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)* **nAPP2211539844**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.725052** Longitude **-107.6228888** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Vanderwalt Com #003N**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **04/25/2022**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
I	**13**	**29N**	**8W**	**San Juan**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name*: *BLM*)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **10-15 BBLS**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **0.842 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: : On April 8, 2022, Enterprise had a release of natural gas and condensate from the Vanderwalt Com #003N pipeline. The pipeline was isolated, depressurized, locked and tagged out. No residents were affected. No washes were affected. No emergency services responded. An estimated 1-2 barrels of condensate was released to the ground surface. Enterprise began repairs and remediation on April 25, 2022 and determined that this release was reportable per NMOCD regulation due to the volume of impacted subsurface soil. The final excavation dimensions measured approximately 50 feet long by 20 feet wide by 19 feet deep. A total of 876 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.

State of New Mexico
Oil Conservation Division

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: Thomas Long Date: 05-30-2022

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: _____

Printed Name: _____ Title: _____

ENSOLUM

CLOSURE REPORT

Property:

Vanderwalt Com #003N (04/25/22)
Unit Letter I, S13 T29N R8W
San Juan County, New Mexico

NM EMNRD OCD Incident ID No. NAPP2211539844

June 28, 2022
Ensolum Project No. 05A1226190

Prepared for:

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

Prepared by:

Chad D'Aponti
Project Scientist

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Vanderwalt Com #003N (04/25/22) (Site)
NM EMNRD OCD Incident ID No.	NAPP2211539844
Location:	36.725052° North, 107.622888° West Unit Letter I, Section 13, Township 29 North, Range 8 West San Juan County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On April 8, 2022, Enterprise personnel discovered of a release of natural gas from the Vanderwalt Com #003N pipeline. Enterprise verified the leak and subsequently isolated and locked the pipeline out of service. On April 25, 2022, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. 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. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs with recorded depth to water were identified within the same Public Land Survey System (PLSS) section as the Site, and no PODS were identified in the adjacent PLSS sections. (**Figure A**, **Appendix B**).

- Numerous cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database within the same PLSS section as the site and in the adjacent sections. The two closest

CPWs are depicted on **Figure B** (**Appendix B**). The record for the cathodic protection well located near the San Juan 29-7 Unit #76A well location indicates a depth to water of approximately 60 feet to 70 feet bgs and from 150 feet to 180 feet bgs. This cathodic protection well is approximately 0.4 miles northeast of the Site and is approximately 131 feet higher in elevation than the Site. The record for the cathodic protection well located near the San Juan 29-7 Unit #126, #511, and #76R well locations indicates a depth to water of approximately 174 feet bgs. This cathodic protection well is approximately 0.4 miles southeast of the Site and is approximately 205 feet higher in elevation than the Site. Based on the records for the remainder of the CPWs located in the same PLSS section as the Site and in the adjacent sections, the average depth to water is approximately 150 feet bgs.

- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The Site is approximately 365 feet west of an ephemeral 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**).
- 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 (**Figure E**, **Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).
- The Site is not located within an unstable area.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information, Enterprise estimates the depth to water at the Site to be 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. Applicable closure criteria for soils (below four feet) remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release (Tier II)		
Constituent[1]	Method	Limit
Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
TPH (GRO+DRO+MRO)[2]	EPA SW-846 Method 8015	2,500 mg/kg
TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000 mg/kg
BTEX[3]	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

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

The closure criteria (reclamation requirements of NMAC 19.15.29.13(D)(1)) for the upper four feet of soils at the Site include:

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

3.0 SOIL REMEDIATION ACTIVITIES

On April 25, 2022, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors (WSEC), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 50 feet long and 20 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 19 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sandy clay underlain by sandstone.

Approximately 876 cubic yards (yd^3) of petroleum hydrocarbon affected soils 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, compacted, and 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 photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of 20 composite soil samples (B-1, and S-1 through S-19) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools and an excavator, operated by WSEC, were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event
On April 28, 2022, the first sampling event was performed at the Site. Composite soil sample B-1 (12') was collected from the floor of the excavation to evaluate the magnitude of hydrocarbon impact. Subsequent analytical results identified COC concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample B-1. In response to the exceedances the excavation was extended. Impacted soil associated with the sample was removed by excavation and transported to the landfarm for disposal/remediation.

Second Sampling Event
On May 9, 2022, a second sampling event was performed. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (15') and S-2 (16') were collected from the floor of the excavation. Composite soil samples S-3 (0'-15'), S-4 (0'-16'), S-5 (0'-15'), S-6 (0'-15'), S-7 (0'-15'), and S-8 (0'-16') were collected from the walls of the excavation.

Third Sampling Event
On May 10, 2022, a third sampling event was performed. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-9 (17'), S-10 (18'), and S-11 (19') were collected from the floor of the excavation. Composite soil samples S-12 (0'-17'), S-13 (0'-18'), S-14 (0'-19'), S-15 (0'-19'), S-16 (0'-19'), S-17 (0'-17'), S-18 (0'-18'), and S-19 (0'-19') were collected from the 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, total 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-11) to the applicable NM EMNRD OCD closure criteria. The soil associated with composite soil sample B-1 was removed from the Site, and therefore, is not included in the following discussion. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for the composite soil samples representing soil remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 10 mg/kg.

- The laboratory analytical results for composite soil samples S-3, S-6, S-11, S-15, and S-16 indicate total BTEX concentrations ranging from 0.039 mg/kg (S-6) to 0.83 mg/kg (S-11), which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate that total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical result for composite soil sample S-3 indicates a combined TPH GRO/DRO concentration of 12 mg/kg, which is less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg or 1,000 mg/kg (depending on the depth of the represented soil). The laboratory analytical results for the remaining composite soil samples indicate combined TPH GRO/DRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg or 1,000 mg/kg (depending on the depth of the represented soil).

- The laboratory analytical result for composite soil sample S-3 indicates a combined TPH GRO/DRO/MRO concentration of 12 mg/kg, which is less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg or 2,500 mg/kg (depending on the depth of the represented soil.) 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 NM EMNRD OCD closure criteria of 100 mg/kg or 2,500 mg/kg (depending on the depth of the represented soil).

- The laboratory analytical results for composite soil samples S-9 through S-16 indicate chloride concentrations ranging from 72 mg/kg (S-14) to 160 mg/kg (S-15), which are less than the applicable NM EMNRD OCD closure criteria of 600 mg/kg or 10,000 mg/kg (depending on depth of the represented soil). The laboratory analytical results for all other composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 600 mg/kg or 10,000 mg/kg (depending on the depth of the represented soil).

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

- Twenty composite soil samples were collected from the Site. Based on laboratory analytical results, benzene, total BTEX, combined TPH GRO/DRO/MRO, and chloride concentrations are below the New Mexico EMNRD OCD closure criteria.

- Approximately 876 yd^3 of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with clean imported fill, compacted, and contoured to the surrounding topography.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

