



# ENSOLUM

## DEFERRAL REQUEST

Property:

**Mills 19 #001 CTB**

**Lea County, New Mexico  
32.37825 N, 103.72201 W  
NMOCD Incident ID: nAPP2302535216**

January 26, 2024  
Ensolum Project No. 03B1417072

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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# ENSOLUM

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Mills 19 #001 CTB

Lea County, New Mexico  
32.37825 N, 103.72201 W  
NMOCD Incident ID: nAPP2302535216

Ensolum Project No. 03B1417072

### 1.0 INTRODUCTION

#### 1.1 Executive Summary

- On January 23, 2023, a release of crude oil and produced water was reported from a failed transfer pump at the Mills 19 #001 CTB, hereinafter referred to as the "Site". Approximately 51 barrels (bbls) of crude oil and 34 bbls of produced water were released inside of the tank battery's earthen berm containment, affecting an area approximately 110 feet by 30 feet at the maximum extents. A vacuum truck was brought in and recovered approximately 48 bbls of crude oil and 32 bbls of produced water. The Remediation Work Plan, dated April 14, 2023, stated that the excavation would be treated with Micro-Blaze®, and an estimated 12 cubic yards (cy) would be excavated from the release area, if needed.
- Between February 22, 2023 and May 17, 2023, excavation and remediation activities were conducted at the Site, and Ensolum collected a total of 23 composite soil samples from 8 locations on the excavation floor (FS-1 through FS-8) depths ranging from 0.5 to 10 feet below ground surface (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 impacted area measured approximately 110 feet long by 10 to 30 feet wide, with a depth ranging from 1 to 10 feet bgs.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation 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.
- Due to the proximity of the release to active production equipment and surface pipelines, impacted soils remain in place at the Site and are limited to the areas immediately adjacent to and beneath active production equipment. The impacted soils remaining in place beneath the tank battery containment and equipment have been delineated horizontally and vertically.

**Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this Deferral Request, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for NMOCD Incident ID nAPP2302535216 until the Site is reconstructed, and/or decommissioned.**

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## 1.2 Site Description & Background

<b>Operator:</b>	Oxy USA Inc. (Oxy)
<b>Site Name:</b>	Mills 19 #001 CTB
<b>Location:</b>	Lea County, New Mexico 32.97825 N, 103.72201 W
<b>Property:</b>	Private
<b>Regulatory:</b>	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 ENMRD 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 is one water well identified within 1,000 feet of the Site. The well record is located approximately 98 feet southwest of the Site (C-02939). Based on a review of information in the database, the well has a total depth of 280 feet, with a depth to groundwater greater than 280 feet.
- 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.

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

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 January 23, 2023, a release of crude oil and produced water was reported from a failed transfer pump at the Mills 19 #001 CTB. Approximately 51 bbls of crude oil and 34 bbls of produced water were released inside of the tank battery’s earthen berm containment, affecting an area approximately 110 feet by 30 feet at the maximum extents. A vacuum truck was brought in and recovered approximately 48 bbls of crude oil and 32 bbls of produced water. The Remediation Work Plan, dated April 14, 2023, stated that the excavation would be treated with Micro-Blaze®, and an estimated additional 12 cy would be excavated from the release area, if needed.

On February 22, 2023, Ensolum and Tex-Mex Rentals & Services (Tex-Mex) arrived on-Site to conduct excavation activities within the release area. Subsequent to excavation activities, Ensolum collected a total of eight composite floor soil samples from eight locations (FS-1 through FS-8), from a depth of 0.5 feet to 1 foot bgs, within the excavation area. Based on laboratory analytical results, additional excavation at the Site was required.

Subsequent to additional excavation activities, Ensolum arrived on-Site on March 10, 2023 and collected a total of five additional composite floor soil samples (FS-1 through FS-4, and FS-8), from a depth of 2 feet bgs, within the excavation area. Based on laboratory analytical results, additional remediation at the Site was required.

Due to the spill area being in proximity to the tank battery, Micro-Blaze® was applied to the existing excavation area in relation to composite floor soil samples FS-1 through FS-4, and FS-8, and was given time to effectively breakdown hydrocarbons.

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On May 2, 2023, Ensolum arrived on-Site and collected a total of five additional composite floor samples (FS-1 through FS-4, and FS-8), from a depth of 2 feet bgs, within the treated excavation area. Based on laboratory analytical results, additional remediation at the Site was required.

On May 16 and 17, Ensolum and Tex-Mex arrived on-Site to conduct additional excavation activities within the release area. Subsequent to excavation activities, Ensolum collected a total of five composite floor soil samples from five locations (FS-1 through FS-4, and FS-8), from depths of 4 feet bgs (FS-2, FS-3, and FS-8), 8 feet bgs (FS-4), and 10 feet bgs (FS-1). Based on the laboratory analytical results, no additional excavation was required.

The final excavation area measured approximately impacted area measured approximately 110 feet long by 10 to 30 feet wide, with a depth ranging from 1 to 10 feet bgs.

The lithology encountered during the completion of sampling activities consisted primarily of brown windblown sand with an 18-inch caliche layer for the on-Site pad.

**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 composite soil sampling program included the collection of a total of 23 composite soil samples from 8 locations on the excavation floor (FS-1 through FS-8). The composite floor samples were collected at depths ranging from 0.5 to 10 feet bgs. The

The composite 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 or expedited laboratory analysis.

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite 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-Cl 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/MRO, and chloride concentrations associated with the final composite soil samples collected from the excavation floor (FS-1 through FS-8) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final composite soil samples range from below the laboratory sample detection limits (SDLs) to 0.246 milligrams per kilogram (mg/kg), which are below the applicable NMOCD Closure Criteria of 10 mg/kg.
- Laboratory analytical results indicate that total BTEX concentrations for the final composite soil samples range from below the laboratory SDLs to 20.3 mg/kg, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the final composite soil samples range from below the laboratory SDLs to 980 mg/kg, which are below the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.

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- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples range from below the laboratory SDLs to 1,086 mg/kg, which are below the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicate chloride concentrations for the final composite soil samples range from 96.0 mg/kg to 960 mg/kg, which 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**.

## 7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. 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.

## 8.0 DEFERRAL REQUEST

Oxy is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the spill area. The impacted soil is limited to the area immediately adjacent to and beneath active production equipment, where remediation would require a major facility deconstruction.

The impacted soil remaining in place beneath the tank battery containment and equipment is delineated vertically to depths ranging from 4 to 10 feet bgs. A maximum of 450 cubic yards of TPH impacted soil remains in place beneath the tank battery containment and equipment, based on the delineation soil samples listed above, that were compliant with the Closure Criteria.

Oxy does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 280 feet bgs, the release was contained laterally by the tank battery earthen berm and active production equipment, and the impacted soil remaining in place is limited to the area immediately beneath the tank battery equipment, and the locations immediately adjacent to composite soil sample locations FS-1 through FS-4 and FS-8 that could not be safely excavated.

**Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this Deferral Request, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for NMOCD Incident ID nAB1903659101 until the Site is reconstructed, and/or the well pad is abandoned.**

## 9.0 FINDINGS AND RECOMMENDATION

- On January 23, 2023, a release of crude oil and produced water was reported from a failed transfer pump at the Site. Approximately 51 bbls of crude oil and 34 bbls of produced water were released inside of the tank battery's earthen berm containment, affecting an area approximately 110 feet by 30 feet at the maximum extents. A vacuum truck was brought in and recovered approximately 48 bbls of crude oil and 32 bbls of produced water. The Remediation Work Plan, dated April 14, 2023, stated that the excavation would be treated with Micro-Blaze®, and an estimated 12 cy would be excavated from the release area, if needed.
- Between February 22, 2023 and May 17, 2023, excavation and remediation activities were conducted at the Site, and Ensolum collected a total of 23 composite soil samples from 8 locations on the excavation floor (FS-1 through FS-8) depths ranging from 0.5 to 10 feet bgs.

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- 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 for Soils Impacted by a Release using the NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately impacted area measured approximately 110 feet long by 10 to 30 feet wide, with a depth ranging from 1 to 10 feet bgs.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation did not exhibit benzene, total BTEX, total TPH, GRO, DRO, 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.
- Due to the proximity of the release to active production equipment and surface pipelines, impacted soils remain in place at the Site and are limited to the areas immediately adjacent to and beneath active production equipment. The impacted soils remaining in place beneath the tank battery containment and equipment have been delineated horizontally and vertically.

**Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this Deferral Request, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for NMOCD Incident ID nAB1903659101 until the Site is reconstructed, and/or the well pad is abandoned.**

## 10.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

### 10.1 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.

### 10.2 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.

### 10.3 Reliance

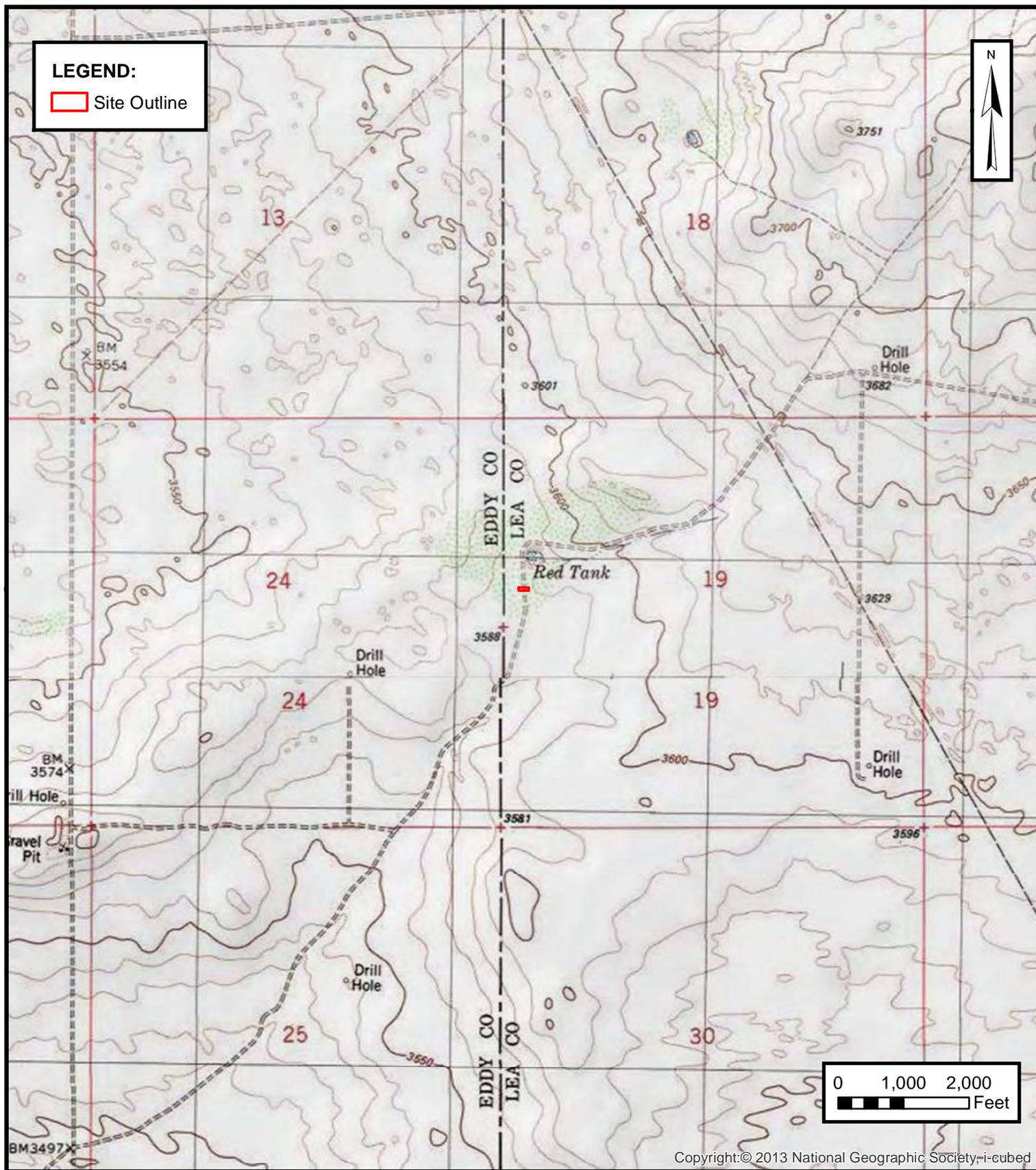
This report has been prepared for the exclusive use of Oxy USA, Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc. and Ensolum. Any unauthorized distribution 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



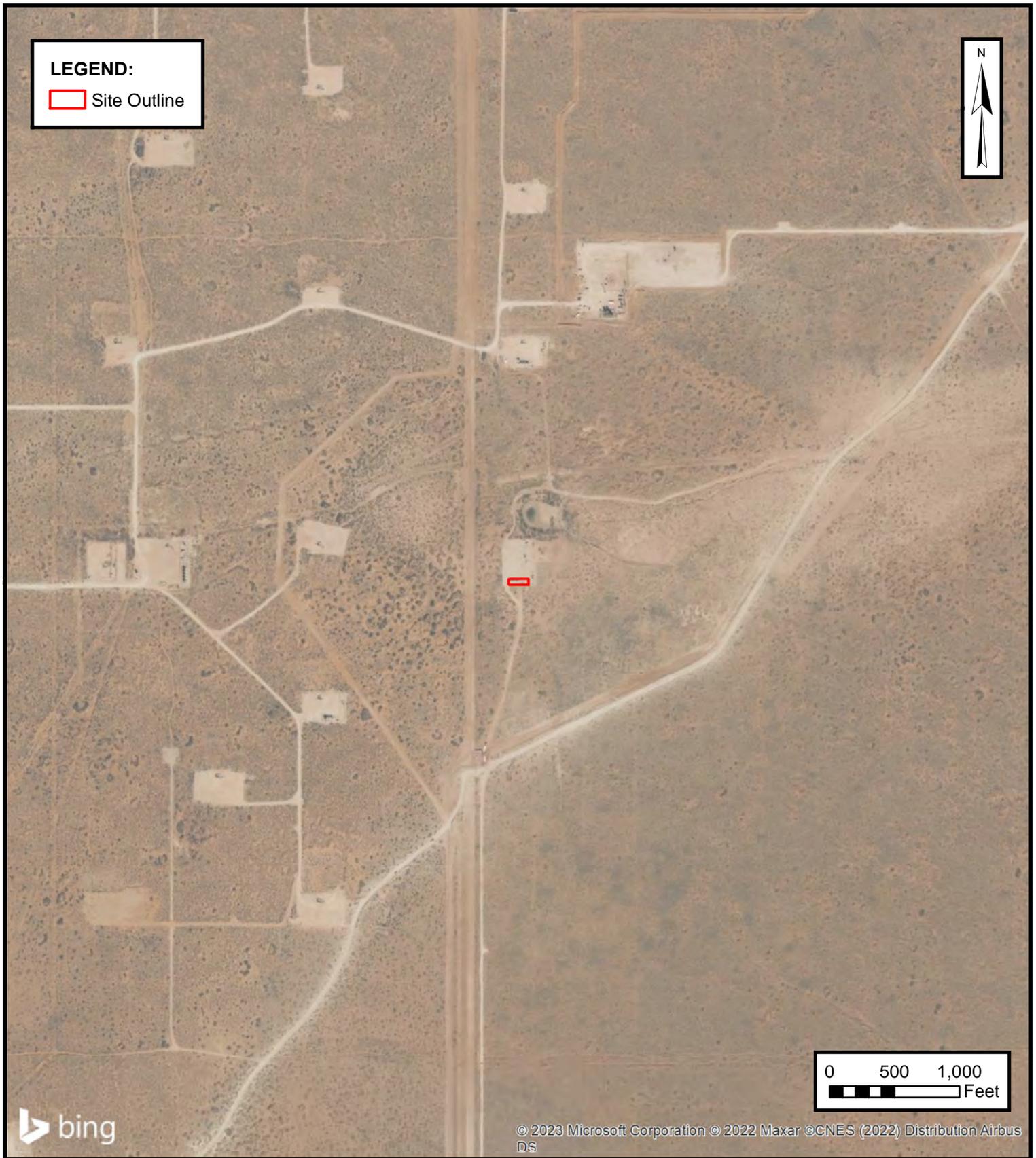


**TOPOGRAPHIC MAP**

OXY USA INC.  
 MILLS 19 1 CTB  
 Lea County, New Mexico  
 32.37825° N, 103.72201° W

