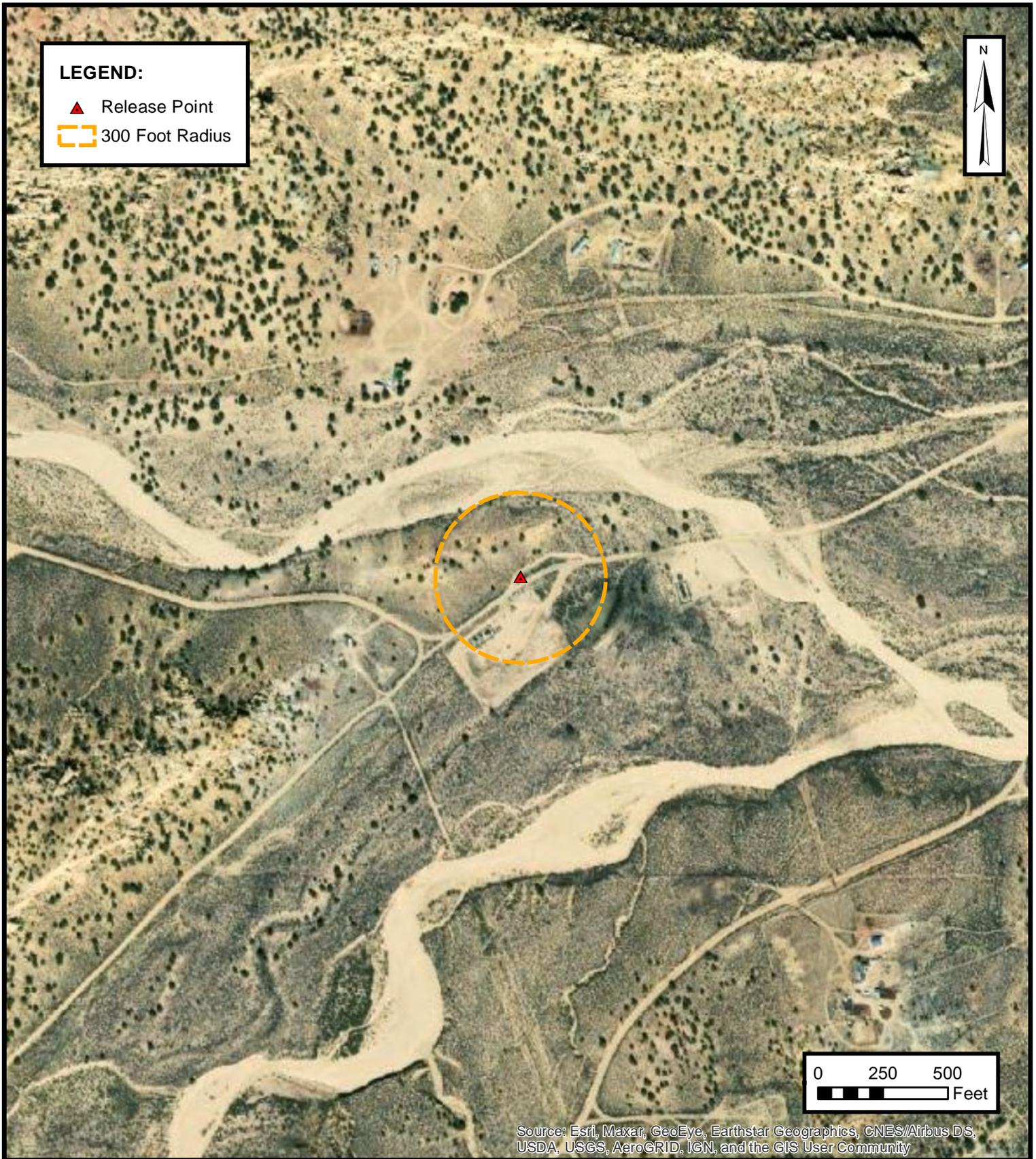
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**CATHODIC PROTECTION WELL RECORDED
DEPTH TO WATER**

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @ 1730 - WEST RELEASE SITE
SE ¼, S10 T27N R9W, San Juan County, New Mexico
36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

**FIGURE
B**



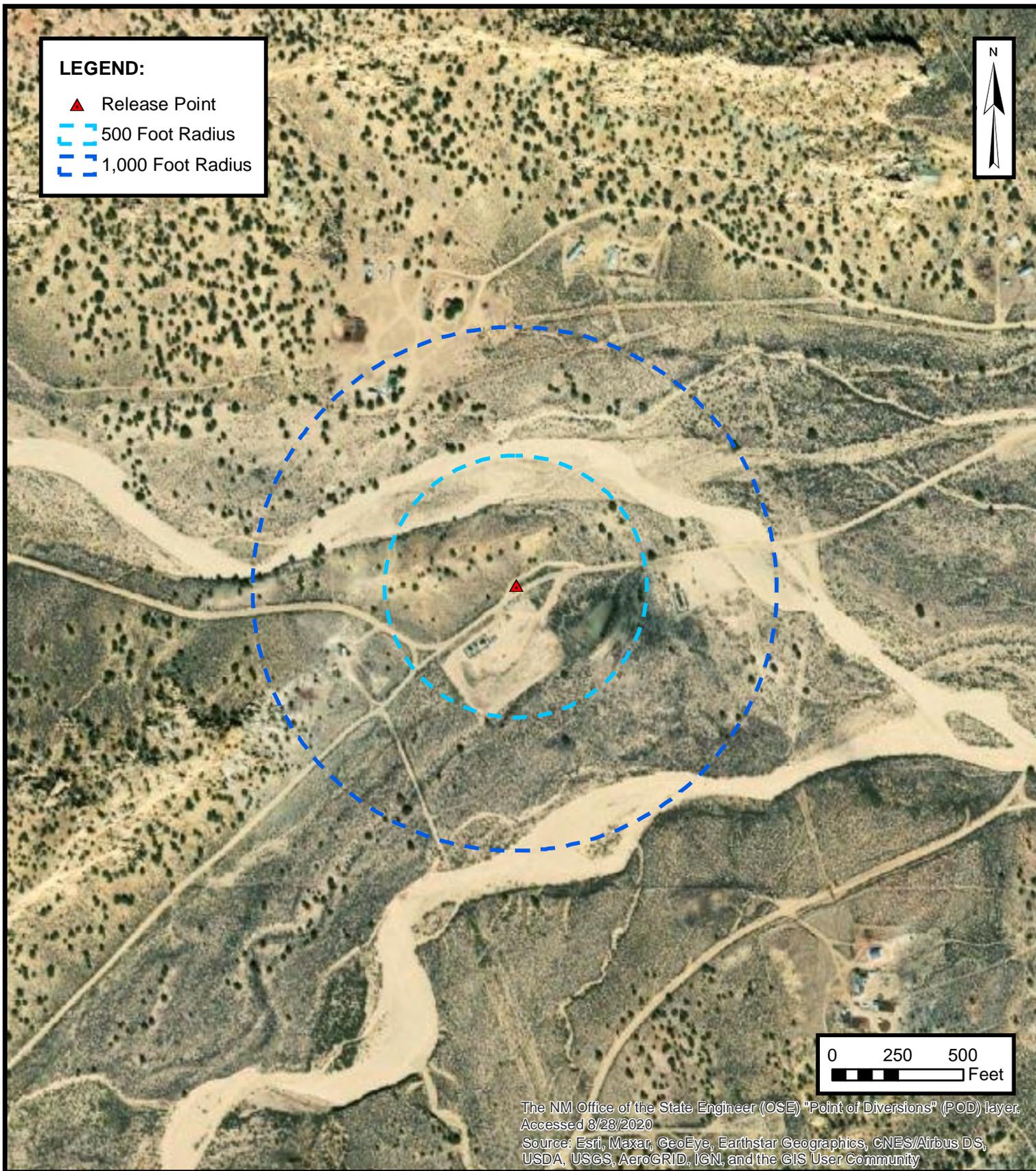
**300 FOOT RADIUS
 WATERCOURSE AND DRAINAGE IDENTIFICATION**
 ENTERPRISE FIELD SERVICES, LLC
 BLANCO C-11 @ 1730 - WEST RELEASE SITE
 SE ¼, S10 T27N R9W, San Juan County, New Mexico
 36.585495° N, 107.773132° W
 PROJECT NUMBER: 05A1226146

