

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	


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: Robert Dunaway Title: Senior Environmental Engineer
Signature:  Date: 7/11/23
email: rhunaway@eprod.com Telephone: 575-628-6802

Incident ID	Page 2 of 51
District RP	
Facility ID	
Application ID	

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: Ashley Maxwell Date: 11/28/2023Printed Name: Ashley Maxwell Title: Environmental Specialist



CLOSURE REPORT

Property:

B-6 Lateral

**Unit D, S09, T21S, R27E
32.50007° N, 104.199338° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2315233794**

July 10, 2023
Ensolum Project No. 03B1226248

Prepared for:

**Enterprise Field Services, LLC
PO Box 4324
Houston, TX 77210**

Attn: Robert Dunaway

Prepared by:

Kelly Lowery, GIT
Project Manager

Beaux Jennings
Senior Project Manager



TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	SITE DESCRIPTION & BACKGROUND	1
1.2	PROJECT OBJECTIVE.....	1
2.0	CLOSURE CRITERIA.....	1
3.0	SOIL REMEDIATION ACTIVITIES	3
4.0	SOIL SAMPLING PROGRAM	3
5.0	SOIL LABORATORY ANALYTICAL METHODS.....	3
6.0	DATA EVALUATION	4
7.0	RECLAMATION AND RE-VEGETATION	4
8.0	FINDINGS AND RECOMMENDATION	4
9.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE	5
9.1	STANDARD OF CARE.....	5
9.2	LIMITATIONS	6
9.3	RELIANCE	6

LIST OF APPENDICES

Appendix A: Figures

Appendix B: Supporting Documentation

Appendix C: Photographic Documentation

Appendix D: Table

Appendix E: Laboratory Data Sheets & Chain-of-Custody Documentation

Appendix F: C-141



CLOSURE REPORT

B-6 Lateral

Unit D, S09, T21S, R27E
32.50007° N, 104.199338° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2315233794

Ensolum Project No. 03B1226248

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC (Enterprise)
Site Name:	B-6 Lateral
Location:	Unit D, Section 09, Township 21 South, Range 27 East 32.50007° N, 104.199338° W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On May 28, 2023, a leak was identified on the B-6 lateral gathering pipeline was discovered. Approximately 360 thousand cubic feet (MCF) of natural gas was released to the atmosphere, along with 5 barrels (bbls) of condensate released onto the ground surface, with 0 bbls recovered. Enterprise reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on June 1, 2023. The release was subsequently assigned Incident Number nAPP2315233794.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **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 concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, 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. The gas portion of this release constitutes venting that occurred during an emergency or a malfunction, as authorized by the New Mexico OCD regulations at NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A.



Supporting documentation and figures associated with the following bullets are provided in **Appendix B**. One exploratory water well was identified adjacent west to the Site on the OSE Water Rights Reporting System (WRRS) database.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution or church.
- According to the OSE WRRS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRRS database there are no freshwater wells 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 NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland. However, a riverine intermittent streambed wetland is located approximately 325 feet to the northwest of the Site.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is located within a moderately unstable area, also referred to as medium karst.
- 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			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On May 28, 2023, a leak was identified on the B-6 lateral gathering pipeline was discovered. Approximately 360 MCF of natural gas was released to the atmosphere, along with 5 bbls of condensate released onto the ground surface, with 0 bbls recovered. Following submittal of an emergency New Mexico One-Call (NM-811), corrective action activities were commenced by New Mexico Rental Pipeline, LLC (NMR) utilizing a backhoe to excavate soils from the release area.

On June 8, 2023, Ensolum arrived on-Site to collect two composite soil samples from the excavation floor (FS-01 and FS-02) and four composite soil samples from the excavation sidewalls (SW-01 through SW-04). The composite floor samples were collected at a depth of 10 feet below ground surface (bgs) and the composite sidewall samples were collected at a depth of 0-10 feet bgs. Additionally, four confirmation delineation samples were collected outside of the excavation area (North, East, South and West) at a depth of 0-0.25 feet bgs. In addition, two composite soil stockpile samples were collected from the excavated soil stockpiles staged on-Site (SP-01 and SP-02).

The composite and confirmation soil samples were analyzed for total benzene, benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil/lube oil range organics (MRO), and chloride in accordance with the New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation area measured approximately 40 feet long and 20 to 35 feet wide at the maximum extents, with a depth of 10 feet bgs.

The lithology encountered during the completion of closure activities consisted primarily of unconsolidated silty sand.

A total of approximately 300 cubic yards of petroleum hydrocarbon affected soils were excavated from the Site and transported to the Lea Land, LLC facility in Carlsbad, New Mexico. The excavation extent will be backfilled with clean imported fill, contoured to the original surrounding grade, and a BLM approved seed mixture will be sown into the surface area of the backfill for re-vegetation.

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

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program on June 8, 2023 included the collection of a total of six composite soil samples from the excavation floor and sidewalls (FS-01, FS-02, and SW-01 through SW-04), four confirmation delineation soil samples from four locations outside of the excavation area (North, East, South and West), and two composite soil stockpile samples from the excavation soil stockpiles staged on-Site (SP-01 and SP-02) for laboratory analysis.

The composite and confirmation soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO using EPA SW-846 Method 8015M, and chloride using EPA Method SM4500Cl-B.

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



6.0 DATA EVALUATION

Ensolum compared the total benzene, BTEX, TPH GRO/DRO/MRO, and chloride concentrations or laboratory sample detection limits (SDLs) associated with the composite soil samples (FS-01, FS-02, SW-01 through SW-04, SP-1 and SP-02) and the confirmation soil samples (North, East, South, and West) to the NMOCD Closure Criteria.

- Laboratory analytical results indicate total benzene concentrations for the composite soil samples collected from the excavation area and the confirmation delineation samples outside of the impacted area do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate total benzene concentrations for the composite soil samples collected from the stockpiles staged on-Site do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 10 mg/kg.
- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples collected from the excavation area and the confirmation delineation samples outside of the impacted area do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples collected from the stockpiles staged on-Site do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite soil samples collected from the excavation area and the confirmation delineation samples outside of the impacted area are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite soil samples collected from the stockpiles staged on-Site are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet.
- Laboratory analytical results indicate chloride concentrations for the composite soil samples collected from the excavation area and the confirmation delineation samples outside of the impacted area do not exceed the laboratory SDLs and/or NMOCD Closure Criteria of 600 mg/kg from ≤50 feet.
- Laboratory analytical results indicate chloride concentrations for the composite soil samples collected from the stockpiles staged on-Site do not exceed the NMOCD Closure Criteria of 600 mg/kg from ≤50 feet.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal. The excavation area will be backfilled with clean fill material, and then contoured to the original surrounding grade. Once the areas are brought back to original grade, a BLM approved seed mixture will be sown into the surface of the backfill for re-vegetation.

8.0 FINDINGS AND RECOMMENDATION

- On May 28, 2023, a leak was identified on the B-6 lateral gathering pipeline was discovered. Approximately 360 MCF of natural gas was released to the atmosphere, along with 5 bbls of condensate released onto the ground surface, with 0 bbls recovered.



