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: **151618**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	**Incident #** *(assigned by OCD)*: **NRM2020229771**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.780479** Longitude **-107.562231** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Frances Mesa Compressor Station**	Site Type **Natural Gas Compressor Station**
Date Release Discovered: **07/12/2020**	Serial Number *(if applicable)*: **NM 093684**

Unit Letter	Section	Township	Range	County
K	**27**	**30N**	**7W**	**Rio Arriba**

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) **5-7 BBLs**	Volume Recovered (bbls) **None**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls):	Volume Recovered (bbls):
☐ Natural Gas	Volume Released (Mcf):	Volume Recovered (Mcf):
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On July 12, 2020, Enterprise had a release of produced water and condensate at the Frances Mesa Compressor Station. The release was a result of the Emergency Shutdown (ESD) event. The released fluids were ejected from the facility ESD vent. An area or approximately 150 feet long by 70 feet wide was affected by the released fluids. All fluids remained on the facility property. No washes were affected. Entperise mobilized a contractor to recover the standing liquids as much as practicable. Remediation activities were completed on July 23, 2020. The final excavation dimensions measured approximately 96 feet long by 80 feet wide by approximately one foot deep. Approximately 174 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division 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: Jon E. Fields Title: Director, Environmental

Signature: Jon E. Fields Date: 10/29/2020

email: jefields@eprod.com Telephone: (713) 381-6684

OCD Only

Received by: Date:

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

Closure Approved by: Nelson Velez Date: 04/26/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

CLOSURE REPORT

Property:

Frances Mesa Compressor Station (July 2020)
SW 1/4, S27 T30N R7W
Rio Arriba County, New Mexico

October 7, 2020
Ensolum Project No. 05A1226112

Prepared for:

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

Prepared by:

Landon Daniell
Staff Geologist

Kyle Summers, CPG
Senior Project Manager

Table of Contents

LIST OF APPENDICES

ENSOLUM

CLOSURE REPORT

Frances Mesa Compressor Station (July 2020)
SW 1/4, S27 T30N R7W
Rio Arriba County, New Mexico

Ensolum Project No. 05A1226112

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Frances Mesa Compressor Station (July 2020) (Site)
Location:	36.780479° North, 107.562231° West Southwest (SW) ¼ of Section 27, Township 30 North, Range 7 West Rio Arriba County, New Mexico
Property:	Enterprise and United States Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 12, 2020, a release of produced water and condensate occurred from a blowdown vent stack during an emergency shutdown event at the Site. The release resulted in an overspray area approximately 115 feet long by 50 feet wide. On July 16, 2020, Enterprise initiated corrective action activities to remediate potential petroleum hydrocarbon impact resulting from the release.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. Ensolum utilized the general site characteristics and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

- The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). Two (2) points of diversion (POD) (SJ-00035 and SJ-00163-S-2) were identified within a mile of the Site in the OSE Water Right Reporting System (WRRS)

database. POD SJ-00035, with a recorded depth to water of 467 feet below grade surface (bgs), is located approximately 0.9 miles southwest of the Site and at a lower elevation (6,281 feet) than the Site (6,902 feet). POD SJ-00163-S-2, with a recorded depth to water of 800 feet bgs, is located approximately 0.9 miles east of the Site and at a lower elevation (6,870 feet) than the Site.

.

- Five (5) cathodic protection wells were identified within one mile of the Site. The shallowest recorded depth to water was identified at 40 feet bgs for the cathodic protection well located near the San Juan 30-6 Unit #411 well location (Unit A, Sec27 T30N R7W), which is located at a much lower elevation (6,523 feet) than the Site. The records for the closest cathodic protection well (San Juan 30-6 #422 & #38 (Unit M, Sec27 T30N R7W)), located approximately 630 feet southwest of the Site, indicate a depth to water of 130 feet bgs. The records for the cathodic protection wells located near the San Juan 30-6 #97A (Unit J, Sec27 T30N R7W), San Juan 30-6 Unit #97 (Unit NE, Sec27 T30N R7W), and the SJ 30-6 #38A (Unit E, Sec 27 T30N R7W) well locations indicate depths to water ranging from 98 feet bgs to 200 feet bgs.

- The Site is not located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. However, a stock pond, which is considered equivalent to a livestock well by the New Mexico EMNRD OCD, is located approximately 330 feet southeast of the Site.

- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.

- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church.

- The Site is not located within 500 feet of springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes. However, a stock pond, which is considered equivalent to a livestock well by the New Mexico EMNRD OCD, is located approximately 330 feet southeast of the Site.

- No fresh water wells or springs were identified within 1,000 feet of the Site.

- 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 Statues Annotated (NMSA) 1978, Section 3-27-3.

- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland.

- Based on information identified in the New Mexico Mining and Minerals Division's Geographic Information System (GIS), Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.

- The Site is not located within an unstable area.

- Based on information identified on the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release		
Constituent	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 July 16, 2020, Enterprise initiated activities to facilitate the remediation of petroleum hydrocarbon impact at the Site. During the remediation and corrective action activities, Sierra Oilfield Services, Inc. provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavated/scraped area measured approximately 96 feet long and 80 feet wide at the maximum extents. The maximum depth of the excavation measured approximately one (1) feet bgs.

The lithology that was encountered during the completion of the remediation activities consisted primarily of gravelly silty sand (the gravel is not naturally occurring and was previously imported to provide a suitable driving surface).

Approximately 174 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and contoured to surrounding grade.

Figure 3 (**Appendix A**) is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavated/scraped area with respect to Site structures and appurtenances. Photographic documentation of the field activities is included in **Appendix D**.

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of 21 composite soil samples (S-1 through S-10, S2-a through S4-a, S6-a through S10-a, S10-B, B-1, and B-2) from the excavated/scraped area for laboratory analysis. The composite samples were comprised of five (5) aliquots each and represent an estimated 200 square foot sample area per guidelines outlined in 19.15.29.12 Section D NMAC. A clean shovel was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix G**.

First Sampling Event

On July 17, 2020, the first sampling event was performed at the Site. A New Mexico EMNRD OCD representative was on Site during this sampling event. Composite soil samples S-1 (1') and S-2 through S-10 (0.12') were collected from the excavated/scraped area, and samples B-1 (0.12') and B-2 (0.12') were collected from the southeast side of the compressor building (outside the excavated/scraped area. Analytical results for composite soil samples S-2 through S-4 and S-6 through S-10 indicated exceedances

of the applicable New Mexico EMNRD OCD closure criteria. In response to the data exceedances, the area was further excavated/scraped to remove petroleum hydrocarbon impacts. Soils associated with composite soil samples S-2 through S-4 and S-6 through S-10 were transported to the landfarm for disposal/remediation.

Second Sampling Event
On July 23, 2020, a second sampling event was performed. Composite soil samples S2-a (0.42'), S3-a (0.33'), S4-a (0.13'), S6-a (0.13'), S7-a (0.33'), S8-a (1'), S9-a (0.42'), and S10-a (0.25') were collected from the excavated/scraped area. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during the sampling activities. Subsequent analytical results for composite soil sample S10-a indicated an exceedance of the applicable New Mexico EMNRD OCD total petroleum hydrocarbons (TPH) closure criteria. In response to this information, Enterprise excavated and removed the soils associated with composite soil sample S10-a. Removed soils were transported to the landfarm for disposal/remediation.

Third Sampling Event
On July 27, 2020, after the removal of soils associated with S10-a, a third sampling event was performed. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during the sampling activities. Composite soil sample S10-B (0.58') was collected from the excavated/scraped area.

The 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, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021; TPH gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015; and chlorides using EPA Method #300.0.

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

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples representing soils remaining at the Site (S-1, S-5, B-1, B-2, S2-a through S4-a, S6-a through S9-a, and S10-B) to the applicable New Mexico EMNRD OCD closure criteria. The soils associated with composite soil samples S-2 through S-4, S-6 through S-10, and S10-a were removed from the Site and transported to Envirotech landfarm for disposal/remediation and are not included in the following discussion.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil samples S4-a and S-5 indicate combined TPH GRO/DRO/MRO concentrations of 9.7 mg/kg and 59 mg/kg, respectively, which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg.

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

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and resurfaced with gravel to provide a suitable driving surface.

8.0 FINDINGS AND RECOMMENDATION

- A total of 21 composite soil samples were collected from the excavation. Based on laboratory analytical results, the soils remaining at the Site do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.

- Approximately 174 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and resurfaced with gravel to provide a suitable driving surface.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be

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

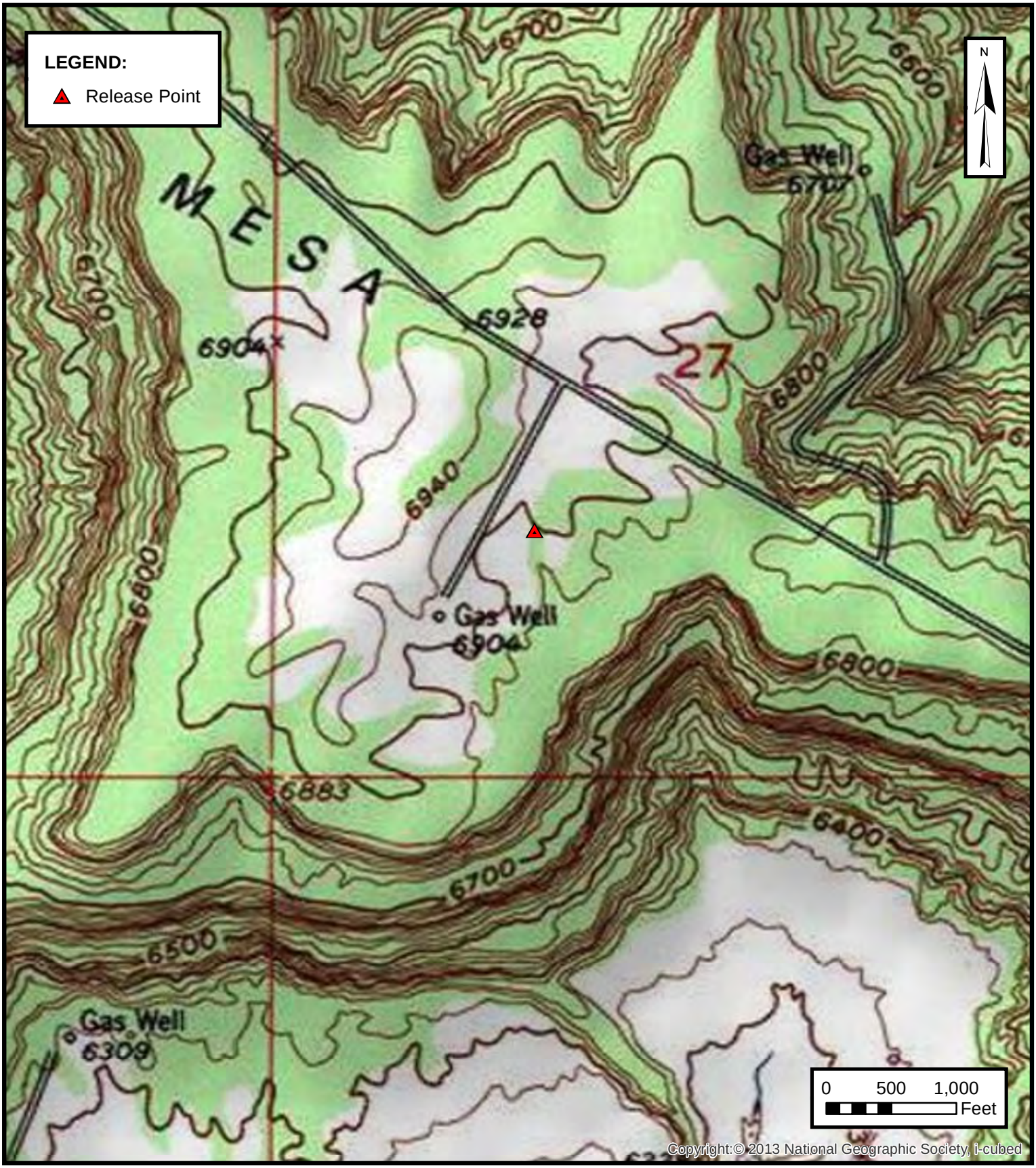
9.3 Reliance

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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Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE
1

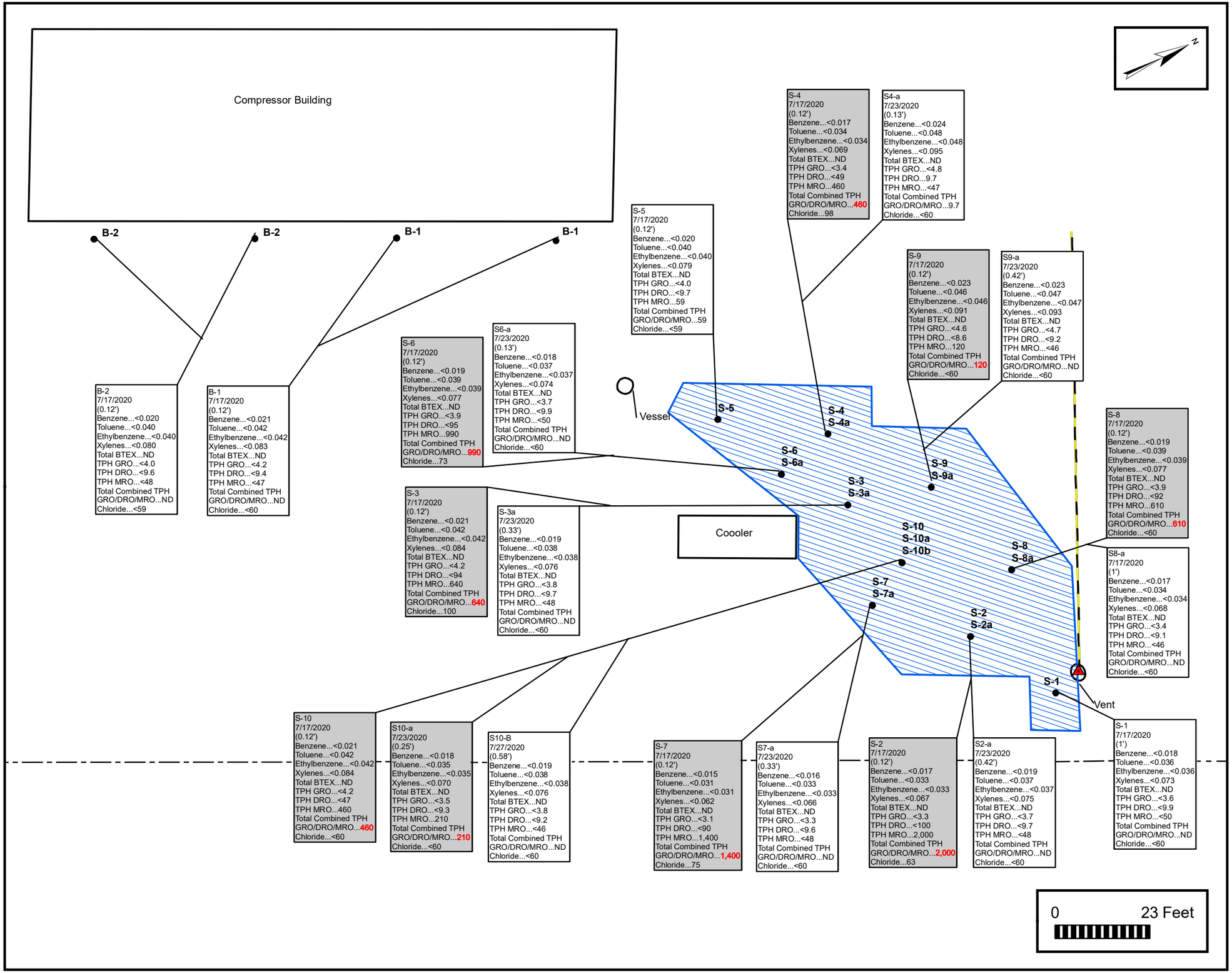
ENSOLUM
Environmental & Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE
2



LEGEND:

- Release Point
- Composite Soil Sample Location
- Pipeline
- Extent of Excavation
- Fence Line

NOTES:

All Concentrations Are Listed in mg/Kg.

