



**CLOSURE REPORT**

Property:

**Lost Tank 3 Federal #015**

**Unit E, S3, T22S, R31E  
32.420826° N, 103.773545° W  
Eddy County, New Mexico  
API: 30-015-37951  
NMOCD Incident ID: nAPP2415049012**

November 22, 2024

Ensolum Project No. 03B1417186

Prepared for:

**Oxy USA, Inc.  
PO Box 4324  
Houston, Texas 77210**

**Attn: Wade Dittrich**

Prepared by:

  
\_\_\_\_\_  
Kelly Lowery, GIT  
Project Geologist

  
\_\_\_\_\_  
Heather Holthaus  
Senior Project Manager

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**CLOSURE REPORT****Lost Tank 3 Federal #015**

**Unit E, S3, T22S, R31E**  
**32.420826° N, 103.773545° W**  
**Eddy County, New Mexico**  
**API: 30-015-37951**  
**NMOCD Incident ID: nAPP2415049012**

**Ensolum Project No. 03B1417186**

**1.0 INTRODUCTION****1.1 Site Description and Background**

<b>Operator:</b>	Oxy USA, INC.
<b>Site Name:</b>	Lost Tank 3 Federal #015
<b>Location:</b>	Unit E, Section 3, Township 22 South, Range 31 East American Petroleum Institute (API): 30-015-37951 32.420826° N, 103.773545° W Eddy County, New Mexico
<b>Property:</b>	Federal land managed by the Bureau of Land Management (BLM)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On May 27, 2024, Oxy had a release of produced oil and produced water at the Site due to a flow line leak. Approximately 10 barrels (bbls) of produced oil and 4 bbls of produced water were released onto the ground surface with 8 bbls of produced oil and 1 bbl of produced water recovered. Oxy subsequently reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on May 29, 2024. The release was assigned Incident Number nAPP2415049012.

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

**1.2 Project Objective**

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soil to be in compliance with the applicable New Mexico EMNRD OCD closure criteria concentrations.

**2.0 CLOSURE CRITERIA**

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by 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.



Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

- One exploratory water well was identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. Well record C-04686-POD1 is located within 0.40-miles west of the Site and was installed in 2022 to a depth of 120 feet below ground surface (bgs) with no groundwater encountered.
- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a 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 households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database, no freshwater wells have been identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (NMSA) 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's Geographical Information System (GIS), Maps, and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is not located within an unstable area, also referred to as medium, high, or critical karst potential.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, the regional depth to groundwater, and the location of the release on an active production pad, cleanup goals for soils remaining in place at the Site include:

CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE (NON-VEGETATIVE ZONE)			
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+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg



	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
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CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE (VEGETATIVE ZONE)			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### 3.0 SOIL REMEDIATION ACTIVITIES

On May 27, 2024, Oxy had a release of produced oil and produced water at the Site due to a flow line leak. Approximately 10 bbls of produced oil and 4 bbls of produced water were released onto the ground surface with 8 bbls of produced oil and 1 bbl of produced water recovered.

From May 31, 2024 through October 9, 2024, excavation, remediation and sampling activities were conducted at the Site.

On September 16, 2024, Ensolum arrived on-Site to collect 11 composite soil samples from the excavation floor (FS01 through FS11) at a depth of 1 foot bgs and 3 composite soil samples from the excavation sidewalls (SW01 through SW03) at depths of 0-1 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

On October 9, 2024, subsequent to additional excavation activities, Ensolum arrived on-Site to collect 2 composite soil samples from the excavation floor (FS02 and FS03) at a depth of 2 feet bgs, and 2 composite soil samples from the excavation sidewalls (SW02 and SW03) at depths of 0-2 and 0-1 feet bgs respectively. Based on laboratory analytical data, no additional excavation and/or remediation was required.

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

The final excavation area measured approximately 122 feet long and 36 feet wide at the maximum extents, with a depth ranging from 1 to 2 feet bgs.

The lithology encountered during the completion of closure activities consisted primarily of gravelly loam, with some stony loam present.



The excavation measured approximately 2,025 square feet in arial extent. A total of approximately 105 cubic yards (cy) of soil were excavated from the Site and hauled off for proper disposal at the Lea Land Facility located in Hobbs, New Mexico. After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Stacy Mills Pit (Mills Ranch Pit) and re-contoured to match pre-existing conditions.

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

#### 4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from May 31, 2024, through October 9, 2024, included the collection of a total of 13 composite soil samples from 11 locations from the excavation floor (FS01 through FS11) and 5 composite soil samples from 3 locations from the excavation sidewalls (SW01 through SW03). Additionally, one composite soil sample was collected from the backfill material (Mills Ranch Pit) on September 30, 2024 prior to use at the Site.

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, under proper chain-of-custody procedures.

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

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

Laboratory analytical results are summarized in **Table 1**, **Table 2**, and **Table 3** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

#### 6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH-GRO/DRO/MRO, and chloride concentrations to laboratory sample detection limits (SDLs) associated with the soils remaining in place at the Site to the applicable NMOCD Closure Criteria. The final composite soil samples collected from the Non-Vegetative Zone were compared to the NMOCD Closure Criteria for Soils Impacted by a Release (Non-Vegetative Zone), while the final composite soil samples collected from the Vegetative Zones were compared to the NMOCD Closure Criteria for Soils Impacted by a Release (Vegetative Zone).

- Laboratory analytical results indicated benzene concentrations for the soils remaining in place at the Site, and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the soils remaining in place at the Site and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated that combined TPH-GRO/DRO concentrations for the soils remaining in place at the Site in the Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.



- Laboratory analytical results indicated that combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site in the Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 20,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated that combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site in Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site in the Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤50 feet.

Laboratory analytical results are summarized in **Table 1**, **Table 2**, and **Table 3** 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. A composite soil sample was collected from the backfill material prior to use at the Site. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade. Since the release area was on an active facility pad in an area reasonably needed for production operations or for subsequent drilling operations, no reclamation or re-vegetation was required at this time per 19.15.29.13 NMAC.