**FIGURE
 C**



**300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION**
ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @ 1730 - WEST RELEASE SITE
SE ¼, S10 T27N R9W, San Juan County, New Mexico
36.585495° N, 107.773132° W
PROJECT NUMBER: 05A1226146

**FIGURE
D**

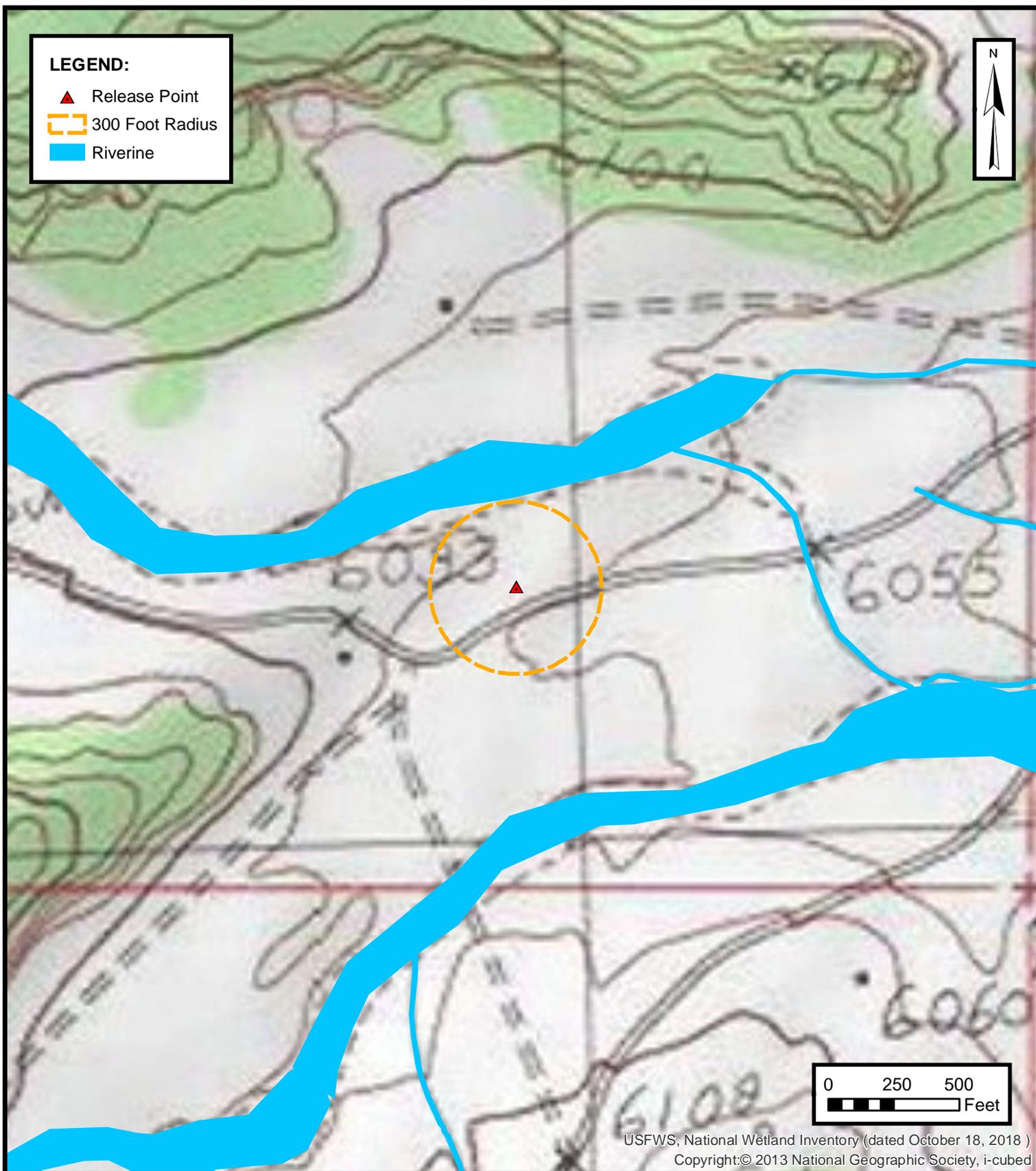


WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
 BLANCO C-11 @ 1730 - WEST RELEASE SITE
 SE ¼, S10 T27N R9W, San Juan County, New Mexico
 36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