- Following submittal of an emergency New Mexico One-Call (NM-811), corrective action activities were commenced by NMR utilizing a backhoe to excavate soils from the release area.
- On June 8, 2023, Ensolum arrived on-Site to collect two composite soil samples from the excavation floor (FS-01 and FS-02) and four composite soil samples from the excavation sidewalls (SW-01 through SW-04). The composite floor samples were collected at a depth of 10 feet bgs and the composite sidewall samples were collected at a depth of 0-10 feet bgs. Additionally, four confirmation delineation samples were collected outside of the excavation area (North, East, South and West) at a depth of 0-0.25 feet bgs. In addition, two composite soil stockpile samples were collected from the excavated soil stockpiles staged on-Site (SP-01 and SP-02).
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 40 feet long and 20 to 35 feet wide at the maximum extents, with a depth of 10 feet bgs.
- A total of six composite soil samples from the excavation floor and sidewalls (FS-01, FS-02, and SW-01 through SW-04), four confirmation delineation soil samples from four locations outside of the excavation area (North, East, South and West), and two composite soil stockpile samples from the excavation soil stockpiles staged on-Site (SP-01 and SP-02) were collected for laboratory analysis.
- Based on the laboratory analytical results, the composite and confirmation soil samples collected from the excavation area and the delineation samples outside of the impacted area did not exhibit total benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Based on the laboratory analytical results, the composite soil samples collected from the soil stockpiles staged on-Site did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the composite and confirmation soil sampling, the soil stockpiles staged on-Site were removed and taken off-Site for proper disposal. A total of approximately 300 cubic yards of soils were excavated and transported to the Lea Land, LLC facility in Carlsbad, New Mexico. The excavation area will be backfilled with clean fill material, contoured to the original surrounding grade, and a BLM approved seed mixture will be sown into the surface area of the backfill for re-vegetation.

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). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

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 recommendations are based solely upon data available to Ensolum at the time of these services.

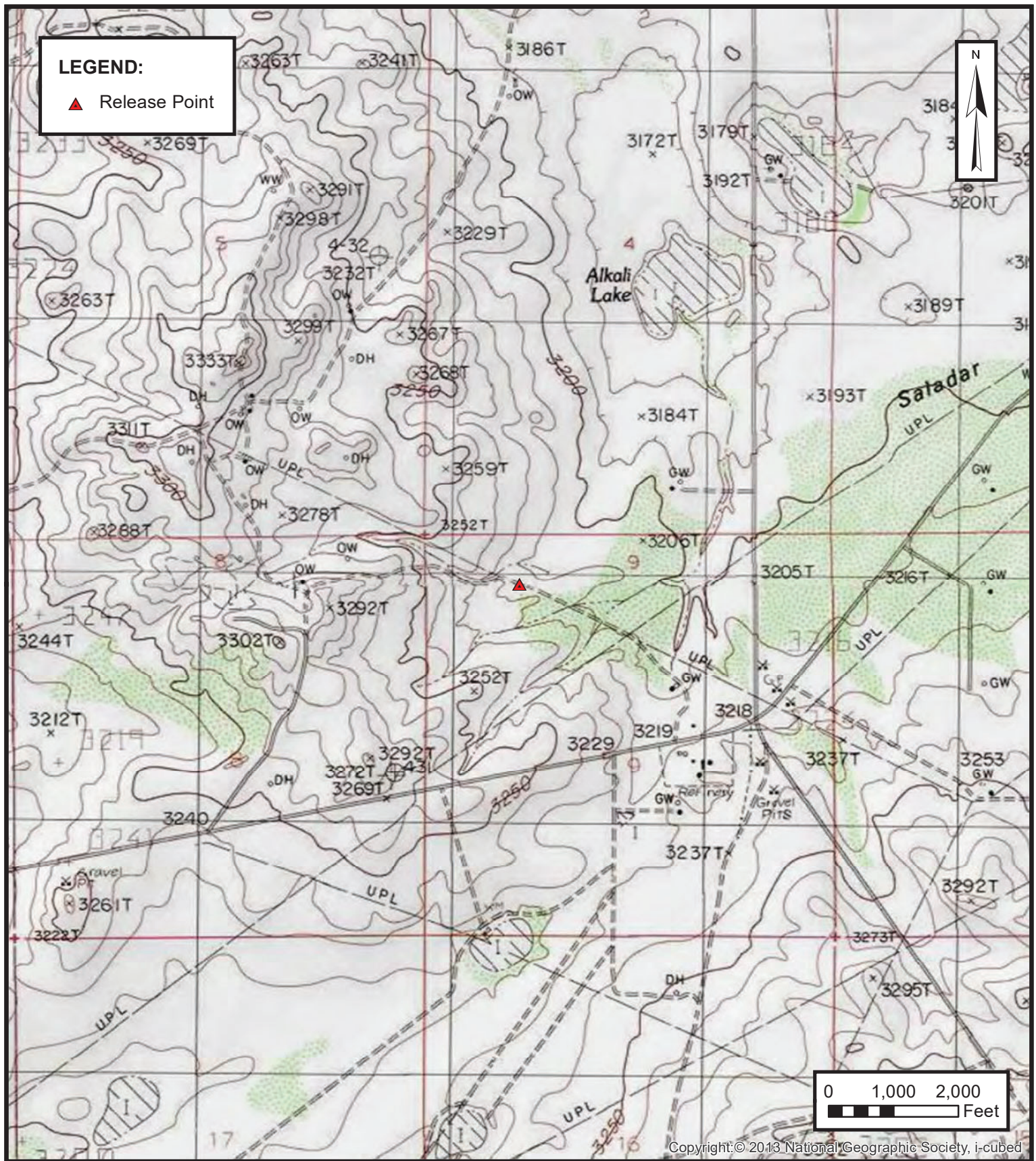
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Field Services, LLC, 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 Enterprise Field Services, LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures



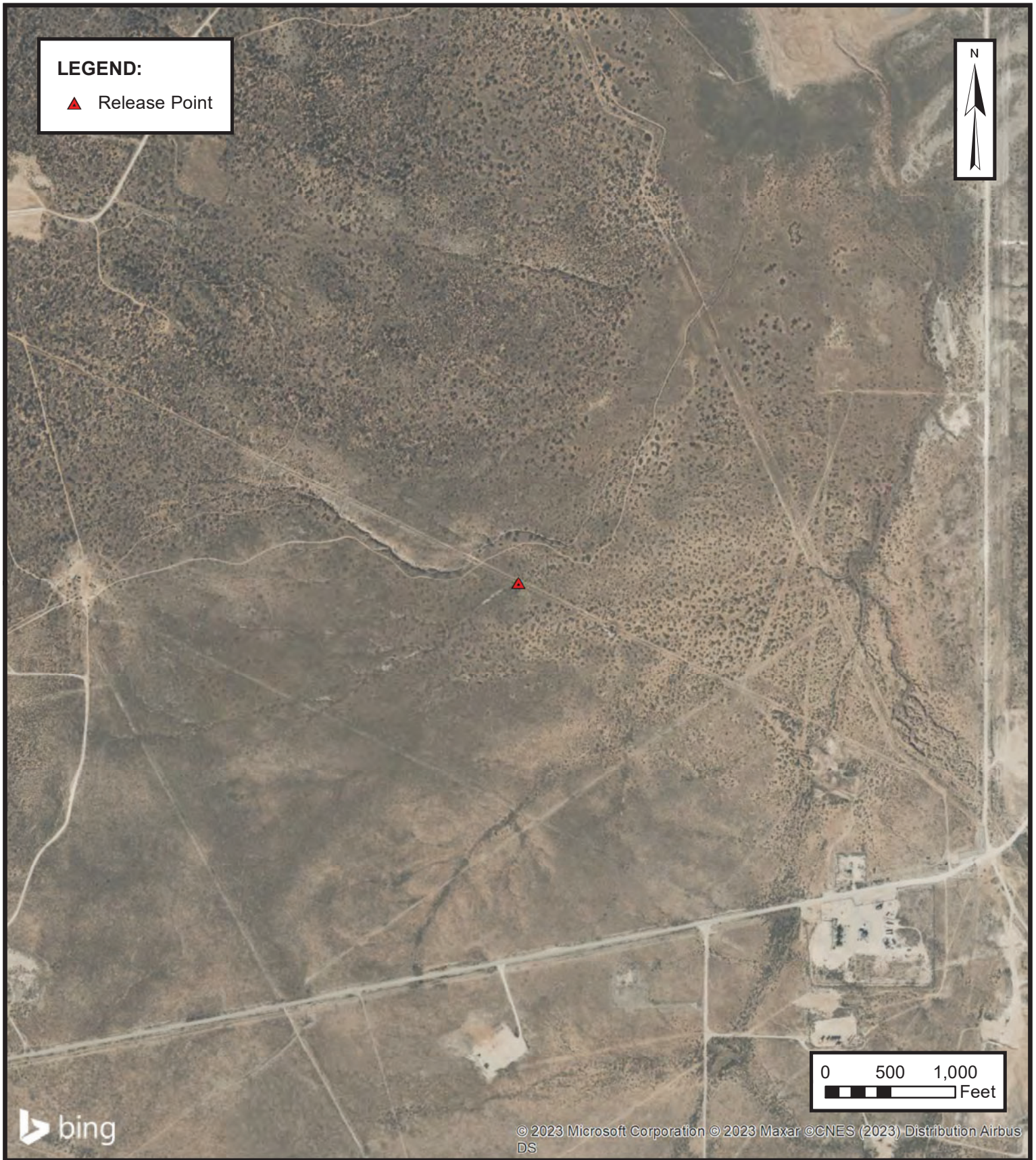
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
B-6 LATERAL
Eddy County, New Mexico
32.50007° N, 104.199338° W

PROJECT NUMBER: 03B1226248

FIGURE

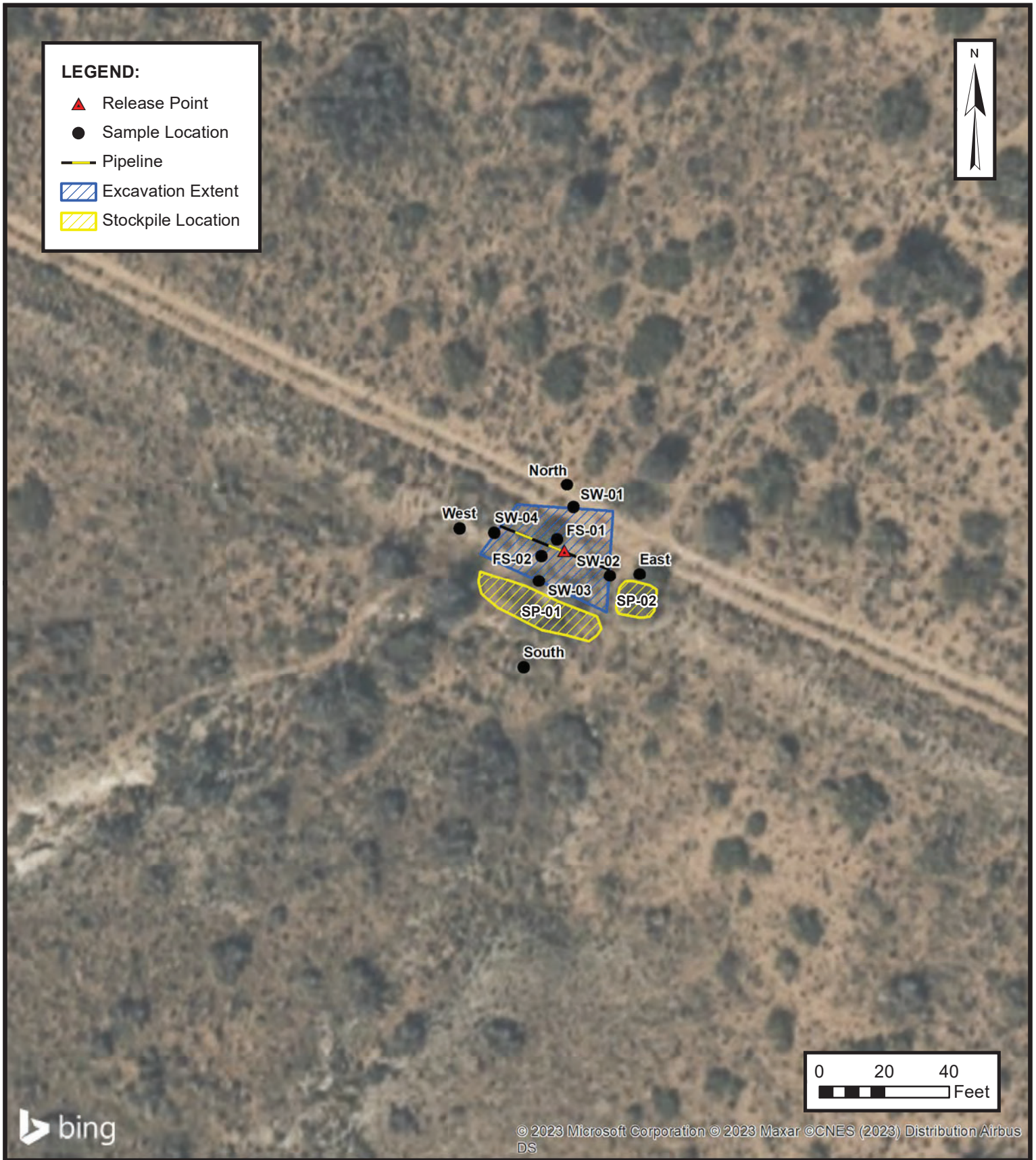
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SITE VICINITY MAP
ENTERPRISE FIELD SERVICES, LLC
B-6 LATERAL
Eddy County, New Mexico
32.50007° N, 104.199338° W