Concentrations in **Red** Exceed the Applicable NM EMNRD OCD Closure Criteria.

Analytical Callouts in Gray Denote Sampling Location Removed by Excavation.

All Depths Are Listed in Feet BGS.

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SITE MAP

ENTERPRISE FIELD SERVICES
FRANCES MESA COMPRESSOR STATION
(JULY 2020)

SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

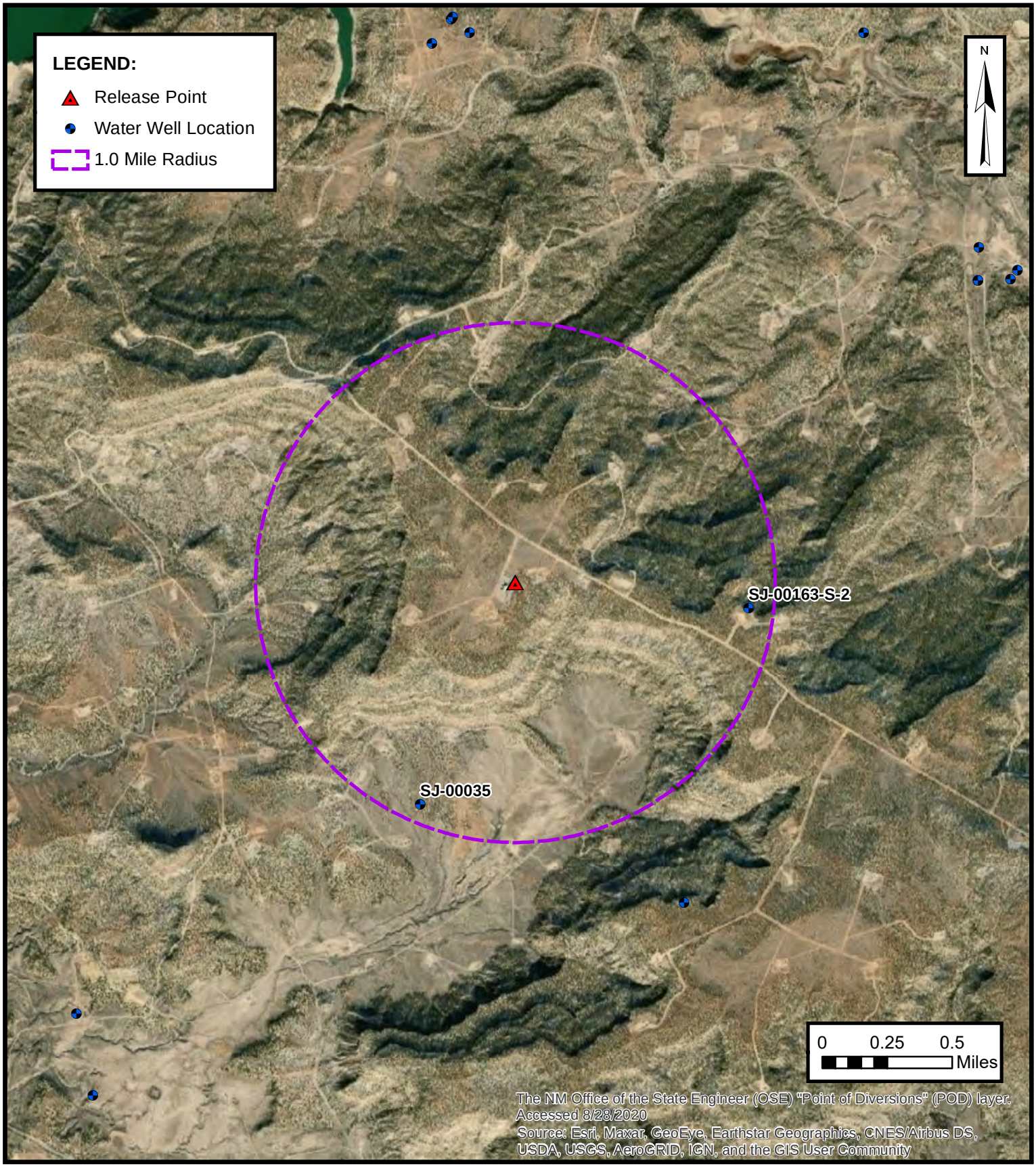
FIGURE
3

PROJECT NUMBER: 05A1226112

ENSOLUM

APPENDIX B

Siting Figures and Documentation



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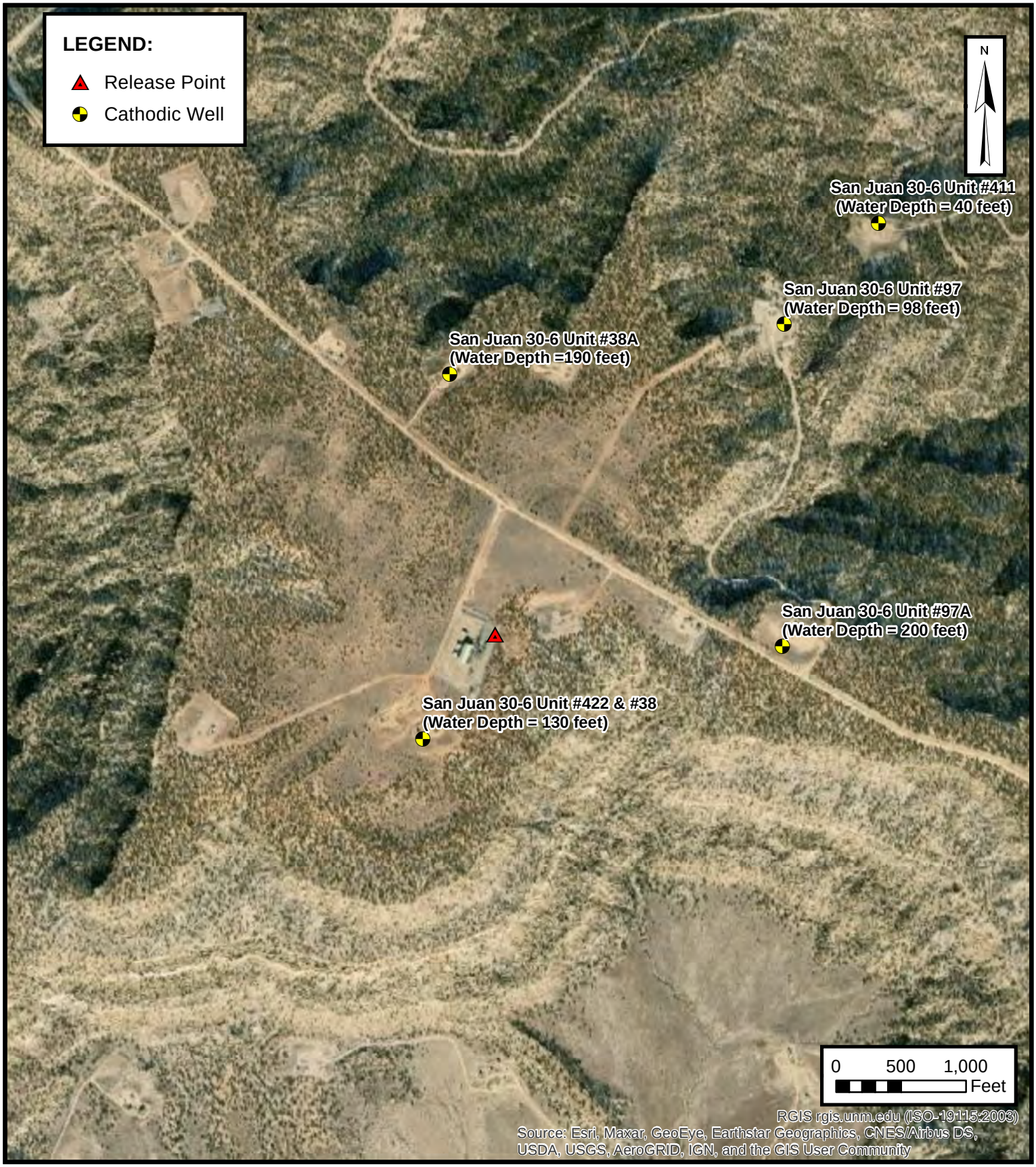
1.0 MILE RADIUS WATER WELL MAP

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE

A



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Environmental & Hydrogeologic Consultants

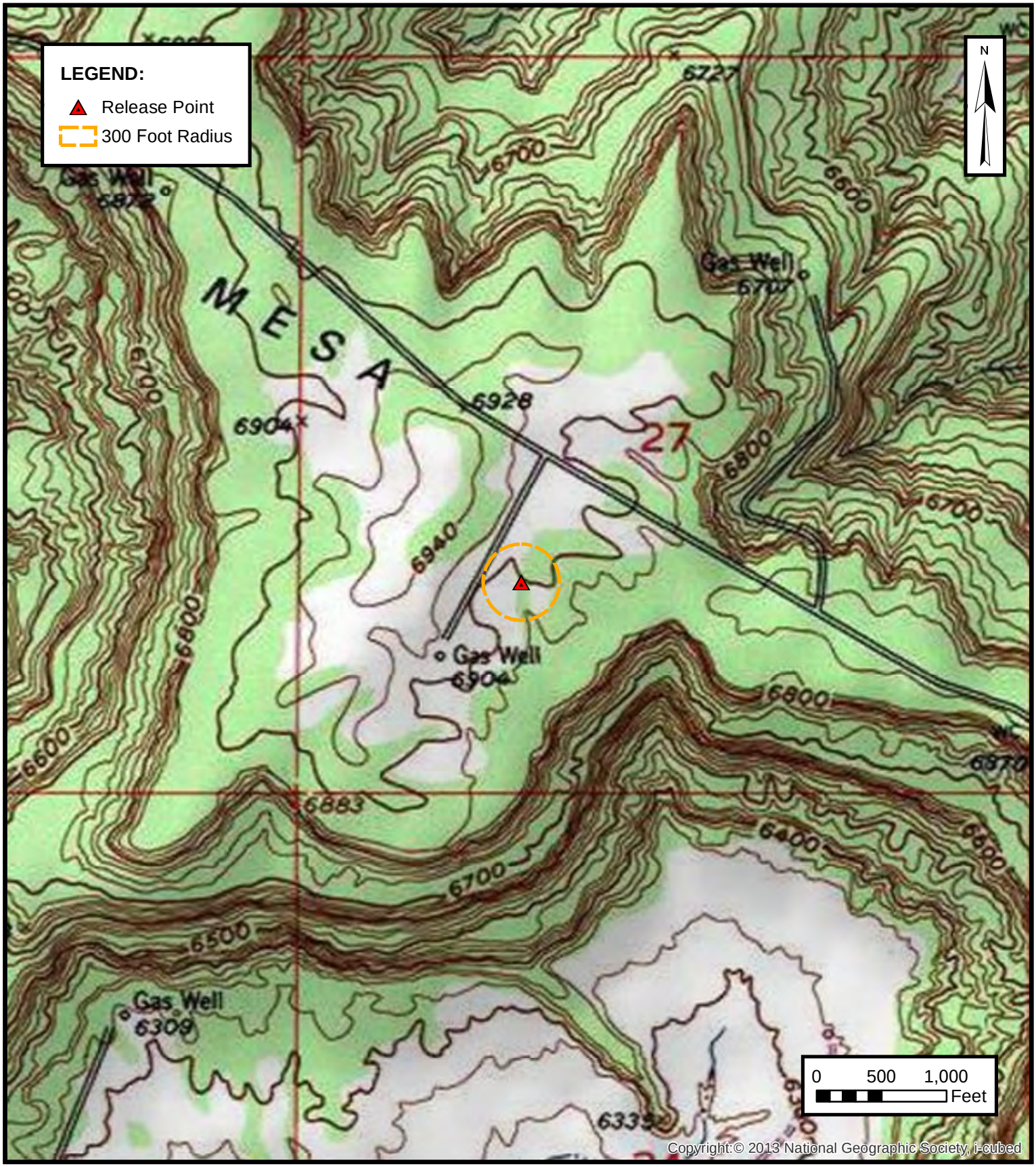
CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE

B



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300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE
C