FIGURE
E



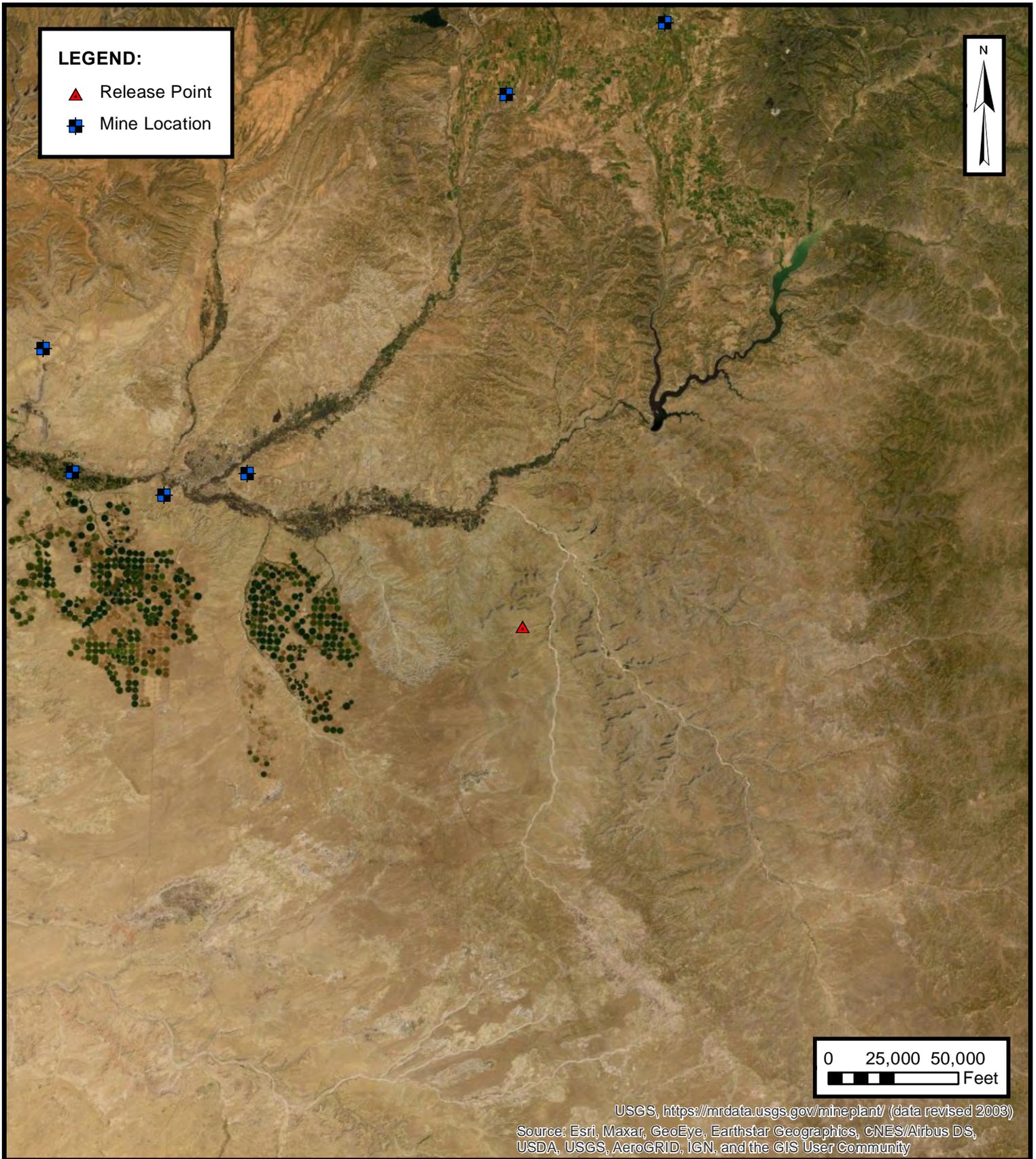
ENSOLUM
Environmental & Hydrogeologic Consultants

WETLANDS

ENTERPRISE FIELD SERVICES, LLC
 BLANCO C-11 @ 1730 - WEST RELEASE SITE
 SE ¼, S10 T27N R9W, San Juan County, New Mexico
 36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

FIGURE
F



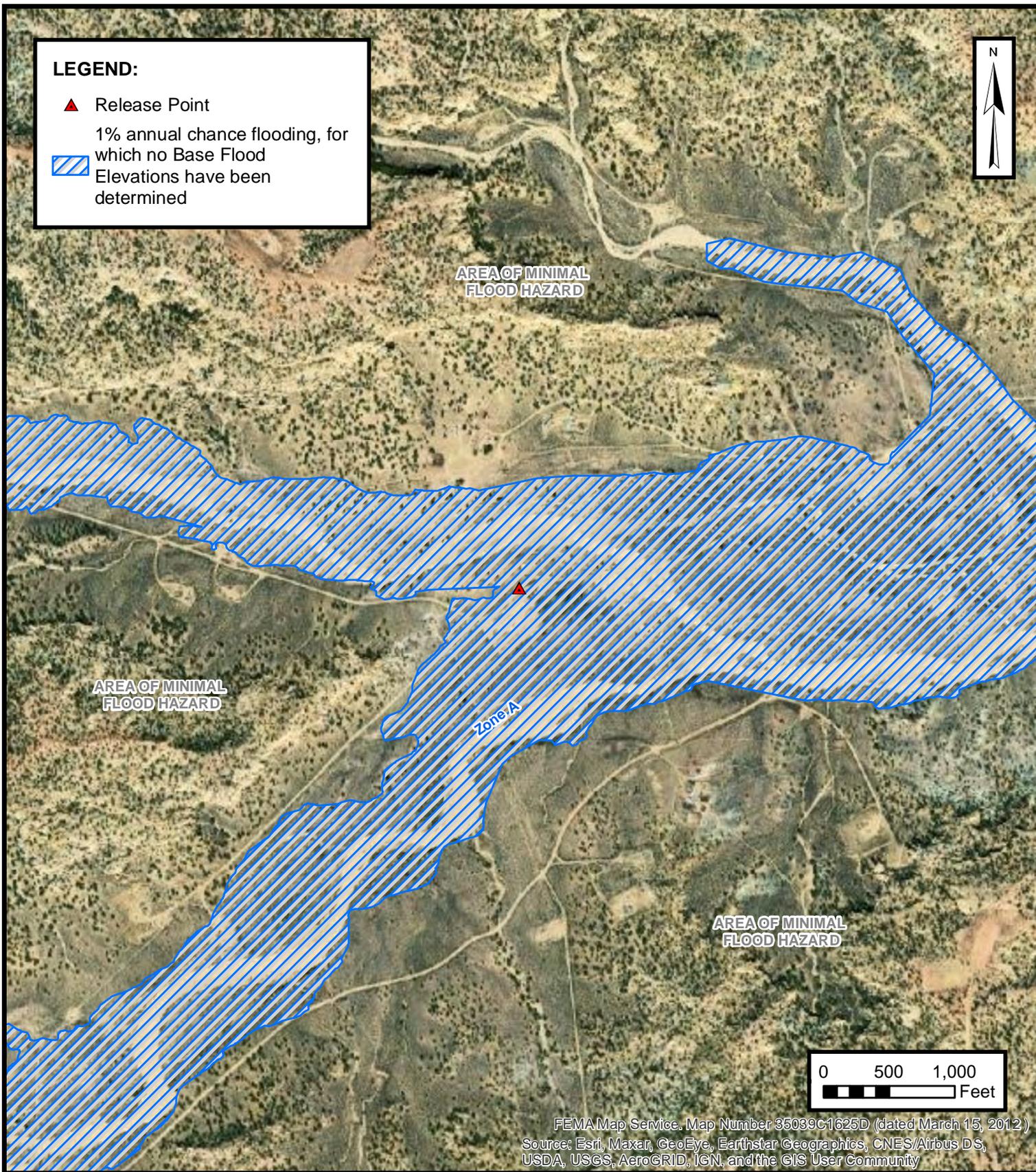
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
 BLANCO C-11 @ 1730 - WEST RELEASE SITE
 SE ¼, S10 T27N R9W, San Juan County, New Mexico
 36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

FIGURE

G



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100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
 BLANCO C-11 @ 1730 - WEST RELEASE SITE
 SE ¼, S10 T27N R9W, San Juan County, New Mexico
 36.585495° N, 107.773132° W

PROJECT NUMBER: 05A1226146

FIGURE

H



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

No records found.