PROJECT NUMBER: 03B1226248

FIGURE
2

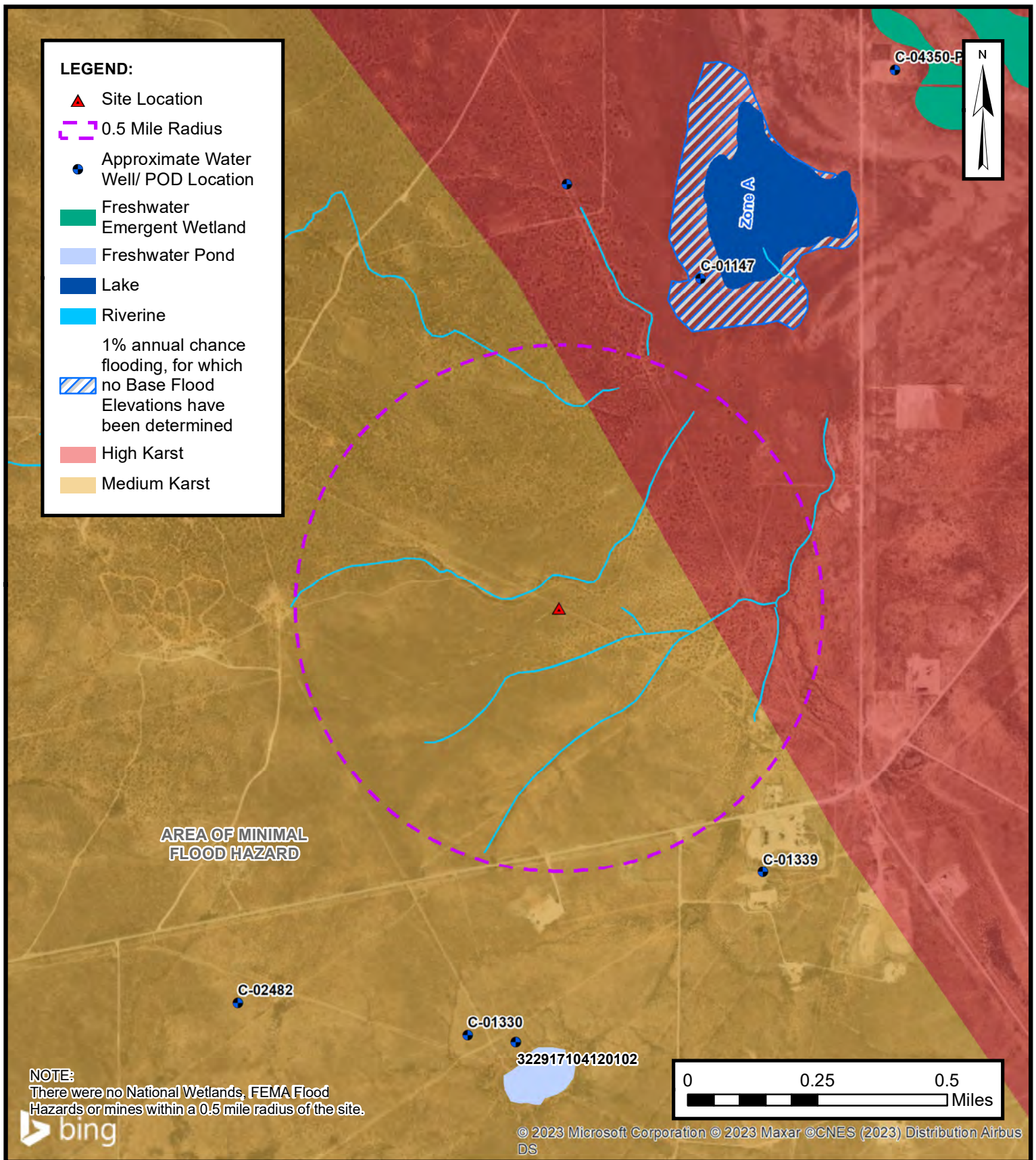


SITE MAP

ENTERPRISE FIELD SERVICES, LLC
B-6 LATERAL
Eddy County, New Mexico
32.50007° N, 104.199338° W

PROJECT NUMBER: 03B1226248

FIGURE
3



CLOSURE CRITERIA MAP
 ENTERPRISE FIELD SERVICES, LLC
 B-6 LATERAL
 Eddy County, New Mexico
 32.50007° N, 104.199338° W

PROJECT NUMBER: 03B1226248

FIGURE
4



APPENDIX B

Supporting Documentation

Kelly Lowery

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, June 6, 2023 10:21 AM
To: Kelly Lowery
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] B-6 Lateral (Incident ID #nAPP2315233794)

[**EXTERNAL EMAIL**]

Kelly,

Kelly,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Kelly Lowery <klowery@ensolum.com>
Sent: Monday, June 5, 2023 2:44 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dunaway, Robert <rhodunaway@eprod.com>
Subject: [EXTERNAL] B-6 Lateral (Incident ID #nAPP2315233794)

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

Good afternoon,

On behalf of Enterprise Field Services, LLC, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the B-6 Lateral (Incident ID #nAPP2315233794) on Thursday, June 8th. The samples may be used for closure, providing that they meet applicable closure limits.