## 8.0 FINDINGS AND RECOMMENDATION

- On May 27, 2024, Oxy had a release of produced oil and produced water at the Site due to a flow line leak. Approximately 10 bbls of produced oil and 4 bbls of produced water were released onto the ground surface with 8 bbls of produced oil and 1 bbl of produced water recovered.
- Ensolum's soil sampling program from May 31, 2024, through October 9, 2024, included the collection of a total of 13 composite soil samples from 11 locations from the excavation floor (FS01 through FS11) and 5 composite soil samples from 3 locations from the excavation sidewalls (SW01 through SW03). Additionally, one composite soil sample was collected from the backfill material (Mills Ranch Pit) on September 30, 2024 prior to use at the Site.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance.
- The final excavation area measured approximately 122 feet long and 36 feet wide at the maximum extents, with a depth ranging from 1 to 2 feet bgs.
- Based on laboratory analytical results, the final composite soil samples within the impacted area, final confirmation delineation soil samples, and the backfill material did



- not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- After completion of confirmation sampling, the backfill of the excavation was completed utilizing material purchased locally from the Stacy Mills Pit (Mills Ranch Pit) and recontoured to match pre-existing conditions.

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

## **9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE**

### **9.1 Standard of Care**

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

### **9.2 Limitations**

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

### **9.3 Reliance**

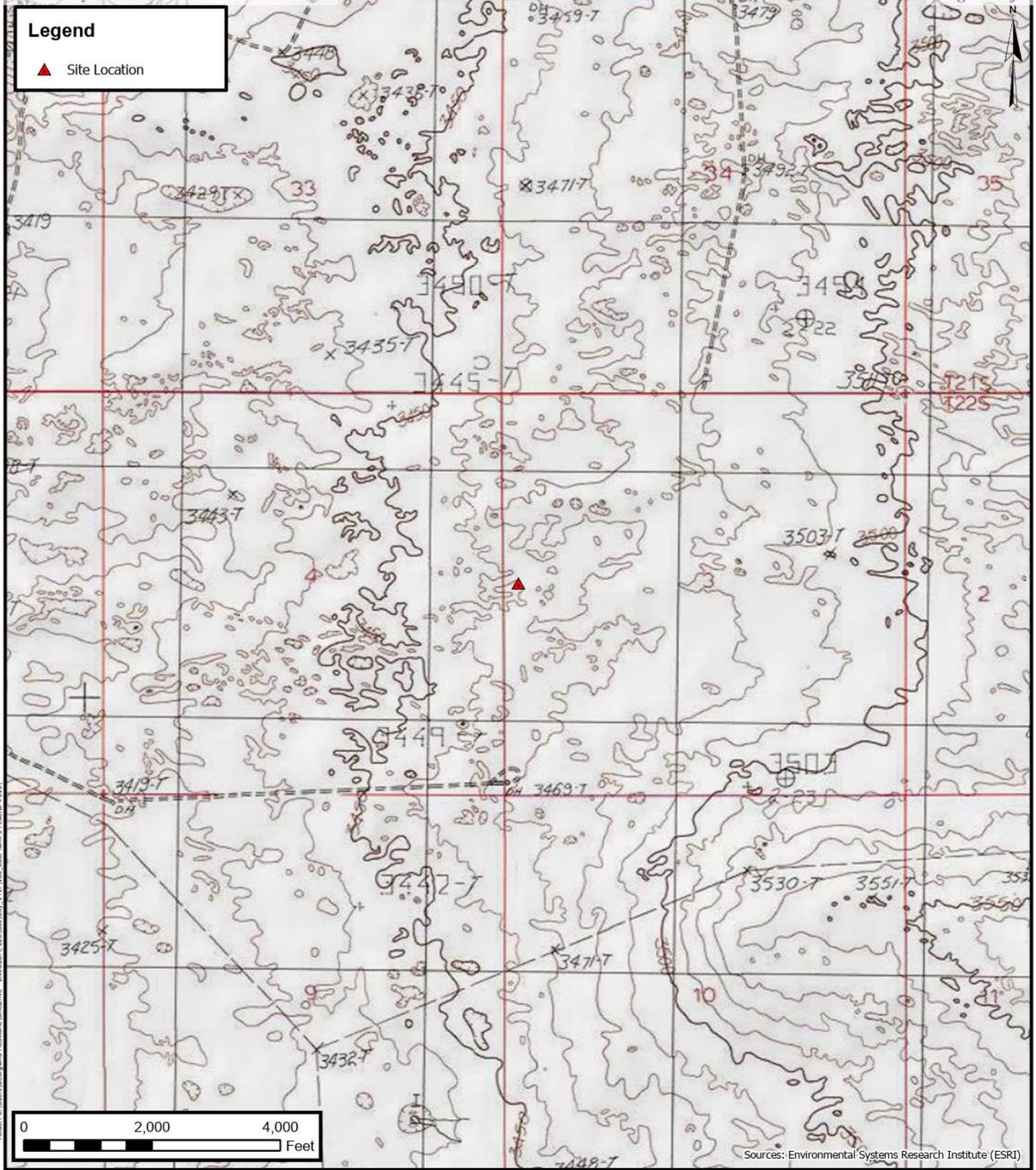
This report has been prepared for the exclusive use of Oxy USA Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Oxy USA Inc. and Ensolum. Any unauthorized distribution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