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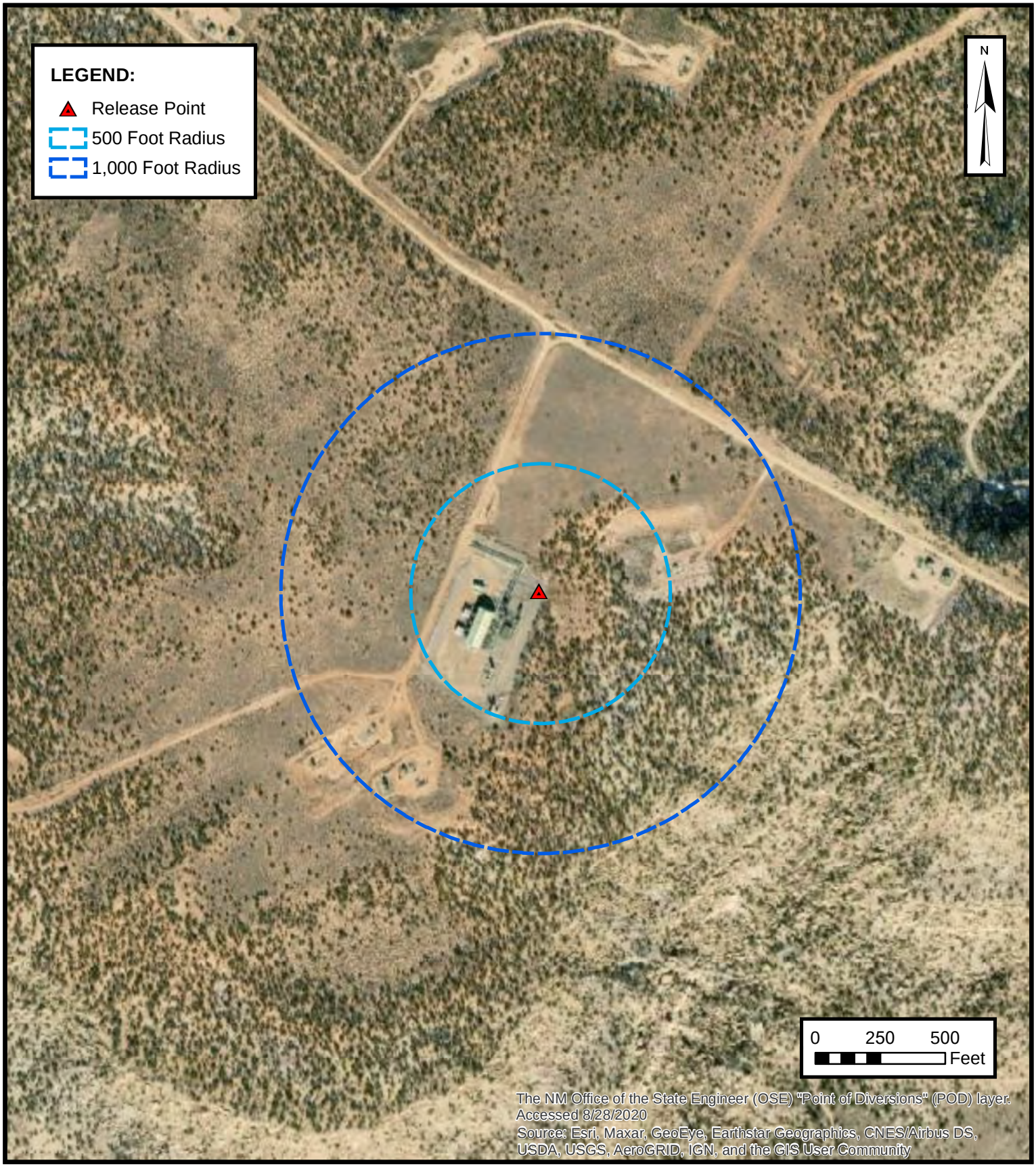
300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE
D



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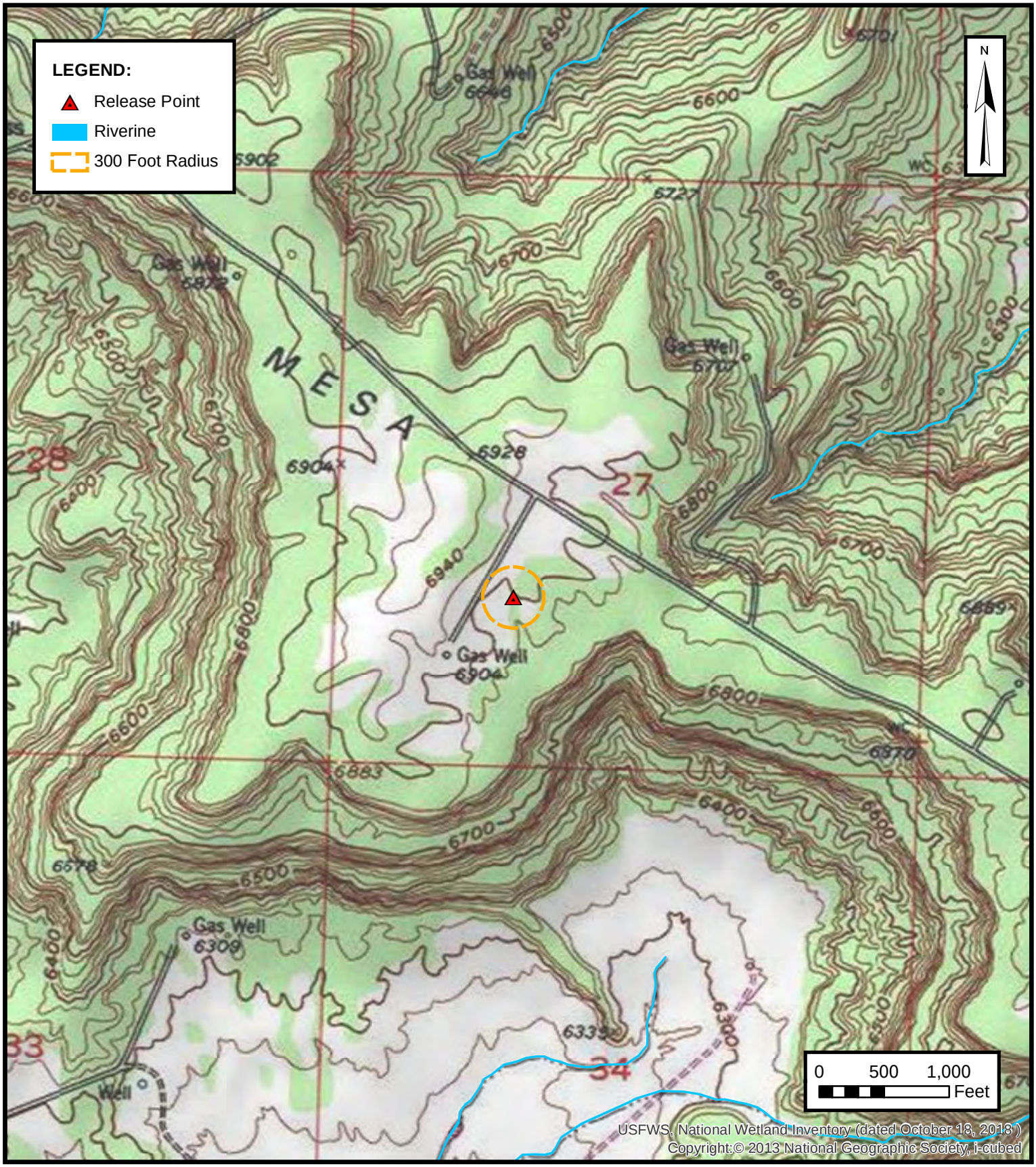
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE
E



ENSOLUM
Environmental & Hydrogeologic Consultants

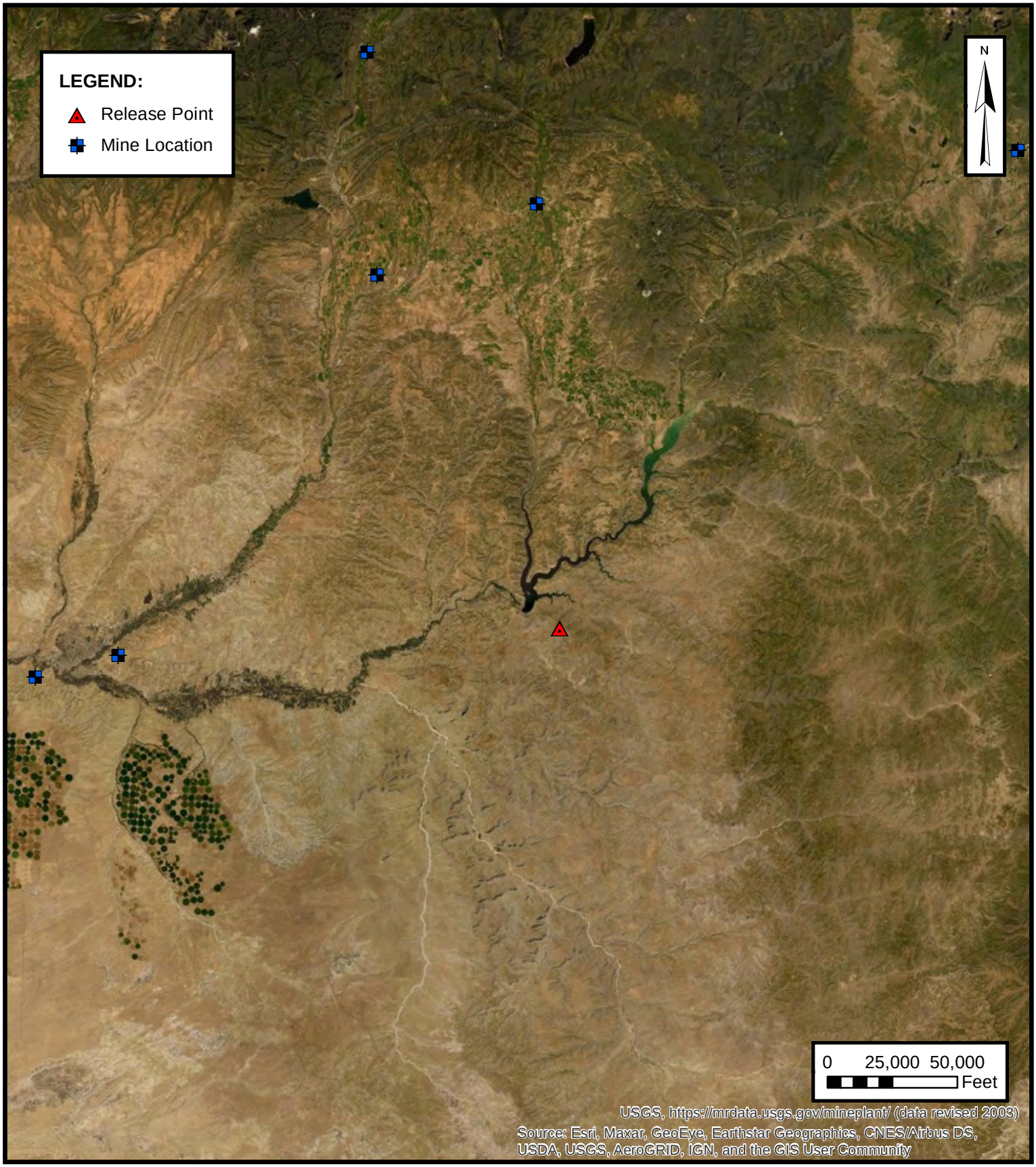
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE

F



ENSOLUM
Environmental & Hydrogeologic Consultants

MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE

G

ENSOLUM
Environmental & Hydrogeologic Consultants

100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
FRANCES MESA COMPRESSOR STATION (JULY 2020)
SW ¼, S27 T30N R7W, Rio Arriba County, New Mexico
36.780479° N, 107.562231° W

PROJECT NUMBER: 05A1226112

FIGURE
H

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00035	SJ	RA	2	2	4	33	30N	07W	270745	4072250*	547	467	80
SJ 03301	SJ	SJ	4	4	4	34	30N	07W	272344	4071603*	21	10	11

Average Depth to Water: **238 feet**

Minimum Depth: **10 feet**

Maximum Depth: **467 feet**

Record Count: 2

PLSS Search:

Section(s): 27, 21, 22, 23, 26, 28, 33, 34, 35 **Township:** 30N **Range:** 07W

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

Revised June 1972

STATE ENGINEER OFFICE '75 SEP 13 AM 11 12

WELL RECORD

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

Section 1. GENERAL INFORMATION

(A) Owner of well El Paso Natural Gas Company Owner's Well No. Sharp #1
Street or Post Office Address P. O. Box 990
City and State Farmington, New Mexico 87401

Well was drilled under Permit No. ~~SJ-163-5~~ SJ-163-S and is located in the:

a. NE ¼ SE ¼ SE ¼ ¼ of Section 18 Township 28N Range 8W N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Aztec Well Servicing Company License No. WD 727

Address Post Office Box B, Aztec, New Mexico 87410

Drilling Began 9-4-78 Completed 9-6-78 Type tools Rotary Size of hole 8 3/4 in.

Elevation of land surface or Location at well is 5739' ft. Total depth of well 1450' ft.

Completed well is ☐ shallow ☒ artesian. Depth to water upon completion of well 800 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
0	1450	1200	Water sands from 200 - 1250	Est. 20 gpm

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
9 5/8	36.0#	8 Rd.	-0-	165'	165'	Reg. Guide Shoe	--	--
7"	20.0#	8 Rd.	-0-	1415'	1415'	Notched Collar		

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
-0-	170'	13 3/4"	Unknown	100	Conventional Circulation
170'	1450	8 3/4"	Unknown	353	Conventional Circulation

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 9/13/75

Quad _____ FWL _____ FSL _____

File No. ~~SJ-163-S~~ Use Drilling & Workover Location No. 28N.8W.18 442

~~San Juan~~ San Juan Co.

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
			Because of the nature of this work no samples were available.

Section 7. REMARKS AND ADDITIONAL INFORMATION

This was an old Pictured Cliffs well which was plugged during 1951. During this conversion to a water well the old hole was reamed out and a new string of casing run to a depth of 1415'.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Jerry Sandel
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

Bataan Memorial Building
STATE CAPITOL
SANTA FE, NEW MEXICO 87501

September 22, 1978

File SJ- 163-S

El Paso Natural Gas Co.
Box 990
Farmington, N. M. 87401

Gentlemen:

Enclosed is copy of the above-numbered Well Record for your files.

Very truly yours,

S. E. Reynolds
State Engineer

By:

E. C. Barry
Engr-Tech.
Water Rights Bureau

ma
encl.
cc-J. L. Williams

38 30-039-09110

422 30-039-24261

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. 27 Twp 30 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #38, #422

cps 282w

Elevation 6899 Completion Date 10/4/76 Total Depth 438' 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. WET AT 130'

Depths gas encountered: N/A

Type & amount of coke breeze used: 30 SACKS

Depths anodes placed: 425', 390', 380', 370', 355'

Depths vent pipes placed: N/A

Vent pipe perforations: 230'

Remarks: gb #3. FIRST 4 ANODES RESPONDED. BELEIVE HOLE CAVED IN AT 140'. MAY BE NO COKE AROUND #5 ANODE.