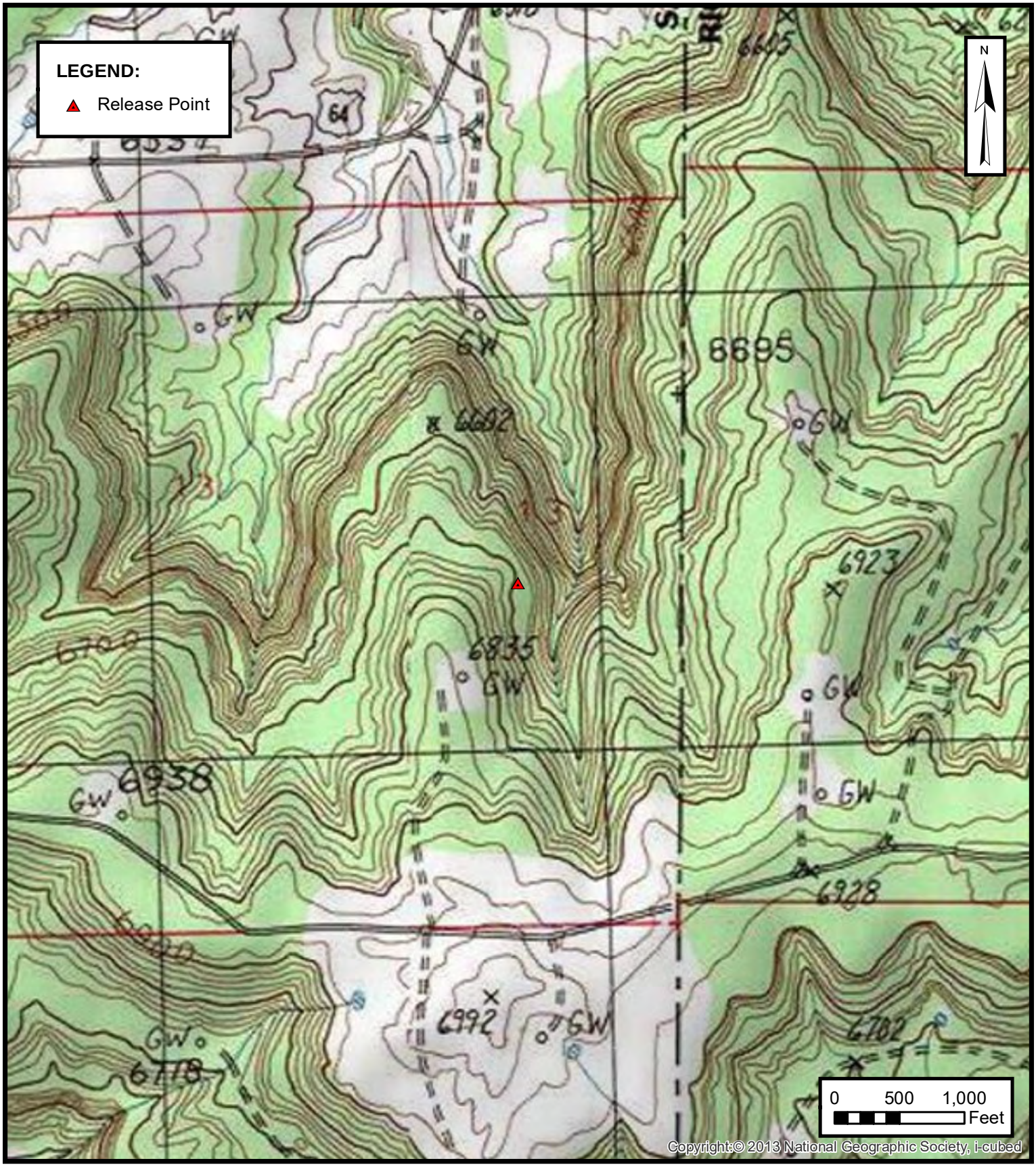
9.3 Reliance

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

ENSOLUM

APPENDIX A

Figures



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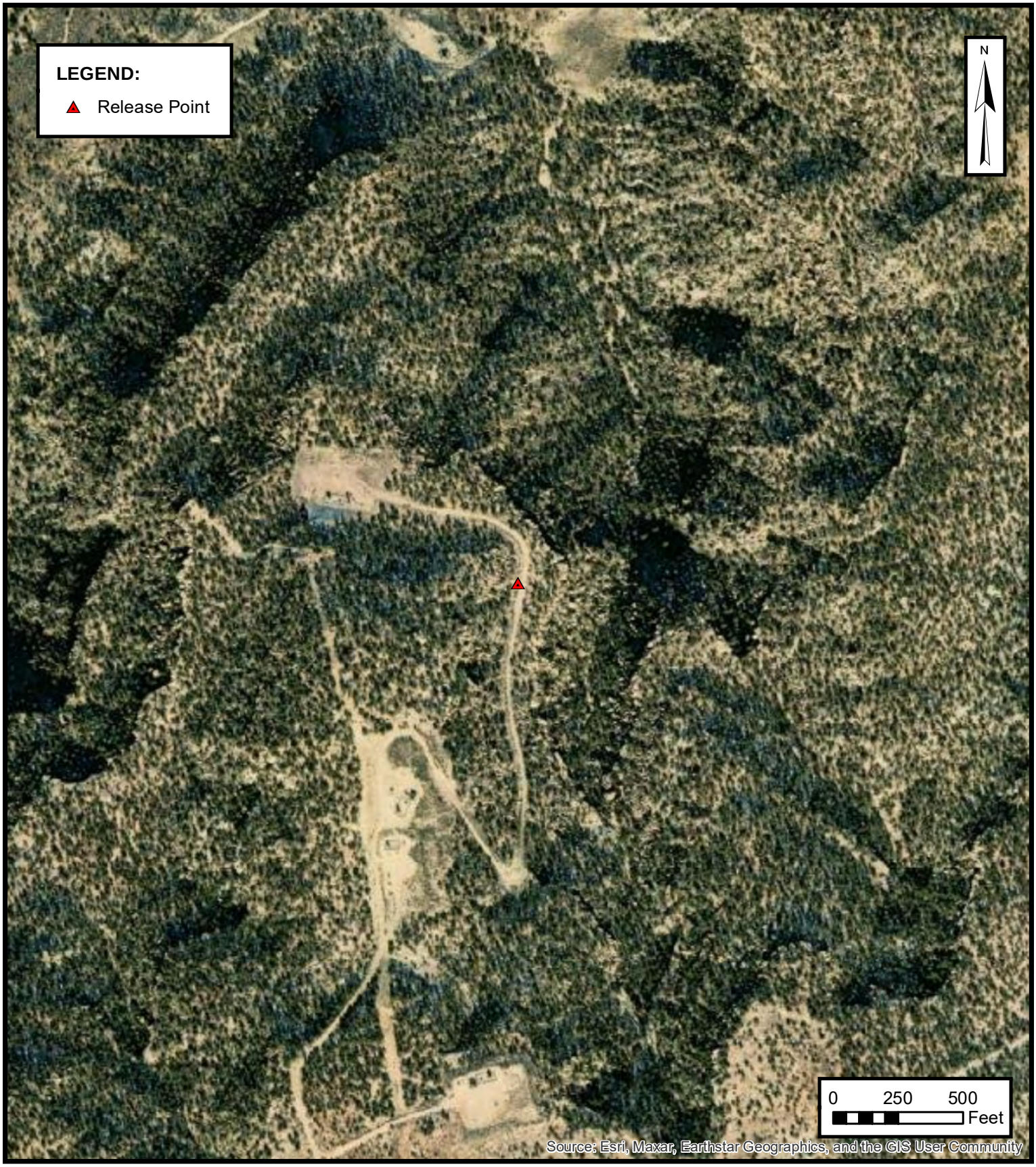
TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE
1



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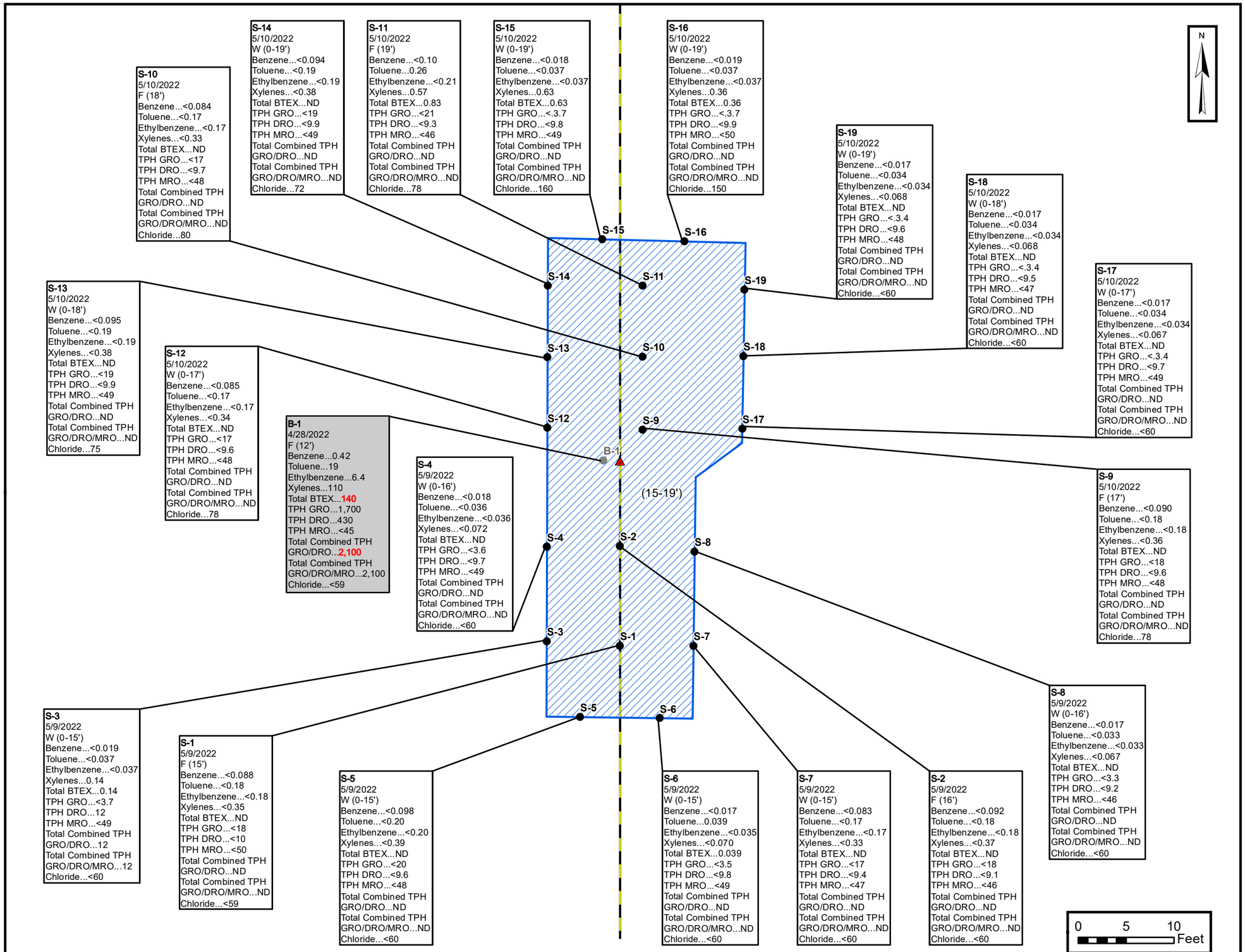
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE
2



LEGEND:

- Release Point
- Composite Soil Sample Location
- Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Diposal/Remediation
- Extent of Excavation
- Approximate Pipeline Location

NOTES:

F - Floor Sample

W - Wall Sample

All concentrations are in mg/Kg.

All depths are listed in feet below grade surface (bgs).

Analytical callouts in gray denote sampling location removed by excavation.

Concentrations in **red** exceed the applicable NM EMNRD OCD Closure Criteria.

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SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)

Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

FIGURE
3

PROJECT NUMBER: 05A1226190

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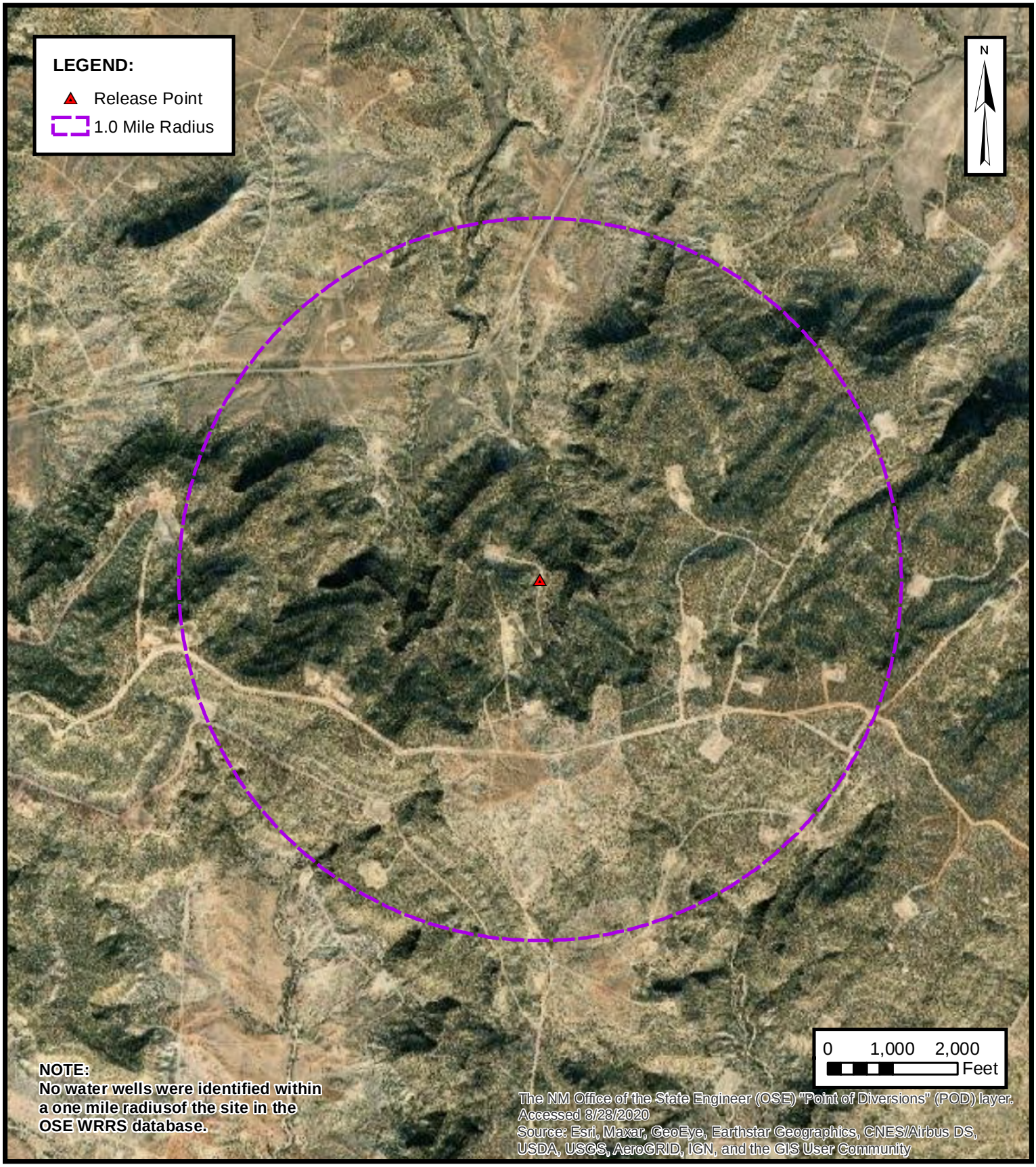
APPENDIX B

Siting Figures and Documentation



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1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE

A

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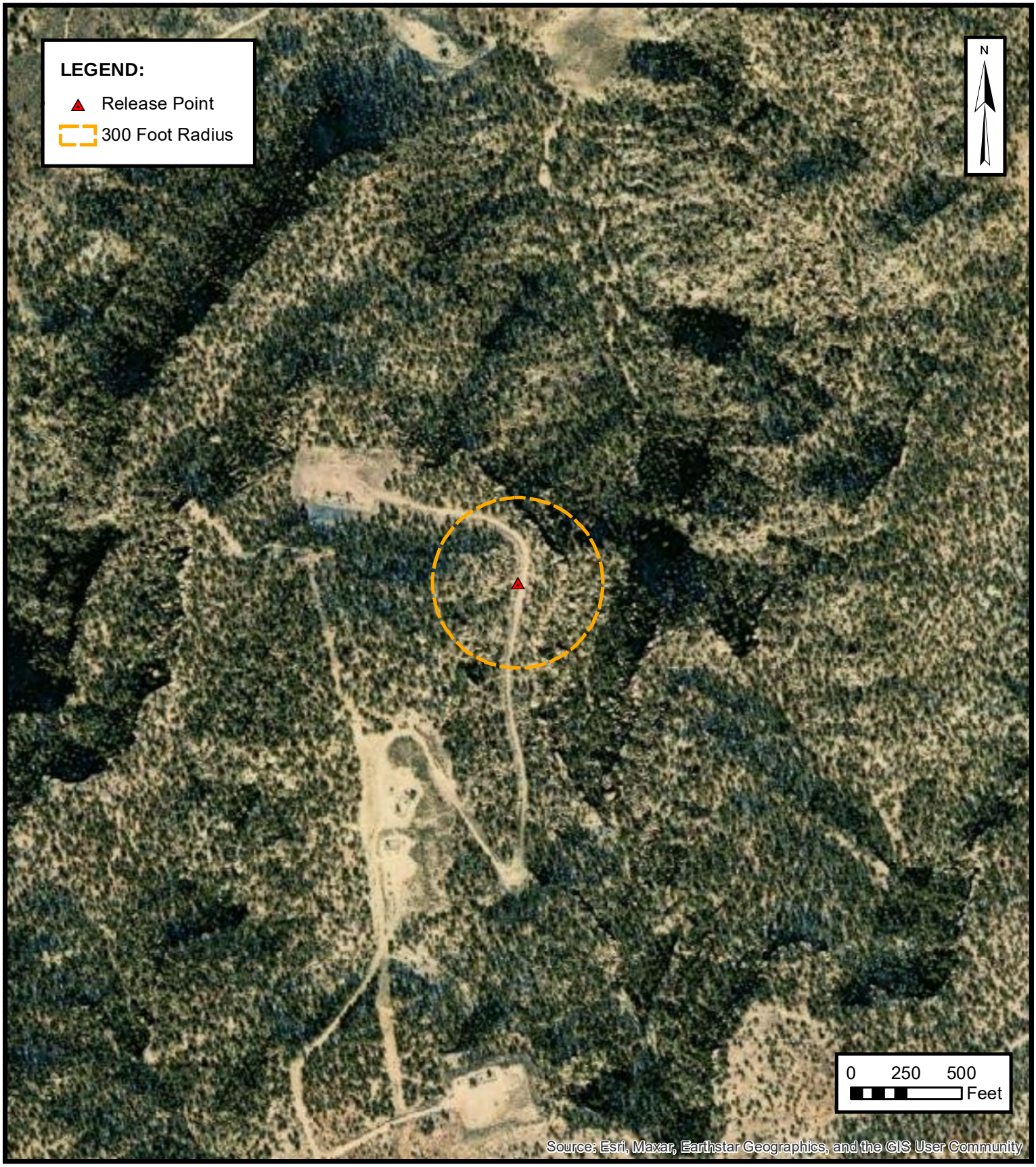
CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE

B



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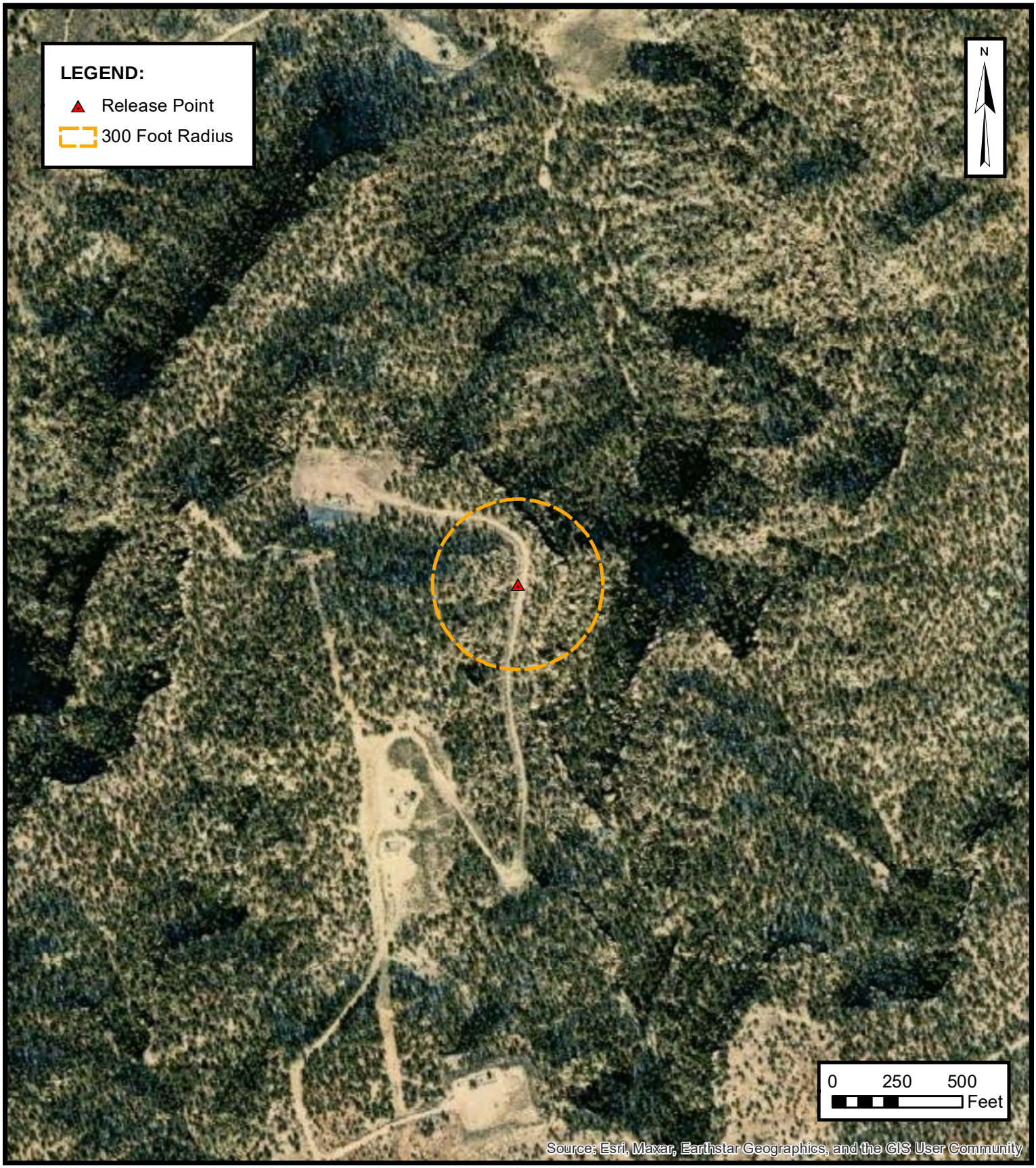
300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE
C



ENSOLUM
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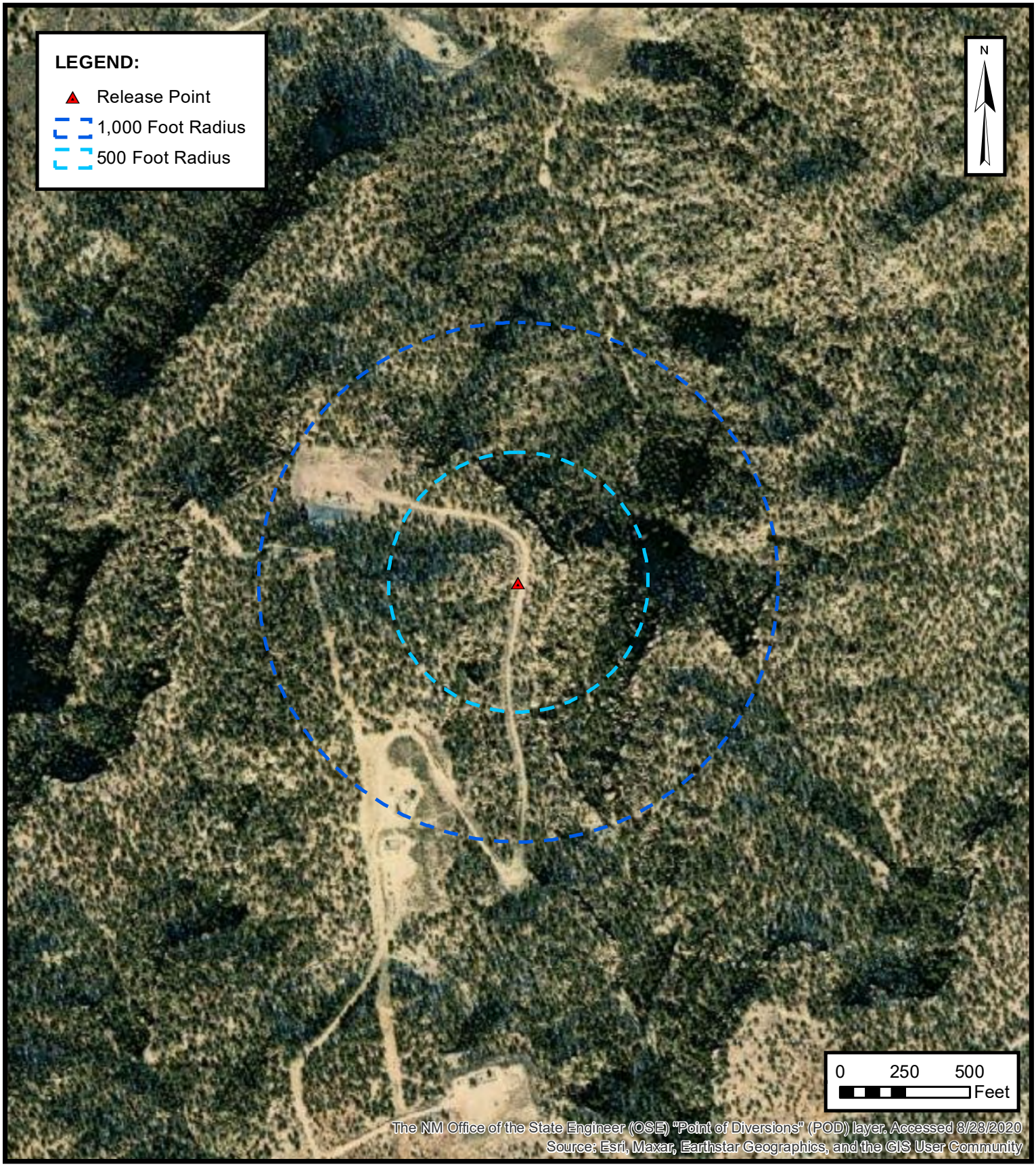
300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE
D



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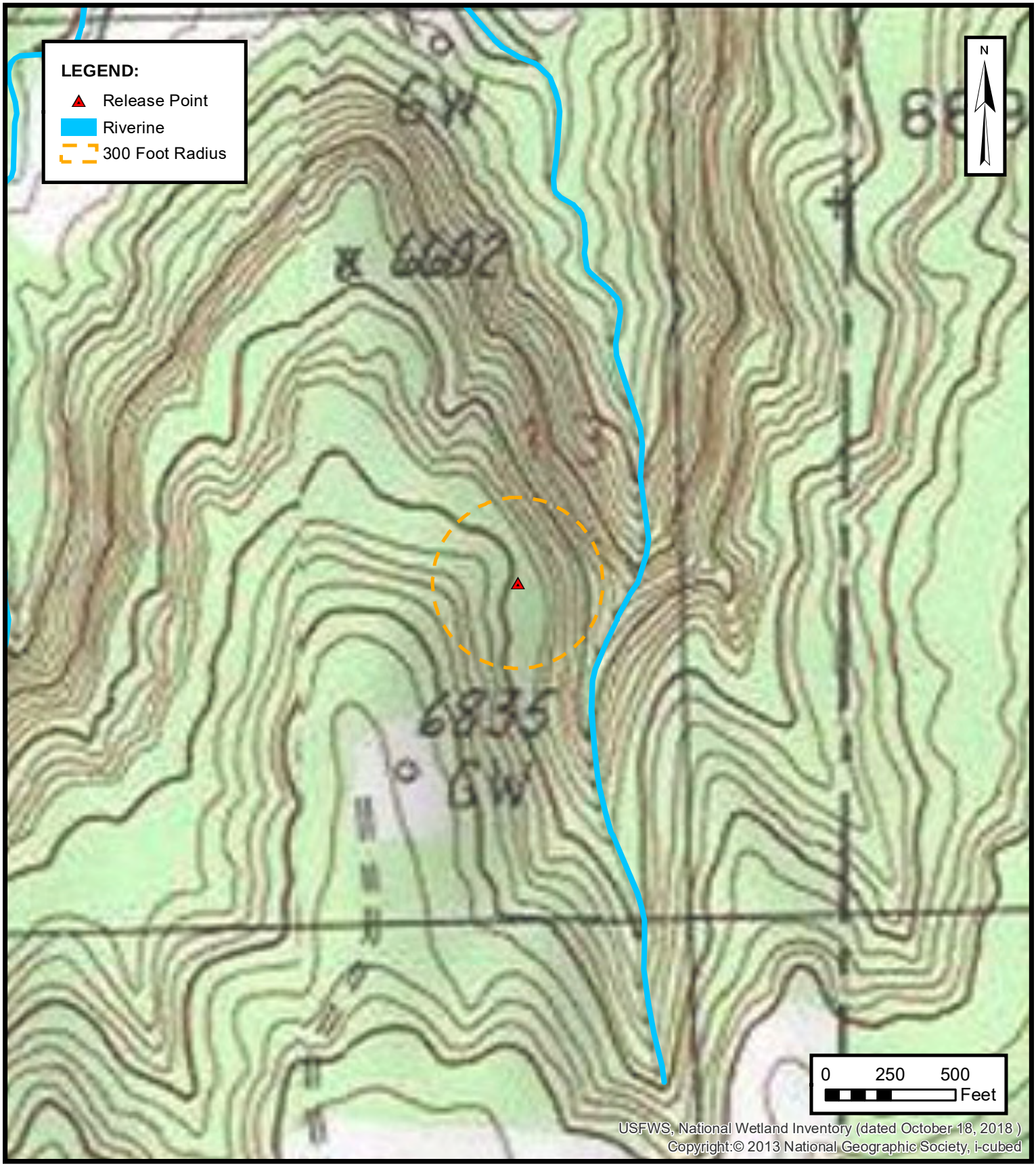
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE

E



ENSOLUM
Environmental & Hydrogeologic Consultants

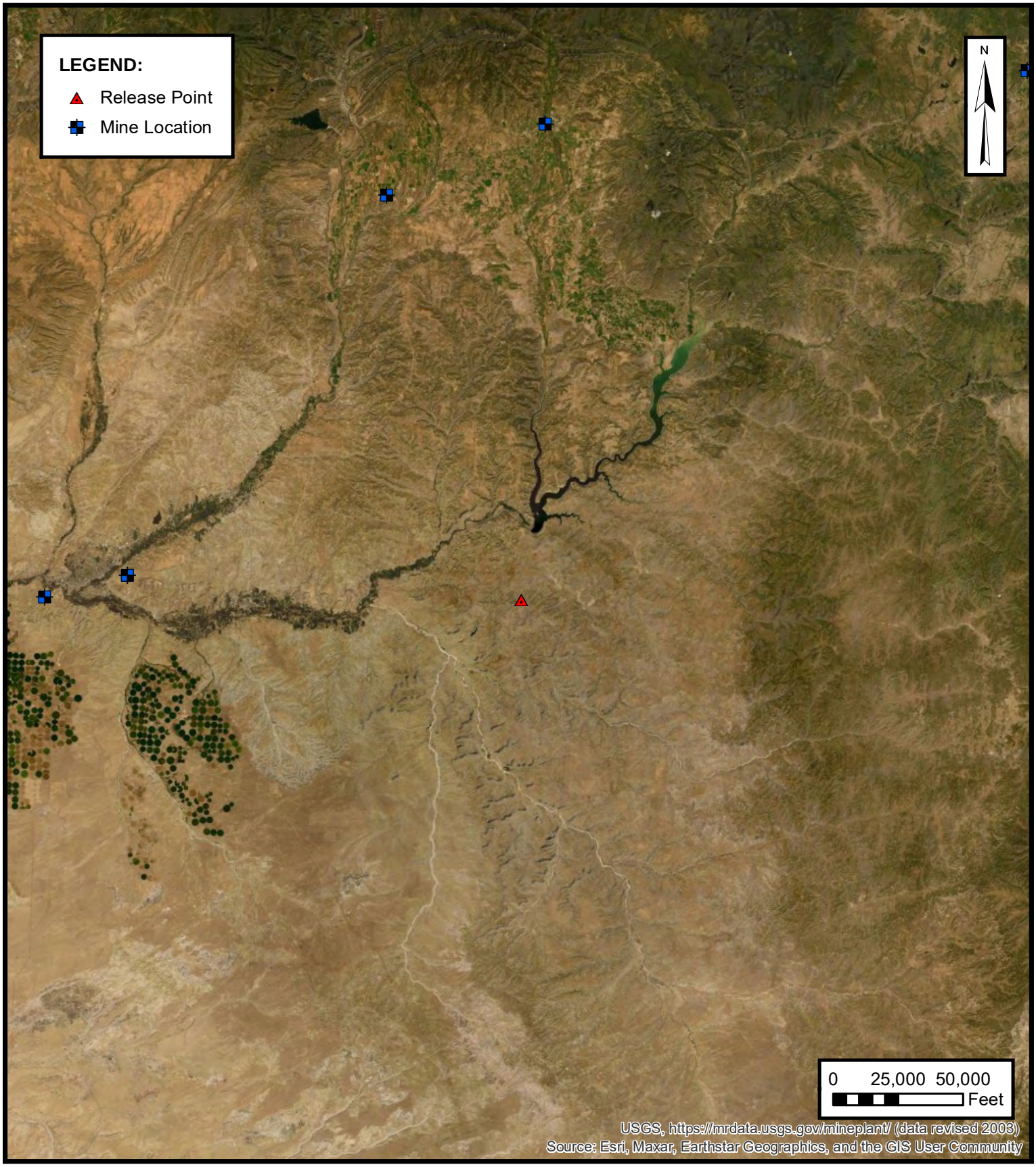
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE

F



ENSOLUM
Environmental & Hydrogeologic Consultants

MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE

G

ENSOLUM
Environmental & Hydrogeologic Consultants

100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
VANDERWALT COM #003N (04/25/22)
Unit Letter I, Sec 13 T29N R8W, San Juan County, New Mexico
36.725052° N, 107.622888° W

PROJECT NUMBER: 05A1226190

FIGURE

H

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

No records found.

PLSS Search:

Section(s): 13, 11, 12, 14, 23, 24 **Township:** 29N **Range:** 08W

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

No records found.

PLSS Search:

Section(s): 18, 7, 19 **Township:** 29N **Range:** 07W

985 30-039-21629

E

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

Operator MERIDIAN OIL Location: Unit NW Sec. 18 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #76A

cps 1408w

Elevation 6836' Completion Date 8/13/79 Total Depth 495' 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. 60' - 70' & 150' - 180' TOO MUDDY FOR SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: 56 SACKS

Depths anodes placed: 465', 450', 435', 420', 405', 390', 375', 360', 345', 310'

Depths vent pipes placed: 500'

Vent pipe perforations: 450'

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.

8 Hrs Rig
3 Hrs OT

El Paso Natural Gas Company
Form 7-238 (Rev. 11-71)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

CONTRACT #2

2" x 60" DURIRON

Drilling Log (Attach Hereto). ☐ Completion Date 8-13-7?

Well Name	Location	CPS No.
SJ 29-7-76A	NW 18-29-7	1408W

Type & Size Bit Used		Work Order No.
6 3/4"	STATIC = .88	51347-21

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
495'		56 BAGS		

Anode Depth	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
	465	450	435	420	405	390	375	360	345	310
Anode Output (Amps)	2.9	2.8	2.4	2.2	3.1	2.9	3.7	3.6	2.9	3.8

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

Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.7	Amps 14.2	Ohms .82			

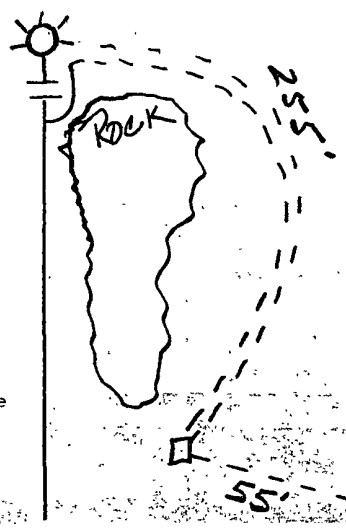
Remarks: Driller advised damper at 60 to 75' & 150-180' to muddy for sample. Guestimates 1 to 2 gal per minute from each zone. Drilled to 500. Logged 495' 500' 1" PVC vent perforated 450'

All Construction Completed

B.I.
(Signature)

GROUND BED LAYOUT SKETCH

STUB POLE
40/16 RECT
DITCH + 1 CABLE 310'
EXTRA CABLE 275'
1 HOLE = -5'



N

DISTRIBUTION:
WHITE — Division Corrosion Office
YELLOW — Area Corrosion Office
PINK — Originator File

Form 7-1 (Rev. 9-72)

El Paso Natural Gas Company
ENGINEERING CALCULATION

2 Hrs Fst
3 Hrs OT
Sheet
Date: 8-13-
By: BT
File:

STATIC = .88 | 408 W

SJ 29-7 # 76A NW 18-29-7 57347-2

Driller advised damp from 60' to 75' & 150' to 180' to muddy for samples. Guestimate 1+2 gas persons from each sand. Drilled to 500 Logged 495

500' 1" PVC & coil pipe perforated 450'
TD 495'

MW		gals/mol
16.04	C_1	6.4
30.07	C_2	10.12
44.10	C_3	10 42
58.12	iC_4	12.38
58.12	nC_4	11.93
72.15	iC_5	13.85
72.15	nC_5	13.71
86.18	iC_6	15.50
86.18	C_6	15 57
100.21	iC_7	17.2
100 21	C_7	17.46
114.23	C_8	19.39
28.05	$C_2^=$	9.64
42 08	$C_3^=$	9 67

MISC. MW		gals/mol
32.00	O_2	3 37
28.01	CO	4 19
44 01	CO_2	6 38
64 06	SO_2	5 50
34.08	H_2S	5 17
28.01	N_2	4.16
2.02	H_2	3 38

11.7 √ 14.2 A = .82

200	.5						
5	.4	5	.9		5	1.9	-(5)
10	.4	10	1.9 -(10)		10	1.5	
15	.3	15	1.9		15	1.5	
20	.9	20	1.0		20	1.3	-(4)
25	1.5	25	.9		25	1.2	
30	1.3	30	.6		30	1.1	
35	.8	35	.6		35	1.1	-(3)
40	1.1	40	1.6		40	1.4	
45	1.5	45	1.7 -(9)		45	1.6	
50	1.5	50	1.7		50	1.6	-(2)
55	1.2	55	1.7		55	1.6	
60	.9	60	1.9 -(8)		60	1.6	
65	.7	65	1.6		65	1.7	-(1)
70	.5	70	1.6		70	1.6	
75	.4	75	1.8 -(7)		75	1.5	
80	.4	80	1.9		80	1.5	
85	.4	85	1.8		85	1.5	
90	.4	90	1.5 -(6)		90	1.5	
95	.4	95	1.5		95		
300	.5	400	1.8		500		

1 = 465	2.1	2.9	
2 = 450	2.1	2.8	
3 = 435	1.7	2.4	
4 = 420	1.5	2.2	
5 = 405	2.2	3.1	
6 = 390	1.8	2.9	
7 = 375	2.3	3.7	
8 = 360	2.2	3.6	
9 = 345	2.1	2.9	
10 = 310	2.7	3.8	

Form 22-2 (Rev. 1-61)

GPI 1408

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE | WELL NO. | CONTRACTOR Losey | RIG NO. | REPORT NO. | DATE 8-13 19 79

MORNING

Driller | Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. | NO. DC ___ SIZE ___ LENG. ___
SER. NO. 6 3/4 | NO. DC ___ SIZE ___ LENG. ___
SIZE | STANDS
TYPE | SINGLES
MAKE | DOWN ON KELLY
TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
0	7	Sandstone
7	25	Sandstone
25	60	Shale
60	75	Sand wet making water
75	90	Shale
90	120	Sand wet

REMARKS –

120 - 150 Shale
150 - 180 Sand wet making water
180 - 200 Shale
200 - 215 Sandy Shale
215 - 245 Shale
245 - 255 Sandy Shale
255 - 265 Sand
265 - 280 Shale

DAYLIGHT

Driller | Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. | NO. DC ___ SIZE ___ LENG. ___
SERIAL NO. | NO. DC ___ SIZE ___ LENG. ___
SIZE | STANDS
TYPE | SINGLES
MAKE | DOWN ON KELLY
TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
280	295	Sandy Shale
295	305	Sand
305	330	Shale
330	340	Sandstone
340	380	Shale
380	415	Sandy Shale

REMARKS –

415 - 420 Sand Stone
420 - 485 Sandy Shale
485 - 500 Sand

EVENING

Driller | Total Men In Crew

Drilled 500 to 485 Logged

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. | NO. DC ___ SIZE ___ LENG. ___
SERIAL NO. | NO. DC ___ SIZE ___ LENG. ___
SIZE | STANDS
TYPE | SINGLES
MAKE | DOWN ON KELLY
TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
		Log 2.10

REMARKS –

1 - 2 gal min

SIGNED: Toolpusher Losey Company Supervisor

76R- 30-039-20319 4607
511 - 30-039-24378
126- 30-039-23774

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

Operator MERIDIAN OIL Location: Unit SW Sec. 18 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #126, #511, #76R

cps 84w

Elevation 6910' Completion Date 10/20/71 Total Depth 620' 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. 174'

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST.