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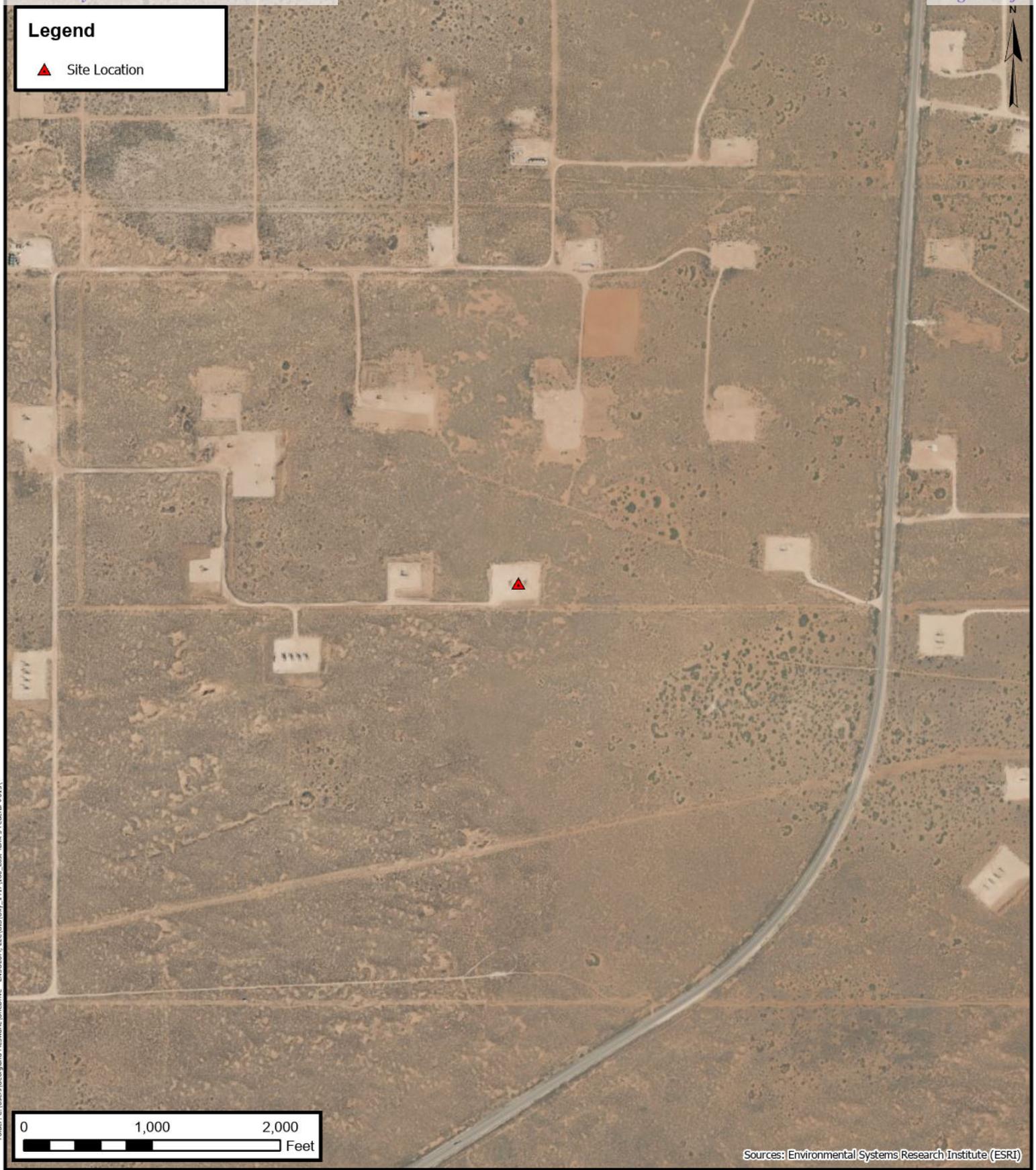


**ENSOLUM**  
 Environmental, Engineering and  
 Hydrogeologic Consultants

**Topographic Map**  
 Oxy USA Inc.  
 Lost Tank 3 Federal #015  
 32.420826° N, 103.773545° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417186

**FIGURE**  
 1



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### Site Vicinity Map

Oxy USA Inc.  
 Lost Tank 3 Federal #015  
 32.420826° N, 103.773545° W  
 Eddy County, New Mexico

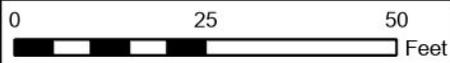
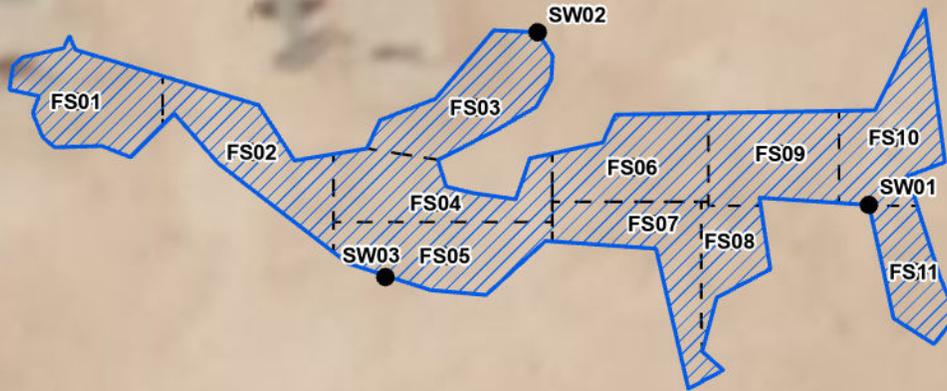
PROJECT NUMBER: 03B1417186

### FIGURE

### 2

**Legend**

- Confirmation Soil Sample Location
- ▨ Excavation Extent
- - - Composite Soil Sample Boundary



Sources: Environmental Systems Research Institute (ESRI)



