



**CLOSURE REPORT**

Property:

**NIMITZ MDP1 13 1 Fed. Com 173H**

**Unit I, S13, T24S, R30E  
32.215168° N, 103.829435° W  
Eddy County, New Mexico  
NMOCD Incident ID: nAPP2406135810**

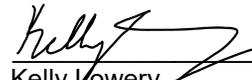
September 30, 2024  
Ensolum Project No. 03B1417159

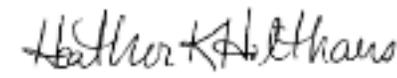
Prepared for:

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

**Attn: Wade Dittrich**

Prepared by:

  
\_\_\_\_\_  
Kelly Lowery  
Project Geologist

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



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# ENSOLUM

## CLOSURE REPORT

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**Unit I, S13, T24S, R30E  
32.215168° N, 103.829435° W  
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NMOCD Incident ID: nAPP2406135810**

**Ensolum Project No. 03B1417159**

## 1.0 INTRODUCTION

### 1.1 Site Description & Background

<b>Operator:</b>	OXY USA, Inc. (Oxy)
<b>Site Name:</b>	NIMITZ MDP1 13 1 Fed. Com 173H
<b>Location:</b>	Unit I, Section 13, Township 24 South, Range 30 East 32.215168° N, 103.829435° 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 February 25, 2024, Oxy had a release of crude oil at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 20 barrels (bbls) of crude oil were released onto the ground surface, with none recovered. Oxy reported the release to the New Mexico EMNRD OCD online portal notification of release (NOR) form on March 01, 2024 and was subsequently assigned Incident Number nAPP2406135810.

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**, and included as **Figure 4** in **Appendix A**.

- One exploratory water well was identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database (C-04483-POD1) that was installed in November 2020 to a depth of 110 feet below ground surface (bgs) as a temporary well, 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 from 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 there are no freshwater wells identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to 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 high karst potential.
- The Site is not located within a 100-year floodplain.

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

<b>Reclamation Closure Criteria for Soils Less Than 4 ft bgs Impacted by a Release</b>			
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

Closure Criteria for Soils Greater Than 4 ft bgs Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
> 100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### 3.0 SOIL REMEDIATION ACTIVITIES

On February 25, 2024, Oxy had a release of crude oil at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 20 bbls of crude oil were released onto the ground surface, with none recovered.

From March 07 through August 01, 2024, excavation activities were conducted at the Site.

On June 26 and 27, 2024, Ensolum arrived on-Site to collect 21 composite soil samples from the excavation floor (FS01 through FS21) and 11 composite soil samples from the excavation sidewalls (SW01 through SW11). The excavation floor samples were collected at a depth of 4 feet bgs and the excavation sidewall samples were collected at a depth of 0-4 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary at one sidewall sample location (SW04).

On August 01, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect one composite soil re-sample from the excavation sidewall (SW04) at a depth of 0-4 feet bgs. Based on laboratory analytical data, no additional excavation and/or remediation was necessary.

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 chloride in accordance with the New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation areas measured approximately 113 feet long by 25 feet wide and 122 feet long by 40 feet wide at the maximum extents, with a depth of 4 feet bgs.

The excavation measured approximately 5,635 square feet in areal extent. A total of 835 cubic yards (cy) of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing. Backfill of excavation was completed utilizing material purchased locally and recontoured to match pre-existing conditions. A BLM-approved seed mixture was sown into the surface area of the backfill for re-vegetation.

**Figure 3** is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the 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 June 26, 2024 through August 01, 2024 included the collection of a total of 21 composite soil samples from the excavation floor (FS01 through FS21) and 12 composite soil samples from 11 locations from the excavation sidewalls (SW01 through SW11) for laboratory analysis. Additionally, one composite soil sample was collected from the backfill material at the Site (Twin Wells Caliche Pit).

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

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX following 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** 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 or laboratory sample detection limits (SDLs) associated with the final composite excavation soil samples (FS01 through FS21 and SW01 through SW11) for soils left in place at the Site and the backfill material (Twin Wells Caliche Pit) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final composite soil samples collected from the excavation area and the backfill material do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the final composite soil samples collected from the excavation area and the backfill material do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate that the combined TPH-GRO/DRO concentrations for the final composite soil samples collected from the excavation floor areas and the backfill material do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 1,000 mg/kg.
- Laboratory analytical results indicate that the combined TPH-GRO/DRO/MRO concentrations for the final composite soil samples collected from the excavation floor areas and the backfill material do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 2,500 mg/kg.
- Laboratory analytical results indicated combined TPH-GRO/DRO/MRO concentrations for the final composite soil samples collected from the excavation sidewall areas and the backfill material do not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg.
- Laboratory analytical results indicated chloride concentrations for the final composite soil samples collected from the excavation sidewall areas and the backfill material do not exceed the applicable NMOCD Closure Criteria of 600 mg/kg.
- Laboratory analytical results indicate chloride concentrations for the final composite soil samples collected from the excavation floor areas and the backfill material do not exceed the applicable NMOCD Closure Criteria of 20,000 mg/kg.

Laboratory analytical results are summarized in **Tables 1 – 3** in **Appendix D**.

## 7.0 RECLAMATION AND RE-VEGETATION

The release occurred off pad and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the vegetative zone that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the vegetative zone: Soil in the vicinity of the release include: predominately gravelly fine sandy loam;

- The backfilled areas were seeded utilizing a weed-free seed mix designed by the BLM to meet reclamation standards for this region, which was: Pecos District BLM Seed Mix for Shallow Sand and Sandy, SD-3 Ecological Site;
- The seed mixture was distributed with one of the following methods: push broadcaster seed spreader / tractor operated broadcast seed spreader / drill seeding / other means;
- Application of the seed mixture was at a coverage of either 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method, or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method, whichever was more applicable;
- Erosion control management will potentially include:
  - The placement of waddles in areas with a propensity for high run off rates;
  - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
  - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas.
- Backfilling of the excavation utilized locally purchased material and recontoured to pre-existing conditions.
- The backfill material was sampled to comply with the above reclamation requirement. The laboratory analytical results are summarized in **Table 3** in **Appendix D**.
- Seeding was completed during the month of August 2024, during the month(s) when temperatures and precipitation is/are most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost.
- Annual inspections (at a minimum), will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the BLM-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion.

## 8.0 FINDINGS AND RECOMMENDATION

- On February 25, 2024, Oxy had a release of crude oil at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 20 bbls of crude oil were released onto the ground surface, with none recovered.
- Ensolum's soil sampling program from June 26, 2024 through August 01, 2024 included the collection of a total of 21 composite soil samples from the excavation floor (FS01 through FS21) and 12 composite soil samples from 11 locations from the excavation sidewalls (SW01 through SW11) for laboratory analysis. The composite floor samples were collected at a depth of 4 feet bgs and the sidewall samples were collected at a depth of 0-4 feet bgs. Additionally, one composite soil sample was collected from the backfill material at the Site (Twin Wells Caliche Pit).