Depths gas encountered: N/A

Type & amount of coke breeze used: 9600 lbs.

Depths anodes placed: 570', 560', 550', 540', 530', 520', 475', 465', 455', 445'

Depths vent pipes placed: 570'

Vent pipe perforations: 423'

Remarks: gb #2 LOST HOLE #1 AT 520'. #1 ANODE NO RESPONCE TO COKE.

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.

El Paso Natural Gas Company
Form 7-238 (Rev. 1-69)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Completion Date 10-20-71

Well Name	Location	CPS No.
San Juan 29-7 No. 76J	SW 18-29N-7W	84W

Type & Size Bit Used	Work Order No.
6 3/4"	184-54766-50-20

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
620'		9600		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	570	560	550	540	530	520	475	465	455	445
Anode Output (Amps)	1.85	2.70	3.7	3.5	3.1	3.0	2.8	3.1	3.3	3.7
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)										

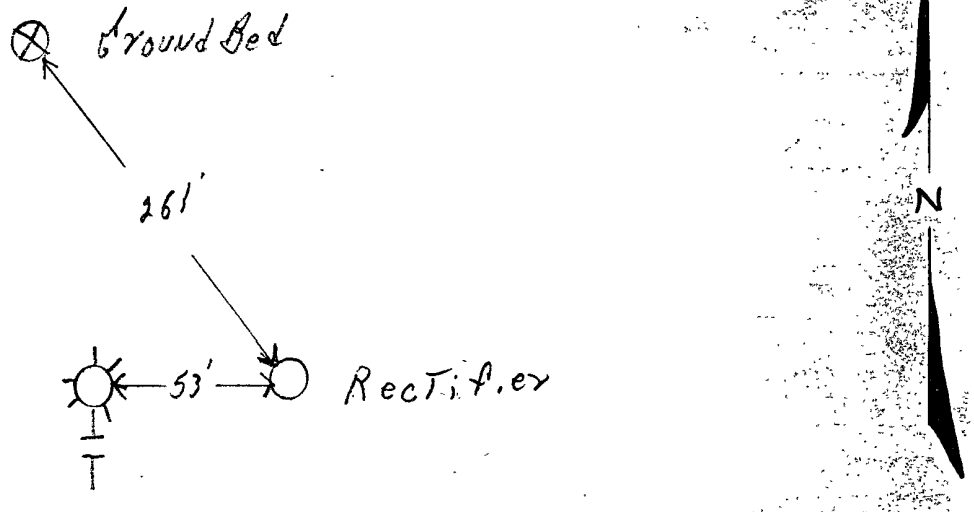
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.3	Amps 13.5	Ohms 0.83Ω		

Remarks: 10-17-71 Driller Drilled To 500' Logged Hole NOT Enough Room. Driller switched To Mud Had Lost circulat Drilled To 520' Lost Drilling Bit in Hole. Moved Rig over and Drilled Hole #2. Vent Hose Perforated 423' To #1 An. Note: #1 Anode No Response To Coke Breeze. Contractor Had Not Marked pumping Hose correctly Bottom of Pumping Hose was 15' Above #1 Anode. Pumped 385 Shovels = 55 Sacks complete By Slurry. Driller Blew water out of Hole AT 174'. Note: Positive and Negative Cables Not Installed Tobe Installed Later By Dozer

All Construction Completed

(Signature)

GROUND BED LAYOUT SKETCH



Original & 1 Copy All Reports

Form 22-2 (Rev. 1-61)

C.P.S. # 842

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE Sanguen 29-7 WELL NO. 76Y CONTRACTOR Morrow RIG NO. REPORT NO. DATE 10-20 1971

MORNING

Driller Holland Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	15	sand stone		
15	30	shale		
30	50	sand		
50	90	shale		

NO. DC ____ SIZE ____ LENG. ____

BIT NO.

NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
90	120	sand		
120	150	shale		
150	170	sand wet water		
170	230	shale		

NO. DC ____ SIZE ____ LENG. ____

BIT NO.

NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS – lost hole #1 @ 520 ft. moved over drilled new hole to 620 ft. 17 hrs drilling time

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
230	410	sand		
410	580	sandy shale & sand		
580	620	sand		

NO. DC ____ SIZE ____ LENG. ____

BIT NO.

NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Joe Morrow Company Supervisor

84 W
San Juan 29-7 #764
Hole #2

							Driller said blew water out of Hole @ 1741		
150		20		90	1.10				
					1.0		Depth	Water	Coke
60		30		500	.80	1	570	1.85	1.85
					.82	2	560	1.70	2.70
70		40		10	1.08	3	550	2.1	3.70
					1.68	4	540	1.97	3.50
80		50		20	1.78	5	530	1.74	3.10
					1.45	6	520	1.80	3.0
90		60		30	1.55	7	475	1.55	2.8
					1.72	8	465	1.65	3.1
200		70		40	1.80	9	455	1.93	3.3
					1.88	10	445	2.1	3.7
10		80		50	1.74				
					2.0		11.3V	13.5A	0.83Ω
20		90		60	1.72				
					1.62		Vent Perforated		
30		400	.78	70	1.75		423' To #1 Annex		
			.52		1.72				
40		10	.52	80	1.75		Pumped 385 sHovels		
			.54		2.0		= 55 sacks Completed		
50		20	.55	90	—		By Starry		
			.90	594 - BOTTOM					
60		30	1.20	600					
			.52						
70		40	1.05	10					
		—	2.0						
80		50	1.75	20					
		—	1.85						
90		60	1.82						
		—	1.55						
300		70	1.65						
		—	1.58						
10		80	1.18						
			1.30						

MW		gals/mol
16	C_1	6 4
30	C_2	9 56
44	C_3	10 42
58	IC_4	12 38
"	NC_4	11 93
72	IC_5	13 85
"	NC_5	13 71
86	IC_6	15 50
"	C_6	15 37
100	IC_7	17 2
"	C_7	17 46
114	C_8	19 38
28	$C_2^=$	9 64
42	$C_3^=$	9 67

MISC

MW		gals/mol
44	CO_2	6 38
34	H_2S	5 17
28	N_2	4 16
2	H_2	3 38

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

97057-1125

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Vanderwalt Com #3

AFE: N59261
PM: Aaron Lucero
Pay Key: RB21200

2. Location of Material (Street Address, City, State or ULSTR):
UL I Section 13 T29N R8W; 36.725052, -107.622888

April / May 2022

4. Source and Description of Waste:
Source: Hydrocarbon contaminated soil/sludge associated with remediation activities from a natural gas pipeline release.
Description: Hydrocarbon contaminated soil/sludge associated with remediation activities from a natural gas pipeline release.
Estimated Volume 50 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 876 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) 4-25-2022, representative for Enterprise Products Operating authorize 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: TBD HBL, CF&M, L&L, West States

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011**
Address of Facility: **Hill Top, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro. Manager DATE: 4/26/22

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Vanderwalt Com #003N (04/25/22)
Ensolum Project No. 05A1226190

ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Vanderwalt Com #003N (04/25/22)
Ensolum Project No. 05A1226190

ENSOLUM

Photograph 4 Photograph Description: View of the excavation.	
Photograph 5 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Kyle Summers
To: Ranee Deechilly; Chad D"Aponti
Subject: Fwd: [EXTERNAL] Vanderwalt Com #003N; UL I Section 13 T29N R8W; 36.725052, -107.622888; Incident # nAPP2208336723
Date: Monday, May 9, 2022 1:37:58 PM

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Monday, May 9, 2022 2:37:10 PM
To: Long, Thomas <tjlong@eprod.com>; rjoyner@blm.gov <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>; Chad D'Aponti <cdaponti@ensolum.com>
Subject: RE: [EXTERNAL] Vanderwalt Com #003N; UL I Section 13 T29N R8W; 36.725052, -107.622888; Incident # nAPP2208336723

[**EXTERNAL EMAIL**]

Tom,

Thanks again for the notice. Please refer to my previous sampling response below for the correspondence documentation for scheduling and reporting purposes.

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00–11:00 am & 12:00–3:30 pm Mon.–Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

-----Original Message-----
From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, May 9, 2022 10:59 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; rjoyner@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>; Chad D'Aponti <cdaponti@ensolum.com>
Subject: RE: [EXTERNAL] Vanderwalt Com #003N; UL I Section 13 T29N R8W; 36.725052, -107.622888; Incident # nAPP2208336723

Nelson/Ryan,

This email is a notification that Enterprise will be collecting soil samples again for laboratory analysis on Tuesday, May 10, 2022 at 10:00 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<mailto:tjlong@eprod.com>

[image001.jpg]

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Monday, May 9, 2022 9:07 AM
To: Long, Thomas <tjlong@eprod.com>; rjoyner@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>; Chad D'Aponti <cdaponti@ensolum.com>
Subject: RE: [EXTERNAL] Vanderwalt Com #003N; UL I Section 13 T29N R8W; 36.725052, -107.622888; Incident # nAPP2208336723

[Use caution with links/attachments]

Tom,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports.

Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards

Nelson Velez ● Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us<mailto:nelson.velez@state.nm.us>

Hrs.: 7:00–11:00 am & 12:00–3:30 pm Mon.–Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>
Sent: Friday, May 6, 2022 9:01 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us<mailto:Nelson.Velez@state.nm.us>>; rjoyner@blm.gov<mailto:rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers <ksummers@ensolum.com<mailto:ksummers@ensolum.com>>; Chad D'Aponti <cdaponti@ensolum.com<mailto:cdaponti@ensolum.com>>
Subject: [EXTERNAL] Vanderwalt Com #003N; UL I Section 13 T29N R8W; 36.725052, -107.622888; Incident # nAPP2208336723

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.
Nelson/Ryan,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Monday, May 9, 2022 at 10:00 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<mailto:tjlong@eprod.com>

[image001.jpg]

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Vanderwalt Com #003N (04/25/22)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO)[1] (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I and Tier II)				10	NE	NE	NE	50	NE	NE	NE	1,000	Tier I (<4 feet) - 100 Tier II - 2,500	Tier I (<4 feet) - 600 Tier II - 10,000
Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Diposal/Remediation														
B-1	4.28.22	C	12	0.42	19	6.4	110	**140**	1,700	430	<45	**2,100**	2,100	<59
Excavation Composite Soil Samples														
S-1	5.9.22	C	15	<0.088	<0.18	<0.18	<0.35	ND	<18	<10	<50	ND	ND	<59
S-2	5.9.22	C	16	<0.092	<0.18	<0.18	<0.37	ND	<18	<9.1	<46	ND	ND	<60
S-3	5.9.22	C	0 to 15	<0.019	<0.037	<0.037	0.14	0.14	<3.7	12	<49	12	12	<60
S-4	5.9.22	C	0 to 16	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.7	<49	ND	ND	<60
S-5	5.9.22	C	0 to 15	<0.098	<0.20	<0.20	<0.39	ND	<20	<9.6	<48	ND	ND	<60
S-6	5.9.22	C	0 to 15	<0.017	0.039	<0.035	<0.070	0.039	<3.5	<9.8	<49	ND	ND	<60
S-7	5.9.22	C	0 to 15	<0.083	<0.17	<0.17	<0.33	ND	<17	<9.4	<47	ND	ND	<60
S-8	5.9.22	C	0 to 16	<0.017	<0.033	<0.033	<0.067	ND	<3.3	<9.2	<46	ND	ND	<60
S-9	5.10.22	C	17	<0.090	<0.18	<0.18	<0.36	ND	<18	<9.6	<48	ND	ND	78
S-10	5.10.22	C	18	<0.084	<0.17	<0.17	<0.33	ND	<17	<9.7	<48	ND	ND	80
S-11	5.10.22	C	19	<0.10	0.26	<0.21	0.57	0.83	<21	<9.3	<46	ND	ND	78
S-12	5.10.22	C	0 to 17	<0.085	<0.17	<0.17	<0.34	ND	<17	<9.6	<48	ND	ND	78
S-13	5.10.22	C	0 to 18	<0.095	<0.19	<0.19	<0.38	ND	<19	<9.9	<49	ND	ND	75
S-14	5.10.22	C	0 to 19	<0.094	<0.19	<0.19	<0.38	ND	<19	<9.9	<49	ND	ND	72
S-15	5.10.22	C	0 to 19	<0.018	<0.037	<0.037	0.63	0.63	<3.7	<9.8	<49	ND	ND	160
S-16	5.10.22	C	0 to 19	<0.019	<0.037	<0.037	0.36	0.36	<3.7	<9.9	<50	ND	ND	150
S-17	5.10.22	C	0 to 17	<0.017	<0.034	<0.034	<0.067	ND	<3.4	<9.7	<49	ND	ND	<60
S-18	5.10.22	C	0 to 18	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.5	<47	ND	ND	<60
S-19	5.10.22	C	0 to 19	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.6	<48	ND	ND	<60

