



ENSOLUM

CLOSURE REPORT

Property:

Lost Tank 3 Federal #005

**Eddy County, New Mexico
32.42244 N, 103.76144 W
Incident ID No. nAPP2323352221**

September 25, 2023
Ensolum Project No. 03B1417090

Prepared for:

**Oxy USA Inc.
P.O. Box 4294
Houston, TX 77210
Attn: Mr. Wade Dittrich**

Prepared by:


Beaux Jennings
Senior Project Manager

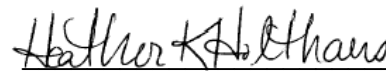

Heather Holthaus
Senior Project Manager



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CLOSURE REPORT

Lost Tank 3 Federal #005

**Eddy County, New Mexico
32.42244 N, 103.76144 W
Incident ID No. nAPP2323352221**

Ensolum Project No. 03B1417090

1.0 INTRODUCTION

1.1 Executive Summary

- On June 26, 2023, a release of crude oil occurred from a flowline header as a result of internal corrosion at the Lost Tank 3 Federal #005, hereinafter referred to as the "Site". Approximately 25 barrels (bbls) of crude oil was released to the ground surface, impacting an area approximately 150 feet long by five to 15 feet wide, with approximately 20 bbls of crude oil recovered.
- On July 19, 2023, subsequent to the completion of excavation activities, Ensolum collected a total of five composite soil samples from the excavation floor (FS-1 through FS-5) and one composite soil sample from the excavation sidewall (SW-1). The floor samples were collected at a depth of 0.25 to three feet below ground surface (bgs), and the sidewall sample was collected at a depth of 0-3 feet bgs. Additionally, Ensolum collected four delineation background soil samples (BG-N, BG-S, BG-E and BG-W) from locations approximately 1-2 feet outside of the excavation area at a depth of 0-0.25 feet bgs.
- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 152 feet long with a width that varied between five to 15 feet wide. The depth of the excavation measured approximately 0.25 to three feet bgs.
- Based on the laboratory analytical results, the composite soil samples collected from the excavation area and the delineation background samples collected outside the excavation area did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material and then contoured to the original surrounding grade. The spill area is a caliche pad and does not require reclamation or revegetation at this time.

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

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1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Lost Tank 3 Federal #005
Location:	Eddy County, New Mexico 32.42244 N, 103.76144 W
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Topographic Map depicting the location of the Site is included as **Figure 1**, the Site Vicinity Map is included as **Figure 2**, the Site Map indicating the locations of composite soil samples is included as **Figure 3**, and the Closure Criteria Map is included as **Figure 4** in **Appendix A**.

1.3 Project Objective

The primary objective of the closure activities was to reduce 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 NMAC 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum utilized information provided by Oxy, 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 Site is not located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or any other 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 an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS 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 WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.
- The Site is not located within 300 feet of a wetland.
- 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 Bureau of Land Management (BLM), the Site is not located within an unstable area.

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The Site is noted to be located within an area of minimal flood hazard.

- A search of the OSE WRSS database was conducted for water wells within 0.5-mile radius of the Site to determine the depth to groundwater in the vicinity of the Site. A depth to water soil boring, related to incident NAPP2133533688 at Lost Tank 10 Federal #003, was identified approximately 0.2-mile southeast of the Site. The soil boring (SB-03) was installed on April 5, 2022 by Trinity Oilfield Services & Rentals, LLC. Depth to water was shown to be >105 feet.

Figure 4 identifies the location of the depth to water soil boring (**Appendix A**). Supporting Documentation is included as **Appendix B**.

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
>100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 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 June 26, 2023, a release of crude oil occurred from a flowline header as a result of internal corrosion at the Site. Approximately 25 bbls of crude oil was released to the ground surface, impacting an area approximately 150 feet long by five to 15 feet wide, with approximately 20 bbls of crude oil recovered.

On July 19, 2023, subsequent to the completion of excavation activities, Ensolum collected a total of five composite soil samples from the excavation floor (FS-1 through FS-5) and one composite soil sample from the excavation sidewall (SW-1). The floor samples were collected at a depth of 0.25 to three feet bgs, and the sidewall sample was collected at a depth of 0-3 feet bgs. Additionally, Ensolum collected four delineation background soil samples (BG-N, BG-S, BG-E and BG-W) from locations approximately 1-2 feet outside of the excavation area at a depth of 0-0.25 feet bgs.

Based on the laboratory analytical results, no additional excavation was required. Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal.

The final excavation area measured approximately 152 feet long with a width that varied between five to 15 feet wide. The depth of the excavation measured approximately 0.25 to three feet bgs.

The lithology encountered during the completion of sampling activities consisted primarily of caliche.

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Figure 3 identifies approximate soil sample locations and approximate dimensions of the impacted area with respect to the Site (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program included the collected of a total of six composite soil samples from six locations within the excavation area (FS-1 through FS-5, and SW-1), and four delineation soil samples from four locations approximately 1-2 feet outside of the excavation area (BG-N, BG-S, BG-E and BG-W).

The 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 for standard laboratory analysis.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The soil samples were analyzed for BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO utilizing EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-CI B.

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

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO, TPH GRO/DRO/MRO, and chloride concentrations associated with the excavation floor (FS-1 through FS-5), the excavation sidewall (SW-1), and the confirmation delineation samples collected approximately 1-2 feet outside the excavation area (BG-N, BG-S, BG-E and BG-W) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the soil samples are below the laboratory sample detection limits (SDLs) and the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the soil samples are below the laboratory SDLs and the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicate chloride concentrations for the soil samples are below the applicable NMOCD Closure Criteria of 20,000 mg/kg for depth to groundwater >100 feet.