PLSS Search:

Section(s): 2, 3, 4, 9, 10, 11, 14, 15, 16 **Township:** 27N **Range:** 09W

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.

5/14/21 10:42 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

13-30-045-06683

10-30-045-06710 16-30-045-11874

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

Operator Meridian Oil Location: Unit 11 Sec. 11 Twp 27 Rng 6

Name of Well/Wells. or Pipeline Serviced TURNER HUGHES #16
#13 & #10

Elevation _____ Completion Date _____ Total Depth _____ Land Type _____

Casing Strings, Sizes, Types & Depths 99' of 8" PVC surface
CASING

If Casing Strings are cemented, show amounts & types used yes with
25 BAGS CEMENT

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

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Damp 145' WATER 180'

Depths gas encountered: No

Ground bed depth with type & amount of coke breeze used: 474' with
6500 lbs Loresco Type SW

Depths anodes placed: 455, 445, 410, 340, 330, 300, 290, 280, 255, 245, 235, 225, 215, 205, 195

Depths vent pipes placed: 474'

Vent pipe perforations: bottom 320'

Remarks: _____

RECEIVED
JAN 20 1985
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.

DATE: 5/9/96

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

Operator Meridian Oil Inc. Location: Unit A Sec. 03 Twp 27 Rng 09

Name of Well/Wells or Pipeline Serviced 30-045-06892
Turner Hughes #15 and #19 30-045-21603

Elevation 6192 Completion Date 5/9/96 Total Depth 435 Land Type F

Casing Strings, Sizes, Types & Depths 5/8 Set 59' of 8" PVC casing.
NO GAS, WATER, or Boulders were encountered during casing.

If Casing Strings are cemented, show amounts & types used Cemented
WITH 15 SACKS.

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

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT FRESH WATER AT 180'

Depths gas encountered: NONE

Ground bed depth with type & amount of coke breeze used: 435' Depth.
Used 110 SACKS OF Asbury 218R (5500#)

Depths anodes placed: 405, 395, 385, 375, 365, 355, 345, 335, 290, 280, 265, 240, 225, 215, + 195'

Depths vent pipes placed: SURFACE TO 435'

Vent pipe perforations: BOTTOM 300'

Remarks: _____

RECEIVED
FEB 19 1997

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.

CPS GROUND BED CONSTRUCTION WORKSHEET

ID# 2916-W P/L NAME(S), NUMBER(S) Turner Hughes #15 AND #19
 NO - 2E22 TOTAL VOLTS 11.66 AMPS 33.0 OHMS .353 DATE 5/9/94 NAME JOHN L. MOSS
 REMARKS (NEED FOR CONSTRUCTION LOG)

Drillet Reported WATER AT 180'
 INSTALLED 435' OF 1" PE VENT PIPE, WITH THE BOTTOM
 300' PERFORATED. COKE BREEZE TO 115'

DEPTH	LOG ANODE	ANODE									
100			295	2.7		490			685		
105			300	3.4		495			690		
110			305	2.1		500			695		
115			310	2.2		505			700		
120			315	3.3		510					
125			320	2.0		515					
130	.8		325	2.4		520					
135	.7		330	2.1		525			1	405'	4.5
140	.6		335	3.5	8	530			2	395'	4.9
145	.5		340	3.7		535			3	285'	4.5
150	.7		345	3.7	7	540			4	275'	4.7
155	.8		350	4.1		545			5	275'	4.4
160	1.1		355	4.2	6	550			6	355'	4.5
165	1.3		360	4.2		555			7	345'	3.9
170	1.4		365	4.1	5	560			8	335'	3.7
175	1.4		370	4.0		565			9	290'	4.3
180	1.5		375	4.4	4	570			10	280'	4.2
185	.8		380	4.5		575			11	265'	3.8
190	3.8		385	4.2	3	580			12	240'	4.6
195	3.8	15	390	4.6		585			13	225'	4.5
200	2.6		395	4.9	2	590			14	215'	4.3
205	2.4		400	4.3		595			15	195'	3.9
210	2.6		405	4.3	1	600			16		
215	4.0	-14	410	4.1		605			17		
220	3.3		415	4.0		610			18		
225	4.0	-13	420	4.0		615			19		
230	4.4		425	4.1		620			20		
235	2.9		430	FD.	435	625			21		
240	4.7	-12	435			630			22		
245	2.4		440			635			23		
250	2.5		445			640			24		
255	4.5		450			645			25		
260	2.0		455			650			26		
265	2.1	-11	460			655			27		
270	2.0		465			660			28		
275	2.0		470			665			29		
280	2.0	-10	475			670			30		
285	2.0		480			675					
290	2.0	-9	485			680					

3522

#10A → 30-045-26533

TH #5 → 30-045-13284

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. 3 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced HUGHES #10A, TURNER HUGHES #5
cps 2024w

Elevation 6848' Completion Date 10/25/88 Total Depth 520' 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. 175'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 485', 475', 465', 455', 445', 400', 390', 305', 215', 205'

Depths vent pipes placed: 515'

Vent pipe perforations: 360'

Remarks: gb #1

RECEIVED

MAY 21 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

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto)

Completion Date 10/25/88

CPS #	Well Name, Line or Plant:	Work Order #	State:	Ins. Union Check
2024W	Hughes #10A	54312A	.75V 600' W	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
	Turner Hughes #5	49474A	.76V 600' W	
Location:	Anode Size:	Anode Type:	Size Bit:	
E-3-27-9	2X60"	DUPION	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Loss Circulation Mat'l Used
520'	515'			
Anode Depth				
# 1 485	# 2 475	# 3 465	# 4 455	# 5 445
# 6 400	# 7 390	# 8 305	# 9 215	# 10 2.05
Anode Output (Amps)				
# 1 3.8	# 2 3.6	# 3 4.4	# 4 4.5	# 5 4.8
# 6 3.7	# 7 4.1	# 8 3.8	# 9 3.4	# 10 3.6
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance:	No. 8 C.P. Cable Used			No. 2 C.P. Cable Used
Volts 11.8	Amps 21.4	Ohms .55		

Remarks: HIT DAMP SPOT AT 125', Air COMP would pressure up, BUT would NOT blow ANYTHING TO THE TOP OF THE HOLE NEXT A.M. INSTALLED 515' of 1" P.V.C. VENT PIPE, PERFORATED 360'.

Layed 1/2" Fuel Line, in wire ditch.