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.

Form 7-233 (Rev. 11-71)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Logged

Drilling Log (Attach Hereto). ☐

Completion Date 10-4-76

Well Name	Location	CPS No.
SAN JUAN 30-6 # 38	SW 27-30-7	282 W

Type & Size Bit Used	Work Order No.
6 3/4	40072

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
Log 438'		30 SACKS		

	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
Anode Depth	425	390	380	370	355					
Anode Output (Amps)	3.0	3.3	3.3	3.3	2.0					
Anode Depth		# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)		# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20

Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.0	Amps 9.3	Ohms 1.29			

Remarks: DRILLER SAID WET @ 130' START INJ. @ 405 WATER STANDING @ 407' 1 hr.

FIRST 4 ANODES RESPONDED BELIEVE HOLE CAVED IN @ #4

BELIEVE NO COKE AROUND #5 ANODE

30 SACKS SLURRY

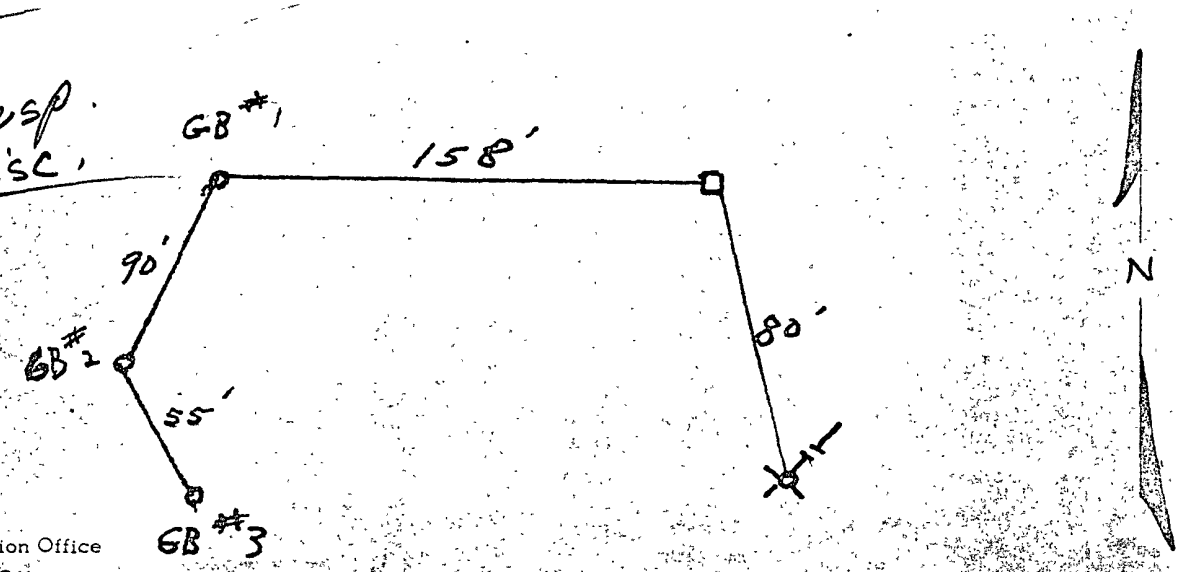
VENT PERF. 230'

$2,248.50
422.40 Depth
14.40 Surf. Cable
$2,685.30
107.41
$2,792.71
213.40 Insp.
50.00 Misc.
$3,056.11

All Construction Completed

C. W. Hunsaker
(Signature)

GROUND BED LAYOUT SKETCH



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

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE SJ 30-6 WELL NO. #38 CONTRACTOR 2824 Jon O Briant RIG NO. #1 REPORT NO. DATE 9-4-76 19

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.	NO. DC ____ SIZE ____ LENG. ____	BIT NO.	NO. DC ____ SIZE ____ LENG. ____	BIT NO.	NO. DC ____ SIZE ____ LENG. ____
SERIAL NO.	NO. DC ____ SIZE ____ LENG. ____	SERIAL NO.	NO. DC ____ SIZE ____ LENG. ____	SERIAL NO.	NO. DC ____ SIZE ____ LENG. ____
SIZE 6 3/4 Rt	STANDS	SIZE	STANDS	SIZE	STANDS
TYPE	SINGLES	TYPE	SINGLES	TYPE	SINGLES
MAKE	DOWN ON KELLY	MAKE	DOWN ON KELLY	MAKE	DOWN ON KELLY
	TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH

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

FROM	TO	TIME BREAKDOWN
	0 - 110	Sh
	110 - 130	SS
	130 - 138	S damp
	138 - 161	Sh dry

FROM	TO	TIME BREAKDOWN
	161 - 200	Sh silty
	200 - 235	S hard
	235 - 270	Sh
	270 - 302	Sd damp (wet)
	302 - 307	Sh

FROM	TO	TIME BREAKDOWN
		Air + Foam

REMARKS –

307 - 311 S damp
311 - 325 S & Sh dry
325 - 355 W S
355 - 405 S h
405 - 425 S
425 - 442 Sh
442 - 460 S damp

REMARKS –

REMARKS –

Hole drilled to 460' TD
Hole logged to 438'

SIGNED: Toolpusher _____ Company Supervisor _____

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: ___ of ___
Date:
By:
File:

SW27-30-7

SAN JUAN 30-6- # 38 282W 40072

125	.4	350	1	1.4	1. 425	2.0	3.0
30	.5	55		1.5 x	2. 390	2.0	3.3
35	.7	60		1.4 x	3. 380	1.9	3.3
40	.8	65		1.2	4. 370	1.9	3.3
45	.9	70		1.4 x	5. 355	2.0	3.0
50	.9	75		1.5			
55	.1	80		1.4 x			
60	.1	85		1.4			
65	.5	90		1.4 x			
70	.6	95		1.3			
75	.8	400		1.0			
80	.8	05		1.0			
85	.6	10		.9			
90	.3	15		.9			
95	.1	20		1.2			
200	.1	25		1.5 x			
05	.1	30		.9			
10	.1	35		.8			
15	.2	40		.8			
20	.2	45		.8	T.D. 438		
25	.6	50					
30	1.0	55					
35	1.0	60					
40	.9						
45	1.1			DRILLER SAID WET AT 130'			
50	1.0			START INJ AT 405'	WATER STANDING		
55	1.0			407' 1 hr.			
60	.7						
65	.7			FIRST FOUR ANODES	RESPONDED		
70	.7			HOLE CAVED @ 140'	BELIEVE NO		
75	.7			COKE AROUND #5	ANODE		
80	.7						
85	.7			9.3 A V	12.0	1.212	
90	.9						
95	1.0						
300	1.0						
05	1.0						
10	.7						
15	.7						
20	.7						
25	.7						
30	.7						
35	.8						
40	.9						
45	1.2			DEN PERF 230'			

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

#97A 30-039-25448

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

Operator Meridian Oil Inc. Location: Unit J Sec. 27 Twp 30 Rng 07

Name of Well/Wells or Pipeline Serviced

San Juan 30-6 #97A

Elevation ____ Completion Date 3-28-95 Total Depth 472 Land Type F

Casing Strings, Sizes, Types & Depths 3/9 Set 98' of 8" Pvc Casing.
No Gas, Water, or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented
With 20 Sacks.

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

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 200' and was clear

Depths gas encountered: No gas

Ground bed depth with type & amount of coke breeze used: 472' with 66 (100 lb) sacks of Loresco SW

Depths anodes placed: #1 is at 450' & #15 is at 215'

Depths vent pipes placed: Bottom to Surface

Vent pipe perforations: Up to 180'

Remarks:

RECEIVED
JAN 11 1996
OIL CON. DIV.
DIST. 3

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

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

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

Operator Burlington Resources Location: Unit E Sec. 27 Twp 30 Rng 7

Name of Well/Walls or Pipeline Serviced S.J. 30-6 # 38A 30-039-25673

Elevation ____ Completion Date 3-16-98 Total Depth 300 Land Type ____

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

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

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

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 190 seep

Depths gas encountered: none

Ground bed depth with type & amount of coke breeze used: 300' = 2000 lbs Lorrs to SW

Depths anodes placed: 260, 253, 246, 239, 232, 225, 218, 211, 204, 197

Depths vent pipes placed: 300'

Vent pipe perforations: Bottom 150'

Remarks:

RECEIVED
MAR - 9 1999
OIL CON. DIV.
DIST. 3

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

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

TD1505-98-134

TIERRA DYNAMIC COMPANY — **DEEP WELL GROUNDED LOG DATA SHEET**

COMPANY NAME: Burlington Resources
WELL NAME : SJ. 30-6 # 38A
LEGAL LOCATION: E-27-30-7 COUNTY: Rio Arriba

DATE: 3-16-98
DEPTH: 300'
BIT SIZE: 6 3/4
DRILLER NAME: Jack Ledbetter
SIZE AND TYPE OF CASING: 8" PVC X 20'

TYPE OF COKE: Loresco SW
AMT. OF COKE BACKFILL: 2000 lbs
VENT PIPE: 300'
PERF. PIPE: Bottom 150'
ANODE AMT. & TYPE: Anodes - Duriron
BOULDER DRILLING:

DEPTH FT.	LOG	ANODE	DEPTH FT.	LOG	ANODE	DEPTH FT.	LOG	ANODE
100			265	.7		430		
105			270	.6		435		
110			275	.3		440		
115			280	.2		445		
120			285	.3		450		
125			290	.3		455		
130			295	.3		460		
135			300	T.D.		465		
140			305			470		
145			310			475		
150	1.4		315			480		
155	1.4		320			485		
160	1.4		325			490		
165	1.1		330			495		
170	1.2		335			500		
175	1.2		340			505		
180	1.0		345			510		
185	1.5		350			515		
190	1.1		355			520		
195	1.0		360			525		
200	1.0		365			530		
205	1.0		370			535		
210	1.2		375			540		
215	1.8		380			545		
220	2.5		385			550		
225	2.2		390			555		
230	1.9		395			560		
235	1.3		400			565		
240	1.0		405			570		
245	.6		410			575		
250	.7		415			580		
255	1.0		420			585		
260	1.2		425			590		
						595		

COMPLETION INFORMATION:
WATER DEPTHS: 190 Seep
ISOLATION PLUGS:

ANODE#	DEPTH	OUTPUT NO COK	OUTPUT COKED
1	260	1.2	2.8
2	253	1.0	2.4
3	246	1.1	4.8
4	239	1.5	6.2
5	232	2.1	8.1
6	225	2.2	8.2
7	218	2.1	7.7
8	211	1.3	6.3
9	204	1.0	3.1
10	197	1.0	3.6
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

LOGING VOLTS: 11.95 VOLTAGE SOURCE: Auto
TOTAL AMPS: 13.4 TOTAL G/B RESISTANCE: .89

REMARKS: DP# 35765A Ken Johnson

2680.00
2 XTRA anodes @ 175.00 ea = 350.00
3030.00
RAL 170.44

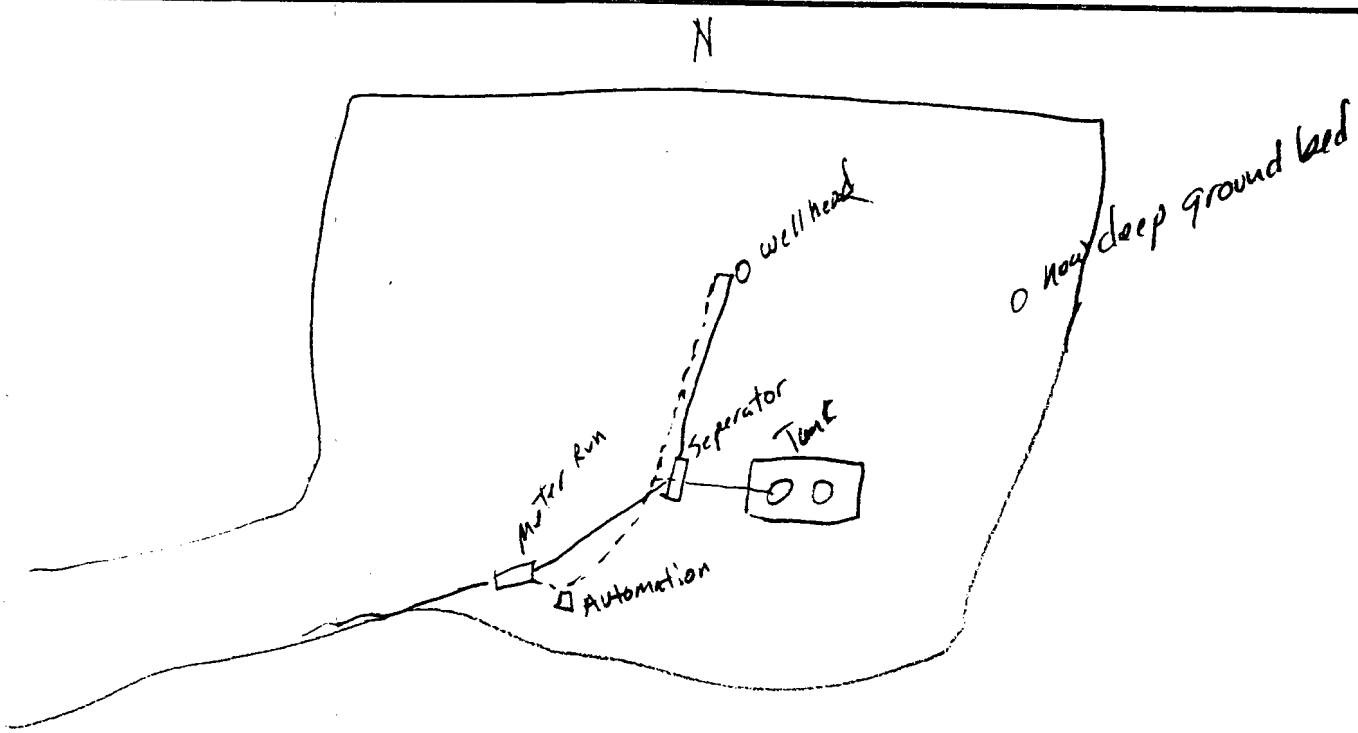
DRILLERS LOG AND POWER UNIT DATA - SKETCH

COMPANY NAME: Burlington Resources
WELL NAME: SJ 30-6 # 88A LEGALS: E-29-30-7 COUNTY: Rio Arriba
RECTIFIER DATA:
MANUFACTURER: MODEL: SERIAL#
CAPACITY:

DRILLING LOG:

DEPTH FT.	REMARKS:	DEPTH FT.	REMARKS:	DEPTH FT.	REMARKS:
20	Sandstone	210	Sandstone	410	
30		220	Shale	420	
40		230		430	
50		240	Sandstone	440	
60		250		450	
70		260		460	
80		270		470	
90	Shale	280		480	
100		290		490	
110		300	T.D.	500	
120		310		510	
130		320		520	
140		330		530	
150	Sandstone	340		540	
160		350		550	
170		360		560	
180		370		570	
190		380		580	
200		390		590	
		400		600	

LOCATION SKETCH // RECTIFIER - GROUNDBEDS - CABLE ROUTES - ETC.