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

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

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

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

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 05, 2022

Kyle Summers

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

RE: Vanderwalt OrderNo.: 2204C78

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/29/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204C78**
Date Reported: **5/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: B-1
Project: Vanderwalt
Collection Date: 4/28/2022 10:00:00 AM
Lab ID: 2204C78-001 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	4/29/2022 1:46:15 PM	67162
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	430	9.0		mg/Kg	1	4/29/2022 10:15:19 AM	67158
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/29/2022 10:15:19 AM	67158
Surr: DNOP	88.4	51.1-141		%Rec	1	4/29/2022 10:15:19 AM	67158
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1700	180		mg/Kg	50	4/29/2022 11:01:31 AM	G87621
Surr: BFB	302	37.7-212	S	%Rec	50	4/29/2022 11:01:31 AM	G87621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.42	0.091		mg/Kg	5	4/29/2022 9:03:25 AM	B87621
Toluene	19	1.8		mg/Kg	50	4/29/2022 11:01:31 AM	B87621
Ethylbenzene	6.4	0.18		mg/Kg	5	4/29/2022 9:03:25 AM	B87621
Xylenes, Total	110	3.6		mg/Kg	50	4/29/2022 11:01:31 AM	B87621
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	50	4/29/2022 11:01:31 AM	B87621

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C78**

05-May-22

Client: ENSOLUM

Project: Vanderwalt

Sample ID: **MB-67162**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **67162**	RunNo: **87634**							
Prep Date: **4/29/2022**	Analysis Date: **4/29/2022**	SeqNo: **3103125**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67162**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **67162**	RunNo: **87634**							
Prep Date: **4/29/2022**	Analysis Date: **4/29/2022**	SeqNo: **3103126**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C78**

05-May-22

Client: ENSOLUM

Project: Vanderwalt

Sample ID: **MB-67158**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67158**	RunNo: **87609**
Prep Date: **4/29/2022**	Analysis Date: **4/29/2022**	SeqNo: **3102248** 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		87.0	51.1	141			

Sample ID: **LCS-67158**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67158**	RunNo: **87609**
Prep Date: **4/29/2022**	Analysis Date: **4/29/2022**	SeqNo: **3102249** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	68.9	135			
Surr: DNOP	4.1		5.000		81.8	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C78**

05-May-22

Client: ENSOLUM

Project: Vanderwalt

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G87621**	RunNo: **87621**							
Prep Date:	Analysis Date: **4/29/2022**	SeqNo: **3102438**	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		100	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G87621**	RunNo: **87621**							
Prep Date:	Analysis Date: **4/29/2022**	SeqNo: **3102439**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	2100		1000		208	37.7	212			

Sample ID: **mb-67147**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **67147**	RunNo: **87621**							
Prep Date: **4/28/2022**	Analysis Date: **4/30/2022**	SeqNo: **3102469**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.9	37.7	212			

Sample ID: **lcs-67147**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **67147**	RunNo: **87621**							
Prep Date: **4/28/2022**	Analysis Date: **4/30/2022**	SeqNo: **3102470**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		204	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C78**

05-May-22

Client: ENSOLUM

Project: Vanderwalt

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B87621**	RunNo: **87621**
Prep Date:	Analysis Date: **4/29/2022**	SeqNo: **3102497** 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	0.98		1.000		97.7	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B87621**	RunNo: **87621**
Prep Date:	Analysis Date: **4/29/2022**	SeqNo: **3102498** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: **mb-67147**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67147**	RunNo: **87621**
Prep Date: **4/28/2022**	Analysis Date: **4/30/2022**	SeqNo: **3102528** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: **LCS-67147**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67147**	RunNo: **87621**
Prep Date: **4/28/2022**	Analysis Date: **4/30/2022**	SeqNo: **3102529** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2204C78 RcptNo: 1

Received By: Tracy Casarrubias 4/29/2022 7:10:00 AM

Completed By: Tracy Casarrubias 4/29/2022 7:41:43 AM

Reviewed By: JN 4-29-22

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 4/29/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #: Ensolum

email or Fax#: cdaponti@ com

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

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

Turn-Around Time: Normal
☐ Standard ☑ Rush 4-29-22

Project Name: Vanderwalt

Project #: 05A1221190

Project Manager: K Sammers

Sampler: C DAponti

On Ice: ☑ Yes ☐ No

# of Coolers: 1

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

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204C78	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, ~~F~~, ~~Br~~, ~~NO3~~, ~~NO2~~, ~~PO4~~, ~~SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/28	1000	S	B-1	1402 Jar	Cool	001	✓	✓					✓			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/28/22	1409				4/28/22	1409
4/28/22	1807	Christian Walker		Courier	4/29/22	7:10

Remarks: Pm Tom Long
Pay Key RB21200
AFE #
Send Dag

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 13, 2022

Kyle Summers

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

RE: Vanderwalt Com 003 N OrderNo.: 2205427

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/10/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205427**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-1
Project: Vanderwalt Com 003 N
Collection Date: 5/9/2022 10:00:00 AM
Lab ID: 2205427-001 **Matrix:** SOIL **Received Date:** 5/10/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	59		mg/Kg	20	5/10/2022 10:40:05 AM	67367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/10/2022 10:38:31 AM	67365
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/10/2022 10:38:31 AM	67365
Surr: DNOP	94.5	51.1-141		%Rec	1	5/10/2022 10:38:31 AM	67365
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	5/10/2022 8:45:18 AM	G87865
Surr: BFB	98.9	37.7-212		%Rec	5	5/10/2022 8:45:18 AM	G87865
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.088		mg/Kg	5	5/10/2022 8:45:18 AM	B87865
Toluene	ND	0.18		mg/Kg	5	5/10/2022 8:45:18 AM	B87865
Ethylbenzene	ND	0.18		mg/Kg	5	5/10/2022 8:45:18 AM	B87865
Xylenes, Total	ND	0.35		mg/Kg	5	5/10/2022 8:45:18 AM	B87865
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	5	5/10/2022 8:45:18 AM	B87865

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205427**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-2
Project: Vanderwalt Com 003 N
Collection Date: 5/9/2022 10:05:00 AM
Lab ID: 2205427-002 **Matrix:** SOIL **Received Date:** 5/10/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	5/10/2022 10:52:30 AM	67367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/10/2022 10:52:13 AM	67365
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/10/2022 10:52:13 AM	67365
Surr: DNOP	97.2	51.1-141		%Rec	1	5/10/2022 10:52:13 AM	67365
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	5/10/2022 9:08:42 AM	G87865
Surr: BFB	101	37.7-212		%Rec	5	5/10/2022 9:08:42 AM	G87865
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.092		mg/Kg	5	5/10/2022 9:08:42 AM	B87865
Toluene	ND	0.18		mg/Kg	5	5/10/2022 9:08:42 AM	B87865
Ethylbenzene	ND	0.18		mg/Kg	5	5/10/2022 9:08:42 AM	B87865
Xylenes, Total	ND	0.37		mg/Kg	5	5/10/2022 9:08:42 AM	B87865
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	5/10/2022 9:08:42 AM	B87865

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205427**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-3
Project: Vanderwalt Com 003 N
Collection Date: 5/9/2022 10:10:00 AM
Lab ID: 2205427-003 **Matrix:** SOIL **Received Date:** 5/10/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	5/10/2022 11:04:54 AM	67367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	5/10/2022 11:05:52 AM	67365
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/10/2022 11:05:52 AM	67365
Surr: DNOP	95.6	51.1-141		%Rec	1	5/10/2022 11:05:52 AM	67365
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/10/2022 9:32:08 AM	G87865
Surr: BFB	112	37.7-212		%Rec	1	5/10/2022 9:32:08 AM	G87865
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	5/10/2022 9:32:08 AM	B87865
Toluene	ND	0.037		mg/Kg	1	5/10/2022 9:32:08 AM	B87865
Ethylbenzene	ND	0.037		mg/Kg	1	5/10/2022 9:32:08 AM	B87865
Xylenes, Total	0.14	0.075		mg/Kg	1	5/10/2022 9:32:08 AM	B87865
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/10/2022 9:32:08 AM	B87865

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205427**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-4
Project: Vanderwalt Com 003 N
Collection Date: 5/9/2022 10:15:00 AM
Lab ID: 2205427-004 **Matrix:** SOIL **Received Date:** 5/10/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	5/10/2022 11:17:19 AM	67367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/10/2022 11:19:39 AM	67365
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/10/2022 11:19:39 AM	67365
Surr: DNOP	97.1	51.1-141		%Rec	1	5/10/2022 11:19:39 AM	67365
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	5/10/2022 9:55:37 AM	G87865
Surr: BFB	107	37.7-212		%Rec	1	5/10/2022 9:55:37 AM	G87865
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	5/10/2022 9:55:37 AM	B87865
Toluene	ND	0.036		mg/Kg	1	5/10/2022 9:55:37 AM	B87865
Ethylbenzene	ND	0.036		mg/Kg	1	5/10/2022 9:55:37 AM	B87865
Xylenes, Total	ND	0.072		mg/Kg	1	5/10/2022 9:55:37 AM	B87865
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/10/2022 9:55:37 AM	B87865

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205427**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-5
Project: Vanderwalt Com 003 N
Collection Date: 5/9/2022 10:20:00 AM
Lab ID: 2205427-005 **Matrix:** SOIL **Received Date:** 5/10/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	5/10/2022 11:29:44 AM	67367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/10/2022 11:33:19 AM	67365
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/10/2022 11:33:19 AM	67365
Surr: DNOP	98.4	51.1-141		%Rec	1	5/10/2022 11:33:19 AM	67365
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	5/10/2022 10:19:14 AM	G87865
Surr: BFB	99.9	37.7-212		%Rec	5	5/10/2022 10:19:14 AM	G87865
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.098		mg/Kg	5	5/10/2022 10:19:14 AM	B87865
Toluene	ND	0.20		mg/Kg	5	5/10/2022 10:19:14 AM	B87865
Ethylbenzene	ND	0.20		mg/Kg	5	5/10/2022 10:19:14 AM	B87865
Xylenes, Total	ND	0.39		mg/Kg	5	5/10/2022 10:19:14 AM	B87865
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	5	5/10/2022 10:19:14 AM	B87865

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205427**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-6
Project: Vanderwalt Com 003 N
Collection Date: 5/9/2022 10:25:00 AM
Lab ID: 2205427-006 **Matrix:** SOIL **Received Date:** 5/10/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	5/10/2022 11:42:08 AM	67367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/10/2022 11:47:11 AM	67365
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/10/2022 11:47:11 AM	67365
Surr: DNOP	99.9	51.1-141		%Rec	1	5/10/2022 11:47:11 AM	67365
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	5/10/2022 10:42:49 AM	G87865
Surr: BFB	151	37.7-212		%Rec	1	5/10/2022 10:42:49 AM	G87865
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.017		mg/Kg	1	5/10/2022 10:42:49 AM	B87865
Toluene	0.039	0.035		mg/Kg	1	5/10/2022 10:42:49 AM	B87865
Ethylbenzene	ND	0.035		mg/Kg	1	5/10/2022 10:42:49 AM	B87865
Xylenes, Total	ND	0.070		mg/Kg	1	5/10/2022 10:42:49 AM	B87865
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	5/10/2022 10:42:49 AM	B87865