- 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 113 feet long by 25 feet wide and 122 feet long by 40 feet wide at the maximum extents, with a depth of 4 feet bgs.
- Based on laboratory analytical results, the final composite soil samples collected from the excavation floor, sidewalls, and the backfill material did not exhibit benzene, total BTEX, TPH GRO/DRO, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Once the areas were brought back to original grade, a BLM-approved seed mixture was sown into the surface of the backfill for re-vegetation per the above stated Reclamation Plan.

**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**

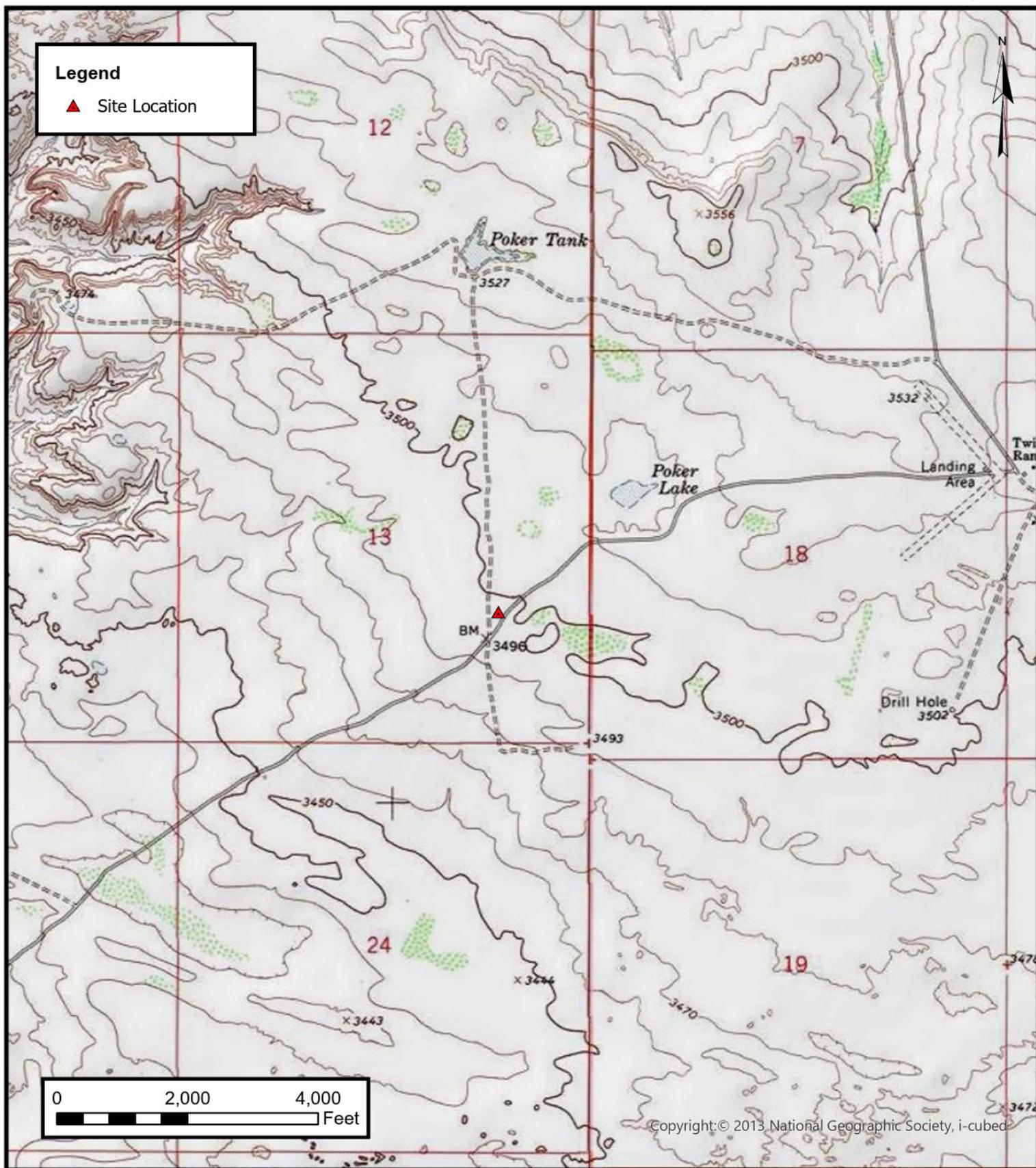
This report has been prepared for the exclusive use of Oxy USA, Inc, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc and Ensolum. Any unauthorized distribution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