PROJECT NUMBER: 03B1417072

**FIGURE**  
**1**

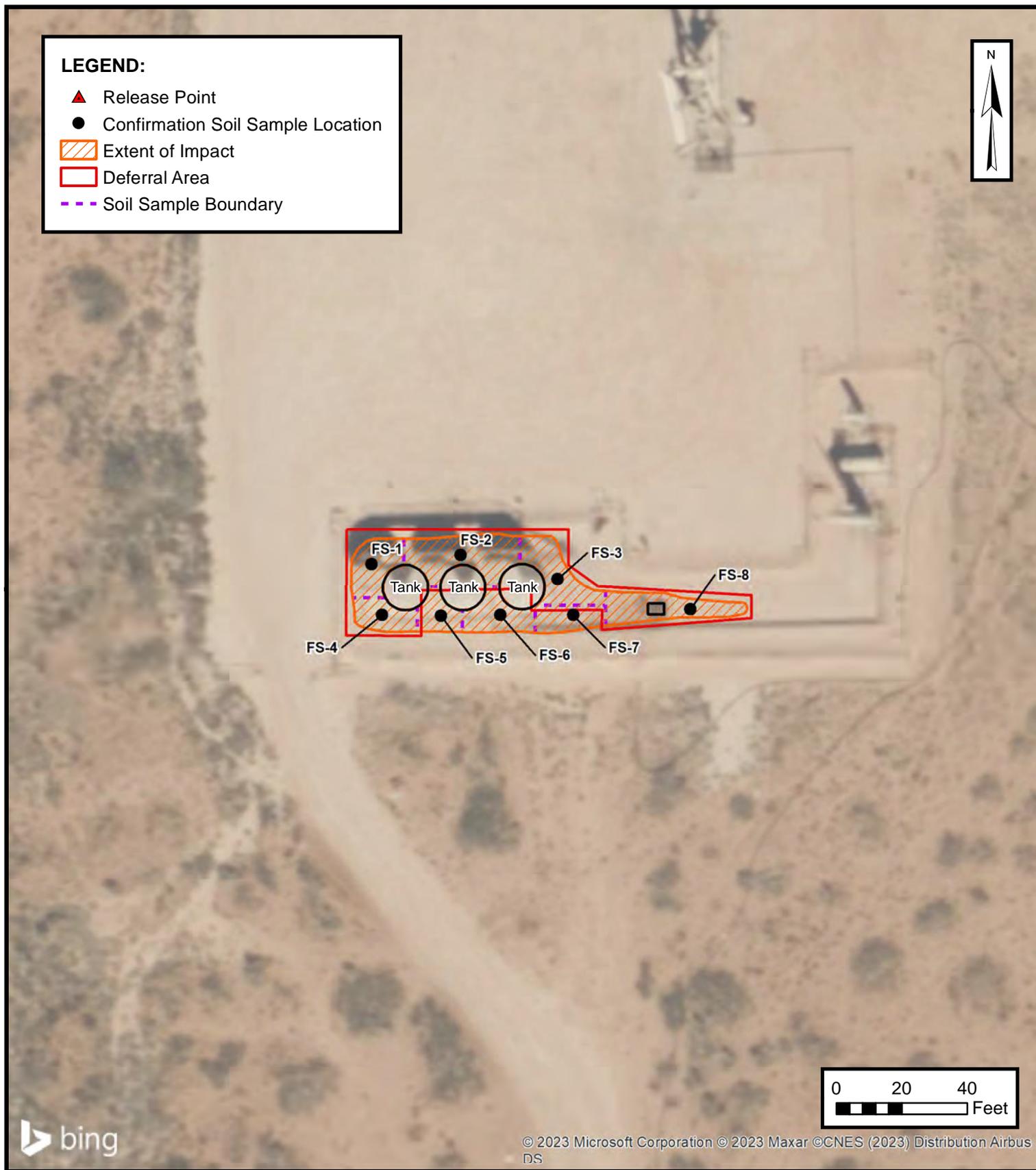


**SITE VICINITY MAP**

OXY USA INC.  
MILLS 19 1 CTB  
Lea County, New Mexico  
32.37825° N, 103.72201° W

PROJECT NUMBER: 03B1417072

**FIGURE**  
**2**



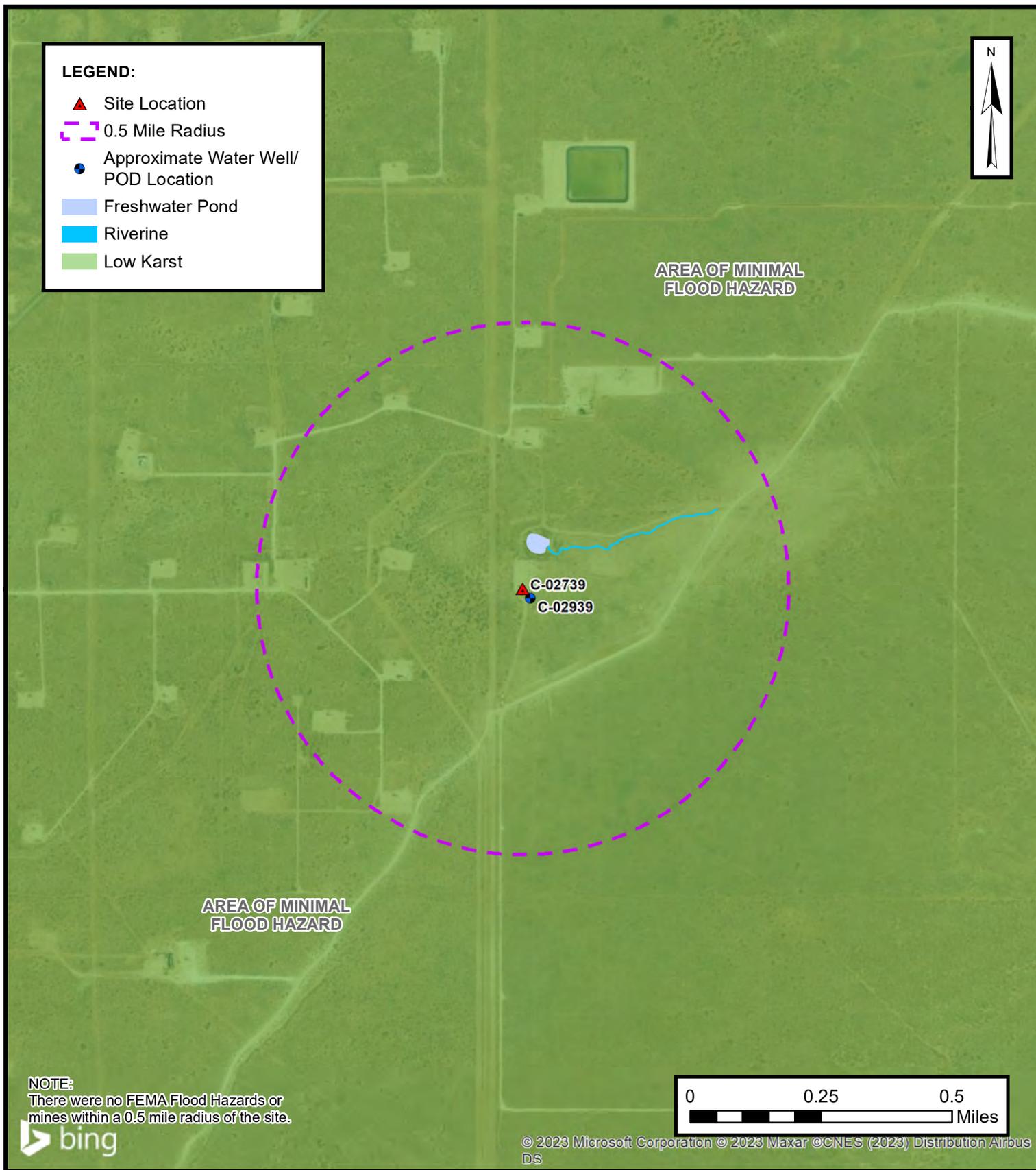
**SITE MAP**

OXY USA INC.  
MILLS 19 1 CTB  
Lea County, New Mexico  
32.37825° N, 103.72201° W

PROJECT NUMBER: 03B1417072

**FIGURE**

**3**



**CLOSURE CRITERIA MAP**

OXY USA INC.  
MILLS 19 1 CTB  
Lea County, New Mexico  
32.37825° N, 103.72201° W

PROJECT NUMBER: 03B1417072

**FIGURE**  
**4**



## APPENDIX B

### Supporting Documentation

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**Beaux Jennings**

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**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Monday, February 13, 2023 4:02 PM  
**To:** Beaux Jennings  
**Cc:** Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD  
**Subject:** RE: [EXTERNAL] Mills 19 #001 CTB (Incident ID # nAPP2302535216)

[ **\*\*EXTERNAL EMAIL\*\*** ]

Beaux,

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](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Beaux Jennings <bjennings@ensolum.com>  
**Sent:** Monday, February 13, 2023 12:54 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Mills 19 #001 CTB (Incident ID # nAPP2302535216)

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

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Mills 19 #001 CTB (Incident ID # nAPP2302535216) on Wednesday, February 15<sup>th</sup>. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
in f

**Beaux Jennings**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Monday, February 20, 2023 10:10 AM  
**To:** Beaux Jennings  
**Cc:** Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD  
**Subject:** RE: [EXTERNAL] Mills 19 #001 CTB (Incident ID # nAPP2302535216)

[ **\*\*EXTERNAL EMAIL\*\*** ]

Beaux,

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  
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[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



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**From:** Beaux Jennings <bjennings@ensolum.com>  
**Sent:** Friday, February 17, 2023 3:18 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Mills 19 #001 CTB (Incident ID # nAPP2302535216)

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

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Mills 19 #001 CTB (Incident ID # nAPP2302535216) on Wednesday, February 22<sup>nd</sup>. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
**in f**

## Beaux Jennings

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**From:** Beaux Jennings  
**Sent:** Tuesday, February 28, 2023 7:58 PM  
**To:** OCD.Enviro@emnrd.nm.gov  
**Subject:** Mills 19 #001 CTB (Incident ID # nAPP2302535216)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Mills 19 #001 CTB (Incident ID # nAPP2302535216) on Monday, March 6<sup>th</sup>. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
in f