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

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7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for property disposal. The excavated area was backfilled with clean fill material and caliche, and then contoured to the original surrounding grade. The spill area was located within a facility caliche pad and does not require reclamation or revegetation at this time.

8.0 FINDINGS AND RECOMMENDATION

- On June 26, 2023, a release of crude oil occurred from a flowline header as a result of internal corrosion at the Site. Approximately 25 bbls of crude oil was released to the ground surface, impacting an area approximately 150 feet long by five to 15 feet wide, with approximately 20 bbls of crude oil recovered.
- On July 19, 2023, subsequent to the completion of excavation activities, Ensolum collected a total of five composite soil samples from the excavation floor (FS-1 through FS-5) and one composite soil sample from the excavation sidewall (SW-1). The floor samples were collected at a depth of 0.25 to three feet bgs, and the sidewall sample was collected at a depth of 0-3 feet bgs. Additionally, Ensolum collected four delineation background soil samples (BG-N, BG-S, BG- E and BG-W) from locations approximately 1-2 feet outside of the excavation area at a depth of 0-0.25 feet bgs.
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- The final excavation area measured approximately 152 feet long with a width that varied between five to 15 feet wide. The depth of the excavation measured approximately 0.25 to three feet bgs.
- Based on the laboratory analytical results, the composite soil samples collected from the excavation area and the delineation background samples collected outside the excavation area did not exhibit BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.

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.

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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.