4355

30-039-07767

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

Operator MERIDIAN OIL Location: Unit NE Sec. 27 Twp 30 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #97

cps 138w

Elevation 6707' Completion Date 6/27/77 Total Depth 214' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 1600 lbs.

Depths anodes placed: 185', 175', 165', 155', 145'

Depths vent pipes placed: 190'

Vent pipe perforations: 190'

Remarks: gb #2

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.

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Hard Rock

Drilling Log (Attach Hereto). ☐

Completion Date 6-27-77

Well Name	Location	CPS No.
SJ 30-6 #97	NE 27-30-7	138 W

Type & Size Bit Used	Work Order No.
6 3/4	52491

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
214		1600		

	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
Anode Depth	185	175	165	155	145					
Anode Output (Amps)	3.0	3.1	3.2	3.2	4.2					

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

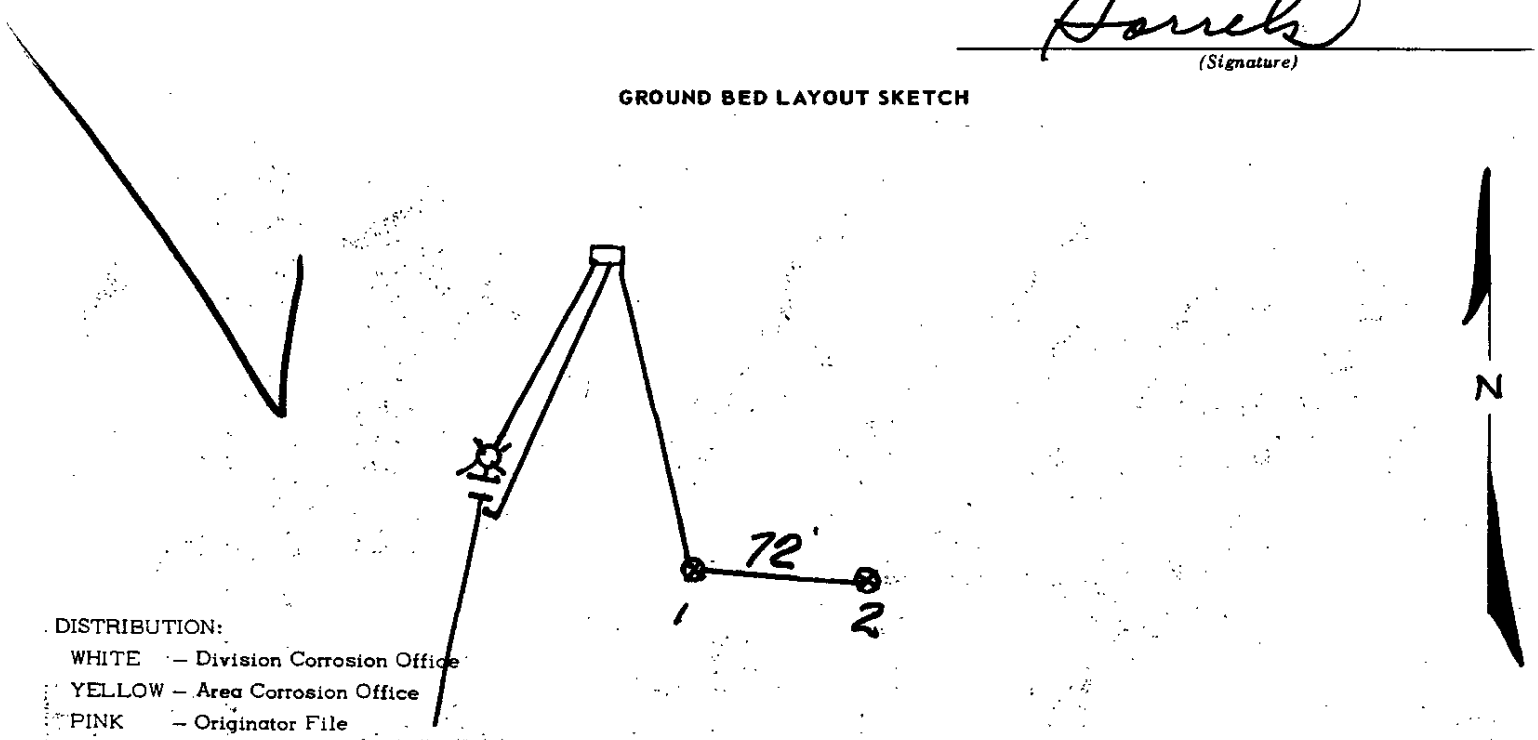
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.1	Amps 9.5	Ohms 1.27		

Remarks: DRILL TO 200 WITH 5 1/8" BIT - LEFT 180' OF PIPE IN HOLE BLEW WATER OUT NEXT A.M. DAMP at 98 TO 105 & 110 TO 124. DRILLERS LOG SHOW SHALE 131 TO 190 - DRILL TO 220' FOR BOTTOMS - LOG 5 1/8 HOLE REAM WITH 6 3/4 TO 220'. VENT TO 190' PERFORATED 190' - SLURRY 20 COKE

All Construction Completed

Darrels
(Signature)

GROUND BED LAYOUT SKETCH



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

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE WELL NO. 138W CONTRACTOR O'Briant RIG NO. 1 REPORT NO. DATE June 27 1977

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	30	Sandstone		
30	50	Shale		
50	65	Sandstone		
65	93	Shale		
93	98	Sdy Shale		

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.
98	105	Sandstone damp		
105	110	Shale		
110	124	Sandstone wet		
124	126	Shale		
126	131	Sandy Shale		

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

6 3/4 hole
Drilled To 200 w/ 5 1/8 bit + Logged
Reamed + drilled to 220 ft w/ 6 3/4

FROM	TO	TIME BREAKDOWN

REMARKS –

O'Briant

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
131	190	Shale		
190	220	Sandstone		

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 _____ Company Supervisor _____

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: ____ of ____
Date:
By:
File:

138W
SJ 30-6 #97 - NE27-30-7 - 52491

120	6				DRILL TO 200'
	1.1				LEFT 180' PIPE IN HOLE
30	13	Log 5 1/8 3:+			BLEW WTR OUT
	1.4				NEXT A.M.
40	15				DAMP at 98' TO 105'
	1.6				& 116 TO 124
50	1.4	Ream 6 3/4			Drillers Log shows
	14				shale 131 - 190'
60	1.3				DRILL TO 220 For Bottoms
	15				Coincoat Fill w/ wtr to
70	13				120 & Log -
	15				
80	13			190'	Vent Perf. ALL
	15				
90	13				20 Sx Coke
	13			1 1.85	1.34 3.0
200	.7			2 1.75	1.27 3.1
	.6			3 1.65	1.32 3.3
10	T.D 214			4 1.55	1.23 3.2
				5 1.45	1.50 4.2
20					
				95 | 12.1 V	9.5A = 1.27Ω

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

30-039-24189 90C

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

Operator MERIDIAN OIL INC. Location: Unit A Sec. 27 Twp 30 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #411

cps 1941w

Elevation 6523' Completion Date 5/4/88 Total Depth 360' 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. 40'

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 330', 320', 265', 255', 245', 235', 225', 195', 185', 175'

Depths vent pipes placed: 355'

Vent pipe perforations: 300'

Remarks: gb #1

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

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY ~~LOG~~

Drilling Log (Attach Hereto) ☒ Completion Date 5-4-88

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1941-W	2749A S. J. 30-6 # 411	~~22-8-74477~~ 071041100	600' E = .89	☒ Good ☐ Bad

Location:	Anode Size:	Anode Type:	Size Bit:
A27-30-7	2" x 60"	Duriron	6 3/4"

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
360'	351'				

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	330'	320'	265'	255'	245'	235'	225'	195'	185'	175
Anode Output (Amps)	3.5	3.5	3.9	4.2	3.6	4.7	4.0	5.0	5.6	4.8
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.95	Amps 22.2	Ohms .538		

Remarks: DRILLED 360' LOGGED 351'. DRILLER SAID WATER AT 45' CAUGHT SAMPLE. INSTALLED 355' of 1" PVC VENT PIPE; PERFORATED BOTTOM 300'

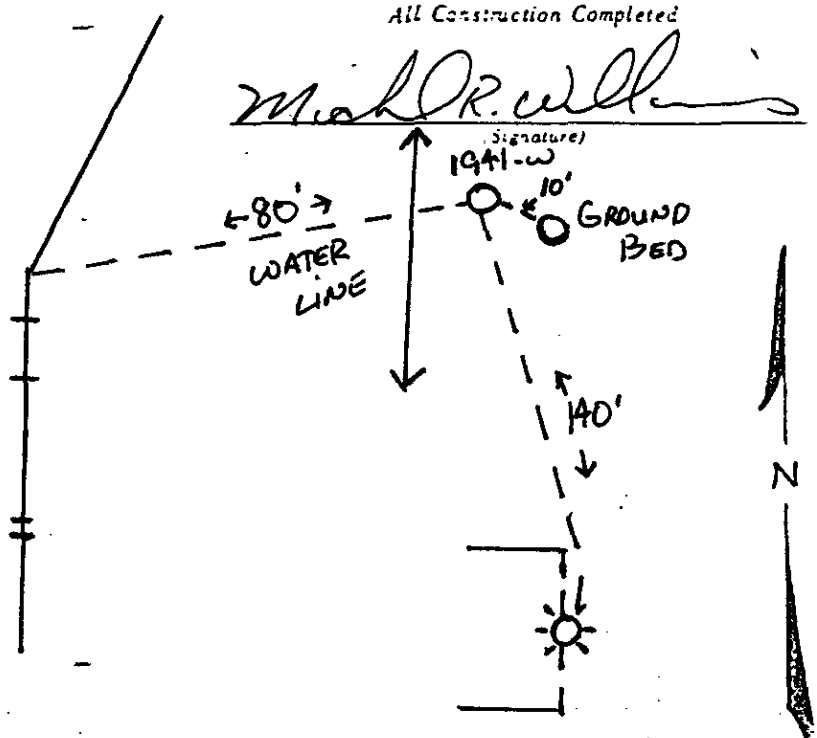
Rectifier Size: 40 V 16 A
Addn'l Depth
Depth Credit: 149' ✓
Extra Cable: 30'
Ditch & 1 Cable: 230'

25' Meter Pole: 2
20' Meter Pole: 1
10' Stub Pole:
Junction Box: 1

4,074.00 ✓
-521.50 ✓
7.20 ✓
161.00 ✓
297.00 ✓
225.00 ✓
- 669.00 ✓
4912.20 4911.70 changed
~~245.61~~ 245.59
5157.81 5157.29

All Construction Completed

Mark R. Williams
(Signature)



6523

D. Cross DRILLING CO.

Drill No. 3

DRILLER'S WELL LOG

S. P. No. S.J. 30-6 Unit 41 Date 5-2-88

Client Meridian Oil Co. Prospect

County Rio Arriba State New Mexico

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

FROM	TO	FORMATION — COLOR — HARDNESS
0	35	Sandstone
35	45	Sand
45	200	Shale
200	360	Sandy Shale

Mud Bran Lime

Rock Bit Number Make

Remarks: Water @ 40'

Driller Ronnie Brown

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised August 1, 2011

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

97057 - 1121

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

AFE: N48872
PM: Matt Garrison
Pay Key: EM20767

3. **Originating Site:**
Frances Mesa Compressor Station

4. **Location of Material (Street Address, City, State or ULSTR):**
UL K Section 27 T30N R7W; 36.780479, -107.562231

July 2020

4. **Source and Description of Waste:** Hydrocarbon/Produced water impacted soil/sludge from remediation activities associated with a produced water release.
5. Estimated Volume 50 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 174 (yd³) / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
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) 7-16-2020, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete 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.

6. **Transporter: Sierra Oil Field Services or subcontractors.**

OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011**
Address of Facility: **Hilltop, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 7/16/2020

SIGNATURE: (Greg Crabtree) TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Frances Mesa Compressor Station (July 2020)
Ensolum Project No. 05A1226112

ENSOLUM

Photograph 1 Photograph Date: 7/16/20 Photograph Description: View of in-process excavation/scraping activities (facing northeast).	
Photograph 2 Photograph Date: 7/16/20 Photograph Description: View of in-process excavation activities (facing north).	
Photograph 3 Photograph Date: 7/16/20 Photograph Description: View of the initial excavation (facing southwest).	

SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Frances Mesa Compressor Station (July 2020)
Ensolum Project No. 05A1226112

ENSOLUM

Photograph 4 Photograph Date: 7/21/20 Photograph Description: View of in-process excavation/scraping activities (facing northeast).	
Photograph 5 Photograph Date: 7/22/20 Photograph Description: View of in-process excavation activities (facing northeast).	
Photograph 6 Photograph Date: 7/22/20 Photograph Description: View of in-process excavation activities (facing west).	

SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Frances Mesa Compressor Station (July 2020)
Ensolum Project No. 05A1226112

ENSOLUM

Photograph 7 Photograph Date: 7/22/20 Photograph Description: View of in-process excavation activities (facing southwest).	
Photograph 8 Photograph Date: 7/27/20 Photograph Description: View of the final excavation and the sample location of composite soil sample S10-b (facing west).	