# OSE POD Locations Map



4/10/2023, 4:05:18 PM

GIS WATERS PODs

● Active

● Pending

□ OSE District Boundary

Water Right Regulations

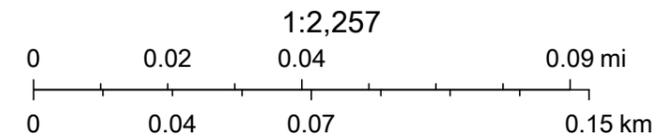
□ Closure Area

NHD Flowlines

— Artificial Path

— Stream River

□ SiteBoundaries



Maxar, Microsoft, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC

84

Revised June 1972

STATE ENGINEER OFFICE  
WELL RECORD

472398

Section 1. GENERAL INFORMATION

(A) Owner of well JC+Frances Mills Family Partnership Owner's Well No. \_\_\_\_\_  
Street or Post Office Address Box 1358  
City and State Loving, NM 88256

Well was drilled under Permit No. C-2939 and is located in the:

- a. NW ¼ SW ¼ SW ¼ \_\_\_\_\_ ¼ of Section 19 Township 22S Range 32E N.M.P.M.
- b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_
- c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
Subdivision, recorded in \_\_\_\_\_ County.
- d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
the \_\_\_\_\_ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348  
Address 7317 Etcheverry Rd., Carlsbad, NM 88220

Drilling Began 2/9/03 Completed 2/13/03 Type tools Rotary Size of hole 7 7/8 in.

Elevation of land surface or \_\_\_\_\_ at well is UK ft. Total depth of well 280 ft.

Completed well is  shallow  artesian. Depth to water upon completion of well \_\_\_\_\_ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
			Dry Hole	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

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

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

FOR USE OF STATE ENGINEER ONLY

Date Received March 17, 2003

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL

File No. C-2939 Use \_\_\_\_\_ Location No. 22S.32E.19.331

T 11901

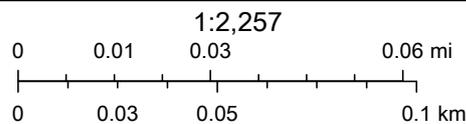
STATE ENGINEER OFFICE  
ROSSELL, NEW MEXICO  
2003 MAR 17 PM 4:04



# OCD Well Locations



4/10/2023, 4:07:58 PM



- OSE Water PODs    Karst Occurrence Potential
- Active            ■ Low
  - Pending        ■ PLSS Second Division
  - Wells - Large Scale    ■ PLSS First Division
  - Oil, Active

BLM, OCD, New Mexico Tech, Maxar, Microsoft, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., USGS, Esri, HERE, Garmin, iPC, BLM

New Mexico Oil Conservation Division



# Wetlands Map



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands\_team@fws.gov

April 10, 2023

### Wetlands

- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | 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.

# National Flood Hazard Layer FIRMMette



103°43'38"W 32°22'57"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 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**
  - 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



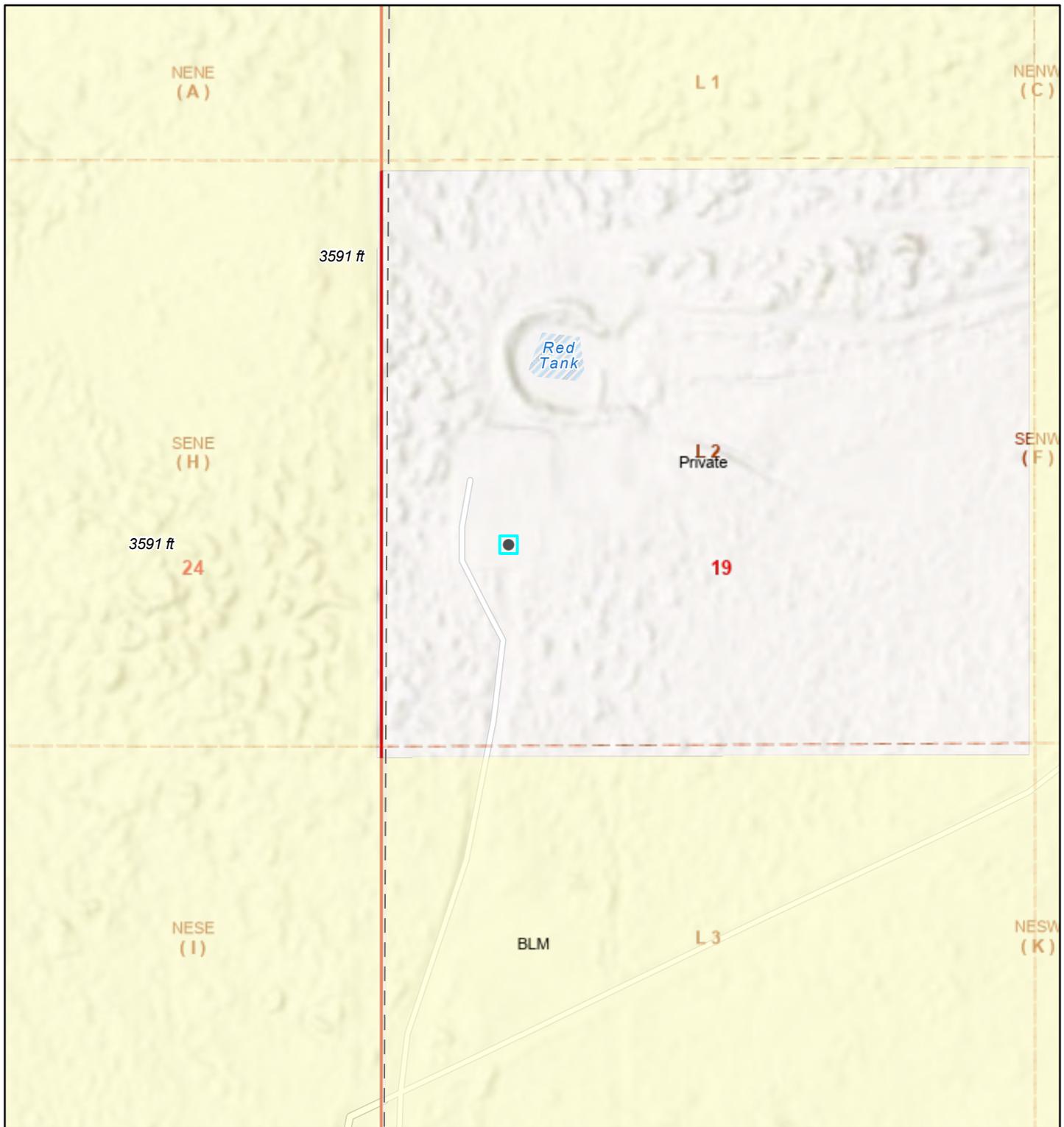
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 4/10/2023 at 5:01 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.

# Active Mines in New Mexico



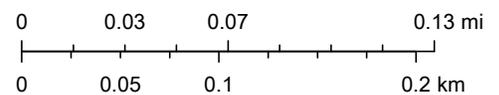
4/10/2023, 3:59:27 PM

Land Ownership   PLSS Second Division

  BLM   PLSS First Division

P

1:4,514



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 Census Bureau, USDA, Sources: Esri, Airbus DS, USGS, NGA, NASA,

EMNRD MMD GIS Coordinator



**Micro-Blaze**<sup>®</sup>

*Emergency Liquid Spill Control*

**PRODUCT  
INFORMATION**

**REMIEDIATES (LIST NOT EXHAUSTIVE)**

- Acetone
- Acrylonitrile
- AFFF Waste
- Anti-Freeze
- Aviation Fuels
- Benzene & Benzene Compounds
- Crude Oil
- Diesel Fuel
- Dimethylformamide
- Fats
- Gasoline
- Grease
- Glycols
- Hydrocarbon Waste
- Kerosene
- Methanol
- Methyl Tertiary Butyl Ether (MTBE)
- Motor Oil
- Odor
- Organic Chemical Waste
- Organic Waste
- Paint Sludge
- Pipeline Condensation
- Polyurethane Resin Waste
- Sludge
- Toluene

# Micro-Blaze®

## Emergency Liquid Spill Control

Micro-Blaze® Emergency Liquid Spill Control is a safe, non-toxic, microbial formulation used for the bioremediation of hydrocarbons and other organic compounds. It breaks down, degrades, and digests organic waste while also suppressing vapors and eliminating flammability. The proprietary combination of wetting agents, nutrients, and microbes makes it an ideal formulation for use on many pollutants found in spills and contaminated sites.

Our microbes are naturally occurring, not genetically engineered, and found in soils and waters all over the earth. These microbes have been carefully researched, tested, and chosen for their affinity to degrade hydrocarbons and other organic waste.