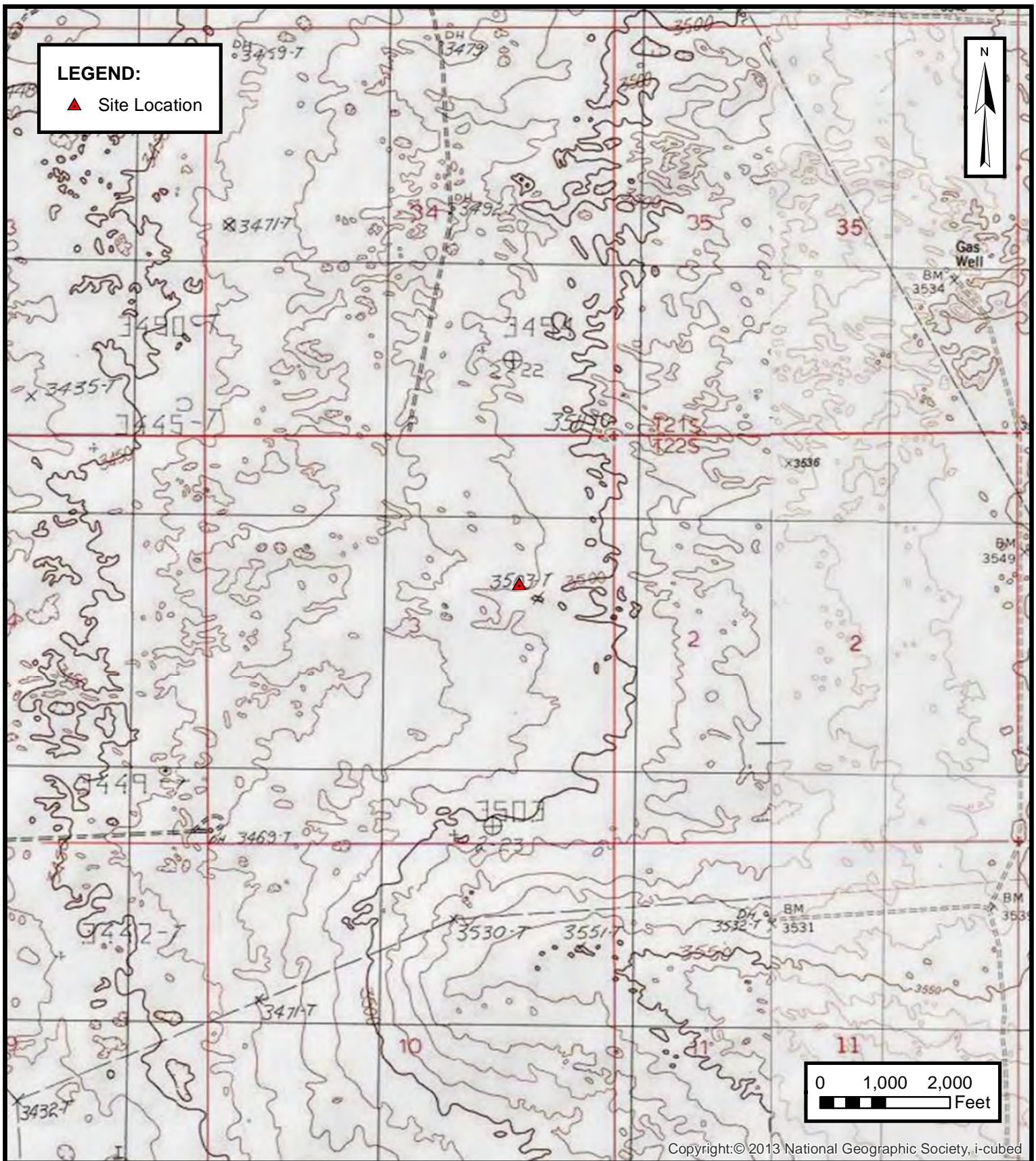
9.3 Reliance

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



APPENDIX A

Figures



ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

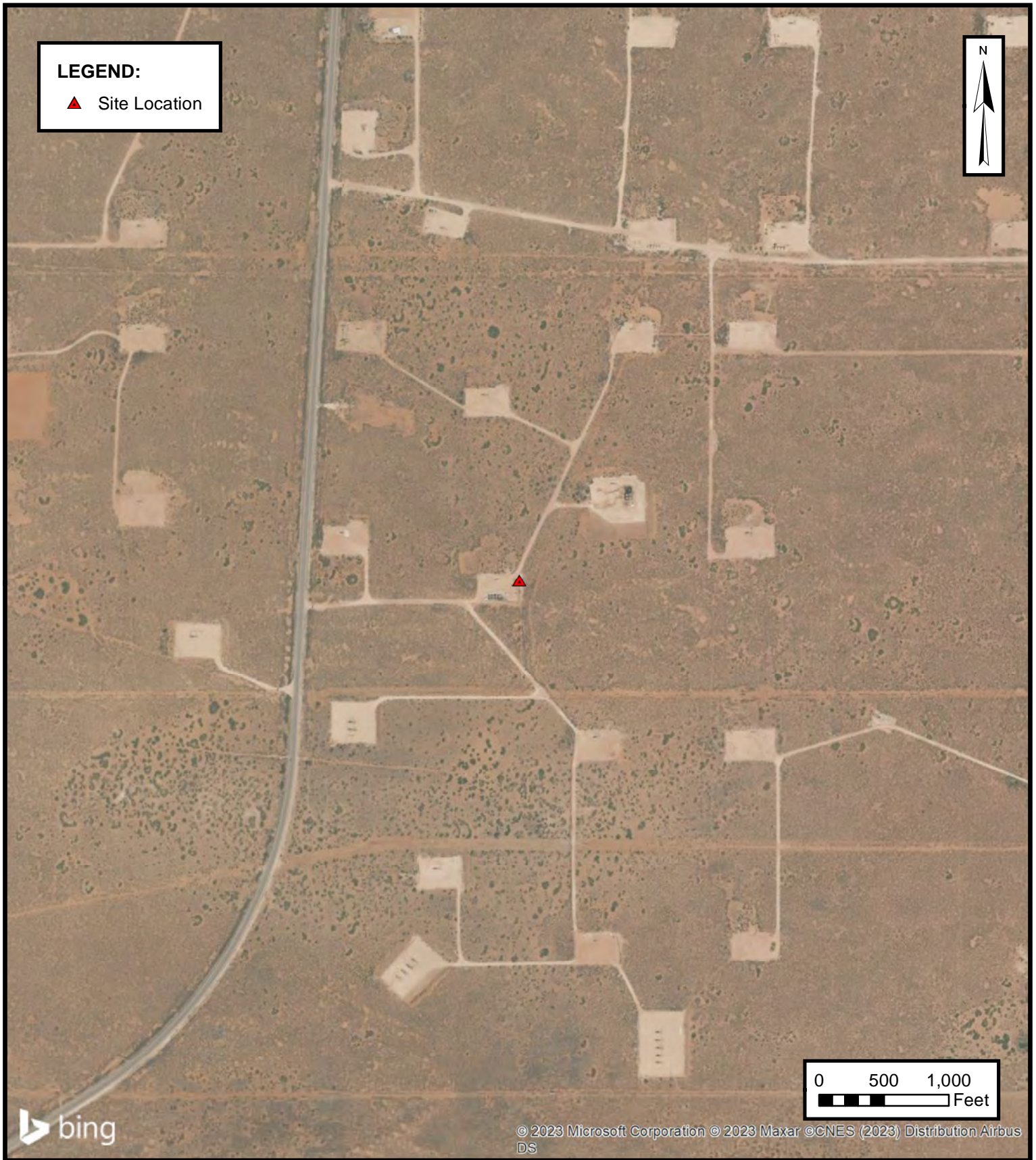
TOPOGRAPHIC MAP

OXY USA INC.
LOST TANK 3 FED #005
Eddy County, New Mexico
32.42244° N, 103.76144° W