ENSOLUM

APPENDIX E

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Frances Mesa Compressor Station (July 2020)
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 (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria				10	NE	NE	NE	50				100	600
Excavation Soil Samples Removed by Excavation													
S-2	7.17.20	C	0.12	<0.017	<0.033	<0.033	<0.067	ND	<3.3	<100	2,000	**2,000**	63
S-3	7.17.20	C	0.12	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<94	640	**640**	100
S-4	7.17.20	C	0.12	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<49	460	**460**	98
S-6	7.17.20	C	0.12	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<95	990	**990**	73
S-7	7.17.20	C	0.12	<0.015	<0.031	<0.031	<0.062	ND	<3.1	<90	1,400	**1,400**	75
S-8	7.17.20	C	0.12	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<92	610	**610**	<60
S-9	7.17.20	C	0.12	<0.023	<0.046	<0.046	<0.091	ND	<4.6	<8.6	120	**120**	<60
S-10	7.17.20	C	0.12	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<47	460	**460**	<60
S10-a	7.23.20	C	0.25	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<9.3	210	**210**	<60
Excavation Composite Soil Samples													
S-1	7.17.20	C	1	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.9	<50	ND	<60
S-5	7.17.20	C	0.12	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<9.7	59	59	<59
B-1	7.17.20	C	0.12	<0.021	<0.042	<0.042	<0.083	ND	<4.2	<9.4	<47	ND	<60
B-2	7.17.20	C	0.12	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.6	<48	ND	<59
S2-a	7.23.20	C	0.42	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.7	<48	ND	<60
S3-a	7.23.20	C	0.33	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.7	<48	ND	<60
S4-a	7.23.20	C	0.13	<0.024	<0.048	<0.048	<0.095	ND	<4.8	9.7	<47	9.7	<60
S6-a	7.23.20	C	0.13	<0.018	<0.037	<0.037	<0.074	ND	<3.7	<9.9	<50	ND	<60
S7-a	7.23.20	C	0.33	<0.016	<0.033	<0.033	<0.066	ND	<3.3	<9.6	<48	ND	<60
S8-a	7.23.20	C	1	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.1	<46	ND	<60
S9-a	7.23.20	C	0.42	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.2	<46	ND	<60
S10-B	7.27.20	C	0.58	<0.019	<0.038	<0.039	<0.076	ND	<3.8	<9.2	<46	ND	<60

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

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

NA = Not Analyzed

NE = Not Established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX F

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: clients.hallenvironmental.com

July 22, 2020

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

RE: Frances Mesa CS OrderNo.: 2007961

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/18/2020 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

CLIENT: ENSOLUM
Project: Frances Mesa CS
Lab ID: 2007961-001 **Matrix:** SOIL

Client Sample ID: S-1
Collection Date: 7/17/2020 9:00:00 AM
Received Date: 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/19/2020 4:36:54 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/18/2020 3:55:45 PM	53804
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/18/2020 3:55:45 PM	53804
Surr: DNOP	95.8	55.1-146		%Rec	1	7/18/2020 3:55:45 PM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/18/2020 4:16:34 PM	G70450
Surr: BFB	89.1	66.6-105		%Rec	1	7/18/2020 4:16:34 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	7/18/2020 4:16:34 PM	B70450
Toluene	ND	0.036		mg/Kg	1	7/18/2020 4:16:34 PM	B70450
Ethylbenzene	ND	0.036		mg/Kg	1	7/18/2020 4:16:34 PM	B70450
Xylenes, Total	ND	0.073		mg/Kg	1	7/18/2020 4:16:34 PM	B70450
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	7/18/2020 4:16:34 PM	B70450

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:05:00 AM
Lab ID: 2007961-002 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	63	60		mg/Kg	20	7/19/2020 5:13:56 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	100	D	mg/Kg	10	7/20/2020 9:39:32 AM	53804
Motor Oil Range Organics (MRO)	2000	500		mg/Kg	10	7/20/2020 9:39:32 AM	53804
Surr: DNOP	0	55.1-146	S	%Rec	10	7/20/2020 9:39:32 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/18/2020 5:28:18 PM	G70450
Surr: BFB	90.9	66.6-105		%Rec	1	7/18/2020 5:28:18 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.017		mg/Kg	1	7/18/2020 5:28:18 PM	B70450
Toluene	ND	0.033		mg/Kg	1	7/18/2020 5:28:18 PM	B70450
Ethylbenzene	ND	0.033		mg/Kg	1	7/18/2020 5:28:18 PM	B70450
Xylenes, Total	ND	0.067		mg/Kg	1	7/18/2020 5:28:18 PM	B70450
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/18/2020 5:28:18 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:10:00 AM
Lab ID: 2007961-003 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	100	60		mg/Kg	20	7/19/2020 5:26:16 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	94	D	mg/Kg	10	7/20/2020 10:27:41 AM	53804
Motor Oil Range Organics (MRO)	640	470		mg/Kg	10	7/20/2020 10:27:41 AM	53804
Surr: DNOP	0	55.1-146	S	%Rec	10	7/20/2020 10:27:41 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	7/18/2020 6:41:41 PM	G70450
Surr: BFB	87.4	66.6-105		%Rec	1	7/18/2020 6:41:41 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	7/18/2020 6:41:41 PM	B70450
Toluene	ND	0.042		mg/Kg	1	7/18/2020 6:41:41 PM	B70450
Ethylbenzene	ND	0.042		mg/Kg	1	7/18/2020 6:41:41 PM	B70450
Xylenes, Total	ND	0.084		mg/Kg	1	7/18/2020 6:41:41 PM	B70450
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/18/2020 6:41:41 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:15:00 AM
Lab ID: 2007961-004 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	98	60		mg/Kg	20	7/19/2020 5:38:38 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	49	D	mg/Kg	5	7/20/2020 8:03:17 AM	53804
Motor Oil Range Organics (MRO)	460	250		mg/Kg	5	7/20/2020 8:03:17 AM	53804
Surr: DNOP	109	55.1-146		%Rec	5	7/20/2020 8:03:17 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	7/18/2020 7:05:32 PM	G70450
Surr: BFB	89.4	66.6-105		%Rec	1	7/18/2020 7:05:32 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	7/18/2020 7:05:32 PM	B70450
Toluene	ND	0.034		mg/Kg	1	7/18/2020 7:05:32 PM	B70450
Ethylbenzene	ND	0.034		mg/Kg	1	7/18/2020 7:05:32 PM	B70450
Xylenes, Total	ND	0.069		mg/Kg	1	7/18/2020 7:05:32 PM	B70450
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	7/18/2020 7:05:32 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:20:00 AM
Lab ID: 2007961-005 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	7/19/2020 5:50:59 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/20/2020 8:02:56 AM	53804
Motor Oil Range Organics (MRO)	59	48		mg/Kg	1	7/20/2020 8:02:56 AM	53804
Surr: DNOP	93.7	55.1-146		%Rec	1	7/20/2020 8:02:56 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/18/2020 7:29:21 PM	G70450
Surr: BFB	90.1	66.6-105		%Rec	1	7/18/2020 7:29:21 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	7/18/2020 7:29:21 PM	B70450
Toluene	ND	0.040		mg/Kg	1	7/18/2020 7:29:21 PM	B70450
Ethylbenzene	ND	0.040		mg/Kg	1	7/18/2020 7:29:21 PM	B70450
Xylenes, Total	ND	0.079		mg/Kg	1	7/18/2020 7:29:21 PM	B70450
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/18/2020 7:29:21 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:25:00 AM
Lab ID: 2007961-006 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	73	60		mg/Kg	20	7/19/2020 6:03:19 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	95	D	mg/Kg	10	7/20/2020 11:15:48 AM	53804
Motor Oil Range Organics (MRO)	990	480		mg/Kg	10	7/20/2020 11:15:48 AM	53804
Surr: DNOP	0	55.1-146	S	%Rec	10	7/20/2020 11:15:48 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/18/2020 7:53:08 PM	G70450
Surr: BFB	86.1	66.6-105		%Rec	1	7/18/2020 7:53:08 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.019		mg/Kg	1	7/18/2020 7:53:08 PM	B70450
Toluene	ND	0.039		mg/Kg	1	7/18/2020 7:53:08 PM	B70450
Ethylbenzene	ND	0.039		mg/Kg	1	7/18/2020 7:53:08 PM	B70450
Xylenes, Total	ND	0.077		mg/Kg	1	7/18/2020 7:53:08 PM	B70450
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/18/2020 7:53:08 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-7
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:30:00 AM
Lab ID: 2007961-007 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	75	61		mg/Kg	20	7/19/2020 6:15:40 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	90	D	mg/Kg	10	7/20/2020 10:26:20 AM	53804
Motor Oil Range Organics (MRO)	1400	450		mg/Kg	10	7/20/2020 10:26:20 AM	53804
Surr: DNOP	0	55.1-146	S	%Rec	10	7/20/2020 10:26:20 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	7/18/2020 8:16:53 PM	G70450
Surr: BFB	89.0	66.6-105		%Rec	1	7/18/2020 8:16:53 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	7/18/2020 8:16:53 PM	B70450
Toluene	ND	0.031		mg/Kg	1	7/18/2020 8:16:53 PM	B70450
Ethylbenzene	ND	0.031		mg/Kg	1	7/18/2020 8:16:53 PM	B70450
Xylenes, Total	ND	0.062		mg/Kg	1	7/18/2020 8:16:53 PM	B70450
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	7/18/2020 8:16:53 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-8
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:35:00 AM
Lab ID: 2007961-008 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/19/2020 6:52:45 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	92	D	mg/Kg	10	7/20/2020 11:14:27 AM	53804
Motor Oil Range Organics (MRO)	610	460		mg/Kg	10	7/20/2020 11:14:27 AM	53804
Surr: DNOP	0	55.1-146	S	%Rec	10	7/20/2020 11:14:27 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/18/2020 8:40:36 PM	G70450
Surr: BFB	87.1	66.6-105		%Rec	1	7/18/2020 8:40:36 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	7/18/2020 8:40:36 PM	B70450
Toluene	ND	0.039		mg/Kg	1	7/18/2020 8:40:36 PM	B70450
Ethylbenzene	ND	0.039		mg/Kg	1	7/18/2020 8:40:36 PM	B70450
Xylenes, Total	ND	0.077		mg/Kg	1	7/18/2020 8:40:36 PM	B70450
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/18/2020 8:40:36 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-9
Project: Frances Mesa CS
Collection Date: 7/17/2020 9:40:00 AM
Lab ID: 2007961-009 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/19/2020 7:05:05 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	7/20/2020 8:50:36 AM	53804
Motor Oil Range Organics (MRO)	120	43		mg/Kg	1	7/20/2020 8:50:36 AM	53804
Surr: DNOP	100	55.1-146		%Rec	1	7/20/2020 8:50:36 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/18/2020 9:04:18 PM	G70450
Surr: BFB	88.9	66.6-105		%Rec	1	7/18/2020 9:04:18 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/18/2020 9:04:18 PM	B70450
Toluene	ND	0.046		mg/Kg	1	7/18/2020 9:04:18 PM	B70450
Ethylbenzene	ND	0.046		mg/Kg	1	7/18/2020 9:04:18 PM	B70450
Xylenes, Total	ND	0.091		mg/Kg	1	7/18/2020 9:04:18 PM	B70450
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/18/2020 9:04:18 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-10
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:45:00 AM
Lab ID: 2007961-010 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	7/19/2020 7:17:26 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	47	D	mg/Kg	5	7/20/2020 8:51:24 AM	53804
Motor Oil Range Organics (MRO)	460	240		mg/Kg	5	7/20/2020 8:51:24 AM	53804
Surr: DNOP	105	55.1-146		%Rec	5	7/20/2020 8:51:24 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	7/18/2020 9:27:55 PM	G70450
Surr: BFB	87.9	66.6-105		%Rec	1	7/18/2020 9:27:55 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.021		mg/Kg	1	7/18/2020 9:27:55 PM	B70450
Toluene	ND	0.042		mg/Kg	1	7/18/2020 9:27:55 PM	B70450
Ethylbenzene	ND	0.042		mg/Kg	1	7/18/2020 9:27:55 PM	B70450
Xylenes, Total	ND	0.084		mg/Kg	1	7/18/2020 9:27:55 PM	B70450
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/18/2020 9:27:55 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** B-1
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:50:00 AM
Lab ID: 2007961-011 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/19/2020 7:29:47 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/20/2020 9:38:24 AM	53804
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/20/2020 9:38:24 AM	53804
Surr: DNOP	97.7	55.1-146		%Rec	1	7/20/2020 9:38:24 AM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	7/18/2020 10:15:03 PM	G70450
Surr: BFB	87.4	66.6-105		%Rec	1	7/18/2020 10:15:03 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	7/18/2020 10:15:03 PM	B70450
Toluene	ND	0.042		mg/Kg	1	7/18/2020 10:15:03 PM	B70450
Ethylbenzene	ND	0.042		mg/Kg	1	7/18/2020 10:15:03 PM	B70450
Xylenes, Total	ND	0.083		mg/Kg	1	7/18/2020 10:15:03 PM	B70450
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	7/18/2020 10:15:03 PM	B70450

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

Qualifiers:

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

Analytical Report
Lab Order **2007961**
Date Reported: **7/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** B-2
Project: Frances Mesa CS **Collection Date:** 7/17/2020 9:55:00 AM
Lab ID: 2007961-012 **Matrix:** SOIL **Received Date:** 7/18/2020 11:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	7/19/2020 7:42:08 PM	53808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/18/2020 9:14:42 PM	53804
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/18/2020 9:14:42 PM	53804
Surr: DNOP	101	55.1-146		%Rec	1	7/18/2020 9:14:42 PM	53804
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/18/2020 10:38:34 PM	G70450
Surr: BFB	85.9	66.6-105		%Rec	1	7/18/2020 10:38:34 PM	G70450
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	7/18/2020 10:38:34 PM	B70450
Toluene	ND	0.040		mg/Kg	1	7/18/2020 10:38:34 PM	B70450
Ethylbenzene	ND	0.040		mg/Kg	1	7/18/2020 10:38:34 PM	B70450
Xylenes, Total	ND	0.080		mg/Kg	1	7/18/2020 10:38:34 PM	B70450
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/18/2020 10:38:34 PM	B70450

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007961**

22-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **MB-53808** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **53808** RunNo: **70454**

Prep Date: **7/19/2020** Analysis Date: **7/19/2020** SeqNo: **2449910** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53808** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **53808** RunNo: **70454**

Prep Date: **7/19/2020** Analysis Date: **7/19/2020** SeqNo: **2449911** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007961**

22-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **MB-53804** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **53804** RunNo: **70448**

Prep Date: **7/18/2020** Analysis Date: **7/18/2020** SeqNo: **2450048** 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	9.2		10.00		92.2	55.1	146			

Sample ID: **LCS-53804** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **53804** RunNo: **70448**