**USES**

- Clean up hydrocarbon spills/leaks
- Soil bioremediation
- Vapor suppression
- Equipment, tank, and pipeline cleaning

**BENEFITS**

- Safe and cost-effective method for in-situ bioremediation of contaminated soils and water
- Elimination of vapors and LELs, creating a safe working environment
- Residue and runoff can be safely sent to industrial and municipal WWTPs
- 10-year shelf life and easy to use concentrate make it convenient to maintain on hand for future emergencies or everyday usage
- Listed on EPA NCP List as a bioremediation agent for 30 years\*

\* This listing does not mean the EPA approves, recommends, licenses, certifies or authorizes the use of Micro-Blaze® Emergency Liquid Spill Control or any other product on an oil discharge. This listing only means that data has been submitted to EPA as required by subpart J of the NCP §300.915.

### Product Details

**Appearance:**

Cream to tan, opaque liquid, perfumed

**pH:**

7.0 - 8.0

**Shelf Life:**

10 Years

**Storage:**

Avoid temperatures over 48°C for long periods of time. Avoid prolonged freezing.

**CAUTION: KEEP OUT OF REACH OF CHILDREN.**  
Do not take internally. Avoid contact with eyes. Wash thoroughly after handling. Avoid breathing mist. Contains surfactants (soaps) which may irritate eyes or respiratory system. Use with adequate ventilation.

# APPLICATION

Micro-Blaze® is a liquid concentrate and must be diluted before application.

## DILUTION

Dilute with water between a 3% solution (3 parts Micro-Blaze®, 97 parts water) and a 10% solution (10 parts Micro-Blaze®, 90 parts water). Shake well before dilution and before application.

## APPLICATION

Spray the diluted Micro-Blaze® directly onto the contamination with as much agitation as possible until the area is completely saturated. You can use any delivery system/sprayer, such as hand-held sprayers, fire extinguishers, power washers, CAFS systems, and water trucks.

For soil remediation, tilling the soil after application will help in achieving optimal results, though it is not required where not feasible.

## HOW MUCH MICRO-BLAZE® DO I NEED?

1 gallon of Micro-Blaze® concentrate, after diluted, will treat either of the following:

- 10 gallons of spilled contamination
- 500 – 700 square feet of contaminated surface
- 5 – 7 cubic yards of contaminated soil

Contact a Micro-Blaze® sales representative for any additional application questions:  
[technical@micro-blaze.com](mailto:technical@micro-blaze.com)

# PRODUCT SIZES & SPECS



**1 Gallon Pail**

SKU MBELSC-1  
 Dimensions 8" x8" x12"  
 Weight 9 lbs



**5 Gallon Pail**

SKU MBELSC-5  
 Dimensions 12" x12" x15"  
 Weight 47 lbs  
 36 pails /pallet



**55 Gallon Drum**

SKU MBELSC-55  
 Dimensions 24" x 24" x35"  
 Weight 500 lbs  
 4 drums/pallet



**275 Gallon Tote**

SKU MBELSC-275  
 Dimensions 40" x48" x45"  
 Weight 2,500 lbs



**330 Gallon Tote**

SKU MBELSC-330  
 Dimensions 40" x48" x54"  
 Weight 3,000 lbs

## RELATED PRODUCTS:

CONCRETE STAIN REMOVER (CSR)



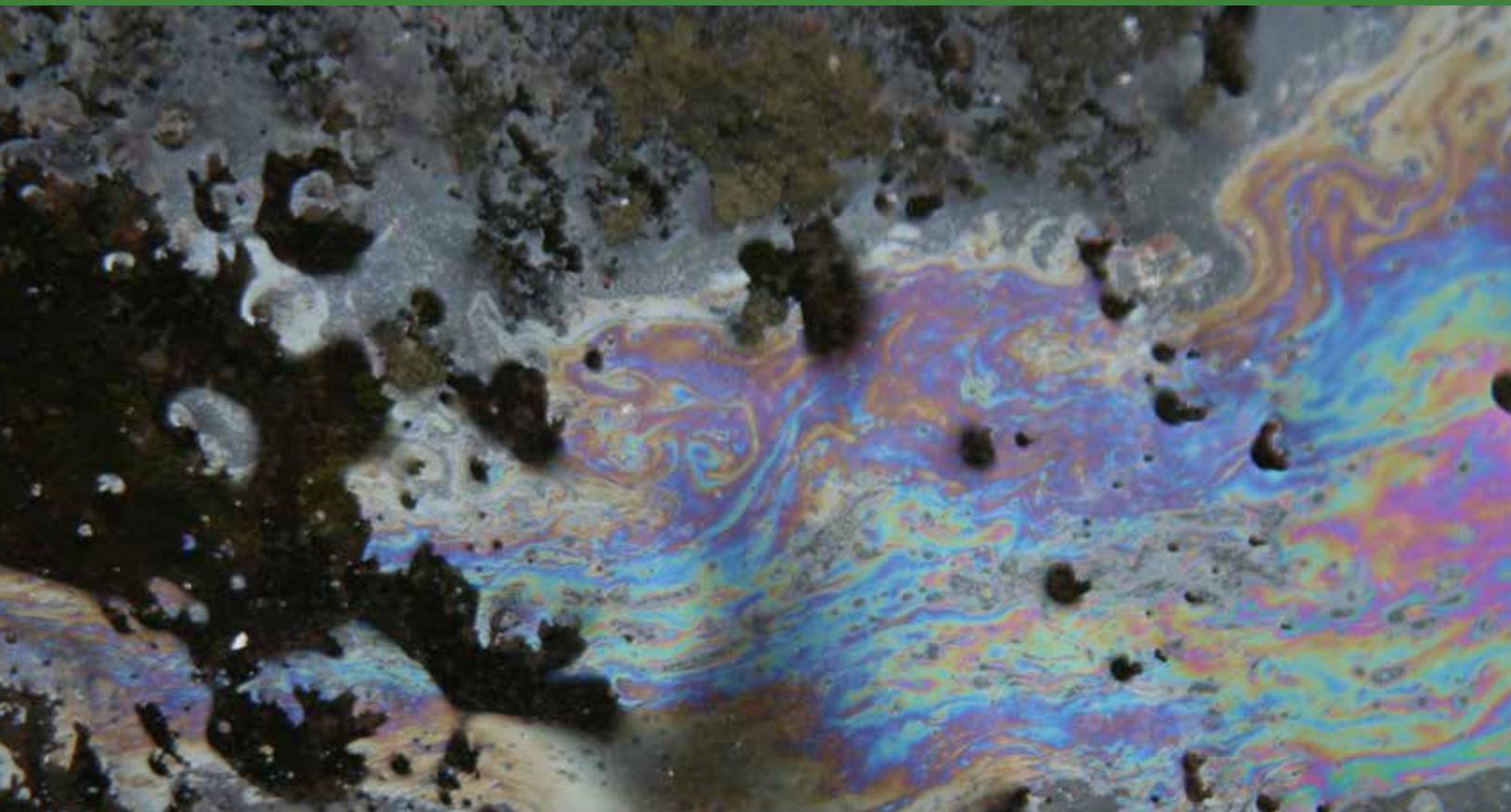
NON-FORMULATED



SCAN FOR MSDS  
 FOR ALL PRODUCTS

# PARTNERING WITH NATURE

## FOR A CLEANER TOMORROW



**Verde Environmental, Inc.**  
9223 Eastex Freeway  
Houston, TX 77093

Office: 713.691.6468  
Toll Free: 800.626.6598

[www.micro-blaze.com](http://www.micro-blaze.com)



Version 0522



## APPENDIX C

### Photographic Documentation

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View of impact area subsequent to release, facing southeast.



View of impact area subsequent to release, facing northeast.



View of impact area during excavation activities, facing northeast.



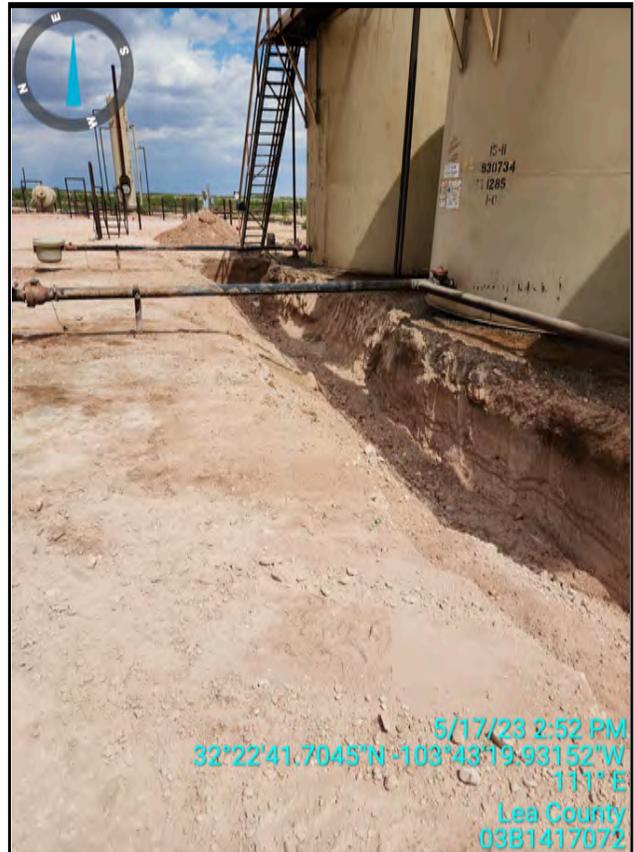
View of impact area during excavation activities, facing southeast.