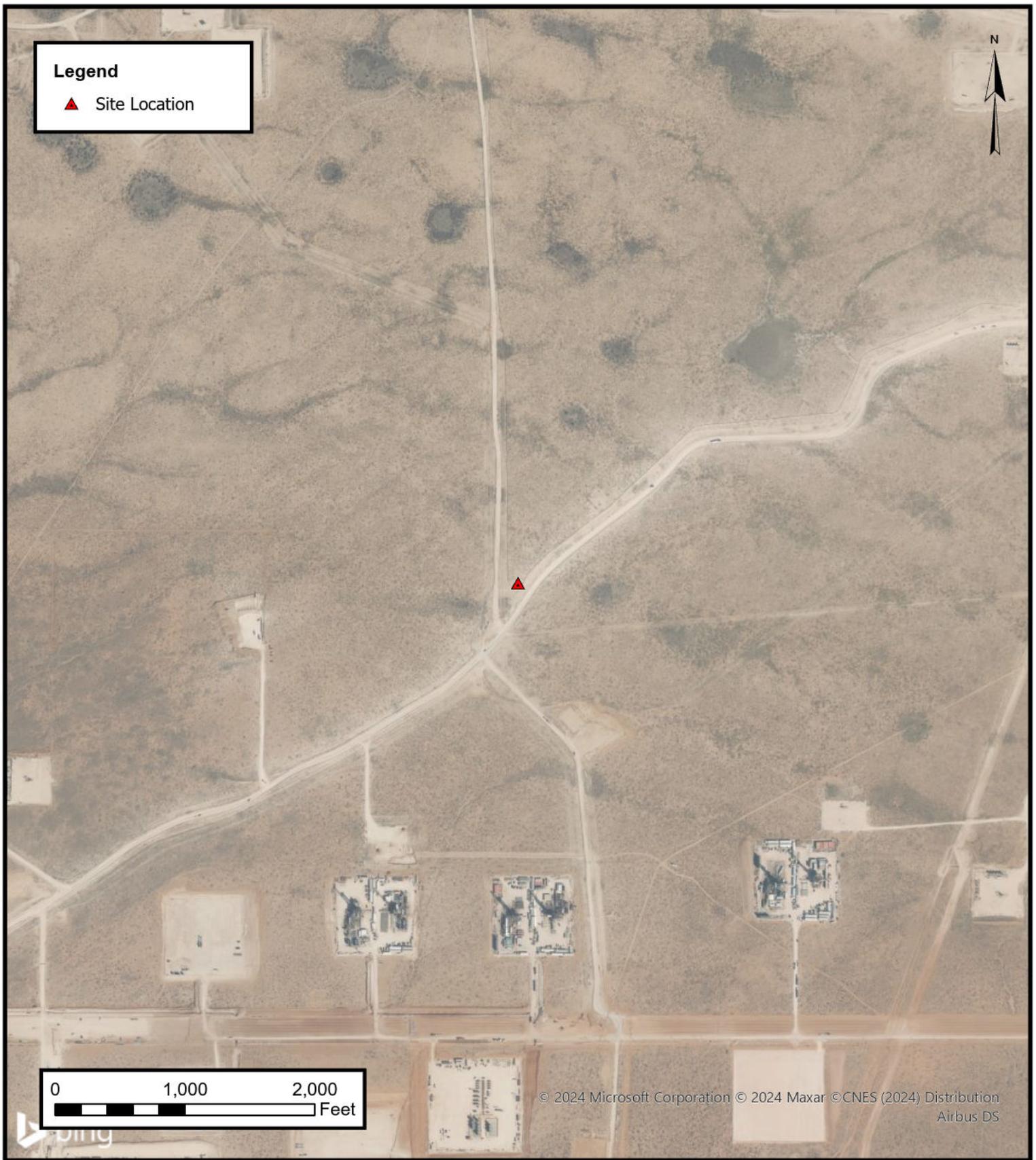
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**Topographic Map**  
 Oxy USA Inc.  
 NIMITZ MDP1 13 1 Fed. Com 173H  
 32.215168° N, 103.829435° W  
 Eddy County, New Mexico

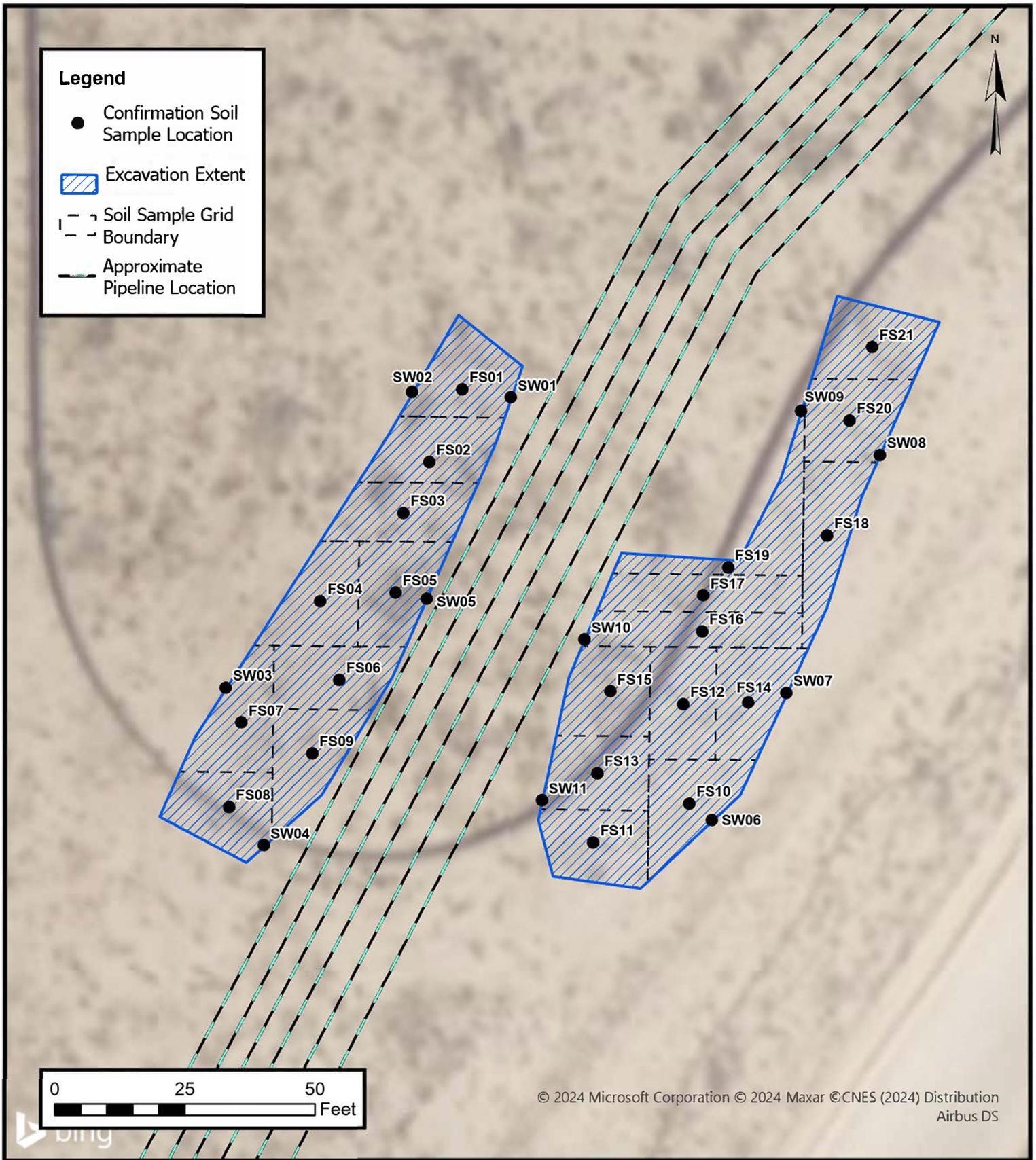
PROJECT NUMBER: 03B1417159

**FIGURE**  
 1



**Site Vicinity Map**  
Oxy USA Inc.  
NIMITZ MDP1 13 1 Fed. Com 173H  
32.215168° N, 103.829435° W  
Eddy County, New Mexico  
PROJECT NUMBER: 03B1417159