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205427**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-7
Project: Vanderwalt Com 003 N
Collection Date: 5/9/2022 10:30:00 AM
Lab ID: 2205427-007 **Matrix:** SOIL **Received Date:** 5/10/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	5/10/2022 11:54:33 AM	67367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/10/2022 12:01:03 PM	67365
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/10/2022 12:01:03 PM	67365
Surr: DNOP	100	51.1-141		%Rec	1	5/10/2022 12:01:03 PM	67365
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	5/10/2022 11:06:11 AM	G87865
Surr: BFB	101	37.7-212		%Rec	5	5/10/2022 11:06:11 AM	G87865
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.083		mg/Kg	5	5/10/2022 11:06:11 AM	B87865
Toluene	ND	0.17		mg/Kg	5	5/10/2022 11:06:11 AM	B87865
Ethylbenzene	ND	0.17		mg/Kg	5	5/10/2022 11:06:11 AM	B87865
Xylenes, Total	ND	0.33		mg/Kg	5	5/10/2022 11:06:11 AM	B87865
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	5/10/2022 11:06:11 AM	B87865

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205427**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-8
Project: Vanderwalt Com 003 N
Collection Date: 5/9/2022 10:35:00 AM
Lab ID: 2205427-008 **Matrix:** SOIL **Received Date:** 5/10/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	5/10/2022 12:06:57 PM	67367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/10/2022 12:14:55 PM	67365
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/10/2022 12:14:55 PM	67365
Surr: DNOP	102	51.1-141		%Rec	1	5/10/2022 12:14:55 PM	67365
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/10/2022 11:30:01 AM	G87865
Surr: BFB	96.0	37.7-212		%Rec	1	5/10/2022 11:30:01 AM	G87865
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	5/10/2022 11:30:01 AM	B87865
Toluene	ND	0.033		mg/Kg	1	5/10/2022 11:30:01 AM	B87865
Ethylbenzene	ND	0.033		mg/Kg	1	5/10/2022 11:30:01 AM	B87865
Xylenes, Total	ND	0.067		mg/Kg	1	5/10/2022 11:30:01 AM	B87865
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	5/10/2022 11:30:01 AM	B87865

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205427**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **MB-67367**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **PBS**	Batch ID: **67367**	RunNo: **87873**								
Prep Date: **5/10/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114961**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67367**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**								
Client ID: **LCSS**	Batch ID: **67367**	RunNo: **87873**								
Prep Date: **5/10/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114962**	Units: **mg/Kg**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205427**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **MB-67365** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **67365** RunNo: **87864**
Prep Date: **5/10/2022** Analysis Date: **5/10/2022** SeqNo: **3113248** 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	9.7		10.00		96.6	51.1	141			

Sample ID: **LCS-67365** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **67365** RunNo: **87864**
Prep Date: **5/10/2022** Analysis Date: **5/10/2022** SeqNo: **3113249** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.6	68.9	135			
Surr: DNOP	5.0		5.000		101	51.1	141			

Sample ID: **2205427-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1** Batch ID: **67365** RunNo: **87864**
Prep Date: **5/10/2022** Analysis Date: **5/10/2022** SeqNo: **3113310** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.5	47.48	0	87.4	36.1	154			
Surr: DNOP	4.7		4.748		99.3	51.1	141			

Sample ID: **2205427-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1** Batch ID: **67365** RunNo: **87864**
Prep Date: **5/10/2022** Analysis Date: **5/10/2022** SeqNo: **3113311** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.41	0	90.1	36.1	154	6.98	33.9	
Surr: DNOP	4.7		4.941		94.2	51.1	141	0	0	

Sample ID: **MB-67314** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **67314** RunNo: **87864**
Prep Date: **5/6/2022** Analysis Date: **5/10/2022** SeqNo: **3116791** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	51.1	141			

Sample ID: **LCS-67314** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **67314** RunNo: **87864**
Prep Date: **5/6/2022** Analysis Date: **5/10/2022** SeqNo: **3116792** Units: **%Rec**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205427**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **LCS-67314**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67314**	RunNo: **87864**
Prep Date: **5/6/2022**	Analysis Date: **5/10/2022**	SeqNo: **3116792** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.0	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205427**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G87865**	RunNo: **87865**
Prep Date:	Analysis Date: **5/10/2022**	SeqNo: **3114275** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.2	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G87865**	RunNo: **87865**
Prep Date:	Analysis Date: **5/10/2022**	SeqNo: **3114276** 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	94.7	72.3	137			
Surr: BFB	2000		1000		204	37.7	212			

Sample ID: **2205427-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **G87865**	RunNo: **87865**
Prep Date:	Analysis Date: **5/10/2022**	SeqNo: **3114291** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	83	18	88.34	0	93.5	70	130			
Surr: BFB	7600		3534		216	37.7	212			S

Sample ID: **2205427-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **G87865**	RunNo: **87865**
Prep Date:	Analysis Date: **5/10/2022**	SeqNo: **3114292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	95	18	88.34	0	107	70	130	13.7	20	
Surr: BFB	7700		3534		218	37.7	212	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205427**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B87865**	RunNo: **87865**
Prep Date:	Analysis Date: **5/10/2022**	SeqNo: **3114321** 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	0.98		1.000		97.6	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B87865**	RunNo: **87865**
Prep Date:	Analysis Date: **5/10/2022**	SeqNo: **3114322** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.7	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: **2205427-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **B87865**	RunNo: **87865**
Prep Date:	Analysis Date: **5/11/2022**	SeqNo: **3114331** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.9	0.092	3.674	0	78.2	68.8	120			
Toluene	3.0	0.18	3.674	0	81.9	73.6	124			
Ethylbenzene	3.0	0.18	3.674	0	81.4	72.7	129			
Xylenes, Total	9.0	0.37	11.02	0.06686	81.0	75.7	126			
Surr: 4-Bromofluorobenzene	3.6		3.674		97.1	70	130			

Sample ID: **2205427-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **B87865**	RunNo: **87865**
Prep Date:	Analysis Date: **5/11/2022**	SeqNo: **3114332** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.9	0.092	3.674	0	106	68.8	120	30.4	20	R
Toluene	4.1	0.18	3.674	0	112	73.6	124	31.0	20	R
Ethylbenzene	4.2	0.18	3.674	0	113	72.7	129	32.6	20	R
Xylenes, Total	12	0.37	11.02	0.06686	113	75.7	126	32.6	20	R
Surr: 4-Bromofluorobenzene	3.6		3.674		98.0	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2205427 RcptNo: 1

Received By: **Juan Rojas** 5/10/2022 7:00:00 AM

Completed By: **Juan Rojas** 5/10/2022 7:15:41 AM

Reviewed By: NB 5/10/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: JR 5/10/22

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

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

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good				

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit 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 Work
☐ Standard ☒ Rush 5-10-22

Project Name: Vanderwalt Com #003 N

Project #: 05A1221190

Project Manager: K. Summers

Sampler: C DAponte

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.5-0=3.5 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205477	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)
5/9	1000	S	S-1	1 4oz Jar	Cool	-001	✓	✓					✓			
5/9	1005	S	S-2		Cool	-002	✓	✓					✓			
5/9	1010	S	S-3		Cool	-003	✓	✓					✓			
5/9	1015	S	S-4		Cool	-004	✓	✓					✓			
5/9	1020	S	S-5		Cool	-005	✓	✓					✓			
5/9	1025	S	S-6		Cool	-006	✓	✓					✓			
5/9	1030	S	S-7		Cool	007	✓	✓					✓			
9	1035	S	S-8		Cool	-008	✓	✓					✓			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/9/22	1628				5/9/22	1628
5/10/22	1811			Courier	5/10/22	7:00