Thank you



Kelly Lowery, GIT

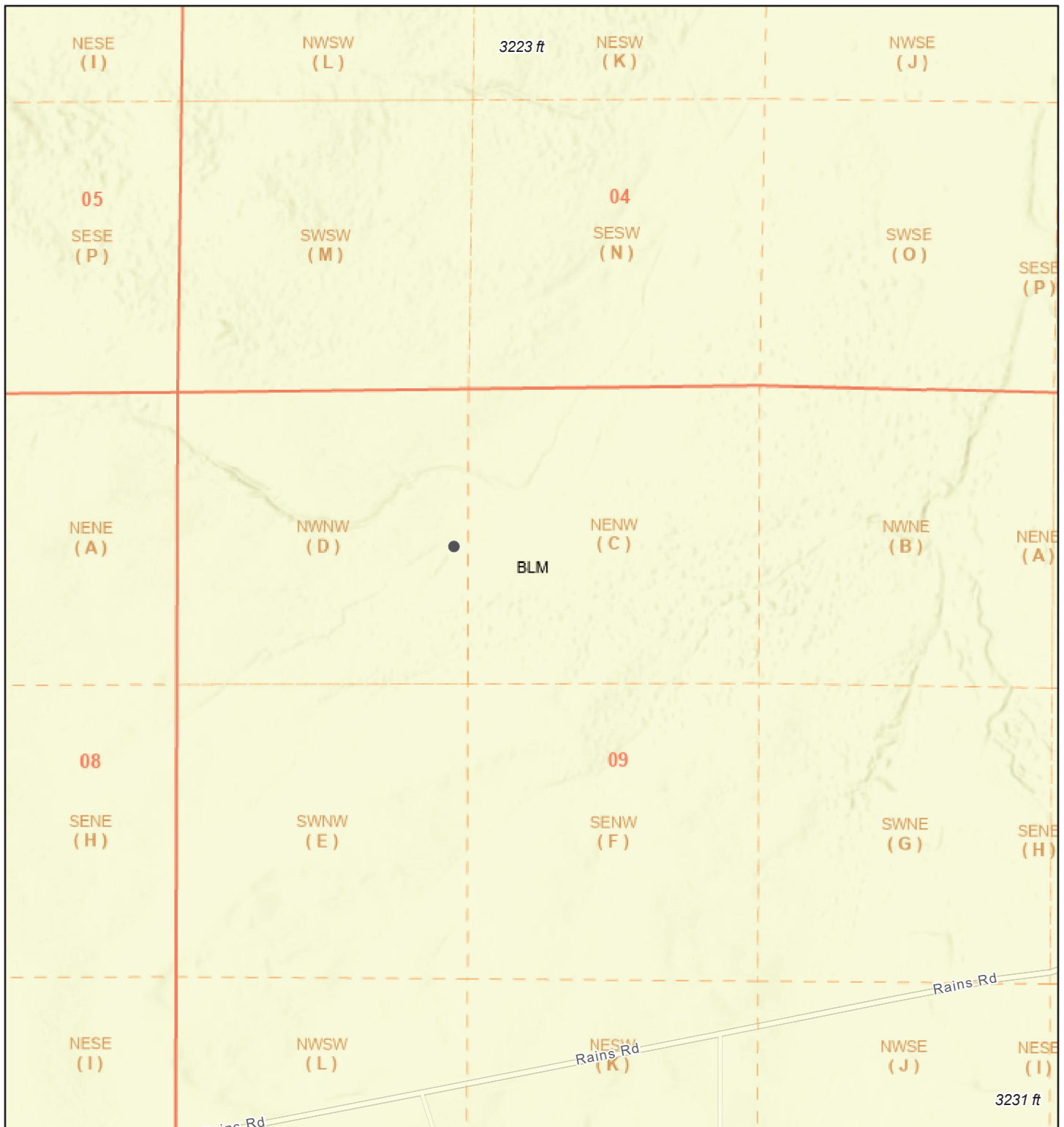
Staff Geologist

214-733-3165

Ensolum, LLC

in f 

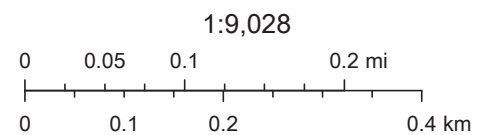
Active Mines in New Mexico



6/2/2023, 2:49:56 PM

Land Ownership

- BLM
- PLSS Second Division
- PLSS First Division



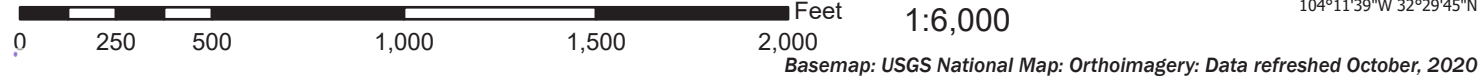
U.S. BLM, Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau,

EMNRD MMD GIS Coordinator

National Flood Hazard Layer FIRMMette



104°12'17"W 32°30'16"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

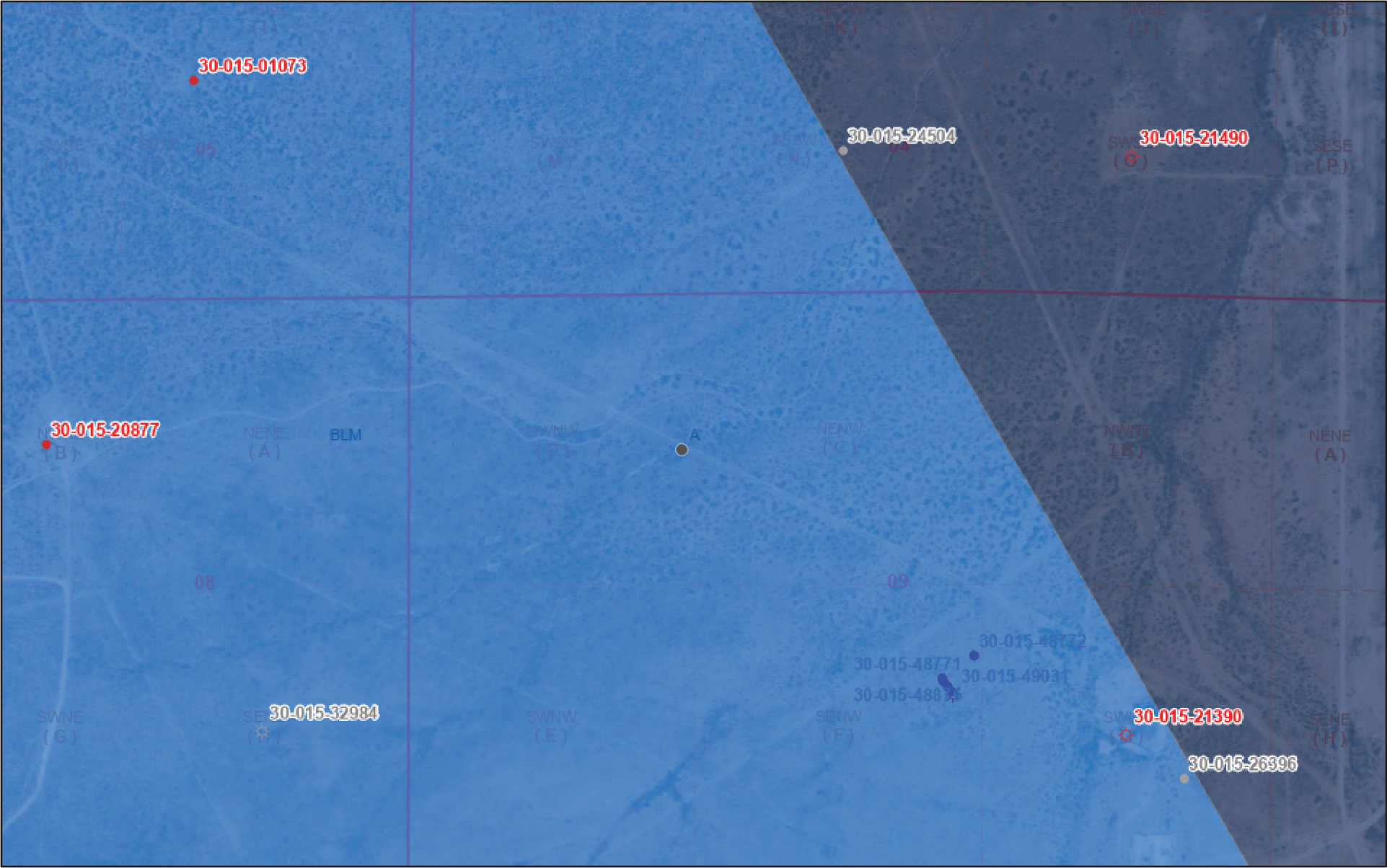
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/2/2023 at 3:09 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to Imaging: 11/28/2023 2:26:21 PM

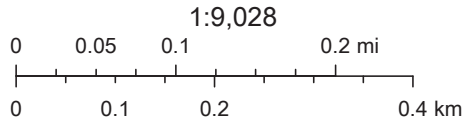
Received by OCD: 7/18/2023 6:53:18 AM

OCD Well Locations



6/2/2023, 2:40:57 PM

- Wells - Large Scale
- Gas, Plugged
 - Oil, Plugged
 - Gas, Cancelled
 - Oil, Cancelled
 - Gas, New
 - Oil, New
- Karst Occurrence Potential
- High
- Mineral Ownership
- A-All minerals are owned by U.S.