**FIGURE**  
**2**



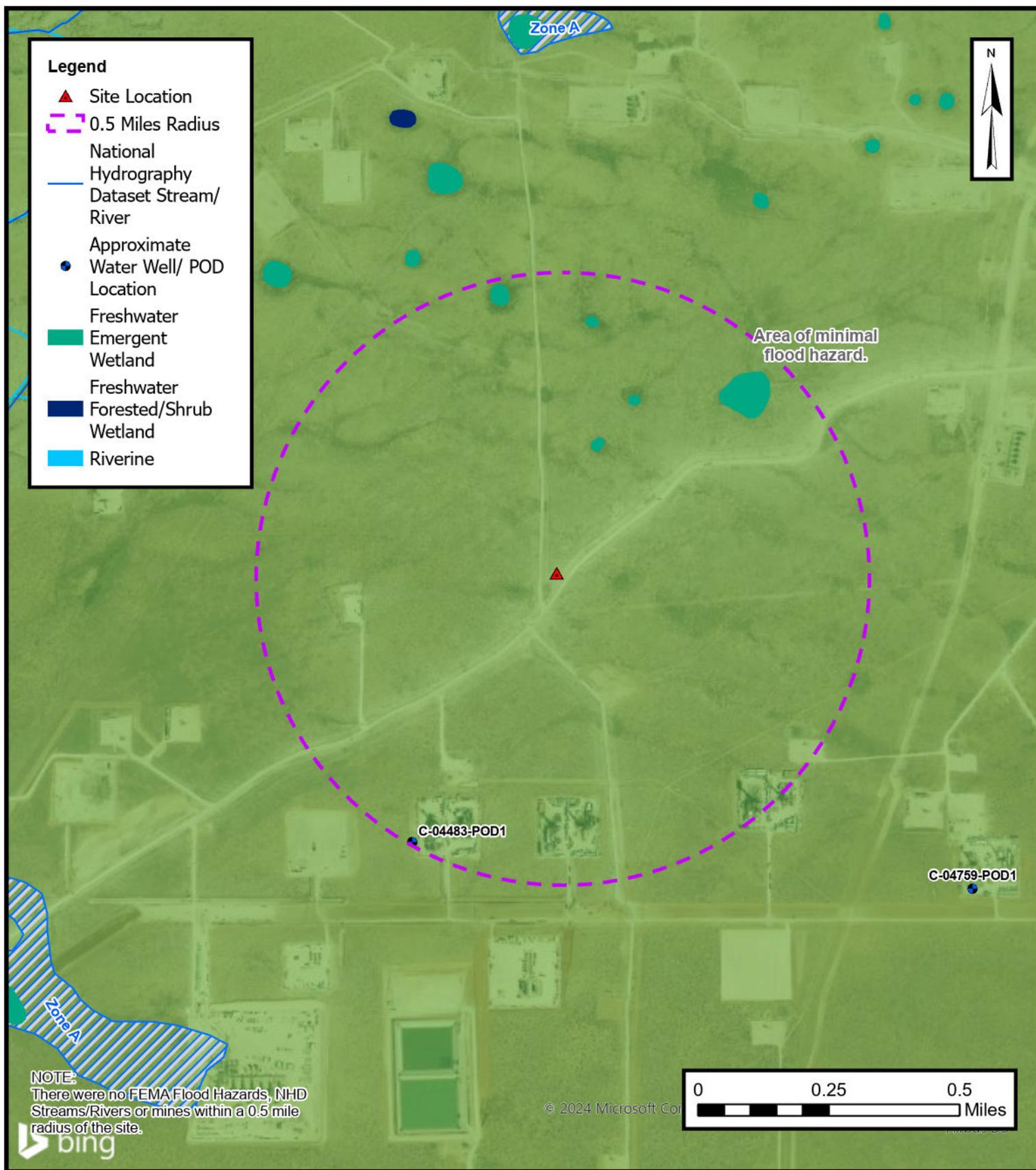
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**Site Map**  
 Oxy USA Inc.  
 NIMITZ MDP1 13 1 Fed. Com 173H  
 32.215168° N, 103.829435° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417159

**FIGURE**  
**3**



**Closure Criteria Map**  
 Oxy USA Inc.  
 NIMITZ MDP1 13 1 Fed. Com 173H  
 32.215168° N, 103.829435° W  
 Eddy County, New Mexico  
 PROJECT NUMBER: 03B1417159

**FIGURE**  
**4**



## APPENDIX B

### Supporting Documentation

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**Kelly Lowery**

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**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Tuesday, May 28, 2024 3:03 PM  
**To:** Kelly Lowery  
**Cc:** Dittrich, John W; Pierce, Tyson (The Bergaila Company); Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD  
**Subject:** Extension Request: NIMITZ MDP1 13 1 Fed. Com 173H (Incident ID: nAPP2406135810)

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

RE: Incident #NAPP2406135810

Kelly,

Your request for a 90 day extension to **August 26th, 2024** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Thursday, May 23, 2024 8:45 AM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Extension Request: NIMITZ MDP1 13 1 Fed. Com 173H (Incident ID: nAPP2406135810)

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**From:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Sent:** Thursday, May 23, 2024 7:29 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Pierce, Tyson (Legacy Safety & Consulting LLC) <[tyson\\_pierce@oxy.com](mailto:tyson_pierce@oxy.com)>; Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>  
**Subject:** [EXTERNAL] Extension Request: NIMITZ MDP1 13 1 Fed. Com 173H (Incident ID: nAPP2406135810)

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 NIMITZ MDP1 13 1 Fed. Com 173H (Incident ID: nAPP2406135810). 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



**Kelly Lowery**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Friday, August 23, 2024 3:54 PM  
**To:** Kelly Lowery  
**Cc:** Dittrich, John W; Pierce, Tyson (The Bergaila Company); Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD  
**Subject:** (Final Extension) - OXY - NIMITZ MDP1 13 1 Fed. Com 173H (Incident ID: nAPP2406135810)

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

RE: Incident #NAPP2406135810

Kelly,

Your request for a 90 day extension to **November 21st, 2024** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Friday, August 23, 2024 1:17 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Extension Request: NIMITZ MDP1 13 1 Fed. Com 173H (Incident ID: nAPP2406135810)

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**From:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Sent:** Friday, August 23, 2024 12:22 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Pierce, Tyson (Legacy Safety & Consulting LLC) <[tyson\\_pierce@oxy.com](mailto:tyson_pierce@oxy.com)>; Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>  
**Subject:** [EXTERNAL] Extension Request: NIMITZ MDP1 13 1 Fed. Com 173H (Incident ID: nAPP2406135810)

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 NIMITZ MDP1 13 1 Fed. Com 173H (Incident ID: nAPP2406135810). Due to delays in scheduling with contractors and various team members, additional excavation activities at the Site have recently been completed to meet the Closure Criteria Limits specific to this location and pending analytical report, we will begin the drafting the Closure for this Site. We humbly ask for an extension so that we may wrap up the Site fully and complete the report so that it can be thoroughly reviewed before submitting the final copy to the portal. I've attached a Closure Criteria map for reference and the Site Characterization was submitted to the OCD portal on 03/05/2024. Please let us know if you have any questions.