G.B. 4170.00

Rectifier Size: TE.6. V	A	7695.00
Add'l Depth	15' .750	112.50
Depth Credit:	0	
Extra Cable:	380 .25	95.00
Ditch & 1 Cable:	405' .75	303.75
Ditch & 2 Cable:		
25' Meter Pole:	0	
20' Meter Pole:	0	
10' Stub Pole:	0	
Junction Box:	1	249.00

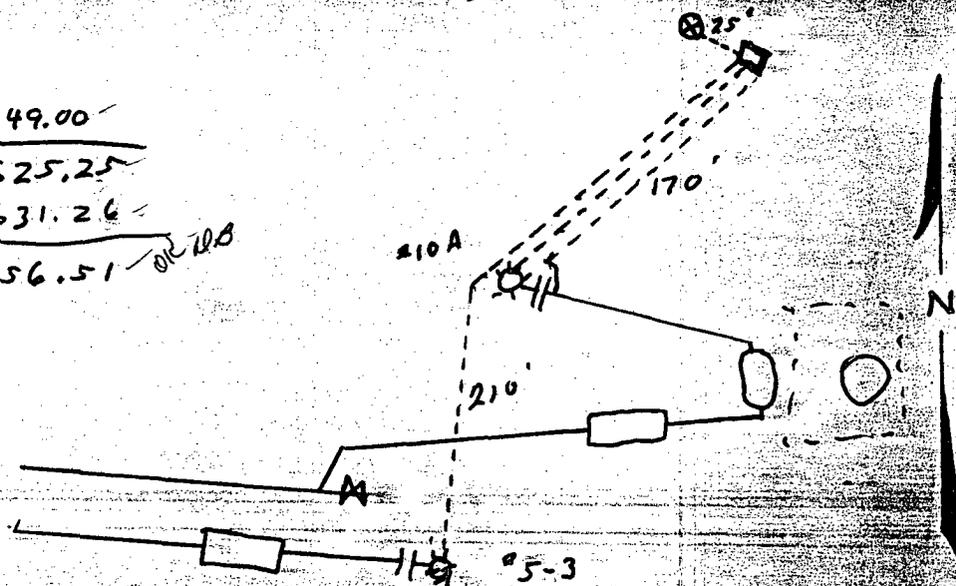
12625.25

TAX 631.26

TOTAL \$13256.51 OR 108

All Construction Completed

JC [Signature]
(Signature)



6000

D. Cross DRILLING CO.

Drill No. 3

2024

DRILLER'S WELL LOG

S. P. No. Hughes #10A Date 10-25-88
Client Meridian Oil Co. Prospect _____
County SAN JUAN State New Mex.

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

FROM	TO	FORMATION - COLOR - HARDNESS
0	165	SANDSTONE
165	180	SAND ✓
180	225	SHALE
225	245	SANDSTONE
245	250	SHALE
250	260	SANDY SHALE
260	305	SANDSTONE
305	325	SHALE
325	375	SANDSTONE
375	420	SHALE
420	440	SANDSTONE
440	495	SHALE
495	520	SANDSTONE

Mud _____ Bron _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: Water @ 175'

Driller Ronnie Brown

3523

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

(Submit 3 copies to OCD Aztec Office)

30-045-06530

Operator MERIDIAN OIL INC. Location: Unit L Sec. 14 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced MARSHALL #1
cps 2025w

Elevation 6257' Completion Date 10/26/88 Total Depth 460' 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. 150'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 410', 402', 394', 386', 378', 370', 362', 354', 346', 335'

Depths vent pipes placed: 450'

Vent pipe perforations: 320'

Remarks: gb #1

RECEIVED
MAY 31 1991
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.

FM-07-0238 (Rev. 10-82)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

COMP 10-27-88

Drilling Log (Attach Hereto)

Completion Date 10/26/88

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check					
2025W	MARSHALL #1	51613A	.78V 600' W	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad					
Location:	Anode Size:	Anode Type:	Size Bit:						
L-14-27-9	2" X 60"	DURATION	6 3/4"						
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used				
460	450								
Anode Depth									
# 1 410	# 2 402	# 3 394	# 4 386	# 5 378	# 6 370	# 7 362	# 8 354	# 9 346	# 10 335
Anode Output (Amps)									
# 1 5.4	# 2 5.3	# 3 5.9	# 4 6.4	# 5 5.5	# 6 5.8	# 7 4.0	# 8 3.4	# 9 4.1	# 10 4.0
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	No. 8 C.P. Cable Used			No. 2 C.P. Cable Used					
Volts 11.8	Amps 29.0	Ohms .55							

Remarks: WATER AT 150', TOOK WATER SAMPLE. INSTALLED 450' of 1" P.V.C. VENT pipe, Perforated 320'. COULD NOT GET ANY CUTTING OUT OF HOLE AFTER 300'.

Layed 1/2" Fuel Line in wire ditch.

G.B. \$4170.00

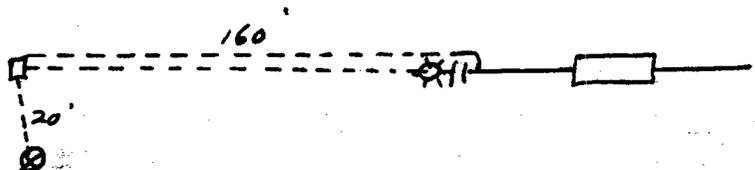
Rate Size: T.R.G. V _____ A 7695.00

Add'l Depth _____
 Depth Credit: -50' 3.50 -175.00 ✓
 Extra Cable: 190' .25 47.50 ✓
 Ditch & 1 Cable: 180' .75 135.00 ✓
 Ditch & 2 Cable: _____
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1 249.00

All Construction Completed

J.C. Datto
(Signature)

12121.50 ✓
 TAX 606.08 ✓
 TOTAL \$ 12727.58 OK 9/2



D. Crass DRILLING CO.

Drill No. 3 2025

DRILLER'S WELL LOG

S. P. No. Marshall #1 Date 10-26-88

Client Meridian Oil Co. Prospect _____

County SAN JUAN State New Mex.

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

FROM	TO	FORMATION — COLOR — HARDNESS
0	90	SANDstone
90	135	shale
135	155	SAND
155	165	SANDy shale
165	215	SANDstone
215	245	shale
245	270	SANDstone
270	420	shale
420	460	SANDstone

Mud _____ Brom _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: Water @ 150'

Driller Ronnie Brown

#14 30-045^{SF}-06864

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

Operator Meridian Oil Inc Location: Unit # 4 Sec. 4 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced Turner Hughes #14

Elevation Completion Date 6-22-95 Total Depth 378' Land Type S

Casing Strings, Sizes, Types & Depths 4-25-95 - Set 100' of 8"

PUC casing. No gas, water or boulders encountered during casing.

If Casing Strings are cemented, show amounts & types used Cemented
with 18 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. 130' - Fresh

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 378'
5000lbs Asbury

Depths anodes placed: 1-365, 358, 351, 344, 337, 330, 280, 273, 245, 238, 237, 180, 173, 166, 158

Depths vent pipes placed: Surface to 378'

Vent pipe perforations: 100' - 378'

Remarks:

RECEIVED
JAN 11 1996

OIL CON. DIV.
DIST. 3

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

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

#14A 30-045-26382

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

Operator Meridian Oil Inc. Location: Unit I Sec. 4 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced Turner Hughes #14A

Elevation — Completion Date 6/27/95 Total Depth 473' Land Type —

Casing Strings, Sizes, Types & Depths 4-24-95- Set 100' of 8" PVC casing. No gas, water or boulders were encountered during casing.