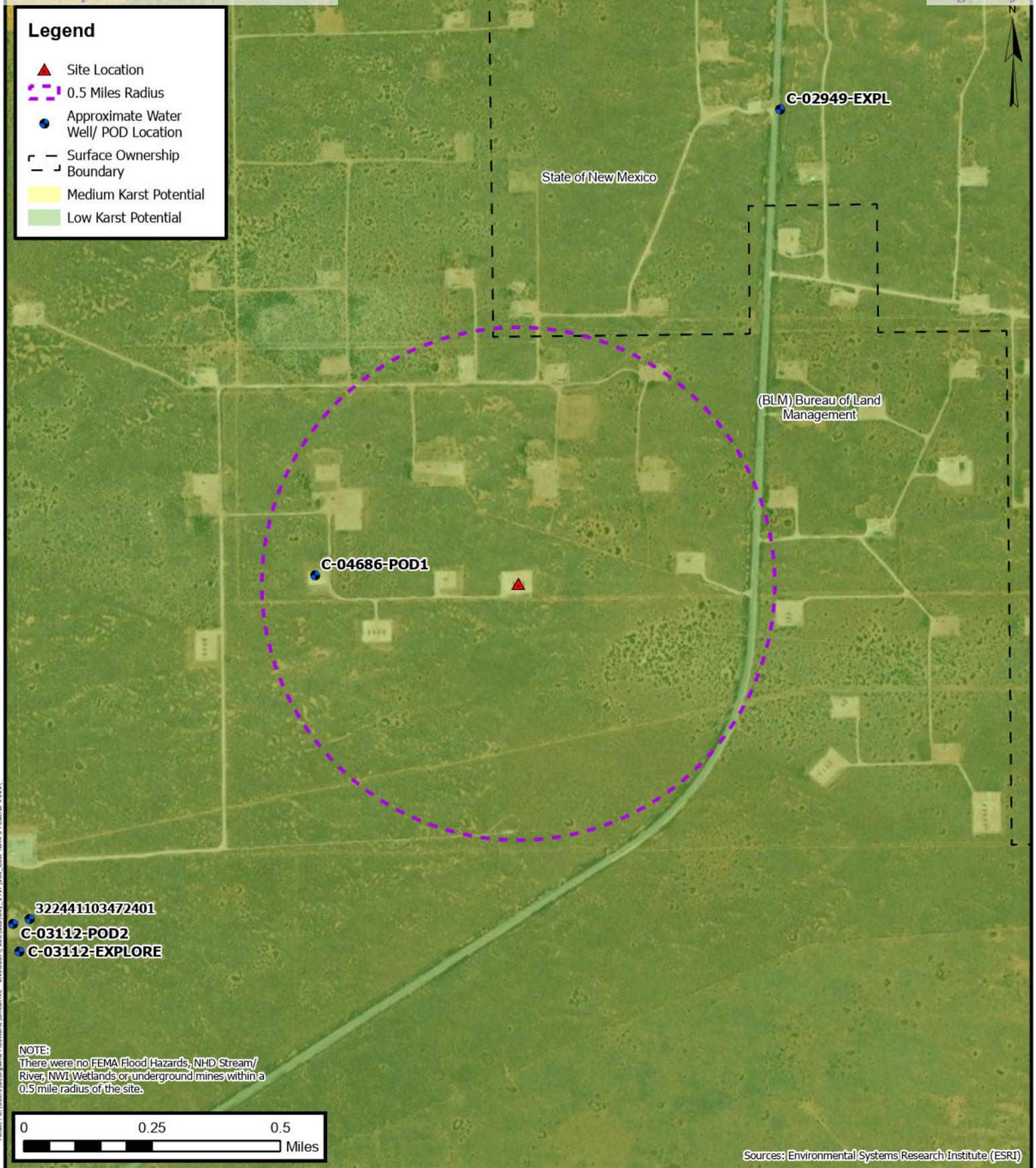
**Site Map**

Oxy USA Inc.  
 Lost Tank 3 Federal #015  
 32.420826° N, 103.773545° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417186

**FIGURE**

**3**



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# Closure Criteria Map

Oxy USA Inc.  
 Lost Tank 3 Federal #015  
 32.420826° N, 103.773545° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417186

## FIGURE

# 4



## APPENDIX B

### Supporting Documentation

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**Kelly Lowery**

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**From:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Sent:** Friday, August 23, 2024 4:14 PM  
**To:** Kelly Lowery  
**Cc:** Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD  
**Subject:** Re: [EXTERNAL] Extension Request: Lost Tank 3 Federal #015 (Incident ID: nAPP2415049012)

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

Good afternoon Kelly,

Thank you for your inquiry. Your 90-day time extension request is approved. Remediation Due date has been updated to November 25, 2024.

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



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**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Friday, August 23, 2024 1:20 PM  
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Extension Request: Lost Tank 3 Federal #015 (Incident ID: nAPP2415049012)

---

**From:** Kelly Lowery <klowery@ensolum.com>  
**Sent:** Friday, August 23, 2024 12:26 PM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Dittrich, John W <Wade\_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson\_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>  
**Subject:** [EXTERNAL] Extension Request: Lost Tank 3 Federal #015 (Incident ID: nAPP2415049012)

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 request a 90-day extension for the Lost Tank 3 Federal #015 (Incident ID: nAPP2415049012). Excavation activities are currently on-going at the Site but have been delayed due to scheduling challenges with personnel and contractors. We ask that you please approve this extension request for future sampling and subsequent reporting. Please let us know if you have any questions.

Thank you,



**Kelly Lowery, GIT**

Project Geologist

214-733-3165

Ensolum, LLC





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE D11 DEC 21 2022 PM 3:16

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04686- POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04686			
	WELL OWNER NAME(S) OXY USA INC				PHONE (OPTIONAL) 575-390-28285			
	WELL OWNER MAILING ADDRESS PO BOX 4294				CITY HOUSTON	STATE TX	ZIP 77210	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32	MINUTES 25	SECONDS 16.03	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE	-103	46	49.08	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE I0ST TANK 4 FED # 009								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 11/29/2022	DRILLING ENDED 11/29/2022	DEPTH OF COMPLETED WELL (FT) 120	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				NO CASING IN HOLE				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. <b>C-04686</b>	POD NO. <b>1</b>	TRN NO. <b>739081</b>
LOCATION <b>225.31E.04.4.3.2</b>	WELL TAG ID NO.	PAGE 1 OF 2





## APPENDIX C

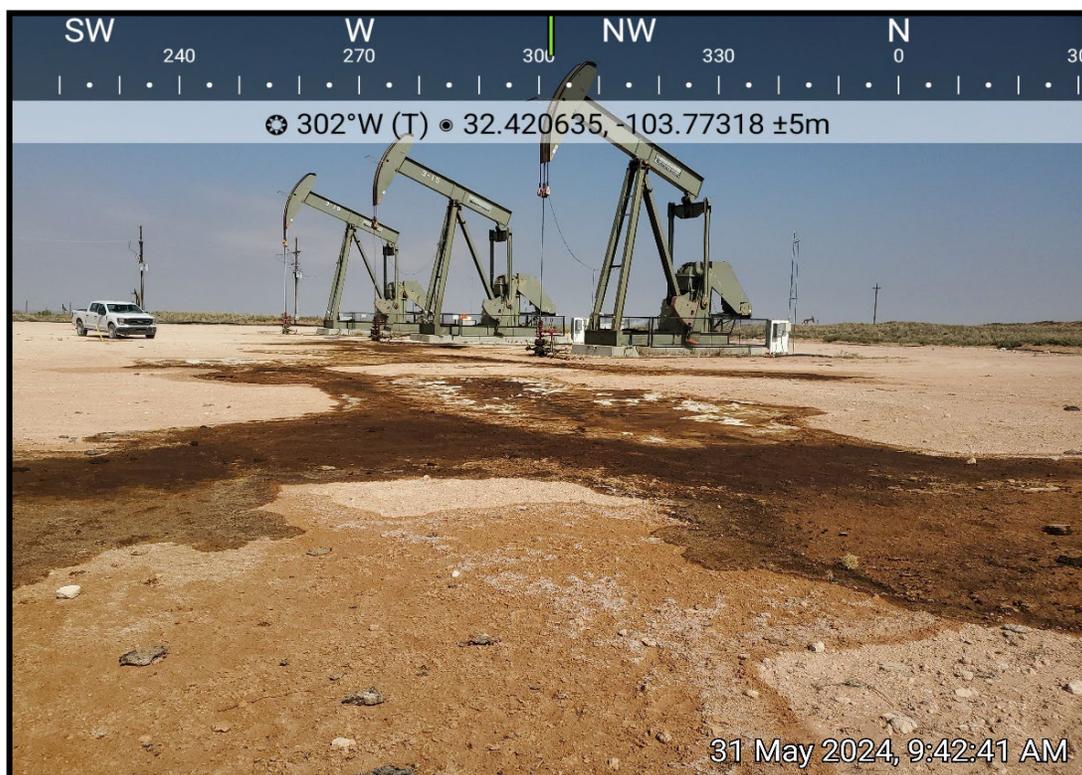
### Photographic Documentation

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Project: Lost Tank 3 Federal #015  
Entity: Oxy USA, Inc.  
Incident ID: nAPP2415049012



View of release extent prior to remediation activities, facing east (5/31/2024).