View of impact area during excavation activities, facing southeast.



View of excavation activities, facing southeast.



View of excavation activities, facing southeast.



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## APPENDIX D

### Tables

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mills 19 1 CTB  
 Oxy USA, Inc.  
 Lea County, New Mexico  
 Ensolum Project No. 03B1417072

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)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (&gt; 100 feet)</b>			<b>10</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>1,000</b>	<b>NE</b>	<b>2,500</b>	<b>20,000</b>	
<b>Floor Sample Analytical Results</b>												
FS-1	02/22/2023	1	<b>6.83</b>	<b>45.2</b>	<b>22.3</b>	<b>88.3</b>	<b>163</b>	<b>33,220</b>	<b>4,250</b>	<b>37,470</b>	<b>576</b>	
	03/10/2023	2	NS					<b>23,870</b>	<b>2,780</b>	<b>26,650</b>	NS	
	05/02/2023	2	<b>0.246</b>	<b>2.26</b>	<b>1.95</b>	<b>9.03</b>	<b>13.5</b>	<b>12,736</b>	<b>2,680</b>	<b>15,416</b>	NS	
	05/17/2023	10	NS					<b>980</b>	<b>106</b>	<b>1,086</b>	NS	
FS-2	02/22/2023	1	<b>4.05</b>	<b>45.3</b>	<b>33.3</b>	<b>111</b>	<b>194</b>	<b>25,800</b>	<b>3,080</b>	<b>28,880</b>	<b>800</b>	
	03/10/2023	2	NS					<b>19,030</b>	<b>2,370</b>	<b>21,400</b>	NS	
	05/02/2023	2	<b>0.074</b>	<b>1.95</b>	<b>1.77</b>	<b>7.14</b>	<b>10.9</b>	<b>13,944</b>	<b>2,800</b>	<b>16,744</b>	NS	
	05/17/2023	4	NS					<b>584</b>	<b>109</b>	<b>693</b>	NS	
FS-3	02/22/2023	1	<b>4.02</b>	<b>35.0</b>	<b>24.5</b>	<b>89.0</b>	<b>152</b>	<b>30,620</b>	<b>4,050</b>	<b>34,670</b>	<b>960</b>	
	03/10/2023	2	NS					<b>7,700</b>	<b>910</b>	<b>8,610</b>	NS	
	05/02/2023	2	<0.050	<b>0.198</b>	<b>0.272</b>	<b>1.19</b>	<b>1.66</b>	<b>5,998</b>	<b>1,460</b>	<b>7,458</b>	NS	
	05/17/2023	4	NS					<b>203</b>	<b>25.4</b>	<b>228</b>	NS	
FS-4	02/22/2023	1	<0.200	<b>3.75</b>	<b>3.08</b>	<b>13.5</b>	<b>20.3</b>	<b>3,073</b>	<b>550</b>	<b>3,623</b>	<b>144</b>	
	03/10/2023	2	NS					<b>3,827</b>	<b>593</b>	<b>4,420</b>	NS	
	05/02/2023	2	NS					<b>1,780</b>	<b>583</b>	<b>2,363</b>	NS	
	05/17/2023	8	NS					<10.0	<10.0	<10.0	NS	
FS-5	02/22/2023	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>62.7</b>	<b>13.7</b>	<b>76.4</b>	<b>160</b>	
FS-6	02/22/2023	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>17.0</b>	<10.0	<b>17.0</b>	<b>160</b>	
FS-7	02/22/2023	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>164</b>	<b>25.9</b>	<b>190</b>	<b>112</b>	
FS-8	02/22/2023	0.5	<0.050	<b>0.251</b>	<b>0.549</b>	<b>2.62</b>	<b>3.42</b>	<b>2,173</b>	<b>332</b>	<b>2,505</b>	<b>96.0</b>	
	03/10/2023	2	NS					<b>2,700</b>	<b>506</b>	<b>3,206</b>	NS	
	05/02/2023	2	NS					<b>11,736</b>	<b>2,710</b>	<b>14,446</b>	NS	
	05/17/2023	4	NS					<b>30.0</b>	<10.0	<b>30.0</b>	NS	

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)

Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

NS: Not Sampled

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

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

---

February 27, 2023

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

RE: MILLS 19 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/22/23 12:17.

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](http://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.

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:	02/22/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: FS - 1 1' (H230831-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>6.83</b>	0.500	02/23/2023	ND	2.07	104	2.00	9.26	
<b>Toluene*</b>	<b>45.2</b>	0.500	02/23/2023	ND	2.05	103	2.00	7.96	
<b>Ethylbenzene*</b>	<b>22.3</b>	0.500	02/23/2023	ND	2.04	102	2.00	8.33	
<b>Total Xylenes*</b>	<b>88.3</b>	1.50	02/23/2023	ND	6.20	103	6.00	9.34	
<b>Total BTEX</b>	<b>163</b>	3.00	02/23/2023	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
<b>Chloride</b>	<b>576</b>	16.0	02/23/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4520</b>	100	02/23/2023	ND	210	105	200	4.62		
<b>DRO &gt;C10-C28*</b>	<b>28700</b>	100	02/23/2023	ND	198	99.1	200	5.89		
<b>EXT DRO &gt;C28-C36</b>	<b>4250</b>	100	02/23/2023	ND						

Surrogate: 1-Chlorooctane 317 % 48.2-134

Surrogate: 1-Chlorooctadecane 608 % 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:	02/22/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: FS - 2 1' (H230831-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>4.05</b>	0.500	02/23/2023	ND	2.07	104	2.00	9.26	
<b>Toluene*</b>	<b>45.3</b>	0.500	02/23/2023	ND	2.05	103	2.00	7.96	
<b>Ethylbenzene*</b>	<b>33.3</b>	0.500	02/23/2023	ND	2.04	102	2.00	8.33	
<b>Total Xylenes*</b>	<b>111</b>	1.50	02/23/2023	ND	6.20	103	6.00	9.34	
<b>Total BTEX</b>	<b>194</b>	3.00	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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
<b>Chloride</b>	<b>800</b>	16.0	02/23/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4300</b>	100	02/23/2023	ND	210	105	200	4.62		
<b>DRO &gt;C10-C28*</b>	<b>21500</b>	100	02/23/2023	ND	198	99.1	200	5.89		
<b>EXT DRO &gt;C28-C36</b>	<b>3080</b>	100	02/23/2023	ND						

Surrogate: 1-Chlorooctane 305 % 48.2-134

Surrogate: 1-Chlorooctadecane 459 % 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:	02/22/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: FS - 3 1' (H230831-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>4.02</b>	0.500	02/23/2023	ND	2.07	104	2.00	9.26	
<b>Toluene*</b>	<b>35.0</b>	0.500	02/23/2023	ND	2.05	103	2.00	7.96	
<b>Ethylbenzene*</b>	<b>24.5</b>	0.500	02/23/2023	ND	2.04	102	2.00	8.33	
<b>Total Xylenes*</b>	<b>89.0</b>	1.50	02/23/2023	ND	6.20	103	6.00	9.34	
<b>Total BTEX</b>	<b>152</b>	3.00	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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
<b>Chloride</b>	<b>960</b>	16.0	02/23/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>3920</b>	100	02/23/2023	ND	210	105	200	4.62		
<b>DRO &gt;C10-C28*</b>	<b>26700</b>	100	02/23/2023	ND	198	99.1	200	5.89		
<b>EXT DRO &gt;C28-C36</b>	<b>4050</b>	100	02/23/2023	ND						

Surrogate: 1-Chlorooctane 309 % 48.2-134

Surrogate: 1-Chlorooctadecane 582 % 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:	02/22/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: FS - 4 1' (H230831-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/23/2023	ND	2.14	107	2.00	9.48	
<b>Toluene*</b>	<b>3.75</b>	0.200	02/23/2023	ND	2.07	103	2.00	8.82	
<b>Ethylbenzene*</b>	<b>3.08</b>	0.200	02/23/2023	ND	1.96	97.9	2.00	8.35	
<b>Total Xylenes*</b>	<b>13.5</b>	0.600	02/23/2023	ND	5.97	99.4	6.00	7.67	
<b>Total BTEX</b>	<b>20.3</b>	1.20	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 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
<b>Chloride</b>	<b>144</b>	16.0	02/23/2023	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
<b>GRO C6-C10*</b>	<b>333</b>	50.0	02/23/2023	ND	210	105	200	4.62	
<b>DRO &gt;C10-C28*</b>	<b>2740</b>	50.0	02/23/2023	ND	198	99.1	200	5.89	
<b>EXT DRO &gt;C28-C36</b>	<b>550</b>	50.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	02/22/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: FS - 5 1' (H230831-05)**