If Casing Strings are cemented, show amounts & types used Cemented with 18 sacks

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

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 120' - Fresh

Depths gas encountered: N/A

Ground bed depth with type & amount of coke breeze used: 473'
133 sacks Asbery 218R

Depths anodes placed: 468, 450, 443, 436, 422, 415, 408, 401, 394, 387, 373, 365, 350, 140

Depths vent pipes placed: 473'

Vent pipe perforations: Bottom 325'

Remarks: —

RECEIVED
JAN 11 1996

OIL CON. DIV.
DIST. 3

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

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

2644W

30-045-26481

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

Operator MERIDIAN Oil Location: Unit C Sec. 4 Twp 27 Rng 9

Name of Well/Wells. or Pipeline Serviced TURNER HUGHES #21-A

Elevation _____ Completion Date _____ Total Depth _____ Land Type _____

Casing Strings, Sizes, Types & Depths 8" PVC SURFACE CASING
58' DEEP

If Casing Strings are cemented, show amounts & types used YES
with 14 BAGS NEAT CEMENT

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

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Damp 80', 240', 310'

Depths gas encountered: NO

Ground bed depth with type & amount of coke breeze used: 452' DEEP
with 6000 lbs Asbury FLO COKE

Depths anodes placed: 432, 425, 418, 411, 404, 396, 386, 370, 270, 231, 221, 200, 190, 180
170

Depths vent pipes placed: 452'

Vent pipe perforations: bottom 350'

Remarks: _____

RECEIVED
JAN 20 1995

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.

30-045-26481

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

Operator MERIDIAN Oil Location: Unit C Sec. 4 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced TURNER HUGHES #21-A

Elevation _____ Completion Date _____ Total Depth _____ Land Type _____

Casing Strings, Sizes, Types & Depths 8" PVC SURFACE CASING
58' DEEP

If Casing Strings are cemented, show amounts & types used YES
with 14 BAGS NEAT CEMENT

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

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. DAMP 80', 240', 310'

Depths gas encountered: NO

Ground bed depth with type & amount of coke breeze used: 452' DEEP
with 6000 lbs Asbury FLO COKE

Depths anodes placed: 432, 425, 418, 411, 404, 396, 386, 370, 270, 231, 221, 200, 190, 180
170

Depths vent pipes placed: 452'

Vent pipe perforations: bottom 350'

Remarks: _____

RECEIVED
JAN 20 1985

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.



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: Aaron Lucero
AFE: Pending

2. Originating Site:
Blanco C-11 4-27-2021 - West

3. Location of Material (Street Address, City, State or ULSTR):
UL O Section 10 T27N R9W; 36.585495, -107.773132
Apr 1 / May 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) 233/100 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* 4-29-2021, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Riley Industrial/OFT and Subcontractors

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011**

Address of Facility: **Hilltop, NM**

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree
SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TITLE: Environ Manager
TELEPHONE NO.: 505-632-0615

DATE: 4/29/21



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Blanco C-11 @ 1730 – West Release Site
Ensolum Project No. 05A1226146



Photograph 1

Photograph Description: View of release area.



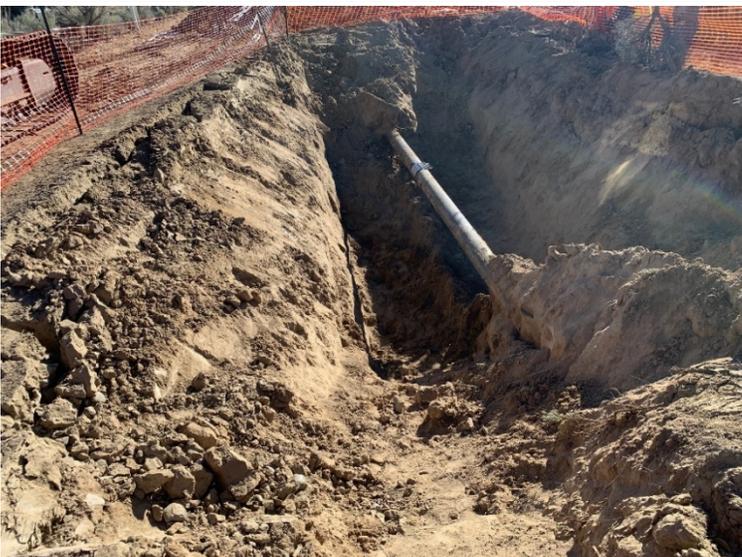
Photograph 2

Photograph Description: View of in-process excavation activities.



Photograph 3

Photograph Description: View of in-process excavation activities.



SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Blanco C-11 @ 1730 – West Release Site
Ensolum Project No. 05A1226146



Photograph 4

Photograph Description: View of the final excavation.



Photograph 5

Photograph Description: View of the excavation after initial restoration.





APPENDIX E

Regulatory Correspondence

From: [Steve Austin](#)
To: [Long, Thomas](#)
Subject: [EXTERNAL] RE: Blanco C-11 - UL O Section 10 T27N R9W; 36.585495, -107.773132 - West Release Site
Date: Wednesday, May 5, 2021 1:40:43 PM

[Use caution with links/attachments]

And then this.

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

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Wednesday, May 05, 2021 1:09 PM
To: Steve Austin <nnepawq@frontiernet.net>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Blanco C-11 - UL O Section 10 T27N R9W; 36.585495, -107.773132 - West Release Site

Steve,

Please see below.

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: Wednesday, May 5, 2021 12:14 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'Steve Austin' <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Blanco C-11 - UL O Section 10 T27N R9W; 36.585495, -107773132 - West Release Site

Cory/Steve,

This email is a notification and a variance request for the 48 hour sample notification. We began

remediation on this site today and we are ready to collect closure samples. Enterprise requests to sample today. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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



From: Long, Thomas
Sent: Tuesday, April 27, 2021 6:07 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'Steve Austin' <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Blanco C-11 - UL O Section 10 T27N R9W; 36.585495, -107.773132

Cory/Steve,

This email is to notify you that Entperise had **a second release** of natural gas and condensate on the Blanco C-11 this evening. No washes affected. Approximately 2-3 barrels of condensate has been observed on the ground surface. It is located at UL O Section 10 T27N R9W; 36.585495, -107.773132. The pipeline is being isolated, depressurized, locked out and tagged out. No fires, no emergency services responded. No residents affected. 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



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



APPENDIX F

Table 1 – Soil Analytical Summary



TABLE 1
Blanco C-11 @ 1730 - West Release Site
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	5.05.21	C	12	<0.017	<0.033	<0.033	<0.066	ND	<3.3	19	71	90	190
S-2	5.05.21	C	0 to 12	<0.018	<0.037	<0.037	<0.074	ND	<3.7	<9.3	<47	ND	<60
S-3	5.05.21	C	0 to 12	<0.021	<0.042	<0.042	<0.083	ND	<4.2	<9.4	<47	ND	<60
S-4	5.05.21	C	0 to 12	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<8.8	<44	ND	<60
S-5	5.05.21	C	0 to 12	<0.019	<0.039	<0.039	<0.078	ND	<3.9	9.4	<43	9.4	320
S-6	5.05.21	C	0 to 12	<0.023	<0.045	<0.045	<0.090	ND	<4.5	<10	<50	ND	<61
S-7	5.05.21	C	0 to 12	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.6	<48	ND	<60
S-8	5.05.21	C	0 to 2	<0.021	<0.043	<0.043	<0.085	ND	<4.3	9.7	<48	9.7	240