Thank you,



**Kelly Lowery, GIT**

Project Geologist

214-733-3165

Ensolum, LLC





2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

4/26/2023

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Resubmitted Well Record C-4483 Pod1

To whom it may concern:

Attached please find a corrected well record and a plugging record, in duplicate, for a one (1) soil borings, C-4483 Pod1. The Longitude was corrected for both records.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton

Enclosures: as noted above

REC'D - 10/25/2024 11:44:11 AM



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

09/30/2024 12:04:30 PM

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4483	
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX
					ZIP 79707	
WELL LOCATION (FROM GPS)		DEGREES 32°	MINUTES 12'	SECONDS 31.77"	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LATITUDE		N	* DATUM REQUIRED: WGS 84	
		LONGITUDE	<del>104°</del> 103	50'	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NW NE Sec. 24 T24S R30E						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED 11/24/2020	DRILLING ENDED 11/24/2020	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	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 type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	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						
0	110	±8.5	Boring- HSA	--	--	--	--	

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				

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 06/30/17)		
FILE NO.	POD NO.	TRN NO.			
LOCATION	WELL TAG ID NO.				PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	24	24	Sand, Fine-grained,poorly-graded, with caliche, Tan-Off-White	Y    ✓ N	
	24	34	10	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Tan-Off-White	Y    ✓ N	
	34	51	17	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Light Brown	Y    ✓ N	
	51	54	3	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Light Brown-Brown	Y    ✓ N	
	54	76	22	Sand, Fine-grained,poorly-graded, Brown, dry	Y    ✓ N	
	76	101	25	Sand, Fine-grained,poorly-graded, Light-Brown, dry	Y    ✓ N	
	101	110	9	Sand, Fine-grained,poorly-graded, with gravel, Light-Brown, dry-moist	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from LTE on-site geologist.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME <i>Jackie D. Atkins</i> Jackie D. Atkins	DATE 12/14/20

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 06/30/2017)		
FILE NO.	POD NO.	TRN NO.	LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

**I. GENERAL / WELL OWNERSHIP:**

State Engineer Well Number: C-4483-POD1  
Well owner: XTO ENERGY (Kyle Littrell) Phone No.: 432.682.8873  
Mailing address: 6401 Holiday Hill Dr.  
City: Midland State: Texas Zip code: 79707

**II. WELL PLUGGING INFORMATION:**

- 1) Name of well drilling company that plugged well: Jackie D. Atkins ( Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/21
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Elridge
- 4) Date well plugging began: 11/30/2020 Date well plugging concluded: 11/30/2020
- 5) GPS Well Location: Latitude: 32 deg, 12 min, 31.77 sec  
Longitude: 104 deg, 50 min, 0.72 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 110 ft below ground level (bgl),  
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 09/29/2020
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OCD 09-29-2020 PL 04

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 26 gallons	26 gallons	Augers	
10'-110'	Drill Cuttings	Approx. 163 gallons	163 gallons	Boring	

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

OCD ON 9/30/2024 12:04:30 PM

**III. SIGNATURE:**

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

*Jack Atkins*

12/14/2020

Signature of Well Driller

Date

# 2020-12-15\_C-4483\_POD1\_OSE\_Well Record and Log\_plu13-forsign

Final Audit Report

2020-12-15

Created:	2020-12-15
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAARxff6o4VHy1EHZsp0Yo_uFsm-rYe4wj2

## "2020-12-15\_C-4483\_POD1\_OSE\_Well Record and Log\_plu13-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2020-12-15 - 8:03:25 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2020-12-15 - 8:03:56 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2020-12-15 - 8:27:59 PM GMT- IP address: 74.50.153.115
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2020-12-15 - 8:29:23 PM GMT - Time Source: server- IP address: 74.50.153.115
-  Agreement completed.  
2020-12-15 - 8:29:23 PM GMT

OSE DTI APR 27 2023 PM 1:00





## APPENDIX C

### Photographic Documentation

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Project: NIMITZ MDP1 13 1 Fed Com 173H  
Entity: Oxy USA, Inc  
Incident ID: nAPP2406135810



Impacted soil in release footprint, facing southwest (February 27, 2024).



Impacted soil in release footprint, facing southwest (February 27, 2024).

Project: NIMITZ MDP1 13 1 Fed Com 173H  
Entity: Oxy USA, Inc  
Incident ID: nAPP2406135810



Excavated release area during remediation activities, facing southwest (June 26, 2024).



Excavated release area during remediation activities, facing southwest (June 26, 2024).

Project: NIMITZ MDP1 13 1 Fed Com 173H  
Entity: Oxy USA, Inc  
Incident ID: nAPP2406135810



Excavated release area during remediation activities, facing northeast (August 01, 2024).



Excavated release area during remediation activities, facing southwest (August 01, 2024).

Project: NIMITZ MDP1 13 1 Fed Com 173H  
Entity: Oxy USA, Inc  
Incident ID: nAPP2406135810



Reseeding activities post backfill activities, facing northeast (August 20, 2024).



Reseeding activities post backfill activities, facing northeast (August 20, 2024).



## APPENDIX D

Table(s)

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**TABLE 1**  
**EXCAVATION FLOOR SOIL SAMPLE ANALYTICAL RESULTS**  
 NIMITZ MDP1 13 1 Fed. Com 173H  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolium Project No. 03B1417159

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (&gt; 100 feet)</b>			<b>10</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>1,000</b>	<b>NE</b>	<b>2,500</b>	<b>20,000</b>	
<b>Composite Floor Soil Sample Analytical Results</b>												
FS01	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
FS02	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
FS03	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>17.1</b>	<10.0	<b>17.1</b>	<b>128</b>	
FS04	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>80.0</b>	
FS05	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>128</b>	
FS06	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>58.9</b>	<b>23.3</b>	<b>82.2</b>	<b>160</b>	
FS07	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>37.3</b>	<b>11.5</b>	<b>48.8</b>	<b>112</b>	
FS08	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>33.0</b>	<10.0	<b>33.0</b>	<b>112</b>	
FS09	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>63.1</b>	<b>27.4</b>	<b>90.5</b>	<b>208</b>	
FS10	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>128</b>	
FS11	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>61.9</b>	<b>18.8</b>	<b>80.7</b>	<b>32.0</b>	
FS12	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>48.0</b>	
FS13	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>80.0</b>	
FS14	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>10.8</b>	<10.0	<b>10.8</b>	<b>80.0</b>	
FS15	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>96.0</b>	
FS16	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>96.0</b>	
FS17	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>64.0</b>	
FS18	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>23.0</b>	<10.0	<b>23.0</b>	<b>48.0</b>	
FS19	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>48.0</b>	
FS20	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>16.0</b>	
FS21	6/26/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<b>32.0</b>	