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	02/23/2023	ND	2.19	110	2.00	13.7	
Toluene*	<0.050	0.050	02/23/2023	ND	2.12	106	2.00	14.0	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.03	102	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.16	103	6.00	13.1	
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
<b>Chloride</b>	<b>160</b>	16.0	02/23/2023	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	02/23/2023	ND	210	105	200	4.62	
<b>DRO &gt;C10-C28*</b>	<b>62.7</b>	10.0	02/23/2023	ND	198	99.1	200	5.89	
<b>EXT DRO &gt;C28-C36</b>	<b>13.7</b>	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 02/22/2023  
 Reported: 02/27/2023  
 Project Name: MILLS 19 1 CTB  
 Project Number: 03B1417072  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 6 1' (H230831-06)**

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	02/23/2023	ND	2.19	110	2.00	13.7	
Toluene*	<0.050	0.050	02/23/2023	ND	2.12	106	2.00	14.0	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.03	102	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.16	103	6.00	13.1	
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
<b>Chloride</b>	<b>160</b>	16.0	02/23/2023	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	02/23/2023	ND	210	105	200	4.62	
<b>DRO &gt;C10-C28*</b>	<b>17.0</b>	10.0	02/23/2023	ND	198	99.1	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 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: 02/22/2023  
 Reported: 02/27/2023  
 Project Name: MILLS 19 1 CTB  
 Project Number: 03B1417072  
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 7 1' (H230831-07)**

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	02/23/2023	ND	2.19	110	2.00	13.7	
Toluene*	<0.050	0.050	02/23/2023	ND	2.12	106	2.00	14.0	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.03	102	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.16	103	6.00	13.1	
Total BTEX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
<b>Chloride</b>	<b>112</b>	16.0	02/23/2023	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	02/23/2023	ND	210	105	200	4.62	
<b>DRO &gt;C10-C28*</b>	<b>164</b>	10.0	02/23/2023	ND	198	99.1	200	5.89	
<b>EXT DRO &gt;C28-C36</b>	<b>25.9</b>	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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:	02/22/2023	Sampling Date:	02/22/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: FS - 8 0.5' (H230831-08)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2023	ND	2.19	110	2.00	13.7	
<b>Toluene*</b>	<b>0.251</b>	0.050	02/23/2023	ND	2.12	106	2.00	14.0	
<b>Ethylbenzene*</b>	<b>0.549</b>	0.050	02/23/2023	ND	2.03	102	2.00	14.2	
<b>Total Xylenes*</b>	<b>2.62</b>	0.150	02/23/2023	ND	6.16	103	6.00	13.1	
<b>Total BTEX</b>	<b>3.42</b>	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 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
<b>Chloride</b>	<b>96.0</b>	16.0	02/23/2023	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
<b>GRO C6-C10*</b>	<b>313</b>	50.0	02/23/2023	ND	210	105	200	4.62	
<b>DRO &gt;C10-C28*</b>	<b>1860</b>	50.0	02/23/2023	ND	198	99.1	200	5.89	
<b>EXT DRO &gt;C28-C36</b>	<b>332</b>	50.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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*Celey D. Keene*

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
Project Manager: Beaux Jennings  
Address: 601 N Marientfeld Street, Suite 400  
City: Midland State: TX Zip: 79701  
Phone #: 210-219-8858 Fax #: Project Owner:  
Project #: 031H19072 Project Location: Mills 19 1 CTB  
Project Name: Lea County, NH  
Project Location: Lea County, NH

P.O. #: Company: Oxy USA Inc.  
Attn: Wade Dittrich  
Address:  
City: State: Zip:  
Phone #: 575-390-2828  
Fax #:

Sampler Name: Kelly Lawren  
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H230831	+S-1	1'	C	1	X							2/22/23	1005	BTEX 8021 B
	+S-2	1'	C	1	X							2/22/23	1010	TPH 8015M
	+S-3	1'	C	1	X							2/22/23	1015	Chlorides SM4500 CI-B
	+S-4	1'	C	1	X							2/22/23	1020	
	+S-5	1'	C	1	X							2/22/23	1025	
	+S-6	1'	C	1	X							2/22/23	1030	
	+S-7	1'	C	1	X							2/22/23	1035	
	+S-8	0.5'	C	1	X							2/22/23	1040	

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Relinquished By: [Signature]  
Date: 2/22/23  
Time: 1:17  
Received By: [Signature]  
Date: 2/22/23  
Time: 1:17  
REMARKS: Bienenmgs@ensolum.com

Delivered By: (Circle One) Observed Temp. °C: 54.2  
Sampler - UPS - Bus - Other: Corrected Temp. °C: 4.8  
Sample Condition: Cool Intact Yes No  
Checked By: [Signature]  
Turnaround Time: Standard Rush  
Thermometer ID #113C  
Corrosion Factor: 0.5C  
Bacteria (only) Sample Condition: Cool Intact Yes No  
Corrected Temp. °C

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

Custody Seal 2/22/23  
DATE: 2/22/23  
SIGNATURE: [Signature]



1000082  
Page 11 of 11



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

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March 15, 2023

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

RE: MILLS 19 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/10/23 13:42.

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](http://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".

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:	03/10/2023	Sampling Date:	03/10/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS 1 2' (H231116-01)**

TPH 8015M	mg/kg	Analyzed By: MS					S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>6670</b>	50.0	03/13/2023	ND	207	103	200	2.57		
<b>DRO &gt;C10-C28*</b>	<b>17200</b>	50.0	03/13/2023	ND	201	100	200	0.415		
<b>EXT DRO &gt;C28-C36</b>	<b>2780</b>	50.0	03/13/2023	ND						

Surrogate: 1-Chlorooctane                      288 %                      48.2-134  
 Surrogate: 1-Chlorooctadecane                      318 %                      49.1-148

**Sample ID: FS 2 2' (H231116-02)**

TPH 8015M	mg/kg	Analyzed By: MS					S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4730</b>	50.0	03/13/2023	ND	207	103	200	2.57		
<b>DRO &gt;C10-C28*</b>	<b>14300</b>	50.0	03/13/2023	ND	201	100	200	0.415		
<b>EXT DRO &gt;C28-C36</b>	<b>2370</b>	50.0	03/13/2023	ND						

Surrogate: 1-Chlorooctane                      246 %                      48.2-134  
 Surrogate: 1-Chlorooctadecane                      272 %                      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:	03/10/2023	Sampling Date:	03/10/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS 3 2' (H231116-03)**

TPH 8015M	mg/kg	Analyzed By: MS					S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>1970</b>	50.0	03/13/2023	ND	207	103	200	2.57		
<b>DRO &gt;C10-C28*</b>	<b>5730</b>	50.0	03/13/2023	ND	201	100	200	0.415		
<b>EXT DRO &gt;C28-C36</b>	<b>910</b>	50.0	03/13/2023	ND						

Surrogate: 1-Chlorooctane 156 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 155 % 49.1-148

**Sample ID: FS 4 2' (H231116-04)**

TPH 8015M	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>467</b>	10.0	03/13/2023	ND	207	103	200	2.57		
<b>DRO &gt;C10-C28*</b>	<b>3360</b>	10.0	03/13/2023	ND	201	100	200	0.415		
<b>EXT DRO &gt;C28-C36</b>	<b>593</b>	10.0	03/13/2023	ND						

Surrogate: 1-Chlorooctane 151 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 128 % 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:	03/10/2023	Sampling Date:	03/10/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS 8 2' (H231116-05)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>220</b>	10.0	03/13/2023	ND	207	103	200	2.57	
<b>DRO &gt;C10-C28*</b>	<b>2480</b>	10.0	03/13/2023	ND	201	100	200	0.415	
<b>EXT DRO &gt;C28-C36</b>	<b>506</b>	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane      125 %      48.2-134

Surrogate: 1-Chlorooctadecane      115 %      49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celey D. Keene

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**

**BILL TO**

**ANALYSIS REQUEST**

<b>Company Name:</b> Ensolum, LLC	<b>P.O. #:</b>
<b>Project Manager:</b> Beaux Jennings	<b>Company:</b> Oxy USA, Inc.
<b>Address:</b> 601 N. Marlenfeld St. STE 400	<b>Attn:</b> Wade Dittich
<b>City:</b> Midland	<b>Address:</b>
<b>Phone #:</b> 210-219-8858	<b>State:</b> TX <b>Zip:</b> 79701
<b>Project #:</b> 0381417072	<b>City:</b>
<b>Project Name:</b> Mills 19 1 CTD	<b>State:</b> <b>Zip:</b>
<b>Project Location:</b> 32.37825, -103.72201	<b>Phone #:</b> 575-390-2828
<b>Sampler Name:</b> Kailee Smith	<b>Fax #:</b>

Lab I.D.	Sample I.D.	Sample Depth (feet)	# CONTAINERS		MATRIX						DATE	TIME	TPH	
			(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				ACID/BASE:
A231116	FS-1	2'	1	1	X							3-10-23	1142	X
	FS-2	2'	1	1	X							3-10-23	1144	X
	FS-3	2'	1	1	X							3-10-23	1146	X
	FS-4	2'	1	1	X							3-10-23	1148	X
	FS-5	2'	1	1	X							3-10-23	1150	X
	N/A													
	VS													

PLEASE NOTE: Liability and Damages: Cardinal's liability and claims are limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

**Relinquished By:** [Signature] **Date:** 3-10-23 **Received By:** [Signature] **Date:** 3-10-23

**Relinquished By:** [Signature] **Date:** 3-10-23 **Received By:** [Signature] **Date:** 3-10-23

**Observed Temp. °C:** 3.1 **Corrected Temp. °C:** 2.5

**Sample Condition:** Cool Intact  Yes  No

**Checked By:** [Signature]

**Turnaround Time:** Standard  Rush

**Bacteria (only) Sample Condition:** Cool Intact  Yes  No

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

**REMARKS:**

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



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

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May 04, 2023

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

RE: MILLS 19 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/02/23 11:25.