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

May 11, 2021

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: C 11 West

OrderNo.: 2105219

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/6/2021 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 **2105219**

Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: C 11 West

Collection Date: 5/5/2021 2:10:00 PM

Lab ID: 2105219-001

Matrix: MEOH (SOIL)

Received Date: 5/6/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	190	59		mg/Kg	20	5/6/2021 9:27:38 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	19	9.9		mg/Kg	1	5/6/2021 10:32:23 AM	59839
Motor Oil Range Organics (MRO)	71	49		mg/Kg	1	5/6/2021 10:32:23 AM	59839
Surr: DNOP	95.9	70-130		%Rec	1	5/6/2021 10:32:23 AM	59839
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/6/2021 9:21:44 AM	G77197
Surr: BFB	93.1	70-130		%Rec	1	5/6/2021 9:21:44 AM	G77197
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	5/6/2021 9:21:44 AM	B77197
Toluene	ND	0.033		mg/Kg	1	5/6/2021 9:21:44 AM	B77197
Ethylbenzene	ND	0.033		mg/Kg	1	5/6/2021 9:21:44 AM	B77197
Xylenes, Total	ND	0.066		mg/Kg	1	5/6/2021 9:21:44 AM	B77197
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	5/6/2021 9:21:44 AM	B77197

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		

Analytical Report

Lab Order **2105219**

Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: C 11 West

Collection Date: 5/5/2021 2:15:00 PM

Lab ID: 2105219-002

Matrix: MEOH (SOIL)

Received Date: 5/6/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/6/2021 9:40:02 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/6/2021 10:44:47 AM	59839
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/6/2021 10:44:47 AM	59839
Surr: DNOP	96.8	70-130		%Rec	1	5/6/2021 10:44:47 AM	59839
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/6/2021 9:45:23 AM	G77197
Surr: BFB	91.2	70-130		%Rec	1	5/6/2021 9:45:23 AM	G77197
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	5/6/2021 9:45:23 AM	B77197
Toluene	ND	0.037		mg/Kg	1	5/6/2021 9:45:23 AM	B77197
Ethylbenzene	ND	0.037		mg/Kg	1	5/6/2021 9:45:23 AM	B77197
Xylenes, Total	ND	0.074		mg/Kg	1	5/6/2021 9:45:23 AM	B77197
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2021 9:45:23 AM	B77197

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		

Analytical Report

Lab Order **2105219**

Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: C 11 West

Collection Date: 5/5/2021 2:20:00 PM

Lab ID: 2105219-003

Matrix: MEOH (SOIL)

Received Date: 5/6/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/6/2021 9:52:27 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/6/2021 11:15:22 AM	59839
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/6/2021 11:15:22 AM	59839
Surr: DNOP	99.8	70-130		%Rec	1	5/6/2021 11:15:22 AM	59839
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	5/6/2021 10:09:12 AM	G77197
Surr: BFB	91.9	70-130		%Rec	1	5/6/2021 10:09:12 AM	G77197
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	5/6/2021 10:09:12 AM	B77197
Toluene	ND	0.042		mg/Kg	1	5/6/2021 10:09:12 AM	B77197
Ethylbenzene	ND	0.042		mg/Kg	1	5/6/2021 10:09:12 AM	B77197
Xylenes, Total	ND	0.083		mg/Kg	1	5/6/2021 10:09:12 AM	B77197
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	5/6/2021 10:09:12 AM	B77197

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		

Analytical Report

Lab Order **2105219**

Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: C 11 West

Collection Date: 5/5/2021 2:25:00 PM

Lab ID: 2105219-004

Matrix: MEOH (SOIL)

Received Date: 5/6/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/6/2021 10:04:51 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	5/6/2021 10:57:24 AM	59839
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/6/2021 10:57:24 AM	59839
Surr: DNOP	95.5	70-130		%Rec	1	5/6/2021 10:57:24 AM	59839
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	5/6/2021 10:32:56 AM	G77197
Surr: BFB	90.8	70-130		%Rec	1	5/6/2021 10:32:56 AM	G77197
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	5/6/2021 10:32:56 AM	B77197
Toluene	ND	0.039		mg/Kg	1	5/6/2021 10:32:56 AM	B77197
Ethylbenzene	ND	0.039		mg/Kg	1	5/6/2021 10:32:56 AM	B77197
Xylenes, Total	ND	0.077		mg/Kg	1	5/6/2021 10:32:56 AM	B77197
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2021 10:32:56 AM	B77197

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		

Analytical Report

Lab Order **2105219**

Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: C 11 West

Collection Date: 5/5/2021 2:00:00 PM

Lab ID: 2105219-005

Matrix: MEOH (SOIL)

Received Date: 5/6/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	320	60		mg/Kg	20	5/6/2021 10:17:16 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	9.4	8.5		mg/Kg	1	5/6/2021 11:09:51 AM	59839
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	5/6/2021 11:09:51 AM	59839
Surr: DNOP	99.0	70-130		%Rec	1	5/6/2021 11:09:51 AM	59839
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	5/6/2021 10:56:37 AM	G77197
Surr: BFB	92.3	70-130		%Rec	1	5/6/2021 10:56:37 AM	G77197
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	5/6/2021 10:56:37 AM	B77197
Toluene	ND	0.039		mg/Kg	1	5/6/2021 10:56:37 AM	B77197
Ethylbenzene	ND	0.039		mg/Kg	1	5/6/2021 10:56:37 AM	B77197
Xylenes, Total	ND	0.078		mg/Kg	1	5/6/2021 10:56:37 AM	B77197
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/6/2021 10:56:37 AM	B77197

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		

Analytical Report

Lab Order **2105219**

Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-6

Project: C 11 West

Collection Date: 5/5/2021 2:30:00 PM

Lab ID: 2105219-006

Matrix: MEOH (SOIL)

Received Date: 5/6/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	5/6/2021 10:54:29 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/6/2021 11:22:39 AM	59839
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/6/2021 11:22:39 AM	59839
Surr: DNOP	95.3	70-130		%Rec	1	5/6/2021 11:22:39 AM	59839
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	5/6/2021 11:20:20 AM	G77197
Surr: BFB	91.4	70-130		%Rec	1	5/6/2021 11:20:20 AM	G77197
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/6/2021 11:20:20 AM	B77197
Toluene	ND	0.045		mg/Kg	1	5/6/2021 11:20:20 AM	B77197
Ethylbenzene	ND	0.045		mg/Kg	1	5/6/2021 11:20:20 AM	B77197
Xylenes, Total	ND	0.090		mg/Kg	1	5/6/2021 11:20:20 AM	B77197
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/6/2021 11:20:20 AM	B77197

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		

Analytical Report

Lab Order **2105219**

Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-7

Project: C 11 West

Collection Date: 5/5/2021 2:35:00 PM

Lab ID: 2105219-007

Matrix: MEOH (SOIL)