PROJECT NUMBER: 03B1417090

FIGURE

1

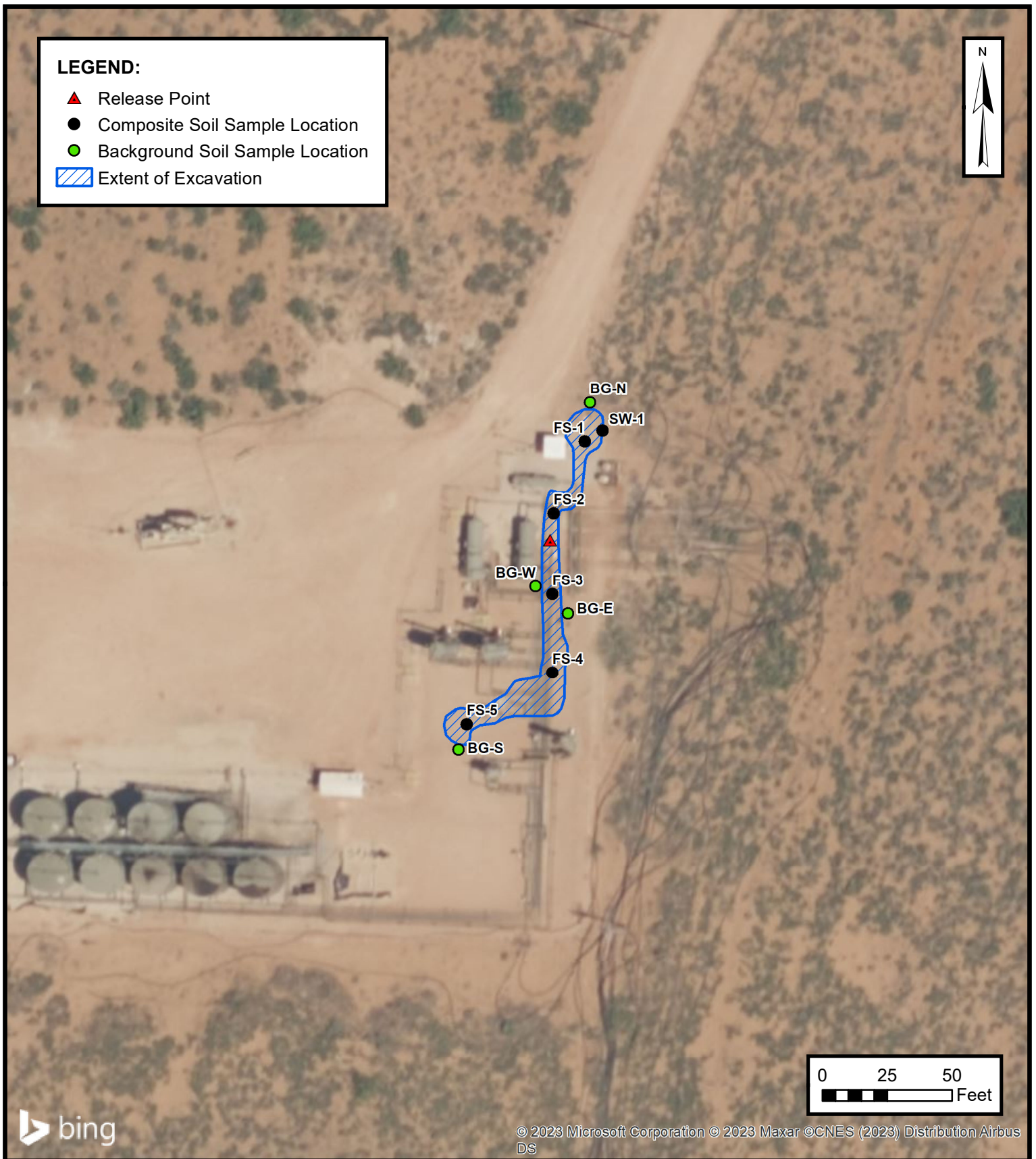


SITE VICINITY MAP

OXY USA INC.
LOST TANK 3 FED #005
Eddy County, New Mexico
32.42244° N, 103.76144° W

PROJECT NUMBER: 03B1417090

FIGURE
2



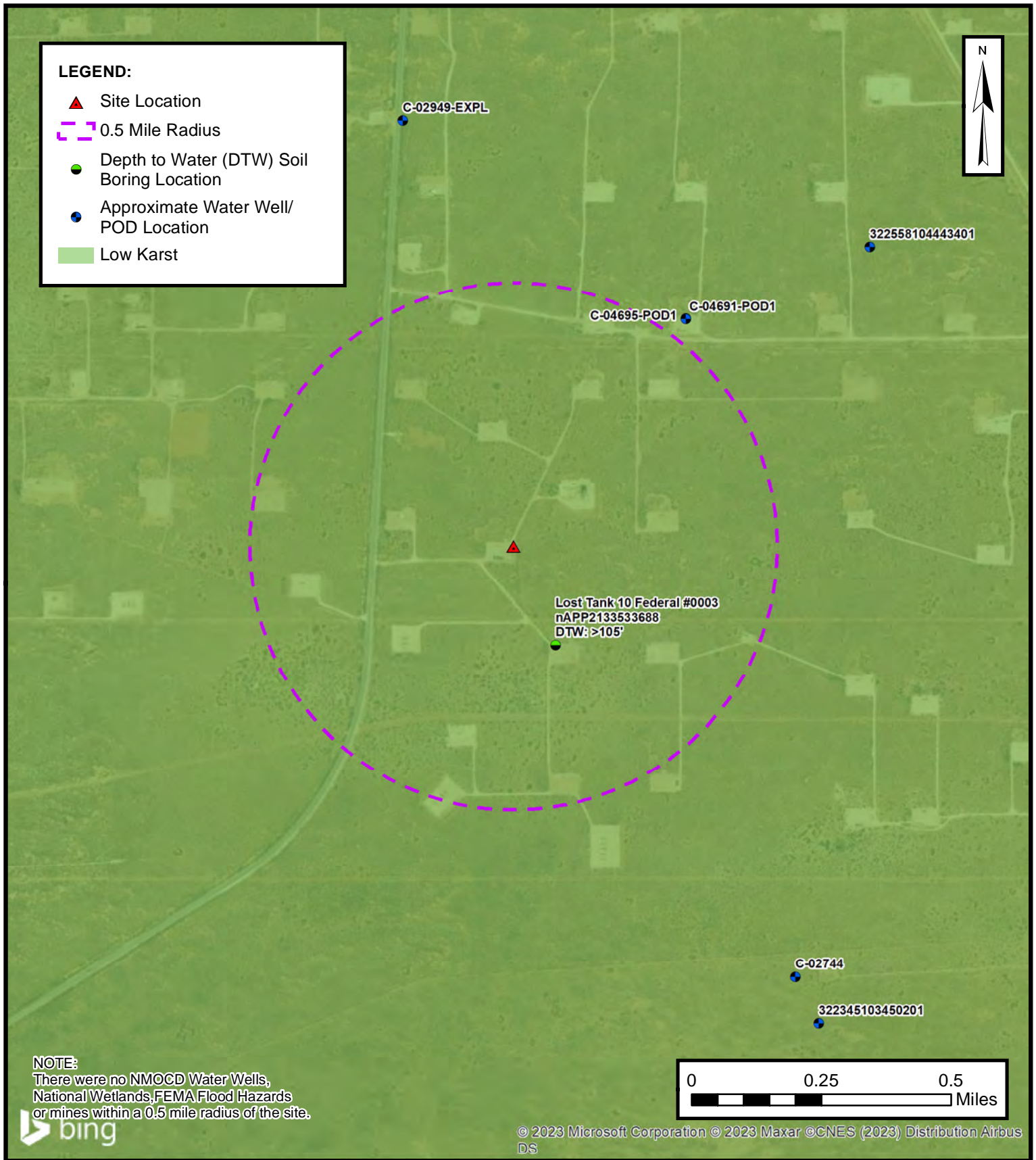
SITE MAP

OXY USA INC.
LOST TANK 3 FED #005
Eddy County, New Mexico
32.42244° N, 103.76144° W