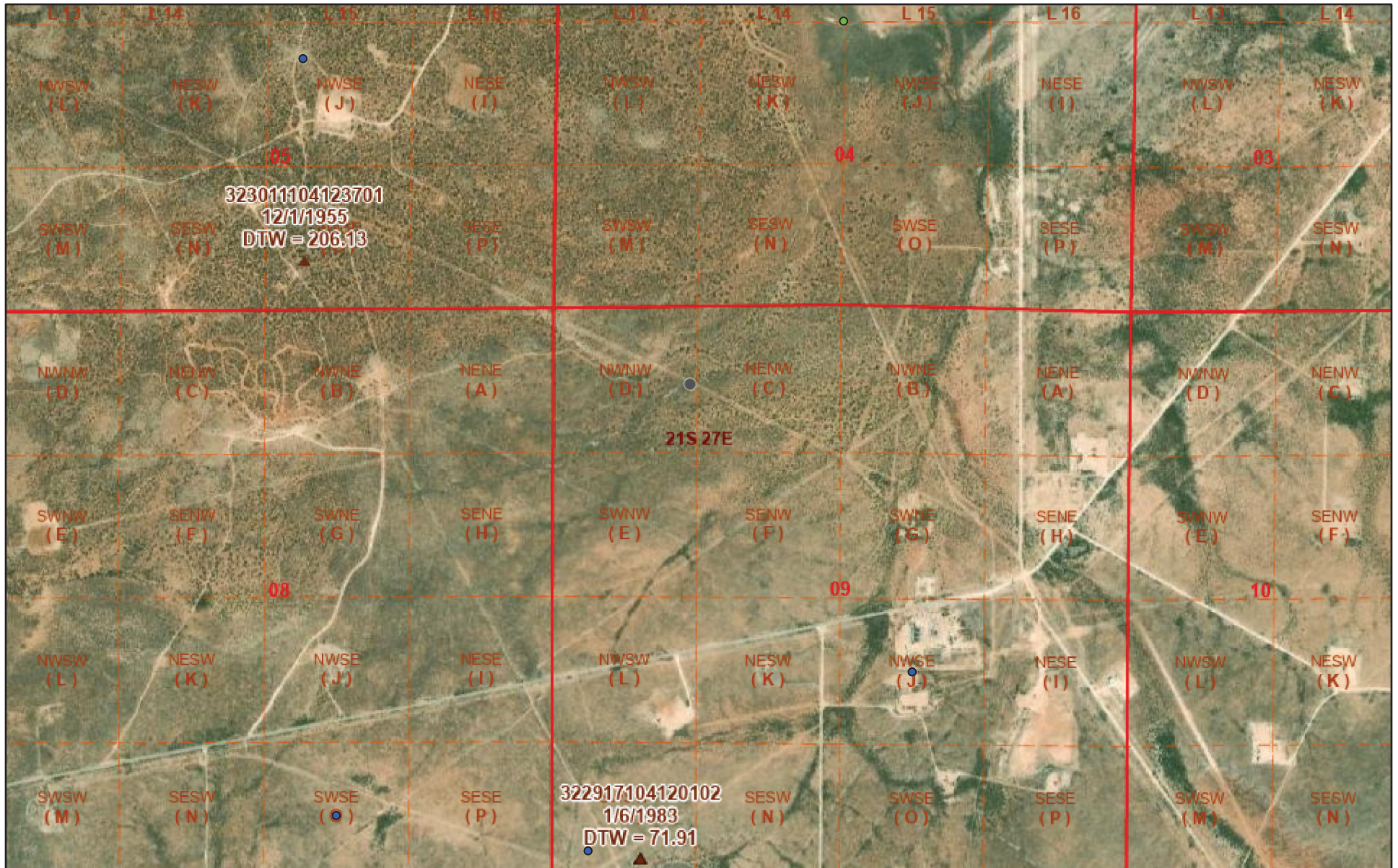


U.S. BLM, BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., USGS,

New Mexico Oil Conservation Division

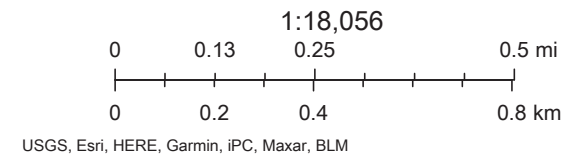
NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

OCD Well Locations



6/2/2023, 2:44:50 PM

- OSE Water PODs ▲ USGS Historical GW Wells
- Active
- Pending
- PLSS First Division
- PLSS Second Division
- PLSS Townships





New Mexico Office of the State Engineer

Point of Diversion Summary

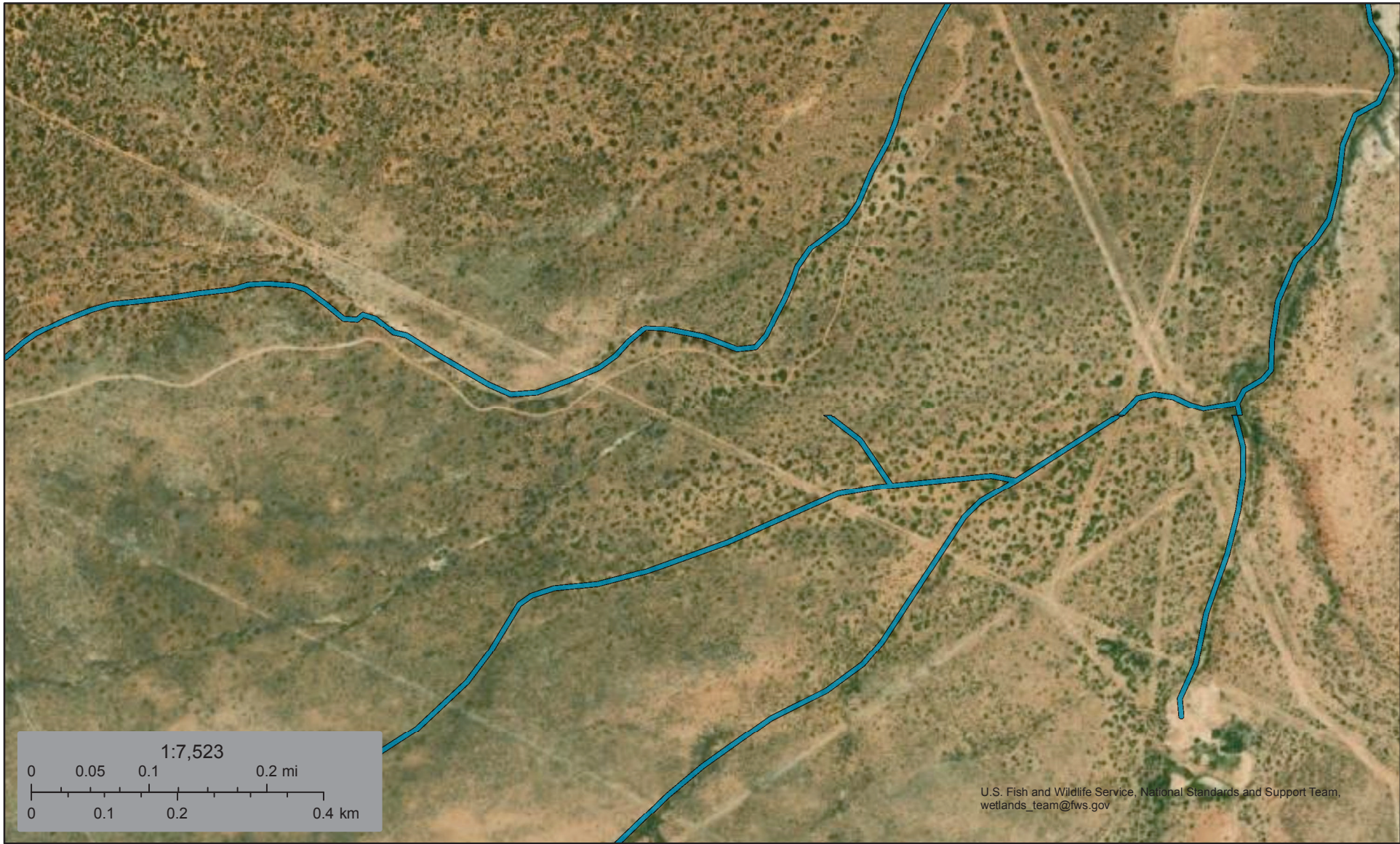
		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
C	01339	1	4	09	21S	27E	575842	3595353*					
Driller License: 248		Driller Company:				BURGETT, EVERETT D.							
Driller Name:													
Drill Start Date:	07/31/1966	Drill Finish Date:				08/31/1966		Plug Date:					
Log File Date:	08/17/1967	PCW Rcv Date:						Source:				Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:					
Casing Size:	7.00	Depth Well:				425 feet		Depth Water:				120 feet	
Water Bearing Stratifications:		Top		Bottom		Description							
		420		425		Limestone/Dolomite/Chalk							