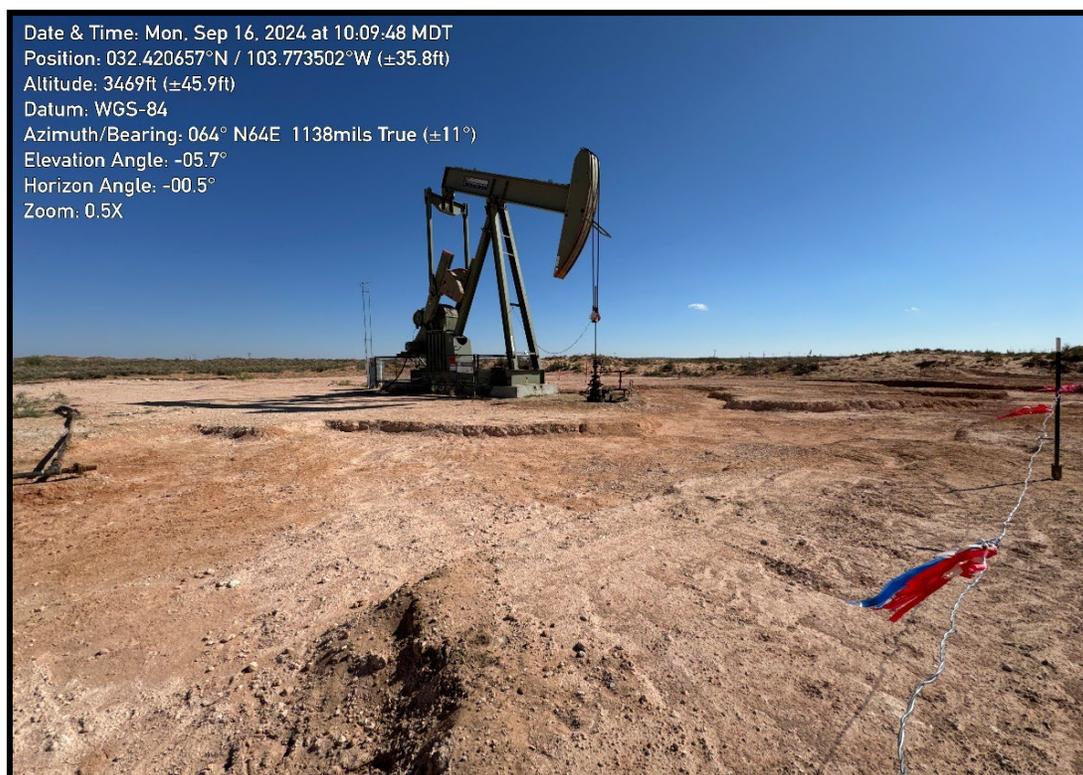


View of release extent prior to remediation activities, facing west (5/31/2024).

Project: Lost Tank 3 Federal #015  
Entity: Oxy USA, Inc.  
Incident ID: nAPP2415049012



View of excavation during remediation activities, facing northeast (9/16/2024).



View of excavation during remediation activities, facing northeast (9/16/2024).

Project: Lost Tank 3 Federal #015  
Entity: Oxy USA, Inc.  
Incident ID: nAPP2415049012



View of excavation during remediation activities, facing northeast (9/16/2024).

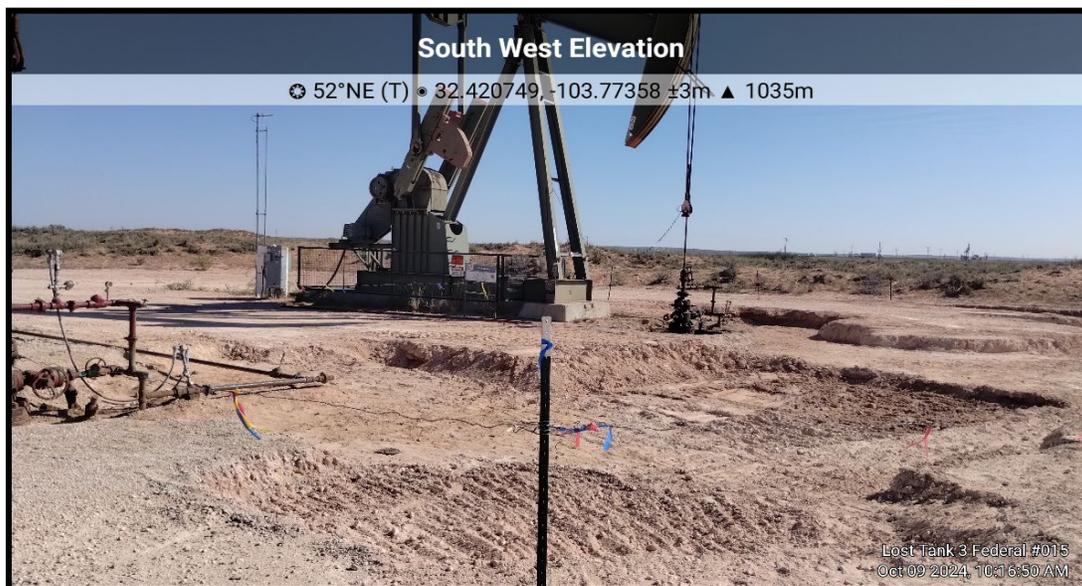


View of excavation during remediation activities, facing northeast (9/16/2024).

Project: Lost Tank 3 Federal #015  
Entity: Oxy USA, Inc.  
Incident ID: nAPP2415049012



View of excavation during continued remediation activities, facing east (10/09/2024).



View of excavation during continued remediation activities, facing northeast (10/09/2024).

Project: Lost Tank 3 Federal #015  
Entity: Oxy USA, Inc.  
Incident ID: nAPP2415049012



View of excavation during continued remediation activities, facing north (10/09/2024).



View of excavation during continued remediation activities, facing southeast (10/09/2024).

Project: Lost Tank 3 Federal #015  
Entity: Oxy USA, Inc.  
Incident ID: nAPP2415049012



Nov 4, 2024 at 11:47:17 AM  
+32.420596,-103.773162  
Carlsbad NM 88220  
United States

View of backfilled excavation extent, facing west (11/04/2024).



Nov 4, 2024 at 11:46:16 AM  
+32.420567,-103.773632  
Carlsbad NM 88220  
United States

View of backfilled excavation extent, facing north (11/04/2024).