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](http://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.

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:	05/02/2023	Sampling Date:	05/02/2023
Reported:	05/04/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS - 1 (H232147-01)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.246</b>	0.050	05/03/2023	ND	1.99	99.5	2.00	6.88	
<b>Toluene*</b>	<b>2.26</b>	0.050	05/03/2023	ND	2.00	100	2.00	7.13	
<b>Ethylbenzene*</b>	<b>1.95</b>	0.050	05/03/2023	ND	2.01	100	2.00	7.22	
<b>Total Xylenes*</b>	<b>9.03</b>	0.150	05/03/2023	ND	6.17	103	6.00	7.06	
<b>Total BTEX</b>	<b>13.5</b>	0.300	05/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 263 % 71.5-134

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>436</b>	50.0	05/03/2023	ND	217	108	200	1.76	
<b>DRO &gt;C10-C28*</b>	<b>12300</b>	50.0	05/03/2023	ND	209	104	200	3.03	
<b>EXT DRO &gt;C28-C36</b>	<b>2680</b>	50.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 290 % 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:	05/02/2023	Sampling Date:	05/02/2023
Reported:	05/04/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS - 2 (H232147-02)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.074</b>	0.050	05/03/2023	ND	1.99	99.5	2.00	6.88	
<b>Toluene*</b>	<b>1.95</b>	0.050	05/03/2023	ND	2.00	100	2.00	7.13	
<b>Ethylbenzene*</b>	<b>1.77</b>	0.050	05/03/2023	ND	2.01	100	2.00	7.22	
<b>Total Xylenes*</b>	<b>7.14</b>	0.150	05/03/2023	ND	6.17	103	6.00	7.06	
<b>Total BTEX</b>	<b>10.9</b>	0.300	05/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 258 % 71.5-134

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>544</b>	50.0	05/03/2023	ND	217	108	200	1.76	
<b>DRO &gt;C10-C28*</b>	<b>13400</b>	50.0	05/03/2023	ND	209	104	200	3.03	
<b>EXT DRO &gt;C28-C36</b>	<b>2800</b>	50.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 141 % 48.2-134

Surrogate: 1-Chlorooctadecane 297 % 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:	05/02/2023	Sampling Date:	05/02/2023
Reported:	05/04/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS - 3 (H232147-03)**

BTEX 8021B	mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2023	ND	1.99	99.5	2.00	6.88	
<b>Toluene*</b>	<b>0.198</b>	0.050	05/02/2023	ND	2.00	100	2.00	7.13	
<b>Ethylbenzene*</b>	<b>0.272</b>	0.050	05/02/2023	ND	2.01	100	2.00	7.22	
<b>Total Xylenes*</b>	<b>1.19</b>	0.150	05/02/2023	ND	6.17	103	6.00	7.06	
<b>Total BTEX</b>	<b>1.66</b>	0.300	05/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 71.5-134

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>98.0</b>	50.0	05/03/2023	ND	217	108	200	1.76	
<b>DRO &gt;C10-C28*</b>	<b>5900</b>	50.0	05/03/2023	ND	209	104	200	3.03	
<b>EXT DRO &gt;C28-C36</b>	<b>1460</b>	50.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 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:	05/02/2023	Sampling Date:	05/02/2023
Reported:	05/04/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS - 4 (H232147-04)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/03/2023	ND	217	108	200	1.76	
<b>DRO &gt;C10-C28*</b>	<b>1780</b>	50.0	05/03/2023	ND	209	104	200	3.03	
<b>EXT DRO &gt;C28-C36</b>	<b>583</b>	50.0	05/03/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	67.5 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.3 %	49.1-148							

**Sample ID: FS - 8 (H232147-05)**

TPH 8015M	mg/kg	Analyzed By: MS								S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	236	50.0	05/03/2023	ND	217	108	200	1.76		
<b>DRO &gt;C10-C28*</b>	<b>11500</b>	50.0	05/03/2023	ND	209	104	200	3.03		
<b>EXT DRO &gt;C28-C36</b>	<b>2710</b>	50.0	05/03/2023	ND						
<hr/>										
Surrogate: 1-Chlorooctane	114 %	48.2-134								
Surrogate: 1-Chlorooctadecane	281 %	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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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

May 19, 2023

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

RE: MILLS 19 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/18/23 12:41.

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](http://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,

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:	05/18/2023	Sampling Date:	05/17/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS - 1 10' (H232517-01)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>202</b>	10.0	05/19/2023	ND	173	86.4	200	7.58	
<b>DRO &gt;C10-C28*</b>	<b>778</b>	10.0	05/19/2023	ND	183	91.7	200	10.9	
<b>EXT DRO &gt;C28-C36</b>	<b>106</b>	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane                      129 %                      48.2-134  
 Surrogate: 1-Chlorooctadecane                      143 %                      49.1-148

**Sample ID: FS - 2 4' (H232517-02)**

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	05/19/2023	ND	173	86.4	200	7.58	
<b>DRO &gt;C10-C28*</b>	<b>584</b>	10.0	05/19/2023	ND	183	91.7	200	10.9	
<b>EXT DRO &gt;C28-C36</b>	<b>109</b>	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane                      106 %                      48.2-134  
 Surrogate: 1-Chlorooctadecane                      136 %                      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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	05/18/2023	Sampling Date:	05/16/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS - 3 4' (H232517-03)**

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	05/18/2023	ND	173	86.4	200	7.58	
<b>DRO &gt;C10-C28*</b>	<b>203</b>	10.0	05/18/2023	ND	183	91.7	200	10.9	
<b>EXT DRO &gt;C28-C36</b>	<b>25.4</b>	10.0	05/18/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	98.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	118 %	49.1-148							

**Sample ID: FS - 4 8' (H232517-04)**

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	05/18/2023	ND	173	86.4	200	7.58	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	183	91.7	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	103 %	48.2-134							
Surrogate: 1-Chlorooctadecane	116 %	49.1-148							

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**Analytical Results For:**

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

Received:	05/18/2023	Sampling Date:	05/16/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Shalyn Rodriguez
Project Location:	32.37825, -103.72201 LEA CO, NM		

**Sample ID: FS - 8 4' (H232517-05)**

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	05/18/2023	ND	173	86.4	200	7.58	
<b>DRO &gt;C10-C28*</b>	<b>30.0</b>	10.0	05/18/2023	ND	183	91.7	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	99.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	113 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



Incident ID	nAPP2302535216
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: Wade Dittrich Title: Environmental Specialist  
 Signature:  Date: \_\_\_\_\_  
 email: wade\_dittrich@oxy.com Telephone: 575-390-2828

**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: \_\_\_\_\_

Incident ID	nAPP2302535216
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Wade Dittrich Title: Environmental Specialist  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 email: wade\_dittrich@oxy.com Telephone: 575-390-2828

**OCD Only**

Received by: Michael Buchanan Date: 02/20/2024

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: Michael Buchanan Date: 02/20/2024

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
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**District IV**  
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 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**

QUESTIONS

Action 308911

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 308911
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2302535216
Incident Name	NAPP2302535216 MILLS 19 #001 CTB @ 0
Incident Type	Release Other
Incident Status	Deferral Request Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	MILLS 19 #001 CTB
Date Release Discovered	01/23/2023
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Pump   Crude Oil   Released: 51 BBL   Recovered: 48 BBL   Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 34 BBL   Recovered: 32 BBL   Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 308911

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 308911
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/29/2024
--	---

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**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 308911
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	960
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	37470
GRO+DRO (EPA SW-846 Method 8015M)	33200
BTEX (EPA SW-846 Method 8021B or 8260B)	194
Benzene (EPA SW-846 Method 8021B or 8260B)	6.8

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

On what estimated date will the remediation commence	02/22/2023
On what date will (or did) the final sampling or liner inspection occur	05/17/2023
On what date will (or was) the remediation complete(d)	05/17/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2200
What is the estimated volume (in cubic yards) that will be remediated	12

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 308911

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 308911
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/29/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 308911

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	308911
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Due to the proximity of the spill surrounding the tanks, impacts adjacent to and underneath the tanks must remain in place until deconstruction of the pad/equipment.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2200
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	12
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (##) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-35918 MILLS 19 #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/29/2024

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Action 308911

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 308911
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 308911

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 308911
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Deferral approved. Deferral is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	2/20/2024