PROJECT NUMBER: 03B1417090

FIGURE

3

**CLOSURE CRITERIA MAP**

OXY USA INC.
 LOST TANK 3 FED #005
 Eddy County, New Mexico
 32.42244° N, 103.76144° W

PROJECT NUMBER: 03B1417090

FIGURE**4**

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants



APPENDIX B

Supporting Documentation



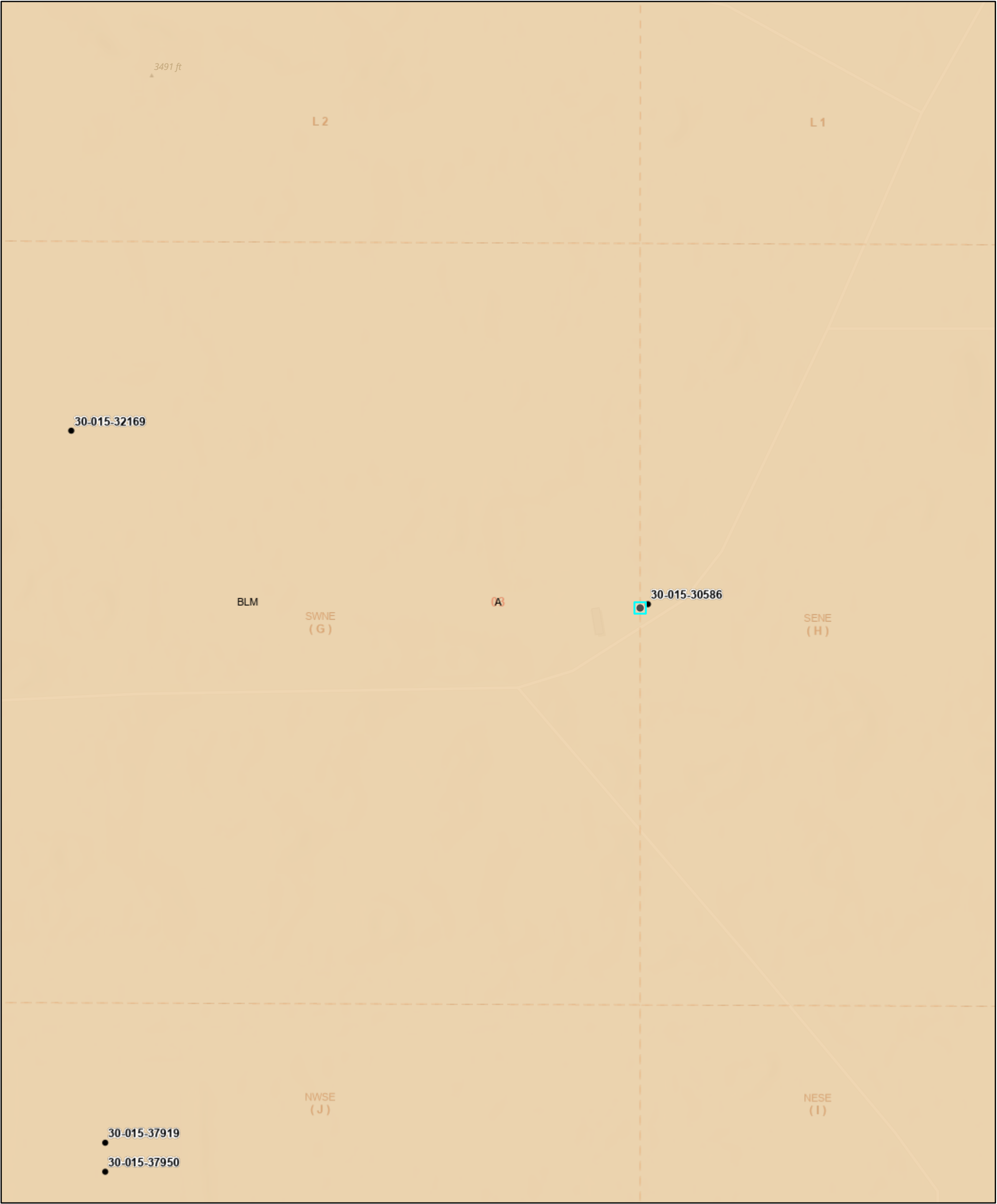
Soil Bore Log SB-03

PROJECT NAME Lost Tank 10		DRILLING DATE 04/05/2022	COORDINATES 32.41972, -103.759621
CLIENT OXY USA, Inc.		TOTAL DEPTH 105'	COORD SYS NAD 83
			ULSTR I-03-22S-31E
			SURFACE ELEVATION 3503
COMMENTS Spud on the Northwest Corner of the Lost Tank 3 Federal #11 Well Pad.			LOGGED BY CJ
			CHECKED BY DD
Depth (ft)	Moisture	Material Description	Elevation (ft)
5	D	Brown Sandy Loam. Dry	3500
10		Reddish Brown Sandy Clay Loam. Dry	3495
15		Tan Sandy Clay Loam. Dry	3490
20			3485
25			3480
30		Tan Sandy Clay Loam. Dry	3475
35		Reddish Brown Sandy Clay Loam. Dry	3470
40		Reddish Brown Sandy Clay Loam. Dry	3465
45		Reddish Brown Sandy Clay Loam. Dry	3460
50		Reddish Brown Sandy Clay Loam. Dry	3455
55			3450
60		Dark Reddish Brown Sandy Clay. Dry	3445
65			3440
70			3435
75			3430
80			3425
85			3420
90			3415
95		Reddish Brown Sandy Loam. Dry	3410
100		Dark Reddish Brown Sandy Clay Loam. Dry	3405
105			3400
110		Termination Depth at: 105 ft.	3395

DRY HOLE This bore log is intended to evidence a depth to groundwater greater than 105'.