*UTM location was derived from PLSS - see Help

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




6/2/23 12:46 PM

POINT OF DIVERSION SUMMARY



June 2, 2023

Wetlands_Alaska

- | | | |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



APPENDIX C

Photographic Documentation



View of the final excavation area and soil stockpile (June 8, 2023), facing west.



View of the final excavation area and soil stockpile (June 8, 2023), facing south.



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

B-6 Lateral
Enterprise Field Services, LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226248

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Floor Sample Analytical Results												
FS-01	06/08/2023	10	0.122	0.216	<0.050	0.165	0.503	<10.0	<10.0	<10.0	<10.0	48.0
FS-02	06/08/2023	10	<0.050	0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
Composite Sidewall Sample Analytical Results												
SW-01	06/08/2023	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
SW-02	06/08/2023	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-03	06/08/2023	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW-04	06/08/2023	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
Confirmation Delineation Soil Sample Analytical Results												
North	06/08/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
East	06/08/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
South	06/08/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
West	06/08/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
Composite Soil Stockpile Sample Analytical Results												
SP-01	06/08/2023	NA	<0.050	0.082	<0.050	0.243	0.325	<10.0	<10.0	<10.0	<10.0	224
SP-02	06/08/2023	NA	<0.050	0.288	0.077	0.837	1.20	<10.0	<10.0	<10.0	<10.0	48.0

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - Not Applicable

NE - Not Established

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

MRO - Motor Oil/Lube Oil Range Organics

TPH - Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 14, 2023

KALEI JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: B - 6 - LATERAL

Enclosed are the results of analyses for samples received by the laboratory on 06/09/23 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	06/09/2023	Sampling Date:	06/08/2023
Reported:	06/14/2023	Sampling Type:	Soil
Project Name:	B - 6 - LATERAL	Sampling Condition:	Cool & Intact
Project Number:	03B1226248 (32.50007-104.199338)	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE FIELD SERVICES		

Sample ID: FS - 01 10' (H232976-01)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.122	0.050	06/10/2023	ND	2.00	100	2.00	10.4	
Toluene*	0.216	0.050	06/10/2023	ND	2.04	102	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	1.99	99.4	2.00	10.3	
Total Xylenes*	0.165	0.150	06/10/2023	ND	6.17	103	6.00	10.5	
Total BTEX	0.503	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/12/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS - 02 10' (H232976-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2023	ND	2.00	100	2.00	10.4	
Toluene*	0.050	0.050	06/10/2023	ND	2.04	102	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	1.99	99.4	2.00	10.3	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.17	103	6.00	10.5	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 01 0-10' (H232976-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2023	ND	2.00	100	2.00	10.4		
Toluene*	<0.050	0.050	06/10/2023	ND	2.04	102	2.00	11.3		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	1.99	99.4	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.17	103	6.00	10.5		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 02 0-10' (H232976-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2023	ND	2.00	100	2.00	10.4		
Toluene*	<0.050	0.050	06/10/2023	ND	2.04	102	2.00	11.3		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	1.99	99.4	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.17	103	6.00	10.5		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 KALEI JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 06/09/2023
 Reported: 06/14/2023
 Project Name: B - 6 - LATERAL
 Project Number: 03B1226248 (32.50007-104.199338)
 Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 03 0-10' (H232976-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2023	ND	2.32	116	2.00	3.98		
Toluene*	<0.050	0.050	06/12/2023	ND	2.31	115	2.00	4.56		
Ethylbenzene*	<0.050	0.050	06/12/2023	ND	2.26	113	2.00	4.09		
Total Xylenes*	<0.150	0.150	06/12/2023	ND	6.84	114	6.00	3.24		
Total BTEX	<0.300	0.300	06/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 04 0-10' (H232976-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2023	ND	2.32	116	2.00	3.98		
Toluene*	<0.050	0.050	06/12/2023	ND	2.31	115	2.00	4.56		
Ethylbenzene*	<0.050	0.050	06/12/2023	ND	2.26	113	2.00	4.09		
Total Xylenes*	<0.150	0.150	06/12/2023	ND	6.84	114	6.00	3.24		
Total BTEX	<0.300	0.300	06/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 67.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NORTH 0-0.25' (H232976-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2023	ND	2.32	116	2.00	3.98		
Toluene*	<0.050	0.050	06/12/2023	ND	2.31	115	2.00	4.56		
Ethylbenzene*	<0.050	0.050	06/12/2023	ND	2.26	113	2.00	4.09		
Total Xylenes*	<0.150	0.150	06/12/2023	ND	6.84	114	6.00	3.24		
Total BTEX	<0.300	0.300	06/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EAST 0-0.25' (H232976-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2023	ND	2.32	116	2.00	3.98		
Toluene*	<0.050	0.050	06/12/2023	ND	2.31	115	2.00	4.56		
Ethylbenzene*	<0.050	0.050	06/12/2023	ND	2.26	113	2.00	4.09		
Total Xylenes*	<0.150	0.150	06/12/2023	ND	6.84	114	6.00	3.24		
Total BTEX	<0.300	0.300	06/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KALEI JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 06/09/2023
 Reported: 06/14/2023
 Project Name: B - 6 - LATERAL
 Project Number: 03B1226248 (32.50007-104.199338)
 Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST 0-0.25' (H232976-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2023	ND	2.32	116	2.00	3.98		
Toluene*	<0.050	0.050	06/12/2023	ND	2.31	115	2.00	4.56		
Ethylbenzene*	<0.050	0.050	06/12/2023	ND	2.26	113	2.00	4.09		
Total Xylenes*	<0.150	0.150	06/12/2023	ND	6.84	114	6.00	3.24		
Total BTEX	<0.300	0.300	06/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SOUTH 0-0.25' (H232976-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2023	ND	2.32	116	2.00	3.98		
Toluene*	<0.050	0.050	06/12/2023	ND	2.31	115	2.00	4.56		
Ethylbenzene*	<0.050	0.050	06/12/2023	ND	2.26	113	2.00	4.09		
Total Xylenes*	<0.150	0.150	06/12/2023	ND	6.84	114	6.00	3.24		
Total BTEX	<0.300	0.300	06/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 01 (H232976-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2023	ND	2.32	116	2.00	3.98	
Toluene*	0.082	0.050	06/12/2023	ND	2.31	115	2.00	4.56	
Ethylbenzene*	<0.050	0.050	06/12/2023	ND	2.26	113	2.00	4.09	
Total Xylenes*	0.243	0.150	06/12/2023	ND	6.84	114	6.00	3.24	
Total BTEX	0.325	0.300	06/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 06/09/2023
Reported: 06/14/2023
Project Name: B - 6 - LATERAL
Project Number: 03B1226248 (32.50007-104.199338)
Project Location: ENTERPRISE FIELD SERVICES