Remarks: PM Tom Long
RB21200

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 13, 2022

Kyle Summers

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

RE: Vanderwalt Com 003 N OrderNo.: 2205480

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 5/11/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-9
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:00:00 AM
Lab ID: 2205480-001 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	78	60		mg/Kg	20	5/11/2022 9:49:08 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/11/2022 10:51:57 AM	67394
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 10:51:57 AM	67394
Surr: DNOP	88.6	51.1-141		%Rec	1	5/11/2022 10:51:57 AM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	5/11/2022 9:44:00 AM	A87906
Surr: BFB	106	37.7-212		%Rec	5	5/11/2022 9:44:00 AM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.090		mg/Kg	5	5/11/2022 9:44:00 AM	B87906
Toluene	ND	0.18		mg/Kg	5	5/11/2022 9:44:00 AM	B87906
Ethylbenzene	ND	0.18		mg/Kg	5	5/11/2022 9:44:00 AM	B87906
Xylenes, Total	ND	0.36		mg/Kg	5	5/11/2022 9:44:00 AM	B87906
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	5	5/11/2022 9:44:00 AM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-10
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:05:00 AM
Lab ID: 2205480-002 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	80	60		mg/Kg	20	5/11/2022 10:01:32 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/11/2022 11:34:33 AM	67394
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 11:34:33 AM	67394
Surr: DNOP	85.8	51.1-141		%Rec	1	5/11/2022 11:34:33 AM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	5/11/2022 10:04:00 AM	A87906
Surr: BFB	108	37.7-212		%Rec	5	5/11/2022 10:04:00 AM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.084		mg/Kg	5	5/11/2022 10:04:00 AM	B87906
Toluene	ND	0.17		mg/Kg	5	5/11/2022 10:04:00 AM	B87906
Ethylbenzene	ND	0.17		mg/Kg	5	5/11/2022 10:04:00 AM	B87906
Xylenes, Total	ND	0.33		mg/Kg	5	5/11/2022 10:04:00 AM	B87906
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	5	5/11/2022 10:04:00 AM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-11
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:10:00 AM
Lab ID: 2205480-003 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	78	60		mg/Kg	20	5/11/2022 10:13:57 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/11/2022 11:49:05 AM	67394
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/11/2022 11:49:05 AM	67394
Surr: DNOP	91.2	51.1-141		%Rec	1	5/11/2022 11:49:05 AM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	5/11/2022 10:24:00 AM	A87906
Surr: BFB	108	37.7-212		%Rec	5	5/11/2022 10:24:00 AM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.10		mg/Kg	5	5/11/2022 10:24:00 AM	B87906
Toluene	0.26	0.21		mg/Kg	5	5/11/2022 10:24:00 AM	B87906
Ethylbenzene	ND	0.21		mg/Kg	5	5/11/2022 10:24:00 AM	B87906
Xylenes, Total	0.57	0.41		mg/Kg	5	5/11/2022 10:24:00 AM	B87906
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	5	5/11/2022 10:24:00 AM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-12
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:15:00 AM
Lab ID: 2205480-004 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	78	60		mg/Kg	20	5/11/2022 10:26:22 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/11/2022 12:03:18 PM	67394
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 12:03:18 PM	67394
Surr: DNOP	89.9	51.1-141		%Rec	1	5/11/2022 12:03:18 PM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	5/11/2022 10:43:00 AM	A87906
Surr: BFB	103	37.7-212		%Rec	5	5/11/2022 10:43:00 AM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.085		mg/Kg	5	5/11/2022 10:43:00 AM	B87906
Toluene	ND	0.17		mg/Kg	5	5/11/2022 10:43:00 AM	B87906
Ethylbenzene	ND	0.17		mg/Kg	5	5/11/2022 10:43:00 AM	B87906
Xylenes, Total	ND	0.34		mg/Kg	5	5/11/2022 10:43:00 AM	B87906
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	5	5/11/2022 10:43:00 AM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-13
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:20:00 AM
Lab ID: 2205480-005 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	75	60		mg/Kg	20	5/11/2022 10:38:47 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/11/2022 12:17:46 PM	67394
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 12:17:46 PM	67394
Surr: DNOP	89.4	51.1-141		%Rec	1	5/11/2022 12:17:46 PM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	5/11/2022 11:03:00 AM	A87906
Surr: BFB	102	37.7-212		%Rec	5	5/11/2022 11:03:00 AM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.095		mg/Kg	5	5/11/2022 11:03:00 AM	B87906
Toluene	ND	0.19		mg/Kg	5	5/11/2022 11:03:00 AM	B87906
Ethylbenzene	ND	0.19		mg/Kg	5	5/11/2022 11:03:00 AM	B87906
Xylenes, Total	ND	0.38		mg/Kg	5	5/11/2022 11:03:00 AM	B87906
Surr: 4-Bromofluorobenzene	80.9	70-130		%Rec	5	5/11/2022 11:03:00 AM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-14
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:25:00 AM
Lab ID: 2205480-006 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	72	60		mg/Kg	20	5/11/2022 10:51:12 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/11/2022 12:32:04 PM	67394
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 12:32:04 PM	67394
Surr: DNOP	90.2	51.1-141		%Rec	1	5/11/2022 12:32:04 PM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	5/11/2022 11:22:00 AM	A87906
Surr: BFB	107	37.7-212		%Rec	5	5/11/2022 11:22:00 AM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.094		mg/Kg	5	5/11/2022 11:22:00 AM	B87906
Toluene	ND	0.19		mg/Kg	5	5/11/2022 11:22:00 AM	B87906
Ethylbenzene	ND	0.19		mg/Kg	5	5/11/2022 11:22:00 AM	B87906
Xylenes, Total	ND	0.38		mg/Kg	5	5/11/2022 11:22:00 AM	B87906
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	5	5/11/2022 11:22:00 AM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-15
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:30:00 AM
Lab ID: 2205480-007 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	160	60		mg/Kg	20	5/11/2022 11:03:37 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/11/2022 12:46:12 PM	67394
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 12:46:12 PM	67394
Surr: DNOP	92.1	51.1-141		%Rec	1	5/11/2022 12:46:12 PM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/11/2022 11:42:00 AM	A87906
Surr: BFB	110	37.7-212		%Rec	1	5/11/2022 11:42:00 AM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.018		mg/Kg	1	5/11/2022 11:42:00 AM	B87906
Toluene	ND	0.037		mg/Kg	1	5/11/2022 11:42:00 AM	B87906
Ethylbenzene	ND	0.037		mg/Kg	1	5/11/2022 11:42:00 AM	B87906
Xylenes, Total	0.63	0.074		mg/Kg	1	5/11/2022 11:42:00 AM	B87906
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	5/11/2022 11:42:00 AM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-16
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:35:00 AM
Lab ID: 2205480-008 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	150	60		mg/Kg	20	5/11/2022 11:16:02 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/11/2022 1:00:38 PM	67394
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/11/2022 1:00:38 PM	67394
Surr: DNOP	88.3	51.1-141		%Rec	1	5/11/2022 1:00:38 PM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/11/2022 12:02:00 PM	A87906
Surr: BFB	105	37.7-212		%Rec	1	5/11/2022 12:02:00 PM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.019		mg/Kg	1	5/11/2022 12:02:00 PM	B87906
Toluene	ND	0.037		mg/Kg	1	5/11/2022 12:02:00 PM	B87906
Ethylbenzene	ND	0.037		mg/Kg	1	5/11/2022 12:02:00 PM	B87906
Xylenes, Total	0.36	0.074		mg/Kg	1	5/11/2022 12:02:00 PM	B87906
Surr: 4-Bromofluorobenzene	77.6	70-130		%Rec	1	5/11/2022 12:02:00 PM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-17
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:40:00 AM
Lab ID: 2205480-009 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	5/11/2022 11:53:16 AM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/11/2022 1:15:12 PM	67394
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 1:15:12 PM	67394
Surr: DNOP	87.8	51.1-141		%Rec	1	5/11/2022 1:15:12 PM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/11/2022 12:21:00 PM	A87906
Surr: BFB	100	37.7-212		%Rec	1	5/11/2022 12:21:00 PM	A87906
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.017		mg/Kg	1	5/11/2022 12:21:00 PM	B87906
Toluene	ND	0.034		mg/Kg	1	5/11/2022 12:21:00 PM	B87906
Ethylbenzene	ND	0.034		mg/Kg	1	5/11/2022 12:21:00 PM	B87906
Xylenes, Total	ND	0.067		mg/Kg	1	5/11/2022 12:21:00 PM	B87906
Surr: 4-Bromofluorobenzene	79.3	70-130		%Rec	1	5/11/2022 12:21:00 PM	B87906

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	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-18
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:45:00 AM
Lab ID: 2205480-010 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	5/11/2022 12:05:41 PM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/11/2022 1:29:53 PM	67394
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/11/2022 1:29:53 PM	67394
Surr: DNOP	92.5	51.1-141		%Rec	1	5/11/2022 1:29:53 PM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/11/2022 12:41:00 PM	A87906
Surr: BFB	97.5	37.7-212		%Rec	1	5/11/2022 12:41:00 PM	A87906
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.017		mg/Kg	1	5/11/2022 12:41:00 PM	B87906
Toluene	ND	0.034		mg/Kg	1	5/11/2022 12:41:00 PM	B87906
Ethylbenzene	ND	0.034		mg/Kg	1	5/11/2022 12:41:00 PM	B87906
Xylenes, Total	ND	0.068		mg/Kg	1	5/11/2022 12:41:00 PM	B87906
Surr: 4-Bromofluorobenzene	77.7	70-130		%Rec	1	5/11/2022 12:41:00 PM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205480**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-19
Project: Vanderwalt Com 003 N
Collection Date: 5/10/2022 10:50:00 AM
Lab ID: 2205480-011 **Matrix:** SOIL **Received Date:** 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	5/11/2022 12:18:07 PM	67397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/11/2022 1:44:17 PM	67394
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 1:44:17 PM	67394
Surr: DNOP	88.8	51.1-141		%Rec	1	5/11/2022 1:44:17 PM	67394
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/11/2022 1:40:00 PM	A87906
Surr: BFB	101	37.7-212		%Rec	1	5/11/2022 1:40:00 PM	A87906
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.017		mg/Kg	1	5/11/2022 1:40:00 PM	B87906
Toluene	ND	0.034		mg/Kg	1	5/11/2022 1:40:00 PM	B87906
Ethylbenzene	ND	0.034		mg/Kg	1	5/11/2022 1:40:00 PM	B87906
Xylenes, Total	ND	0.068		mg/Kg	1	5/11/2022 1:40:00 PM	B87906
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	5/11/2022 1:40:00 PM	B87906

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205480**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **MB-67397**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **67397**	RunNo: **87903**							
Prep Date: **5/11/2022**	Analysis Date: **5/11/2022**	SeqNo: **3116728**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67397**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **67397**	RunNo: **87903**							
Prep Date: **5/11/2022**	Analysis Date: **5/11/2022**	SeqNo: **3116729**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205480**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **MB-67394**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67394**	RunNo: **87907**
Prep Date: **5/11/2022**	Analysis Date: **5/11/2022**	SeqNo: **3115861** 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	8.5		10.00		85.1	51.1	141			

Sample ID: **LCS-67394**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67394**	RunNo: **87907**
Prep Date: **5/11/2022**	Analysis Date: **5/11/2022**	SeqNo: **3115862** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.9	68.9	135			
Surr: DNOP	4.6		5.000		91.2	51.1	141			

Sample ID: **2205480-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-9**	Batch ID: **67394**	RunNo: **87907**
Prep Date: **5/11/2022**	Analysis Date: **5/11/2022**	SeqNo: **3118304** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.65	6.811	77.4	36.1	154			
Surr: DNOP	4.1		4.965		82.7	51.1	141			

Sample ID: **2205480-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-9**	Batch ID: **67394**	RunNo: **87907**
Prep Date: **5/11/2022**	Analysis Date: **5/11/2022**	SeqNo: **3118305** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.3	46.51	6.811	81.8	36.1	154	0.835	33.9	
Surr: DNOP	4.3		4.651		91.4	51.1	141	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205480**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **A87906** RunNo: **87906**

Prep Date: Analysis Date: **5/11/2022** SeqNo: **3115826** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2200		1000		219	37.7	212			S

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **A87906** RunNo: **87906**

Prep Date: Analysis Date: **5/11/2022** SeqNo: **3115827** 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	1100		1000		106	37.7	212			

Sample ID: **2205480-001ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **S-9** Batch ID: **A87906** RunNo: **87906**

Prep Date: Analysis Date: **5/11/2022** SeqNo: **3116491** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	87	18	89.74	0	96.7	70	130			
Surr: BFB	7800		3590		217	37.7	212			S

Sample ID: **2205480-001amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **S-9** Batch ID: **A87906** RunNo: **87906**

Prep Date: Analysis Date: **5/11/2022** SeqNo: **3116492** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	89	18	89.74	0	99.3	70	130	2.65	20	
Surr: BFB	7500		3590		210	37.7	212	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205480**

13-May-22

Client: ENSOLUM

Project: Vanderwalt Com 003 N

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B87906**	RunNo: **87906**
Prep Date:	Analysis Date: **5/11/2022**	SeqNo: **3115839** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.8	80	120			
Toluene	0.87	0.050	1.000	0	86.7	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.7	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B87906**	RunNo: **87906**
Prep Date:	Analysis Date: **5/11/2022**	SeqNo: **3115840** 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	0.85		1.000		84.7	70	130			

Sample ID: **2205480-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-10**	Batch ID: **B87906**	RunNo: **87906**
Prep Date:	Analysis Date: **5/11/2022**	SeqNo: **3116507** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.8	0.084	3.340	0	85.1	68.8	120			
Toluene	2.9	0.17	3.340	0	86.8	73.6	124			
Ethylbenzene	2.9	0.17	3.340	0	87.3	72.7	129			
Xylenes, Total	8.8	0.33	10.02	0	87.8	75.7	126			
Surr: 4-Bromofluorobenzene	2.8		3.340		82.9	70	130			

Sample ID: **2205480-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-10**	Batch ID: **B87906**	RunNo: **87906**
Prep Date:	Analysis Date: **5/11/2022**	SeqNo: **3116508** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.7	0.084	3.340	0	80.3	68.8	120	5.72	20	
Toluene	2.7	0.17	3.340	0	82.1	73.6	124	5.64	20	
Ethylbenzene	2.8	0.17	3.340	0	82.6	72.7	129	5.55	20	
Xylenes, Total	8.4	0.33	10.02	0	83.6	75.7	126	4.91	20	
Surr: 4-Bromofluorobenzene	2.7		3.340		80.0	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2205480 RcptNo: 1

Received By: Juan Rojas 5/11/2022 7:10:00 AM

Completed By: Juan Rojas 5/11/2022 7:35:04 AM

Reviewed By: DAD 5/11/22

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 5/11/22

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good				
2	1.1	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #: 970-216-5235

email or Fax#: cdaponti@ensolum.com

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

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

Turn-Around Time: 100%
☐ Standard ☑ Rush 5-11-22

Project Name: Vanderwalt Com #003 N

Project #: OSA1221190

Project Manager: K Summers

Sampler: C DAponti

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4.9 + 0 = 4.9 (°C)

1.1-0=1.1

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 220580	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/10	1000	S	S-9	1 4oz Jar	Cool	-001	✓	✓					✓			
5/10	1005	S	S-10		Cool	-002	✓	✓					✓			
5/10	1010	S	S-11		Cool	-003	✓	✓					✓			
5/10	1015	S	S-12		Cool	-004	✓	✓					✓			
5/10	1020	S	S-13		Cool	-005	✓	✓					✓			
5/10	1025	S	S-14		Cool	-006	✓	✓					✓			
5/10	1030	S	S-15		Cool	-007	✓	✓					✓			
5/10	1035	S	S-16		Cool	-008	✓	✓					✓			
5/10	1040	S	S-17		Cool	-009	✓	✓					✓			
5/10	1045	S	S-18		Cool	-010	✓	✓					✓			
5/10	1050	S	S-19		Cool	-011	✓	✓					✓			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/10/22	1507			Courier	5/10/22	1507
5/10/22	1812			Courier	5/11/22	7:10

Remarks: PM Tom Long
AB21200

Save Dan

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 121719

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 121719
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/7/2022