Page 1 of 1

OCD Well Locations



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Wells - Large Scale

• Oil, Active

Mineral Ownership

A-All minerals are owned by U.S.

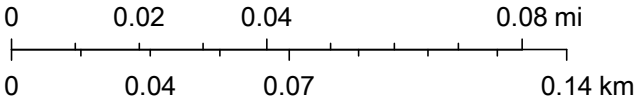
Land Ownership

BLM

PLSS Second Division

PLSS First Division

1:2,257



U.S. BLM, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap,

National Flood Hazard Layer FIRMette



103°46'W 32°25'36"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°45'22"W 32°25'6"N

Released to Imaging: 2/14/2024 9:41:54 AM

Basemap Imagery Source: USGS National Map 2023

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 D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		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
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



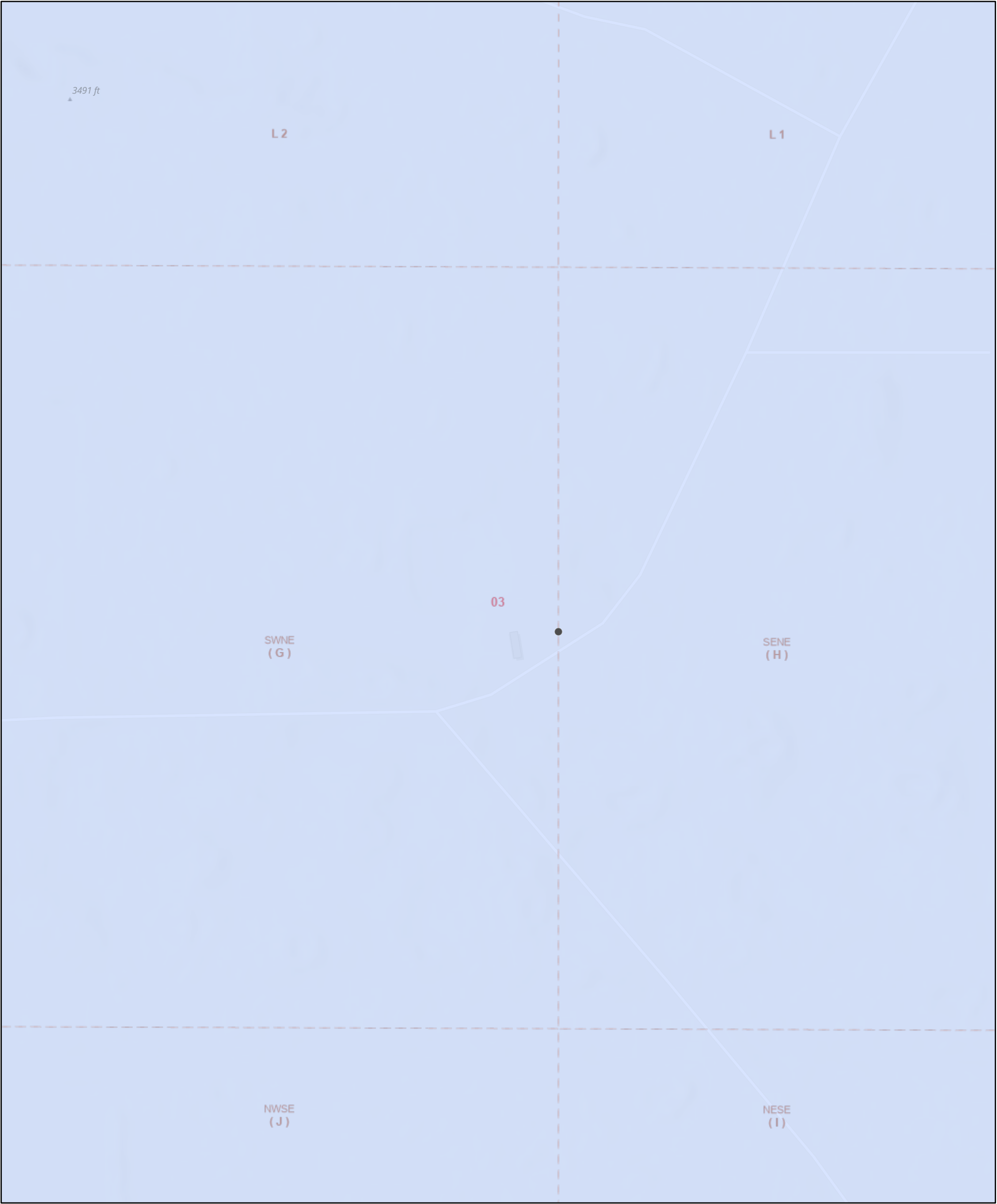
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 9/22/2023 at 2:56 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.