## APPENDIX D

Table

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**TABLE 1**  
**EXCAVATION FLOOR SOIL SAMPLE ANALYTICAL RESULTS**  
 Lost Tank 3 Federal #015  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolium Project No. 03B1417186

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+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>Composite Floor Soil Sample Analytical Results</b>											
FS01	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>37.2</b>	<10.0	<b>37.2</b>	<b>11,200</b>
FS02	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>902</b>	<b>248</b>	<b>1,150</b>	<b>22,800</b>
	10/09/2024	2	NS					NS		<b>3,600</b>	
FS03	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>70.1</b>	<b>27.8</b>	<b>97.9</b>	<b>24,400</b>
	10/09/2024	2	NS					NS		<b>4,320</b>	
FS04	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>35.0</b>	<10.0	<b>35.0</b>	<b>304</b>
FS05	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>10.7</b>	<10.0	<b>10.7</b>	<b>12,800</b>
FS06	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>112</b>
FS07	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>64.0</b>
FS08	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>61.2</b>	<b>12.8</b>	<b>74.0</b>	<b>112</b>
FS09	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>16.0</b>
FS10	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>32.0</b>
FS11	09/16/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>16.0</b>

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)

 Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

**TABLE 2**  
**EXCAVATION SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS**  
 Lost Tank 3 Federal #015  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolium Project No. 03B1417186

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 (≤50 feet)</b>			<b>10</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Composite Sidewall Soil Sample Analytical Results</b>												
SW01	09/16/2024	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SW02	09/16/2024	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>23.1</b>	<10.0	<b>23.1</b>	<b>13,700</b>
	10/09/2024	0 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SW03	09/16/2024	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>25.6</b>	<10.0	<b>25.6</b>	<b>21,600</b>
	10/09/2024	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)

 Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



**TABLE 3**  
**BACKFILL SOIL SAMPLE ANALYTICAL RESULTS**  
 Mills Ranch Pit  
 Oxy USA, Inc.  
 Lea County, New Mexico  
 Ensolum Project No. NA

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 (≤ 50 feet)</b>			10	NE	NE	NE	50	NE	NE	NE	100	600
<b>Composite Background Soil Sample Analytical Result</b>												
Mills Ranch Pit	09/30/2024	NA	<0.050	<b>0.060</b>	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

*bgs: below ground surface*  
*mg/kg: milligrams per kilogram*  
*NA: Not Applicable*  
*NE: Not Established*  
*BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes*  
*GRO: Gasoline Range Organics*  
*DRO: Diesel Range Organics*  
*MRO: Motor Oil/Lube Oil Range Organics*  
*TPH: Total Petroleum Hydrocarbon*



## APPENDIX E

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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

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September 19, 2024

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

RE: LOST TANK 3 FEDERAL # 015

Enclosed are the results of analyses for samples received by the laboratory on 09/16/24 13:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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, flowing 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:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 01 1' (H245617-01)**

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	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>11200</b>	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
<b>DRO &gt;C10-C28*</b>	<b>37.2</b>	10.0	09/17/2024	ND	194	96.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 02 1' (H245617-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>22800</b>	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
<b>DRO &gt;C10-C28*</b>	<b>902</b>	10.0	09/17/2024	ND	194	96.9	200	3.48	
<b>EXT DRO &gt;C28-C36</b>	<b>248</b>	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 03 1' (H245617-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>24400</b>	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
<b>DRO &gt;C10-C28*</b>	<b>70.1</b>	10.0	09/17/2024	ND	194	96.9	200	3.48	
<b>EXT DRO &gt;C28-C36</b>	<b>27.8</b>	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 04 1' (H245617-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
DRO >C10-C28*	35.0	10.0	09/17/2024	ND	194	96.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 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:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 05 1' (H245617-05)**

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	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>12800</b>	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
<b>DRO &gt;C10-C28*</b>	<b>10.7</b>	10.0	09/17/2024	ND	194	96.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 06 1' (H245617-06)**

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	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	194	96.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 07 1' (H245617-07)**

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	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	194	96.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 08 1' (H245617-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
<b>DRO &gt;C10-C28*</b>	<b>61.2</b>	10.0	09/17/2024	ND	194	96.9	200	3.48	
<b>EXT DRO &gt;C28-C36</b>	<b>12.8</b>	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 09 1' (H245617-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	194	96.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 10 1' (H245617-10)**

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	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	194	96.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: FS 11 1' (H245617-11)**

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	09/17/2024	ND	2.02	101	2.00	2.00	
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	194	96.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: SW 01 0-1' (H245617-12)**

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	09/17/2024	ND	2.02	101	2.00	2.00		
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11		
Total BTEX	<0.300	0.300	09/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/17/2024	ND	400	100	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	09/17/2024	ND	196	98.2	200	1.23		
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	194	96.9	200	3.48		
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND						

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: SW 02 0-1' (H245617-13)**

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	09/17/2024	ND	2.02	101	2.00	2.00		
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>13700</b>	16.0	09/17/2024	ND	416	104	400	3.92	QM-07, QR-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	09/17/2024	ND	196	98.2	200	1.23		
<b>DRO &gt;C10-C28*</b>	<b>23.1</b>	10.0	09/17/2024	ND	194	96.9	200	3.48		
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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**Analytical Results For:**

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

Received:	09/16/2024	Sampling Date:	09/16/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL # 015	Sampling Condition:	Cool & Intact
Project Number:	03B1417186	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO		

**Sample ID: SW 03 0-1' (H245617-14)**

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	09/17/2024	ND	2.02	101	2.00	2.00		
Toluene*	<0.050	0.050	09/17/2024	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.05	103	2.00	1.22		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.16	103	6.00	1.11		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>21600</b>	16.0	09/17/2024	ND	416	104	400	3.92		

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	09/17/2024	ND	204	102	200	0.238		
<b>DRO &gt;C10-C28*</b>	<b>25.6</b>	10.0	09/17/2024	ND	202	101	200	5.70		
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND						

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Notes and Definitions

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

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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**

1/2

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Kelly Lowery  
 Address: 601 N. Marland St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-733-3165 Fax #:   
 Project #: 03B1417186 Project Owner:   
 Project Name: Lost Tank 3 Federal #615  
 Project Location: Eddy County  
 Sampler Name: Tabitha Guadiana  
 P.O. #:   
 Company: Oxy USA, Inc.  
 Attn: Wade Dittich  
 Address:   
 City:   
 State: Zip:   
 Phone #: 575-390-2828  
 Fax #:   
 MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:   
 PRESERV: ACID/BASE, ICE / COOL, OTHER:   
 SAMPLING: DATE, TIME