Prep Date: **7/18/2020** Analysis Date: **7/18/2020** SeqNo: **2450050** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.9	70	130			
Surr: DNOP	4.5		5.000		90.5	55.1	146			

Sample ID: **2007961-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-1** Batch ID: **53804** RunNo: **70448**

Prep Date: **7/18/2020** Analysis Date: **7/18/2020** SeqNo: **2450054** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.8	49.21	0	82.7	47.4	136			
Surr: DNOP	4.6		4.921		93.5	55.1	146			

Sample ID: **2007961-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-1** Batch ID: **53804** RunNo: **70448**

Prep Date: **7/18/2020** Analysis Date: **7/18/2020** SeqNo: **2450056** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.4	46.86	0	81.3	47.4	136	6.65	43.4	
Surr: DNOP	4.4		4.686		94.7	55.1	146	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007961**

22-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G70450**	RunNo: **70450**							
Prep Date:	Analysis Date: **7/18/2020**	SeqNo: **2449576**	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	66.6	105			S

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G70450**	RunNo: **70450**							
Prep Date:	Analysis Date: **7/18/2020**	SeqNo: **2449577**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.9	72.5	106			
Surr: BFB	1100		1000		107	66.6	105			S

Sample ID: **2007961-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **S-1**	Batch ID: **G70450**	RunNo: **70450**							
Prep Date:	Analysis Date: **7/18/2020**	SeqNo: **2449597**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.6	18.20	0	89.9	80	120			
Surr: BFB	750		727.8		103	66.6	105			

Sample ID: **2007961-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **S-1**	Batch ID: **G70450**	RunNo: **70450**							
Prep Date:	Analysis Date: **7/18/2020**	SeqNo: **2449598**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.6	18.20	0	91.4	80	120	1.68	20	
Surr: BFB	750		727.8		103	66.6	105	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007961**
22-Jul-20

Client: ENSOLUM
Project: Frances Mesa CS

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B70450** RunNo: **70450**
Prep Date: Analysis Date: **7/18/2020** SeqNo: **2449662** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B70450** RunNo: **70450**
Prep Date: Analysis Date: **7/18/2020** SeqNo: **2449671** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.8	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID: **2007961-002ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2** Batch ID: **B70450** RunNo: **70450**
Prep Date: Analysis Date: **7/18/2020** SeqNo: **2449701** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.017	0.6662	0	97.9	78.5	119			
Toluene	0.66	0.033	0.6662	0	99.2	75.7	123			
Ethylbenzene	0.66	0.033	0.6662	0	98.9	74.3	126			
Xylenes, Total	2.0	0.067	1.999	0	101	72.9	130			
Surr: 4-Bromofluorobenzene	0.76		0.6662		115	80	120			

Sample ID: **2007961-002amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2** Batch ID: **B70450** RunNo: **70450**
Prep Date: Analysis Date: **7/18/2020** SeqNo: **2449709** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.017	0.6662	0	97.9	78.5	119	0.0306	20	
Toluene	0.65	0.033	0.6662	0	98.1	75.7	123	1.12	20	
Ethylbenzene	0.65	0.033	0.6662	0	98.3	74.3	126	0.639	20	
Xylenes, Total	2.0	0.067	1.999	0	101	72.9	130	0.172	20	
Surr: 4-Bromofluorobenzene	0.77		0.6662		115	80	120	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2007961** RcptNo: **1**

Received By: **Leah Baca** **7/18/2020 11:05:00 AM** Leah Baca

Completed By: **Leah Baca** **7/18/2020 11:18:52 AM** Leah Baca

Reviewed By: DF 7/18/2020

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: LB 7/18/20

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	5.9	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suite A 87410

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: Same Day 100%20
☐ Standard ☒ Rush 7-20-20

Project Name: Frances Mesa CS

Project #: 05A1226112

Project Manager: K Sommers

Sampler: C DAponti

On Ice: ☒ Yes ☐ No

# of Coolers: (2)

Cooler Temp(including CF): 5.9+0=5.9 (°C)

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. 2007961	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)
7/17	900	S	S-1	1 4oz Jar	Cool	-001	X	X					X			
7/17	905	S	S-2		Cool	-002	X	X					X			
7/17	910	S	S-3		Cool	-003	X	X					X			
7/17	915	S	S-4		Cool	-004	X	X					X			
7/17	920	S	S-5		Cool	-005	X	X					X			
7/17	925	S	S-6		Cool	-006	X	X					X			
7/17	930	S	S-7		Cool	-007	X	X					X			
7/17	935	S	S-8		Cool	-008	X	X					X			
7/17	940	S	S-9		Cool	-009	X	X					X			
7/17	945	S	S-10		Cool	-010	X	X					X			
7/17	950	S	B-1		Cool	-011	X	X					X			
7/17	955	S	B-2		Cool	-012	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/17/20	1316				7/17/20	1316
7/17/20	1754			Courier	7/18/20	1105

Remarks: PM Tom Long
PayKey GG11580

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: clients.hallenvironmental.com

July 28, 2020

Kyle Summers

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

RE: Frances Mesa CS OrderNo.: 2007C44

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/24/2020 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2007C44**
Date Reported: **7/28/2020**

CLIENT: ENSOLUM
Project: Frances Mesa CS
Lab ID: 2007C44-001 **Matrix:** SOIL

Client Sample ID: S2-a
Collection Date: 7/23/2020 9:00:00 AM
Received Date: 7/24/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	7/24/2020 10:56:51 AM	53936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/24/2020 10:17:35 AM	53934
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2020 10:17:35 AM	53934
Surr: DNOP	133	55.1-146		%Rec	1	7/24/2020 10:17:35 AM	53934
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/24/2020 11:02:45 AM	G70588
Surr: BFB	90.1	66.6-105		%Rec	1	7/24/2020 11:02:45 AM	G70588
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.019		mg/Kg	1	7/24/2020 11:02:45 AM	R70588
Toluene	ND	0.037		mg/Kg	1	7/24/2020 11:02:45 AM	R70588
Ethylbenzene	ND	0.037		mg/Kg	1	7/24/2020 11:02:45 AM	R70588
Xylenes, Total	ND	0.075		mg/Kg	1	7/24/2020 11:02:45 AM	R70588
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/24/2020 11:02:45 AM	R70588

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

Qualifiers:

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

Analytical Report
Lab Order **2007C44**
Date Reported: **7/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S3-a
Project: Frances Mesa CS
Collection Date: 7/23/2020 9:05:00 AM
Lab ID: 2007C44-002 **Matrix:** SOIL **Received Date:** 7/24/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	7/24/2020 11:09:16 AM	53936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/24/2020 10:27:28 AM	53934
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2020 10:27:28 AM	53934
Surr: DNOP	135	55.1-146		%Rec	1	7/24/2020 10:27:28 AM	53934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/24/2020 11:26:22 AM	G70588
Surr: BFB	90.6	66.6-105		%Rec	1	7/24/2020 11:26:22 AM	G70588
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	7/24/2020 11:26:22 AM	R70588
Toluene	ND	0.038		mg/Kg	1	7/24/2020 11:26:22 AM	R70588
Ethylbenzene	ND	0.038		mg/Kg	1	7/24/2020 11:26:22 AM	R70588
Xylenes, Total	ND	0.076		mg/Kg	1	7/24/2020 11:26:22 AM	R70588
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/24/2020 11:26:22 AM	R70588

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

Qualifiers:

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

Analytical Report
Lab Order **2007C44**
Date Reported: **7/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S4-a
Project: Frances Mesa CS
Collection Date: 7/23/2020 9:10:00 AM
Lab ID: 2007C44-003 **Matrix:** SOIL **Received Date:** 7/24/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	7/24/2020 11:21:40 AM	53936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	9.7	9.4		mg/Kg	1	7/24/2020 10:37:24 AM	53934
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/24/2020 10:37:24 AM	53934
Surr: DNOP	120	55.1-146		%Rec	1	7/24/2020 10:37:24 AM	53934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2020 11:49:54 AM	G70588
Surr: BFB	90.0	66.6-105		%Rec	1	7/24/2020 11:49:54 AM	G70588
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	7/24/2020 11:49:54 AM	R70588
Toluene	ND	0.048		mg/Kg	1	7/24/2020 11:49:54 AM	R70588
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2020 11:49:54 AM	R70588
Xylenes, Total	ND	0.095		mg/Kg	1	7/24/2020 11:49:54 AM	R70588
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	7/24/2020 11:49:54 AM	R70588

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

Qualifiers:

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

Analytical Report
Lab Order **2007C44**
Date Reported: **7/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S6-a
Project: Frances Mesa CS
Collection Date: 7/23/2020 9:15:00 AM
Lab ID: 2007C44-004 **Matrix:** SOIL **Received Date:** 7/24/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	7/24/2020 11:34:04 AM	53936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/24/2020 7:45:05 PM	53934
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/24/2020 7:45:05 PM	53934
Surr: DNOP	87.7	30.4-154		%Rec	1	7/24/2020 7:45:05 PM	53934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/24/2020 12:13:22 PM	G70588
Surr: BFB	91.5	66.6-105		%Rec	1	7/24/2020 12:13:22 PM	G70588
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.018		mg/Kg	1	7/24/2020 12:13:22 PM	R70588
Toluene	ND	0.037		mg/Kg	1	7/24/2020 12:13:22 PM	R70588
Ethylbenzene	ND	0.037		mg/Kg	1	7/24/2020 12:13:22 PM	R70588
Xylenes, Total	ND	0.074		mg/Kg	1	7/24/2020 12:13:22 PM	R70588
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/24/2020 12:13:22 PM	R70588

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

Qualifiers:

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

Analytical Report
Lab Order **2007C44**
Date Reported: **7/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S7-a
Project: Frances Mesa CS
Collection Date: 7/23/2020 9:20:00 AM
Lab ID: 2007C44-005 **Matrix:** SOIL **Received Date:** 7/24/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	7/24/2020 11:46:29 AM	53936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/24/2020 8:09:12 PM	53934
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2020 8:09:12 PM	53934
Surr: DNOP	91.7	30.4-154		%Rec	1	7/24/2020 8:09:12 PM	53934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/24/2020 12:36:57 PM	G70588
Surr: BFB	89.4	66.6-105		%Rec	1	7/24/2020 12:36:57 PM	G70588
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.016		mg/Kg	1	7/24/2020 12:36:57 PM	R70588
Toluene	ND	0.033		mg/Kg	1	7/24/2020 12:36:57 PM	R70588
Ethylbenzene	ND	0.033		mg/Kg	1	7/24/2020 12:36:57 PM	R70588
Xylenes, Total	ND	0.066		mg/Kg	1	7/24/2020 12:36:57 PM	R70588
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/24/2020 12:36:57 PM	R70588

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

Qualifiers:

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

Analytical Report
Lab Order **2007C44**
Date Reported: **7/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S8-a
Project: Frances Mesa CS
Collection Date: 7/23/2020 9:25:00 AM
Lab ID: 2007C44-006 **Matrix:** SOIL **Received Date:** 7/24/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	7/24/2020 11:58:53 AM	53936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/24/2020 8:33:25 PM	53934
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/24/2020 8:33:25 PM	53934
Surr: DNOP	96.0	30.4-154		%Rec	1	7/24/2020 8:33:25 PM	53934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	7/24/2020 1:00:34 PM	G70588
Surr: BFB	90.9	66.6-105		%Rec	1	7/24/2020 1:00:34 PM	G70588
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.017		mg/Kg	1	7/24/2020 1:00:34 PM	R70588
Toluene	ND	0.034		mg/Kg	1	7/24/2020 1:00:34 PM	R70588
Ethylbenzene	ND	0.034		mg/Kg	1	7/24/2020 1:00:34 PM	R70588
Xylenes, Total	ND	0.068		mg/Kg	1	7/24/2020 1:00:34 PM	R70588
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/24/2020 1:00:34 PM	R70588

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

Qualifiers:

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

Analytical Report
Lab Order **2007C44**
Date Reported: **7/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S9-a
Project: Frances Mesa CS
Collection Date: 7/23/2020 9:30:00 AM
Lab ID: 2007C44-007 **Matrix:** SOIL **Received Date:** 7/24/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	7/24/2020 12:11:18 PM	53936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/24/2020 11:17:17 AM	53934
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/24/2020 11:17:17 AM	53934
Surr: DNOP	124	55.1-146		%Rec	1	7/24/2020 11:17:17 AM	53934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/24/2020 1:24:03 PM	G70588
Surr: BFB	95.6	66.6-105		%Rec	1	7/24/2020 1:24:03 PM	G70588
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	7/24/2020 1:24:03 PM	R70588
Toluene	ND	0.047		mg/Kg	1	7/24/2020 1:24:03 PM	R70588
Ethylbenzene	ND	0.047		mg/Kg	1	7/24/2020 1:24:03 PM	R70588
Xylenes, Total	ND	0.093		mg/Kg	1	7/24/2020 1:24:03 PM	R70588
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	7/24/2020 1:24:03 PM	R70588

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

Qualifiers:

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

Analytical Report
Lab Order **2007C44**
Date Reported: **7/28/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S10-a
Project: Frances Mesa CS
Collection Date: 7/23/2020 9:35:00 AM
Lab ID: 2007C44-008 **Matrix:** SOIL **Received Date:** 7/24/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	7/24/2020 12:23:42 PM	53936
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/24/2020 11:27:17 AM	53934
Motor Oil Range Organics (MRO)	210	46		mg/Kg	1	7/24/2020 11:27:17 AM	53934
Surr: DNOP	122	55.1-146		%Rec	1	7/24/2020 11:27:17 AM	53934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/24/2020 1:47:35 PM	G70588
Surr: BFB	93.4	66.6-105		%Rec	1	7/24/2020 1:47:35 PM	G70588
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.018		mg/Kg	1	7/24/2020 1:47:35 PM	R70588
Toluene	ND	0.035		mg/Kg	1	7/24/2020 1:47:35 PM	R70588
Ethylbenzene	ND	0.035		mg/Kg	1	7/24/2020 1:47:35 PM	R70588
Xylenes, Total	ND	0.070		mg/Kg	1	7/24/2020 1:47:35 PM	R70588
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/24/2020 1:47:35 PM	R70588

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C44**
28-Jul-20

Client: ENSOLUM
Project: Frances Mesa CS

Sample ID: **MB-53936**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **53936**	RunNo: **70587**							
Prep Date: **7/24/2020**	Analysis Date: **7/24/2020**	SeqNo: **2456086**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53936**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **53936**	RunNo: **70587**							
Prep Date: **7/24/2020**	Analysis Date: **7/24/2020**	SeqNo: **2456087**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C44**