Karst Map

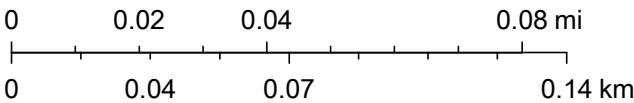


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Karst Occurrence Potential

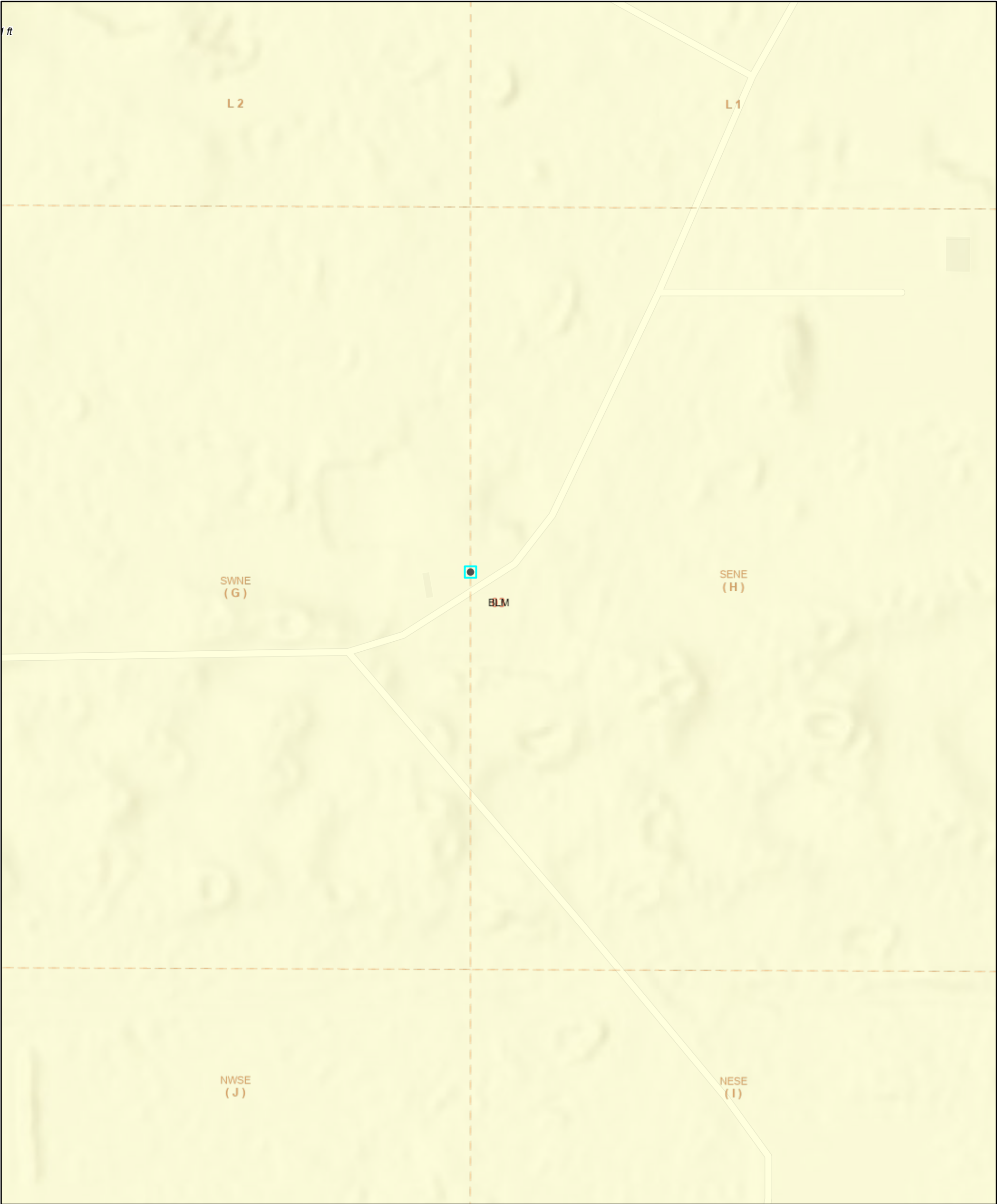
- Low
- PLSS Second Division
- PLSS First Division

1:2,257






BLM, OCD, New Mexico Tech, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/

Active Mines in New Mexico

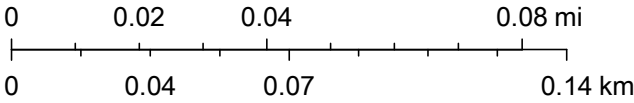


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Land Ownership

-  BLM
-  PLSS Second Division
-  PLSS First Division

1:2,257



U.S. BLM, 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



NWI Map



September 22, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- 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 initial release area, facing northwest (June 28, 2023).



View of the initial release area, facing southwest (June 28, 2023).



View of the excavation area, facing north (July 19, 2023).



View of the excavation area, facing south (July 19, 2023).



APPENDIX D

Tables



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Lost Tank 3 Federal #005
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417090

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 (> 100 feet)			10	NE	NE	NE	50	1,000		NE	2,500	20,000
Floor Sample Analytical Results												
FS-1	07/19/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	28.3		<10.0	28.3	160
FS-2	07/19/2023	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	128
FS-3	07/19/2023	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	24.9		<10.0	24.9	128
FS-4	07/19/2023	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	32.5		12.0	44.5	208
FS-5	07/19/2023	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	465		131	596	608
Sidewall Sample Analytical Results												
SW-1	07/19/2023	0 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	16.0
Background Sample Analytical Results												
BG-N	07/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	26.9		13.2	40.1	208
BG-E	07/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	48.0
BG-S	07/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	28.8		<10.0	28.8	256
BG-W	07/19/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	35.8		<10.0	35.8	208

bgs: below ground surface
mg/kg: milligrams per kilogram
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 Data Sheets and Chain-of-Custody Documentation



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

July 26, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LOST TANK 3 FEDERAL # 005

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 12:56.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 0-3' (H233786-01)

BTX 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	07/25/2023	ND	2.10	105	2.00	1.88	
Toluene*	<0.050	0.050	07/25/2023	ND	2.03	102	2.00	3.20	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.09	104	2.00	1.96	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.33	106	6.00	2.63	
Total BTX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	16.0	16.0	07/25/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 1 3' (H233786-02)