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**  
 NIMITZ MDP1 13 1 Fed. Com 173H  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolium Project No. 03B1417159

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	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
SW02	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>144</b>
SW03	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
SW04	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>161</b>	<b>60.3</b>	<b>221</b>	<b>240</b>
	8/1/2024	0 - 4	NS					<10.0	<10.0	<10.0	<10.0	NS
SW05	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>13.5</b>	<10.0	<b>13.5</b>	<b>112</b>
SW06	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>28.9</b>	<10.0	<b>28.9</b>	<b>128</b>
SW07	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SW08	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SW09	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SW10	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
SW11	6/27/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>14.9</b>	<10.0	<b>14.9</b>	<b>80.0</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

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



**TABLE 3**  
**BACKFILL SOIL SAMPLE ANALYTICAL RESULTS**  
 Twin Wells Caliche Pit  
 Oxy USA, Inc.  
 Eddy 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>												
Twin Wells Caliche Pit	09/09/2024	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

*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

---

July 03, 2024

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

RE: NIMITZ MDP1 13 1 FED COM 173H

Enclosed are the results of analyses for samples received by the laboratory on 06/27/24 14:52.

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



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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 01 4 (H243871-01)**

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	07/02/2024	ND	1.94	96.8	2.00	5.74	
Toluene*	<0.050	0.050	07/02/2024	ND	1.94	97.0	2.00	9.57	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.00	100	2.00	9.07	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.87	97.8	6.00	9.89	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/03/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	190	94.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	189	94.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 02 4 (H243871-02)**

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	07/02/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/02/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	190	94.9	200	1.33		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	189	94.3	200	1.34		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 03 4 (H243871-03)**

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	07/02/2024	ND	1.94	96.8	2.00	5.74	
Toluene*	<0.050	0.050	07/02/2024	ND	1.94	97.0	2.00	9.57	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.00	100	2.00	9.07	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.87	97.8	6.00	9.89	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	07/03/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	190	94.9	200	1.33	
<b>DRO &gt;C10-C28*</b>	<b>17.1</b>	10.0	07/02/2024	ND	189	94.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 04 4 (H243871-04)**

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	07/02/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/02/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	190	94.9	200	1.33		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	189	94.3	200	1.34		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 05 4 (H243871-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/02/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	190	94.9	200	1.33		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	189	94.3	200	1.34		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 06 4 (H243871-06)**

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	07/02/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/02/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	190	94.9	200	1.33		
<b>DRO &gt;C10-C28*</b>	<b>58.9</b>	10.0	07/02/2024	ND	189	94.3	200	1.34		
<b>EXT DRO &gt;C28-C36</b>	<b>23.3</b>	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 07 4 (H243871-07)**

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	07/02/2024	ND	1.94	96.8	2.00	5.74	
Toluene*	<0.050	0.050	07/02/2024	ND	1.94	97.0	2.00	9.57	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.00	100	2.00	9.07	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.87	97.8	6.00	9.89	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	07/03/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	190	94.9	200	1.33	
<b>DRO &gt;C10-C28*</b>	<b>37.3</b>	10.0	07/02/2024	ND	189	94.3	200	1.34	
<b>EXT DRO &gt;C28-C36</b>	<b>11.5</b>	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 08 4 (H243871-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2024	ND	1.94	96.8	2.00	5.74	
Toluene*	<0.050	0.050	07/02/2024	ND	1.94	97.0	2.00	9.57	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.00	100	2.00	9.07	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.87	97.8	6.00	9.89	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/03/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62	
DRO >C10-C28*	33.0	10.0	07/02/2024	ND	191	95.5	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 09 4 (H243871-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/03/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>208</b>	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
<b>DRO &gt;C10-C28*</b>	<b>63.1</b>	10.0	07/02/2024	ND	191	95.5	200	3.21		
<b>EXT DRO &gt;C28-C36</b>	<b>27.4</b>	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 112 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 10 4 (H243871-10)**

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	07/03/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/03/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 11 4 (H243871-11)**

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	07/03/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/03/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
<b>DRO &gt;C10-C28*</b>	<b>61.9</b>	10.0	07/02/2024	ND	191	95.5	200	3.21		
<b>EXT DRO &gt;C28-C36</b>	<b>18.8</b>	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 12 4 (H243871-12)**

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	07/03/2024	ND	1.94	96.8	2.00	5.74	
Toluene*	<0.050	0.050	07/03/2024	ND	1.94	97.0	2.00	9.57	
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.00	100	2.00	9.07	
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.87	97.8	6.00	9.89	
Total BTEX	<0.300	0.300	07/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/03/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 13 4 (H243871-13)**

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	07/03/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/03/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 14 4 (H243871-14)**

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	07/03/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/03/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
<b>DRO &gt;C10-C28*</b>	<b>10.8</b>	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 112 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 15 4 (H243871-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/03/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 16 4 (H243871-16)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	1.94	96.8	2.00	5.74		
Toluene*	<0.050	0.050	07/03/2024	ND	1.94	97.0	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.00	100	2.00	9.07		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.87	97.8	6.00	9.89		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 112 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 17 4 (H243871-17)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.95	97.6	2.00	0.826		
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 18 4 (H243871-18)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.95	97.6	2.00	0.826		
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
<b>DRO &gt;C10-C28*</b>	<b>23.0</b>	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 19 4 (H243871-19)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.95	97.6	2.00	0.826		
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 20 4 (H243871-20)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.95	97.6	2.00	0.826		
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/02/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	06/27/2024	Sampling Date:	06/26/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY		

**Sample ID: FS 21 4 (H243871-21)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.95	97.6	2.00	0.826		
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/02/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Ensoform, LLC  
 Project Manager: Beaux Jennings  
 P.O. #: **BILL TO**  
 ANALYSIS REQUEST

Address: 601 N. Marland St. STE 400  
 City: Midland State: TX Zip: 79701  
 Company: OXY USA  
 Attn: Wade Dietrich

Phone #: (210)219-8858  
 Project #: 038417159 Project Owner: Email: bjennings@ensolum.com  
 Address:

Project Name: NIMITZ MDP13 1 Fed. Com 173H  
 City: State: Zip:

Project Location:  
 Sampler Name: Kaoru Shimada / Madan Nalley  
 Phone #: Email:

FOR LAB USE ONLY  
 Lab I.D. Sample I.D. Sample Depth (feet)  
 (G)RAB OR (C)OMP.  
 # CONTAINERS  
 MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE  
 OTHER: ACID/BASE, ICE / COOL, OTHER: PRESERV. SAMPLING