28-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **LCS-53926** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **53926** RunNo: **70581**
Prep Date: **7/23/2020** Analysis Date: **7/24/2020** SeqNo: **2455254** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.8		5.000		117	55.1	146			

Sample ID: **MB-53926** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **53926** RunNo: **70581**
Prep Date: **7/23/2020** Analysis Date: **7/24/2020** SeqNo: **2455255** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		127	55.1	146			

Sample ID: **LCS-53934** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **53934** RunNo: **70585**
Prep Date: **7/24/2020** Analysis Date: **7/24/2020** SeqNo: **2455335** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	70	130			
Surr: DNOP	5.4		5.000		107	55.1	146			

Sample ID: **MB-53934** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **53934** RunNo: **70585**
Prep Date: **7/24/2020** Analysis Date: **7/24/2020** SeqNo: **2455336** 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	12		10.00		115	55.1	146			

Sample ID: **2007C44-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S2-a** Batch ID: **53934** RunNo: **70585**
Prep Date: **7/24/2020** Analysis Date: **7/24/2020** SeqNo: **2458269** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.7	48.50	4.182	109	47.4	136			
Surr: DNOP	6.1		4.850		126	30.4	154			

Sample ID: **2007C44-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S2-a** Batch ID: **53934** RunNo: **70585**
Prep Date: **7/24/2020** Analysis Date: **7/24/2020** SeqNo: **2458270** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	9.7	48.59	4.182	118	47.4	136	7.96	43.4	

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C44**
28-Jul-20

Client: ENSOLUM
Project: Frances Mesa CS

Sample ID: **2007C44-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S2-a** Batch ID: **53934** RunNo: **70585**
Prep Date: **7/24/2020** Analysis Date: **7/24/2020** SeqNo: **2458270** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.2		4.859		148	30.4	154	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C44**

28-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

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

Client ID: **LCSS** Batch ID: **G70588** RunNo: **70588**

Prep Date: Analysis Date: **7/24/2020** SeqNo: **2455376** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.8	72.5	106			
Surr: BFB	1000		1000		102	66.6	105			

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

Client ID: **PBS** Batch ID: **G70588** RunNo: **70588**

Prep Date: Analysis Date: **7/24/2020** SeqNo: **2455386** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	66.6	105			

Sample ID: **2007c44-001ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **S2-a** Batch ID: **G70588** RunNo: **70588**

Prep Date: Analysis Date: **7/24/2020** SeqNo: **2455821** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.7	18.64	0	81.7	61.3	114			
Surr: BFB	770		745.7		104	66.6	105			

Sample ID: **2007c44-001amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **S2-a** Batch ID: **G70588** RunNo: **70588**

Prep Date: Analysis Date: **7/24/2020** SeqNo: **2455822** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.7	18.64	0	82.5	61.3	114	0.975	20	
Surr: BFB	840		745.7		113	66.6	105	0	0	S

Sample ID: **lcs-53918** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **53918** RunNo: **70588**

Prep Date: **7/23/2020** Analysis Date: **7/24/2020** SeqNo: **2455823** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		105	66.6	105			S

Sample ID: **lcs-53930** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **53930** RunNo: **70588**

Prep Date: **7/23/2020** Analysis Date: **7/25/2020** SeqNo: **2455824** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		100	66.6	105			

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C44**

28-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **mb-53918**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **53918**	RunNo: **70588**
Prep Date: **7/23/2020**	Analysis Date: **7/24/2020**	SeqNo: **2455825** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.1	66.6	105			

Sample ID: **mb-53930**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **53930**	RunNo: **70588**
Prep Date: **7/23/2020**	Analysis Date: **7/25/2020**	SeqNo: **2455826** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		91.5	66.6	105			

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C44**
28-Jul-20

Client: ENSOLUM
Project: Frances Mesa CS

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **R70588** RunNo: **70588**
Prep Date: Analysis Date: **7/24/2020** SeqNo: **2455388** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.0	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **R70588** RunNo: **70588**
Prep Date: Analysis Date: **7/24/2020** SeqNo: **2455397** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID: **2007c44-002ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S3-a** Batch ID: **R70588** RunNo: **70588**
Prep Date: Analysis Date: **7/24/2020** SeqNo: **2455878** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	78.5	119			
Toluene	0.99	0.050	1.000	0	98.7	75.7	123			
Ethylbenzene	1.0	0.050	1.000	0	99.7	74.3	126			
Xylenes, Total	3.0	0.10	3.000	0	101	72.9	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID: **2007c44-002amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S3-a** Batch ID: **R70588** RunNo: **70588**
Prep Date: Analysis Date: **7/24/2020** SeqNo: **2455879** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.6	78.5	119	1.30	20	
Toluene	0.96	0.050	1.000	0	96.1	75.7	123	2.74	20	
Ethylbenzene	0.98	0.050	1.000	0	97.8	74.3	126	1.91	20	
Xylenes, Total	3.0	0.10	3.000	0	98.5	72.9	130	2.26	20	
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007C44**

28-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **LCS-53918** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **53918** RunNo: **70588**

Prep Date: **7/23/2020** Analysis Date: **7/24/2020** SeqNo: **2455880** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID: **LCS-53930** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **53930** RunNo: **70588**

Prep Date: **7/23/2020** Analysis Date: **7/25/2020** SeqNo: **2455881** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: **mb-53918** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **53918** RunNo: **70588**

Prep Date: **7/23/2020** Analysis Date: **7/24/2020** SeqNo: **2455882** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: **mb-53930** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **53930** RunNo: **70588**

Prep Date: **7/23/2020** Analysis Date: **7/25/2020** SeqNo: **2455883** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2007C44** RcptNo: 1

Received By: **Cheyenne Cason** **7/24/2020 8:10:00 AM**

Completed By: **Emily Mocho** **7/24/2020 8:16:13 AM**

Reviewed By: DAD 7/24/20

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 CMC 7/23/20

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	4.8	Good	Yes			

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: 160 Hr
☐ Standard ☒ Rush 7-24-20

Project Name: Frances Mesa CS

Project #: 05A1226112

Project Manager: K Summers

Sampler: C Aponti L Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4.8+0 = 4.8

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. 2007644	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)
7/23	900	S	S2-a	1 4oz Jar	Cool	-001	X	X					X			
7/23	905	S	S3-a		Cool	-002	X	X					X			
7/23	910	S	S4-a		Cool	-003	X	X					X			
7/23	915	S	S6-a		Cool	-004	X	X					X			
7/23	920	S	S7-a		Cool	-005	X	X					X			
7/23	925	S	S8-a		Cool	-006	X	X					X			
7/23	930	S	S9-a		Cool	-007	X	X					X			
7/23	935	S	S10-a		Cool	-008	X	X					X			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/23/20	1411		Christine Walters		7/23/2020	1411
7/23/2020	1753	Christine Walters		Courier	7/24/20	0810

Remarks: PM Tom Long
Pay Key GG 11580

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: clients.hallenvironmental.com

July 29, 2020

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

RE: Frances Mesa CS OrderNo.: 2007D69

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/28/2020 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 **2007D69**
Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Project: Frances Mesa CS
Lab ID: 2007D69-001 **Matrix:** SOIL

Client Sample ID: S10-B
Collection Date: 7/27/2020 11:00:00 AM
Received Date: 7/28/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/28/2020 1:48:43 PM	54005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/28/2020 9:51:37 AM	54003
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/28/2020 9:51:37 AM	54003
Surr: DNOP	108	30.4-154		%Rec	1	7/28/2020 9:51:37 AM	54003
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/28/2020 11:06:11 AM	53975
Surr: BFB	88.9	66.6-105		%Rec	1	7/28/2020 11:06:11 AM	53975
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	7/28/2020 11:06:11 AM	53975
Toluene	ND	0.038		mg/Kg	1	7/28/2020 11:06:11 AM	53975
Ethylbenzene	ND	0.038		mg/Kg	1	7/28/2020 11:06:11 AM	53975
Xylenes, Total	ND	0.076		mg/Kg	1	7/28/2020 11:06:11 AM	53975
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/28/2020 11:06:11 AM	53975

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007D69**

29-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **MB-54005**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **54005**	RunNo: **70653**							
Prep Date: **7/28/2020**	Analysis Date: **7/28/2020**	SeqNo: **2459753**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-54005**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **54005**	RunNo: **70653**							
Prep Date: **7/28/2020**	Analysis Date: **7/28/2020**	SeqNo: **2459754**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007D69**

29-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **MB-54003**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **54003**	RunNo: **70648**
Prep Date: **7/28/2020**	Analysis Date: **7/28/2020**	SeqNo: **2458625** 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	9.8		10.00		97.5	30.4	154			

Sample ID: **LCS-54003**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **54003**	RunNo: **70648**
Prep Date: **7/28/2020**	Analysis Date: **7/28/2020**	SeqNo: **2458627** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	4.8		5.000		95.7	30.4	154			

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007D69**
29-Jul-20

Client: ENSOLUM
Project: Frances Mesa CS

Sample ID: **mb-53975** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **53975** RunNo: **70649**
Prep Date: **7/27/2020** Analysis Date: **7/28/2020** SeqNo: **2458870** 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	870		1000		87.0	66.6	105			

Sample ID: **lcs-53975** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **53975** RunNo: **70649**
Prep Date: **7/27/2020** Analysis Date: **7/28/2020** SeqNo: **2458871** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	77.7	72.5	106			
Surr: BFB	950		1000		94.8	66.6	105			

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007D69**

29-Jul-20

Client: ENSOLUM

Project: Frances Mesa CS

Sample ID: **mb-53975** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **53975** RunNo: **70649**

Prep Date: **7/27/2020** Analysis Date: **7/28/2020** SeqNo: **2458896** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: **LCS-53975** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **53975** RunNo: **70649**

Prep Date: **7/27/2020** Analysis Date: **7/28/2020** SeqNo: **2458897** 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	83.9	80	120			
Toluene	0.85	0.050	1.000	0	85.3	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2007D69** RcptNo: **1**

Received By: **Emily Mocho** **7/28/2020 8:15:00 AM**

Completed By: **Emily Mocho** **7/28/2020 8:38:01 AM**

Reviewed By: SPA 7.28.20 8:50

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: CMC 11/2/20

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	5.5	Good	Not Present			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suite A 87410

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 100% Same Day
☐ Standard ☒ Rush 7-28-20

Project Name: Frances Mesa CS

Project #: 05A1226112

Project Manager: K Summers

Sampler: C Apodaca

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.5 ±0 = 5.5 (°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. 2007D69	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)
7/27	1100	S	S10-6	1 4oz Jar	Cool	-001	X	X					X			

Analysis Request

Relinquished by:	Received by:	Via:	Date	Time
Date: 7/27/20 Time: 1348	Christin Wade		7/27/2020	1348
Date: 7/27/2020 Time: 1811 Christin Wadeas	EKM	courier	7/28/20	8:15

Remarks: PM - Tom Long
Pay Key GG 11580
send PDF

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.

ENSOLUM

APPENDIX G

Regulatory Correspondence

From: Long, Thomas
To: "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"; kwchristesen@blm.gov
Cc: Stone, Brian
Subject: FW: Frances Mesa Compressor Station - UL K Section 27 T30N R7W; 36.780479, -107.562231
Date: Monday, July 27, 2020 7:09:00 AM
Attachments: Frances Msea.jpg
Frances Mesa CS.pdf

Cory/Kenneth,

Please find the attached site sketch and lab report for the Frances Mesa Compressor Station excavation. One sample still exceeds NMOCD Tier I standards. Enterprise will be excavating in the area of S-10a and resampling today, July 27, 2020 around 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

Enterprise Products

From: Long, Thomas
Sent: Wednesday, July 22, 2020 9:42 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; kwchristesen@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Frances Mesa Compressor Station - UL K Section 27 T30N R7W; 36.780479, -107.562231

Cory/Kenneth,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis tomorrow, July 23, 2020 at the Frances Mesa Compressor Station excavation at 9:00 a.m. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)

505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Monday, July 20, 2020 1:41 PM
To: Long, Thomas <tjlong@eprod.com>; kwchristesen@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] RE: Frances Mesa Compressor Station - UL K Section 27 T30N R7W; 36.780479, -107.562231

[Use caution with links/attachments]
Tom,

Thanks for the update, good to see B1/B2 pass I was a bit concerned with the stained soils/over spray.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, July 20, 2020 1:29 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; kwchristesen@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] FW: Frances Mesa Compressor Station - UL K Section 27 T30N R7W; 36.780479, -107.562231

Cory/Kenneth,

Please find the attached site sketch, GE map and lab report for the Frances Mesas sampling. We have many samples that exceed NMOCD Tier I standards. We will be continuing remediation activities tomorrow. I will keep you informed as to when we will be collecting soil samples for laboratory analysis. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist

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

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, July 16, 2020 11:52 AM
To: EMNRD Smith Cory <Cory.Smith@state.nm.us>; kwchristesen@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Fwd: Frances Mesa Compressor Station - UL K Section 27 T30N R7W; 36.780479, -107.562231

Cory/Kenneth,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis tomorrow, July 17, 2020 at the Frances Mesa Compressor Station excavation at 9:00 a.m. If you have any questions, please call or email.

Tom Long

Begin forwarded message:

> **From:** "Long, Thomas" <tjlong@eprod.com>
> **Date:** July 12, 2020 at 2:10:00 PM MDT
> **To:** "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)" <Cory.Smith@state.nm.us>, "kwchristesen@blm.gov" <kwchristesen@blm.gov>
> **Cc:** "Stone, Brian" <bmstone@eprod.com>
> **Subject: Frances Mesa Compressor Station - UL K Section 27 T30N R7W; 36.780479, -107.562231**
>
> Cory/Kenneth,
>
> This is a follow up to our phone conversation earlier today. Entperise had a release of produced water and condensate at Frances Mesa Compressor Station this morning. The release is a result of the ESD event and the fluids being ejected from the facility ESD vent. An area or approximately 150 feet long by 70 feet wide was affected by the released fluids. All fluids remained of the facility property. No washes have been affected. Entperise has mobilized a contractor to recover the standing liquids as much

as practicable. The release site is located at UL K Section 27 T30N R7W; 36.780479, -107.562231. I will keep you informed as to when remediation activities are scheduled. If you have any questions, please call or email.

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CONDITIONS

Action 11074

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 11074
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	4/26/2022