BTX 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	07/25/2023	ND	2.10	105	2.00	1.88	
Toluene*	<0.050	0.050	07/25/2023	ND	2.03	102	2.00	3.20	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.09	104	2.00	1.96	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.33	106	6.00	2.63	
Total BTX	<0.300	0.300	07/25/2023	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	160	16.0	07/25/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	28.3	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 2 0.25' (H233786-03)

BTX 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	07/25/2023	ND	2.06	103	2.00	0.00804	
Toluene*	<0.050	0.050	07/25/2023	ND	1.97	98.7	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.09	101	6.00	2.06	
Total BTX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	128	16.0	07/25/2023	ND	432	108	400	3.77	

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 3 0.25' (H233786-04)

BTX 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	07/25/2023	ND	2.06	103	2.00	0.00804	
Toluene*	<0.050	0.050	07/25/2023	ND	1.97	98.7	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.09	101	6.00	2.06	
Total BTX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	128	16.0	07/25/2023	ND	432	108	400	3.77	

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	24.9	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 4 0.25' (H233786-05)

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	07/25/2023	ND	2.06	103	2.00	0.00804	
Toluene*	<0.050	0.050	07/25/2023	ND	1.97	98.7	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.09	101	6.00	2.06	
Total BTEX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	208	16.0	07/25/2023	ND	432	108	400	3.77	

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	32.5	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	12.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 5 0.25' (H233786-06)

BTX 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	07/25/2023	ND	2.06	103	2.00	0.00804	
Toluene*	<0.050	0.050	07/25/2023	ND	1.97	98.7	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.09	101	6.00	2.06	
Total BTX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	608	16.0	07/25/2023	ND	432	108	400	3.77	

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	465	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	131	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BG - N 0-0.25' (H233786-07)

BTX 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	07/25/2023	ND	2.06	103	2.00	0.00804	
Toluene*	<0.050	0.050	07/25/2023	ND	1.97	98.7	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.09	101	6.00	2.06	
Total BTX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	208	16.0	07/25/2023	ND	432	108	400	3.64	

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	26.9	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	13.2	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BG - E 0-0.25' (H233786-08)

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	07/25/2023	ND	2.06	103	2.00	0.00804	
Toluene*	<0.050	0.050	07/25/2023	ND	1.97	98.7	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.09	101	6.00	2.06	
Total BTEX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	07/25/2023	ND	432	108	400	3.64	

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 07/20/2023
Reported: 07/26/2023
Project Name: LOST TANK 3 FEDERAL # 005
Project Number: 03B1417090
Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BG - S 0-0.25' (H233786-09)

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	07/25/2023	ND	2.06	103	2.00	0.00804	
Toluene*	<0.050	0.050	07/25/2023	ND	1.97	98.7	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.09	101	6.00	2.06	
Total BTEx	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	07/25/2023	ND	432	108	400	3.64	

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	07/25/2023	ND	193	96.5	200	2.42	
DRO >C10-C28*	28.8	10.0	07/25/2023	ND	196	98.2	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: LOST TANK 3 FEDERAL # 005
 Project Number: 03B1417090
 Project Location: OXY - EDDY COUNTY

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BG - W 0-0.25' (H233786-10)

BTX 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	07/25/2023	ND	2.06	103	2.00	0.00804	
Toluene*	<0.050	0.050	07/25/2023	ND	1.97	98.7	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.09	101	6.00	2.06	
Total BTX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	208	16.0	07/25/2023	ND	432	108	400	3.64	

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	07/25/2023	ND	207	104	200	3.25	
DRO >C10-C28*	35.8	10.0	07/25/2023	ND	208	104	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Beaux Jennings

Address: 601 N Marland Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 210-219-8858 Fax #:

Project #: 038411709D Project Owner:

Project Name: East Tank 3 Federal #005

Project Location: Eddy County

Sampler Name: Beaux Jennings

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: Oxy USA Inc.

Attn: Wade Dittrich

Address:

City:

State: Zip:

Phone #: 575-390-2828

Fax #:

ANALYSIS REQUEST

Lab I.D. Sample I.D.

Depth (feet)

HT33786

510-1

2

3

4

5

6

7

8

9

10

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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	nAPP2323352221
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Tyson Pierce	Contact Telephone: 575-390-3610
Contact email: Tyson_pierce@oxy.com	Incident # nAPP2323352221
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.42244 Longitude -103.76144
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Lost Tank 3 Federal #005	Site Type: Wellhead
Date Release Discovered: 06/26/2023	API# 30-015-30586

Unit Letter	Section	Township	Range	County
H	3	22S	31E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 25	Volume Recovered (bbls): 20
<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 type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Internal corrosion.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2323352221
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release is greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Wade Dittrich of Oxy via email to OCD.enviro@emnrd.nm.gov and BLM_NM_CFO_Spill@blm.gov on 08/16/2023 at 1038.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Tyson Pierce</u>	Title: <u>Environmental Specialist</u>
Signature: 	Date: <u>9/25/23</u>
email: <u>Tyson_pierce@oxy.com</u>	Telephone: <u>575-390-3610</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nAPP2323352221
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.


State of New Mexico
Oil Conservation Division

Incident ID	nAPP2323352221
District RP	
Facility ID	
Application ID	

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: Tyson Pierce

Title: Environmental Specialist

Signature: 

Date: 9/25/23

email: Tyson_pierce@oxy.com

Telephone: 575-390-3610

OCD Only

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2323352221
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: Tyson PierceTitle: Environmental Specialist

Signature: _____

Date: 9/25/23email: Tyson_pierce@oxy.comTelephone: 575-390-3610**OCD Only**

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

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 268887

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 268887
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2323352221 LOST TANK 3 FEDERAL #005, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/14/2024