Received Date: 5/6/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/6/2021 11:06:54 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/6/2021 11:47:54 AM	59839
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/6/2021 11:47:54 AM	59839
Surr: DNOP	96.1	70-130		%Rec	1	5/6/2021 11:47:54 AM	59839
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	5/6/2021 11:44:02 AM	G77197
Surr: BFB	93.6	70-130		%Rec	1	5/6/2021 11:44:02 AM	G77197
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	5/6/2021 11:44:02 AM	B77197
Toluene	ND	0.038		mg/Kg	1	5/6/2021 11:44:02 AM	B77197
Ethylbenzene	ND	0.038		mg/Kg	1	5/6/2021 11:44:02 AM	B77197
Xylenes, Total	ND	0.076		mg/Kg	1	5/6/2021 11:44:02 AM	B77197
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/6/2021 11:44:02 AM	B77197

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		

Analytical Report

Lab Order 2105219

Date Reported: 5/11/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-8

Project: C 11 West

Collection Date: 5/5/2021 2:05:00 PM

Lab ID: 2105219-008

Matrix: MEOH (SOIL) Received Date: 5/6/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	240	60		mg/Kg	20	5/6/2021 11:19:18 AM	59840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	9.7	9.7		mg/Kg	1	5/6/2021 11:35:02 AM	59839
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/6/2021 11:35:02 AM	59839
Surr: DNOP	97.1	70-130		%Rec	1	5/6/2021 11:35:02 AM	59839
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	5/6/2021 12:07:46 PM	G77197
Surr: BFB	93.7	70-130		%Rec	1	5/6/2021 12:07:46 PM	G77197
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	5/6/2021 12:07:46 PM	B77197
Toluene	ND	0.043		mg/Kg	1	5/6/2021 12:07:46 PM	B77197
Ethylbenzene	ND	0.043		mg/Kg	1	5/6/2021 12:07:46 PM	B77197
Xylenes, Total	ND	0.085		mg/Kg	1	5/6/2021 12:07:46 PM	B77197
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2021 12:07:46 PM	B77197

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105219

11-May-21

Client: ENSOLUM

Project: C 11 West

Sample ID: MB-59840	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59840	RunNo: 77183								
Prep Date: 5/6/2021	Analysis Date: 5/6/2021	SeqNo: 2737988	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59840	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59840	RunNo: 77183								
Prep Date: 5/6/2021	Analysis Date: 5/6/2021	SeqNo: 2737989	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2105219

11-May-21

Client: ENSOLUM

Project: C 11 West

Sample ID: MB-59839	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59839	RunNo: 77188								
Prep Date: 5/6/2021	Analysis Date: 5/6/2021	SeqNo: 2737171	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.2	70	130			

Sample ID: LCS-59839	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59839	RunNo: 77188								
Prep Date: 5/6/2021	Analysis Date: 5/6/2021	SeqNo: 2737173	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.2	68.9	141			
Surr: DNOP	4.6		5.000		92.4	70	130			

Sample ID: 2105219-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 59839	RunNo: 77190								
Prep Date: 5/6/2021	Analysis Date: 5/6/2021	SeqNo: 2737189	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	9.5	47.44	18.79	98.6	15	184	0.799	23.9	
Surr: DNOP	4.5		4.744		94.3	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2105219

11-May-21

Client: ENSOLUM

Project: C 11 West

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G77197	RunNo: 77197								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2737844	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	850		1000		84.6	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G77197	RunNo: 77197								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2737845	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	97.7	78.6	131			
Surr: BFB	1000		1000		100	70	130			

Sample ID: 2105219-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1	Batch ID: G77197	RunNo: 77197								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2737861	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.3	16.55	0	102	61.3	114			
Surr: BFB	710		661.8		107	70	130			

Sample ID: 2105219-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1	Batch ID: G77197	RunNo: 77197								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2737862	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.3	16.55	0	98.8	61.3	114	3.66	20	
Surr: BFB	740		661.8		112	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2105219

11-May-21

Client: ENSOLUM

Project: C 11 West

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B77197	RunNo: 77197								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2737892			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B77197	RunNo: 77197								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2737893			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 2105219-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	Batch ID: B77197	RunNo: 77197								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2737909			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.018	0.7380	0	103	76.3	120			
Toluene	0.77	0.037	0.7380	0	104	78.5	120			
Ethylbenzene	0.77	0.037	0.7380	0.007306	103	78.1	124			
Xylenes, Total	2.3	0.074	2.214	0	103	79.3	125			
Surr: 4-Bromofluorobenzene	0.81		0.7380		109	70	130			

Sample ID: 2105219-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	Batch ID: B77197	RunNo: 77197								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2737910			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.018	0.7380	0	100	80	120	2.40	20	
Toluene	0.75	0.037	0.7380	0	102	80	120	1.67	20	
Ethylbenzene	0.75	0.037	0.7380	0.007306	100	80	120	2.46	20	
Xylenes, Total	2.2	0.074	2.214	0	101	80	120	2.29	20	
Surr: 4-Bromofluorobenzene	0.80		0.7380		109	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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: 2105219 RcptNo: 1

Received By: Juan Rojas 5/6/2021 7:20:00 AM
Completed By: Desiree Dominguez 5/6/2021 7:31:15 AM
Reviewed By: SGL 5/6/21

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 5/6/21

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, 0.4, Good, Yes, , ,

Chain-of-Custody Record

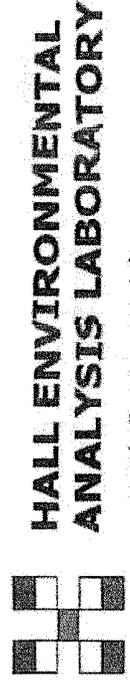
Client: Easelen, LLC
 Mailing Address: 606 S. Rio Grande, Suite A
Albuquerque, NM 80410
 Phone #: _____
 email or Fax#: Ksummers@easelen.com
 QA/QC Package: _____
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time: _____
 Standard Rush 100% Same Day
 Project Name: C-11 East West
 Project #: LD
PSA172261476
 Project Manager: K. Summers

Sampler: _____
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 06-02-0.7 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/5/21	14:10	S	S-1	14oz jar Cool	-001	2105219
5/5/21	14:15	S	S-2	14oz jar Cool	-002	
5/5/21	14:20	S	S-3	14oz jar Cool	-003	
5/5/21	14:25	S	S-4	14oz jar Cool	-004	
5/5/21	14:00	S	S-5	14oz jar Cool	-005	
5/5/21	14:30	S	S-6	14oz jar Cool	-006	
5/5/21	14:35	S	S-7	14oz jar Cool	-007	
5/5/21	14:05	S	S-8	14oz jar Cool	-008	

Date: 5/5/21 Time: 17:00 Relinquished by: [Signature]
 Date: 5/5/21 Time: 18:46 Relinquished by: [Signature]
 Received by: [Signature] Date: 5/5/21 Time: 17:25
 Received by: [Signature] Date: 5/6/21 Time: 7:20



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 / THMs (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻	X
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: PM Tom Long Same Day
N 533669
Pay Key # RB21200

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 53613

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 53613
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/4/2022