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500
H043871	E501	4	1	1				6-28-24	13:29	X	X	X
	E502	7	1	1					13:43	X	X	X
	E504	7	1	1					13:44	X	X	X
	F105	7	1	1					13:46	X	X	X
	E506	7	1	1					13:47	X	X	X
	F507	7	1	1					13:49	X	X	X
	E508	7	1	1					13:51	X	X	X
	E509	7	1	1					13:52	X	X	X
	E510	7	1	1				6-28-24	14:03	X	X	X

PLEASE NOTE: Liability and Damages: Cardinal's liability and direct or indirect damages shall be limited to the amount paid by the client for the analyses.  
 All claims, including those for negligence and any other cause whatsoever shall be barred unless a claim is made in writing and received by Cardinal within 30 days after completion of the applicable service.  
 In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, attorneys' or processors' fees arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]*  
 Date: 6-27-24  
 Received By: *[Signature]*  
 Date: 6-27-24  
 Verbal Result:  Yes  No  
 All Results are emailed. Please provide Email address: bjennings@ensolum.com, hgreen@ensolum.com  
 REMARKS: Paykey/AFENonAFE:

Delivered By: (Circle One)  UPS  Bus  Other  
 Observed Temp. °C: 2.3  
 Sample Condition:  Cool  Intact  
 Checked By: *[Signature]*  
 Turnaround Time:  Standard  Rush  
 Thermometer ID: #140  
 Correction Factor: -0.56  
 Add'l Phone #:  Yes  No  
 Corrected Temp. °C:  Yes  No

FORM-006 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to celeykeene@cardinallabsnm.com



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Ensolum, LLC  
 Project Manager: Beaux Jennings  
**BILL TO**  
 P.O. #:   
 ANALYSIS REQUEST

Address: 601 N. Marland St. STE 400  
 City: Midland State: TX Zip: 79701  
 Company: OXY USA  
 Attn: Wade Dietrich

Phone #: (210)219-8858 Email: bjennings@ensolum.com  
 Project #: 63814159 Project Owner:   
 Address:   
 City:   
 State:   
 Zip:   
 Project Name: NIMITZ MDP1 13 1 Fed. Com 173H

Project Location:   
 Sample Name: Kaoru Shimada / *Mona Valley*  
 Phone #:   
 Email:   
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	REMARKS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			
11	F511	4	1							6-26-24	1405	BTEX 8021B
13	F512	7	1							6-26-24	1407	TPH 8015M
14	F513	7	1							6-26-24	1409	Chloride 4500
15	F514	7	1							6-26-24	1410	
16	F515	7	1							6-26-24	1411	
17	F516	7	1							6-26-24	1413	
18	F517	7	1							6-26-24	1414	
19	F518	7	1							6-26-24	1416	
20	F519	7	1							6-26-24	1417	
20	F520	7	1							6-26-24	1418	

**PLEASE NOTE:** Quality and Quantity. Cardinal's custody and direct evidence method for each depth whether based on contact or not, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be limited to the amount of the fee for the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of profits, loss of data, or other damages, arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *MMW* Received By: *Shodriguez*  
 Date: *6-27-24* Time: *1:52*  
 Verbal Result:  Yes  No  
 All Results are emailed. Please provide Email address: *bjennings@ensolum.com, hgreen@ensolum.com*  
 REMARKS: *Paykey/AFENomAFE:*

Delivered By: (Circle One)  UPS - Bus - Other:   
 Observed Temp. °C: *2.3c*  
 Corrected Temp. °C:   
 Sample Condition:  Cool  Intact  No  No  
 CHECKED BY: (Initials) *SR*  
 Turnaround Time:  Rush  Standard  Bacteria (only) Sample Condition  
 Thermometer ID: *473*  Cool  Intact  Observed Temp. °C: *1440*  
 Correction Factor: *0.5c*  Yes  No  No  No Corrected Temp. °C:   
 Add'l Phone #:   
 FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to *celeykeene@cardinallabsnm.com*





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

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July 03, 2024

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

RE: NIMITZ MDP1 13 1 FED COM 173H

Enclosed are the results of analyses for samples received by the laboratory on 06/27/24 14:52.

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



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:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 01 0-4 (H243872-01)**

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	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 02 0-4 (H243872-02)**

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	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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>144</b>	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 03 0-4 (H243872-03)**

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	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	191	95.5	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 04 0-4 (H243872-04)**

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	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62	
<b>DRO &gt;C10-C28*</b>	<b>161</b>	10.0	07/02/2024	ND	191	95.5	200	3.21	
<b>EXT DRO &gt;C28-C36</b>	<b>60.3</b>	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 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:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 05 0-4 (H243872-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62	
<b>DRO &gt;C10-C28*</b>	<b>13.5</b>	10.0	07/02/2024	ND	191	95.5	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 06 0-4 (H243872-06)**

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	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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>128</b>	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	180	90.0	200	2.62	
<b>DRO &gt;C10-C28*</b>	<b>28.9</b>	10.0	07/02/2024	ND	191	95.5	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 07 0-4 (H243872-07)**

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	07/02/2024	ND	1.95	97.6	2.00	0.826		
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/02/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	191	95.6	200	0.259		
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.1	200	3.79		
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND						

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 08 0-4 (H243872-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	191	95.6	200	0.259	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.1	200	3.79	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 09 0-4 (H243872-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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>16.0</b>	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	191	95.6	200	0.259	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.1	200	3.79	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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**Analytical Results For:**

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

Received:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 10 0-4 (H243872-10)**

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	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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>64.0</b>	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	191	95.6	200	0.259	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.1	200	3.79	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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**Analytical Results For:**

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

Received:	06/27/2024	Sampling Date:	06/27/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: SW 11 0-4 (H243872-11)**

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	07/02/2024	ND	1.95	97.6	2.00	0.826	
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	98.0	2.00	0.361	
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	0.153	
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.15	103	6.00	0.131	
Total BTEX	<0.300	0.300	07/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	07/02/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	191	95.6	200	0.259	
<b>DRO &gt;C10-C28*</b>	<b>14.9</b>	10.0	07/02/2024	ND	168	84.1	200	3.79	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Beaux Jennings

P.O. #:

Address: 601 N. Marland St. STE 400

Company: OXY USA

City: Midland State: TX Zip: 79701

Attn: Wade Ditrch

Phone #: (210)219-8858 Email: bjennings@ensolum.com

Address:

Project #: 03B1412159 Project Owner:

City:

Project Name: NIMITZ MDP1 13 1 Fed. Com 173H

State: Zip:

Project Location:

Phone #:

Sampler Name: Kaoru Shimada

Email:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.