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS
H45617	FS01	1'	C	1	SOIL	X	X	9/16/24	1006	TPH 8015 M
	FS02								1008	BTEX 8021 B
	FS03								1010	Chloride 4500
	FS04								1012	
	FS05								1014	
	FS06								1016	
	FS07								1018	
	FS08								1020	
	FS09								1022	
	FS10								1024	

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Relinquished By: *[Signature]* Date: 9/16/24  
 Received By: *[Signature]* Date: 9/16/24  
 Time: 1:58  
 Vertical Result:  Yes  No Add'l Phone #:   
 All Results are emailed. Please provide Email address:   
 Blessings@ensolum.com  
 REMARKS: *[Signature]* [klawery@ensolum.com](mailto:klawery@ensolum.com)

Delivered By: (Circle One)  UPS - Bus - Other:   
 Observed Temp. °C: 5.8  
 Corrected Temp. °C: 5.2  
 Sample Condition:  Intact  Cool  Yes  No  No  No  
 CHECKED BY: *[Signature]* (Initials)  
 Turnaround Time:  Standard  Rush  
 Thermometer ID #113  
 Correction Factor: 0.1°C  
 Bacteria (only)  Yes  No  
 Cool Intact  Yes  No  
 Sample Condition  Observed Temp. °C  
 Corrected Temp. °C





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October 16, 2024

KELLY LOWERY  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: LOST TANK 3 FEDERAL # 015

Enclosed are the results of analyses for samples received by the laboratory on 10/09/24 12:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B      Total Coliform and E. coli (Colilert MMO-MUG)  
Method EPA 524.2      Regulated VOCs and Total Trihalomethanes (TTHM)  
Method EPA 552.2      Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: LOST TANK 3 FEDERAL # 015 Project Number: 03B1417186 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Oct-24 16:04
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 02 @ 2'	H246139-01	Soil	09-Oct-24 10:10	09-Oct-24 12:47
FS 03 @ 2'	H246139-02	Soil	09-Oct-24 10:15	09-Oct-24 12:47
SW 02 @ 0-2'	H246139-03	Soil	09-Oct-24 10:20	09-Oct-24 12:47
SW 03 @ 0-1'	H246139-04	Soil	09-Oct-24 10:25	09-Oct-24 12:47

10/16/24 - Client added depths to all samples (see COC). This is the revised report and will replace the one sent on 10/15/24.

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: LOST TANK 3 FEDERAL # 015 Project Number: 03B1417186 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Oct-24 16:04
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**FS 02 @ 2'  
H246139-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>3600</b>		16.0	mg/kg	4	4100923	HM	10-Oct-24	4500-Cl-B	
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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: LOST TANK 3 FEDERAL # 015 Project Number: 03B1417186 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Oct-24 16:04
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**FS 03 @ 2'**  
**H246139-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>4320</b>		16.0	mg/kg	4	4100923	HM	10-Oct-24	4500-CI-B	
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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: LOST TANK 3 FEDERAL # 015 Project Number: 03B1417186 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Oct-24 16:04
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**SW 02 @ 0-2'  
H246139-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	4100923	HM	10-Oct-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4100912	JH	09-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4100912	JH	09-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4100912	JH	09-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4100912	JH	09-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4100912	JH	09-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	77.5-125		4100912	JH	09-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4100917	ms	09-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4100917	ms	09-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4100917	ms	09-Oct-24	8015B	

Surrogate: 1-Chlorooctane			113 %	48.2-134		4100917	ms	09-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			121 %	49.1-148		4100917	ms	09-Oct-24	8015B	
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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: LOST TANK 3 FEDERAL # 015 Project Number: 03B1417186 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Oct-24 16:04
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**SW 03 @ 0-1'**  
**H246139-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4100923	HM	10-Oct-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4100912	JH	10-Oct-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4100912	JH	10-Oct-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4100912	JH	10-Oct-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4100912	JH	10-Oct-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4100912	JH	10-Oct-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	77.5-125		4100912	JH	10-Oct-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4100917	ms	09-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4100917	ms	09-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4100917	ms	09-Oct-24	8015B	

Surrogate: 1-Chlorooctane			101 %	48.2-134		4100917	ms	09-Oct-24	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		4100917	ms	09-Oct-24	8015B	
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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: LOST TANK 3 FEDERAL # 015 Project Number: 03B1417186 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Oct-24 16:04
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4100923 - 1:4 DI Water</b>										
<b>Blank (4100923-BLK1)</b>										
Prepared & Analyzed: 09-Oct-24										
Chloride	ND	16.0	mg/kg							
<b>LCS (4100923-BS1)</b>										
Prepared & Analyzed: 09-Oct-24										
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4100923-BSD1)</b>										
Prepared & Analyzed: 09-Oct-24										
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: LOST TANK 3 FEDERAL # 015 Project Number: 03B1417186 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Oct-24 16:04
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4100912 - Volatiles**

**Blank (4100912-BLK1)**

Prepared & Analyzed: 09-Oct-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	77.5-125			

**LCS (4100912-BS1)**

Prepared & Analyzed: 09-Oct-24

Benzene	2.11	0.050	mg/kg	2.00		106	80.8-112			
Toluene	2.14	0.050	mg/kg	2.00		107	78.7-114			
Ethylbenzene	2.13	0.050	mg/kg	2.00		107	70.9-120			
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	76.9-119			
o-Xylene	2.08	0.050	mg/kg	2.00		104	71.7-120			
Total Xylenes	6.36	0.150	mg/kg	6.00		106	75.6-119			
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	77.5-125			

**LCS Dup (4100912-BSD1)**

Prepared & Analyzed: 09-Oct-24

Benzene	2.16	0.050	mg/kg	2.00		108	80.8-112	2.19	8.26	
Toluene	2.19	0.050	mg/kg	2.00		110	78.7-114	2.40	9.03	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	70.9-120	3.21	11.9	
m,p-Xylene	4.42	0.100	mg/kg	4.00		111	76.9-119	3.36	11	
o-Xylene	2.16	0.050	mg/kg	2.00		108	71.7-120	3.84	15	
Total Xylenes	6.59	0.150	mg/kg	6.00		110	75.6-119	3.52	12.2	
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	77.5-125			

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: LOST TANK 3 FEDERAL # 015 Project Number: 03B1417186 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Oct-24 16:04
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4100917 - General Prep - Organics**

<b>Blank (4100917-BLK1)</b>		Prepared & Analyzed: 09-Oct-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	58.7		mg/kg	50.0		117	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	59.8		mg/kg	50.0		120	49.1-148			