Sampling Date: 06/08/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 02 (H232976-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2023	ND	2.32	116	2.00	3.98		
Toluene*	0.288	0.050	06/12/2023	ND	2.31	115	2.00	4.56		
Ethylbenzene*	0.077	0.050	06/12/2023	ND	2.26	113	2.00	4.09		
Total Xylenes*	0.837	0.150	06/12/2023	ND	6.84	114	6.00	3.24		
Total BTEx	1.20	0.300	06/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 68.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Kelly Lowery
Address: 601 N. Marland St. STE 400
City: Midland
Phone #: 214-733-3165
State: TX Zip: 79701
Project #: 6331224248
Project Owner:
Project Name: B-6 - lateral
Project Location: 32.56007, -101.199338 Eddy County, NM
Sample Name: Keiler Smith
FOR LAB USE ONLY

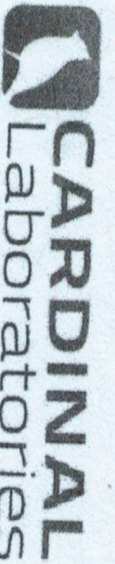
BILL TO
P.O. #: RD22121
Company: Enkay's Field Services, LLC
Attn: Robert Duraway
Address: 3008 E Greene
City: Carlsbad
State: NM Zip: 88220
Phone #: 361-815-0990
Fax #: Rhidunawye@prod.com

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST									
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :										
H232976	FS-01	16'	1	1	X									6-8-23	1408	X							
	FS-02	10'	1	1	X									6-8-23	1410	X							
	SW-01	0-10'	1	1	X									6-8-23	1412	X							
	SW-02	0-10'	1	1	X									6-8-23	1414	X							
	SW-03	0-10'	1	1	X									6-8-23	0958	X							
	SW-04	0-10'	1	1	X									6-8-23	1000	X							
	NO 1th	6-0.15'	1	1	X									6-8-23	1446	X							
	East	0-0.25'	1	1	X									6-8-23	1448	X							
	West	0-0.25'	1	1	X									6-8-23	1450	X							
	South	0-0.25'	1	1	X									6-8-23	1452	X							

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Relinquished By: [Signature] Date: 6/19/23
Received By: [Signature] Date: 6-9-23
Time: 8:00
Observed Temp.: 5.4
Corrected Temp.: 4.8
Sample Condition: ☒ Intact ☐ Broken
CHECKED BY: [Signature] (Initials)
Turnaround Time: 1210
Thermometer ID #113
Correction Factor: -0.3C
Standard: 70.46/23
Bacteria (only) Sample Condition: ☒ Rush ☐ Standard
Cool Intact: ☐ Yes ☐ No
Corrected Temp.: 70.46/23

REMARKS: Blowers@ensolum.com; Rhidunawye@prod.com
Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
Blowers@ensolum.com



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Kelly Lowery

Address: 401 N. Marland ST. STE 400

City: Midland State: TX Zip: 79701

Phone #: 214-733-3165 Fax #:

Project #: 0301226248 Project Owner:

Project Name: B-6 Lateral

Project Location: 32.50007, -104.199538 Eddy County

Sampler Name: Heather Smith

BILL TO

P.O. #: RD22121

Company: SPH-REFED

Attn: Robert Duranway

Address: 3008 E. Gwynne

City: Carlsbad State: NM Zip: 88220

Phone #: 361-815-0990

Fax #: Rhduranway@spred.com

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTX 80216	TPH 8015m	Chlorides 4500	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
HT32976	SP-01	11	1	5	X								6-8-23	1456	X	X	X
	SP-02	12	1	5	X								6-8-23	1458	X	X	X
		15															

Relinquished By:

Date: 6/19/23 Received By:

Relinquished By:

Date: 6-9-23 Received By:

Relinquished By:

Date: 6-9-23 Received By:

Relinquished By:

Date: 6-9-23 Received By:

Delivered By: (Circle One)

Observed Temp. °C 5.4

Sample Condition Cool Intact

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Corrected Temp. °C 4.8

Sample Condition Cool Intact

CHECKED BY: (Initials)

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS: Klowery@ensolum.com; Rhduranway@spred.com

Turnaround Time:

Standard ☒ Rush ☐

Bacteria (only) Sample Condition Cool Intact

Observed Temp. °C

Thermometer ID #113

Correction Factor -0.6°C

☐ Yes ☐ No

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to coley.keene@cardinallabsnm.com



APPENDIX F

C-141

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	NAPP2315233794
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Enterprise Field Services LLC	OGRID	241602
Contact Name	Robert Dunaway	Contact Telephone	575-628-6802
Contact email	rhunaway@eprod.com	Incident # (assigned by OCD)	nAPP2315233794
Contact mailing address	PO Box 4324, Houston, TX 77210		

Location of Release Source

Latitude 32.500070 Longitude -104.199338
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	B -6 Lateral Line	Site Type	Gathering Pipeline
Date Release Discovered	5/28/23	API# (if applicable)	

Unit Letter	Section	Township	Range	County
D	09	21S	27E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 5	Volume Recovered (bbls) -0-
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 360	Volume Recovered (Mcf) -0-
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Found a leak on a gathering pipeline, cause is to be determined. The gas portion of this release constitutes venting that occurs during an emergency or malfunction, as authorized by NMOCD regulations at NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A.

Incident ID	NAPP2315233794
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

☐ Yes ☒ No

If YES, for what reason(s) does the responsible party consider this a major release?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: Robert Dunaway

Title: Senior Environmental Engineer

Signature: 

Date: 6/1/23

email: rhunaway@eprod.com

Telephone: 575-628-6802

OCD Only

Received by: Jocelyn Harimon

Date: 06/05/2023

Number of leaks	1
Diameter of hole (inches)	0.025
Line Pressure at Leak	644
Volume of Gas Leaked	0.41
Calculations:	
Volume of Gas Leaked (MSCF) = Diameter ² * Diameter * (Upside Pressure - Pipeline Rules of Thumb Handbook, 3rd Edition)	
Volume of Gas Leaked (MSCF)	19.800
Line pressure	644
Diameter of Pipe (inches)	8
Volume of Gas Blown Down	358.83383
Calculations:	
Volume of Gas Blown Down (MSCF) = Volume at pipeline conditions (MSCF) * (Upside Pressure - Pipeline Rules of Thumb Handbook, 3rd Edition)	
Volume of Gas Blown Down (MSCF)	1000
Standard Pressure (14.7psi) * Temperature (°F) / (Standard Pressure (14.7psi) * Temperature (°F))	
Volume at pipeline conditions (scf) = Diameter ² * Diameter * (Upside Pressure - Pipeline Rules of Thumb Handbook, 3rd Edition)	
*Reference: Gas Pipeline Hydraulics, Menson (2005) Page 10	
Total Gas Loss	359.25

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 222639

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 222639
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/5/2023

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CONDITIONS

Action 238275

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 238275
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/28/2023