# CONTAINERS

MATRIX

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER: ACID/BASE: ICE / COOL OTHER:

DATE

TIME





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

---

August 08, 2024

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: NIMITZ MDPI 13 1 FED COM # 173H

Enclosed are the results of analyses for samples received by the laboratory on 08/02/24 14:23.

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



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

**Analytical Results For:**

ENSOLUM  
 KELLY LOWERY  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/02/2024	Sampling Date:	08/01/2024
Reported:	08/08/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDPI 13 1 FED COM # 173H	Sampling Condition:	Cool & Intact
Project Number:	03B1417159	Sample Received By:	Alyssa Parras
Project Location:	OXY 32.215960, -103.828236		

**Sample ID: SW 04 0-4' (H244662-01)**

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	08/06/2024	ND	231	115	200	0.911	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	219	110	200	0.0716	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					
<hr/>									
Surrogate: 1-Chlorooctane	68.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	75.0 %	49.1-148							

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- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
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Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1 of 1

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: ~~Becky Jennings~~ Kelly Lowery  
 Address: 601 N. Marientfield St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-249-8868-241-733-Fax #: 3465  
 Project #: DBB1417159 Project Owner:  
 Project Name: Nimitz HDP1 B31 Fed. COM 1734  
 Project Location: Eddy County  
 Sampler Name: Takhia Guadian  
 P.O. #: Company: Oxy USA, Inc.  
 Attn: Wade Ditrich  
 Address: City:  
 State: Zip:  
 Phone #: 575-390-2828  
 Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
824124122	SN04	0-4	C1	X							8/1/24	1200	TPA 8015M
	NFE										8/1/24		NVS

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Relinquished By: [Signature] Date: 8/1/24 Time: 1300  
 Received By: [Signature] Date: 8/1/24 Time: 14:23  
 Delivered By: (Circle One) Observed Temp. °C: 0.5°C Corrected Temp. °C: -0.2°C  
 Sampler - UPS - Bus - Other: Sample Condition: Cool Intact  Yes  No  
 CHECKED BY: (Initials) [Signature]  
 Turnaround Time: Standard  Rush   
 Thermometer ID #113 Correction Factor 0.5°C  
 Bacteria (only) Sample Condition: Cool Intact  Yes  No  
 Observed Temp. °C: Corrected Temp. °C:  
 Verbal Result:  Yes  No Add'l Phone #:  
 All Results are emailed. Please provide Email address: [bjennings@ensolum.com](mailto:bjennings@ensolum.com) [Klowery@ensolum.com](mailto:Klowery@ensolum.com)  
 REMARKS:  
 † Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

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September 12, 2024

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

RE: TWIN WELLS CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/09/24 15:16.

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



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

**Analytical Results For:**

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

Received:	09/09/2024	Sampling Date:	09/09/2024
Reported:	09/12/2024	Sampling Type:	Soil
Project Name:	TWIN WELLS CALICHE PIT	Sampling Condition:	Cool & Intact
Project Number:	03B1417156	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: TWIN WELLS CALICHE PIT (H245437-01)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: CT							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	09/10/2024	ND	400	100	400	0.00	

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\*=Accredited Analyte

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**Notes and Definitions**

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- RPD Relative Percent Difference
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- \*\*\* Insufficient time to reach temperature.
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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1/1

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC P.O. #:  
 Project Manager: Kelley Lowery Company: Oxy USA, Inc.  
 Address: 601 N. Marnefield St. STE 400 Attn: Wade Dittrich  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-733-3165 Fax #: \_\_\_\_\_  
 Project #: D3B1417156 Project Owner:  
 Project Name: Twin Wells calich pit City: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL
112UB437	Twin wells calich pit	—	C1										9/9/24	1400	Chlorides TPH (HOLD) BTEX (HOLD)

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Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: OP Davis Date: 9/9/24 Time: 1510  
 Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_  
 Observed Temp. °C: 0.7°C Corrected Temp. °C: 0.1°C  
 Sample Condition:  Cool  Intact  
 Checked By: (Initials) BP  
 Turnaround Time: \_\_\_\_\_ Standard  Rush   
 Thermometer ID # 415 # 140 Bacteria (only) Sample Condition:  Cool  Intact  
 Correction Factor: -0.0°C  Yes  No  Observed Temp. °C: \_\_\_\_\_  
 Corrected Temp. °C: \_\_\_\_\_  
 Verbal Result:  Yes  No  Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: blennings@ensolum.com  
 REMARKS: 1/1/lowery@ensolum.com

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

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

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

QUESTIONS  
 Action 388361

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2406135810
Incident Name	NAPP2406135810 NIMITZ MDP1 13 1 FED. COM 173H @ 0
Incident Type	Oil Release
Incident Status	Reclamation Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	NIMITZ MDP1 13 1 Fed. Com 173H
Date Release Discovered	02/25/2024
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 20 BBL   Recovered: 0 BBL   Lost: 20 BBL.
Produced Water Released (bbls) Details	Not answered.
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.

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

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

QUESTIONS, Page 2

Action 388361

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**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>

*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.*

**Initial Response**

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

The source of the release has been stopped	<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>

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 09/30/2024
--	---

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

**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	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 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	221
GRO+DRO (EPA SW-846 Method 8015M)	161
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	02/25/2024
On what date will (or did) the final sampling or liner inspection occur	08/01/2024
On what date will (or was) the remediation complete(d)	08/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	5635
What is the estimated volume (in cubic yards) that will be reclaimed	835
What is the estimated surface area (in square feet) that will be remediated	5635
What is the estimated volume (in cubic yards) that will be remediated	835

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

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

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QUESTIONS, Page 4

Action 388361

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 09/30/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 388361

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Deferral Requests Only**

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

Requesting a deferral of the remediation closure due date with the approval of this submission	No
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Action 388361

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>368069</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>08/01/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>1</b>
What was the sampling surface area in square feet	<b>200</b>

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
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	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>5635</b>
What was the total volume (cubic yards) remediated	<b>835</b>
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	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>5635</b>
What was the total volume (in cubic yards) reclaimed	<b>835</b>
Summarize any additional remediation activities not included by answers (above)	<b>NA</b>

*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: 09/30/2024
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Action 388361

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Reclamation Report**

*Only answer the questions in this group if all reclamation steps have been completed.*

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	5635
What was the total volume of replacement material (in cubic yards) for this site	835

*Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a 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.*

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	08/20/2024

Summarize any additional reclamation activities not included by answers (above)	NA
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*The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: 09/30/2024
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Action 388361

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 388361

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388361
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2406135810 NIMITZ MDP1 13 1 FED. COM 173H, thank you. The Report is approved. For future reference, 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. 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.	10/25/2024