<b>LCS (4100917-BS1)</b>		Prepared & Analyzed: 09-Oct-24								
GRO C6-C10	230	10.0	mg/kg	200		115	66.4-123			
DRO >C10-C28	224	10.0	mg/kg	200		112	66.5-118			
Total TPH C6-C28	454	10.0	mg/kg	400		113	77.6-123			
<i>Surrogate: 1-Chlorooctane</i>	60.0		mg/kg	50.0		120	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	62.8		mg/kg	50.0		126	49.1-148			

<b>LCS Dup (4100917-BSD1)</b>		Prepared & Analyzed: 09-Oct-24								
GRO C6-C10	221	10.0	mg/kg	200		111	66.4-123	3.83	17.7	
DRO >C10-C28	217	10.0	mg/kg	200		109	66.5-118	3.02	21	
Total TPH C6-C28	439	10.0	mg/kg	400		110	77.6-123	3.43	18.5	
<i>Surrogate: 1-Chlorooctane</i>	57.4		mg/kg	50.0		115	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	57.7		mg/kg	50.0		115	49.1-148			

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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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

Company Name: <u>Ensign LLC</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
Project Manager: <u>Kelly Lowrey</u>		P.O. #:							
Address: <u>601 N. Mountainfield St. Ste. 400</u>		Company: <u>ORV USA, Inc.</u>							
City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u>		Attn: <u>Wade Dittich</u>							
Phone #: <u>214-233-3165</u> Fax #:		Address:							
Project #: <u>DZB147186</u> Project Owner:		City:							
Project Name: <u>Lost Tank 3 Federal #015</u>		State:							
Project Location: <u>Eddy County, New Mexico</u>		Phone #:							
Sampler Name: <u>Noah Duke</u>		Fax #:							
<small>FOR LAB USE ONLY</small>									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
<u>H240139</u>	<u>* F502 @ 2'</u>	<u>C</u>	<u>1</u>	<input checked="" type="checkbox"/> GROUNDWATER			<u>10/9/24</u>	<u>7:00</u>	<u>TPH 8015 M</u>
	<u>F503 @ 2'</u>	<u>C</u>	<u>1</u>	<input checked="" type="checkbox"/> WASTEWATER			<u>10/9/24</u>	<u>10:15</u>	<u>BTEX 8021 B</u>
	<u>5W02 @ 0-2'</u>	<u>C</u>	<u>1</u>	<input checked="" type="checkbox"/> SOIL			<u>10/9/24</u>	<u>15:20</u>	<u>Chlorides 4500</u>
	<u>5W03 @ 0-1'</u>	<u>C</u>	<u>1</u>	<input checked="" type="checkbox"/> OIL			<u>10/9/24</u>	<u>18:25</u>	
	<u>VEE NED</u>			<input checked="" type="checkbox"/> SLUDGE					
	<u>10/9/24</u>			<input checked="" type="checkbox"/> OTHER:					
				<input checked="" type="checkbox"/> ACID/BASE:					
				<input checked="" type="checkbox"/> ICE / COOL					
				<input checked="" type="checkbox"/> OTHER:					

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Relinquished By: Alan BWW Date: 10/9/24 Time: 12:47 Received By: Shoddiqneuf

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C: 4.9 Sample Condition Cool Intact  Yes  No Checked By: SR

Sampler - UPS - Bus - Other: Corrected Temp. °C: 4.3  Yes  No

Turnaround Time: \_\_\_\_\_ Standard  Rush  Bacteria (only) Sample Condition Cool Intact  Yes  No Observed Temp. °C: \_\_\_\_\_ Corrected Temp. °C: \_\_\_\_\_

Thermometer ID #40 Correction Factor 0°C

REMARKS: \* Customer requested 0 TPH adds

Verbal Result:  Yes  No Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: klowrey@ensign.com

FORM 000 TR-3-4 07/11/23

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



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---

October 03, 2024

KELLY LOWERY  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: MILLS RANCH PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	MILLS RANCH PIT	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: MILLS RANCH PIT 0.25' (H245925-01)**

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	10/02/2024	ND	1.99	99.6	2.00	6.75	
<b>Toluene*</b>	<b>0.060</b>	0.050	10/02/2024	ND	2.05	103	2.00	6.79	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.07	104	2.00	7.11	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.16	103	6.00	7.03	
Total BTEX	<0.300	0.300	10/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2024	ND	432	108	400	7.14	

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	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.3 % 49.1-148

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

QUESTIONS

Action 405928

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405928
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2415049012
Incident Name	NAPP2415049012 LOST TANK 3 FEDERAL #015 @ 30-015-37951
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-37951] LOST TANK 3 FEDERAL #015

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	LOST TANK 3 FEDERAL #015
Date Release Discovered	05/27/2024
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 10 BBL   Recovered: 8 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 4 BBL   Recovered: 1 BBL   Lost: 3 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 405928

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405928
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<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>	

<b>Initial Response</b>	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>
<i>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>	
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: 11/22/2024

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QUESTIONS, Page 3

Action 405928

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405928
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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	NM OSE iWaters Database Search
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)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 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	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>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.</i>	
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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	24400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1150
GRO+DRO (EPA SW-846 Method 8015M)	902
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	05/31/2024
On what date will (or did) the final sampling or liner inspection occur	10/09/2024
On what date will (or was) the remediation complete(d)	10/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	2025
What is the estimated volume (in cubic yards) that will be reclaimed	105
What is the estimated surface area (in square feet) that will be remediated	2025
What is the estimated volume (in cubic yards) that will be remediated	105
<i>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.</i>	
<i>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.</i>	

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Energy, Minerals and Natural Resources  
Oil Conservation Division  
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QUESTIONS, Page 4

Action 405928

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405928
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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	<a href="#">LEA LAND LANDFILL [fEEM0112342028]</a>
<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: <a href="mailto:wade_dittrich@oxy.com">wade_dittrich@oxy.com</a> Date: 11/22/2024
--	--

*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 5

Action 405928

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405928
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 405928

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405928
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>389897</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>10/09/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>4</b>
What was the sampling surface area in square feet	<b>800</b>

<b>Remediation Closure Request</b>	
<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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2025
What was the total volume (cubic yards) remediated	105
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2025
What was the total volume (in cubic yards) reclaimed	105
Summarize any additional remediation activities not included by answers (above)	NA

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 11/22/2024
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Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

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Action 405928

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 405928

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405928
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
crystal.walker	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	2/17/2025
crystal.walker	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	2/17/2025
crystal.walker	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	2/17/2025
crystal.walker	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	2/17/2025