



# ENSOLUM

## CLOSURE REPORT

Property:

**NIMITZ MDP1 13 1 Federal Com #311H**

**Unit D, S24, T24S, R30E  
32.209823° N, 103.838935° W  
Eddy County, New Mexico  
NMOCD Incident ID: nAPP2400330251**

June 20, 2024

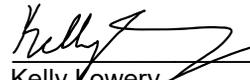
Ensolum Project No. 03B1417138

Prepared for:

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

**Attn: Wade Dittrich**

Prepared by:

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

  
\_\_\_\_\_  
Beaux Jennings  
Associate Principal



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NMOCD Incident ID: nAPP2400330251**

**Ensolum Project No. 03B1417138**

## 1.0 INTRODUCTION

### 1.1 Site Description & Background

<b>Operator:</b>	OXY USA, Inc. (Oxy)
<b>Site Name:</b>	NIMITZ MDP1 13 1 Federal Com #311H
<b>Location*:</b>	Unit D, Section 24, Township 24 South, Range 30 East 32.209823° N, 103.838935° 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)

\* - Public Land Survey System (PLSS) Location and Global Positioning System (GPS) coordinates updated to reflect accurate release location pursuant to submission of the New Mexico EMNRD OCD online Notification of Release (NOR).

On December 31, 2023, Oxy had a release of crude oil and produced water at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 50 barrels (bbls) of crude oil and 10 bbls of produced water released onto the ground surface, with approximately 20 bbls of crude oil and 5 bbls of produced water recovered. Oxy reported the release to the New Mexico EMNRD OCD online portal NOR form on January 3, 2024. The release was assigned Incident Number nAPP2400330251.

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**.

- No exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. However, there is one well record reported within 0.62-miles of the Site (C-04575-POD1) that was installed in 2022 to a depth of 105 feet below ground surface (bgs) as a temporary well, with no groundwater encountered.
  - On January 22, 2024, Ensolum, on behalf of Oxy, requested a depth to water (DTW) Closure Criteria Variance Request to utilize the OSE WRRS well C-04575-POD1. Due to the regional depth to groundwater being greater than 100 feet bgs and the Site being in a low karst potential area, the Closure Criteria Variance Request to reflect groundwater >100 feet as shown in Table 1 of 19.15.29.12 NMAC for any off-pad remediation of soils greater than 4 feet bgs was granted by the New Mexico EMNRD OCD on January 23, 2024.
- 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:

Closure Criteria for Soils Less 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
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg

	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### 3.0 SOIL REMEDIATION ACTIVITIES

On December 31, 2023, Oxy had a release of crude oil and produced water at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 50 bbls of crude oil and 10 bbls of produced water released onto the ground surface, with approximately 20 bbls of crude oil and 5 bbls of produced water recovered.

On March 1, 2024, Ensolum arrived on-Site to collect 64 composite soil samples from the excavation floor (FS-1 through FS-64) and six composite soil samples from the excavation sidewalls (SW-1 through SW-6). Additionally, Ensolum collected 10 delineation soil samples (DS-1 through DS-10) from locations outside the perimeter of the excavation. The excavation floor samples were collected at a depth of 1.5 feet bgs, the excavation sidewall samples were collected at a depth of 0-1.5 feet bgs, and the delineation samples were collected at a depth of 0.25 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary.

On April 5, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect 32 composite soil re-samples from the excavation floor (FS-2, FS-13, FS-15, FS-16, FS-18, FS-19, FS-24 through FS-32, FS-34 through FS-43, FS-47 through FS-52, and FS-54) at depths ranging from 2 to 3 feet bgs. In addition, Ensolum collected two delineation soil samples (DS-7 and DS-10) from locations outside the perimeter of the excavation, at a depth of 0.5 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary.

On May 9 and 10, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect 23 composite soil re-samples from the excavation floor (FS-13, FS-18, FS-19, FS-24 through FS-29, FS-34 through FS-42, FS-47, FS-50, FS-51, FS-52, and FS-54) at depths ranging from 4 to 6 feet bgs, and seven composite soil samples from the excavation sidewalls (SW-7 through SW-13) at depths of 0-4 feet bgs. Based on laboratory analytical data, no additional excavation activities or remediation activities were 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 area measured approximately 289 feet long and 113 feet wide at the maximum extents, with a depth ranging from 1.5 - 6 feet bgs.

The excavation measured approximately 25,752 square feet in areal extent. A total of 2,643 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 March 1, 2024 through May 10, 2024 included the collection of a total of 119 composite soil samples from 64 locations from the excavation floor (FS-1 through FS-64), 13 composite soil samples from 13 locations from the excavation sidewalls (SW-1 through SW-13), and 12 delineation soil samples from 10 locations outside of the release area and the pipeline repair over excavation extent (DS-1 through DS-10) for laboratory analysis.

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 (FS-1 through FS-64 and SW-1 through SW-13) and the final delineation soil samples (DS-1 through DS-10) for soils left in place at the Site to the NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final composite soil samples collected from the excavation area and the final delineation samples 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 final delineation samples do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated combined TPH-GRO/DRO/MRO concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples 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 area and the final delineation soil samples do not exceed the applicable NMOCD Closure Criteria of 600 mg/kg.

Laboratory analytical results are summarized in **Table 1** 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 off pad area 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 off-pad area: 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 wattles 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;
- Seeding was completed during the month of June 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 December 31, 2023, Oxy had a release of crude oil and produced water at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 50 bbls of crude oil and 10 bbls of produced water released onto the ground surface, with approximately 20 bbls of crude oil and 5 bbls of produced water recovered.
- Ensolum's soil sampling program from March 1, 2024 through May 10, 2024 included the collection of a total of 119 composite soil samples from 64 soil sample locations from the excavation floor (FS-1 through FS-64), 13 sidewall soil samples from 13 soil sample locations (SW-1 through SW-13), and 12 delineation soil samples from 10 locations outside of the excavation area (DS-1 through DS-10) for laboratory analysis. The composite floor samples were collected at depths ranging from 1.5 to 6 feet bgs and the sidewall samples were collected at a depths ranging from 0-4 feet bgs. Additionally, the delineation samples were collected outside of the excavation area at a depths ranging from 0.25 to 0.5 feet bgs.
- 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 wide and 289 feet long at the maximum extents, with depths ranging from 1.5 to 6 feet bgs.
- Based on laboratory analytical results, the final composite soil samples collected from the excavation floor and sidewalls, and the final delineation samples outside of the impacted area did not exhibit benzene, total BTEX, 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**

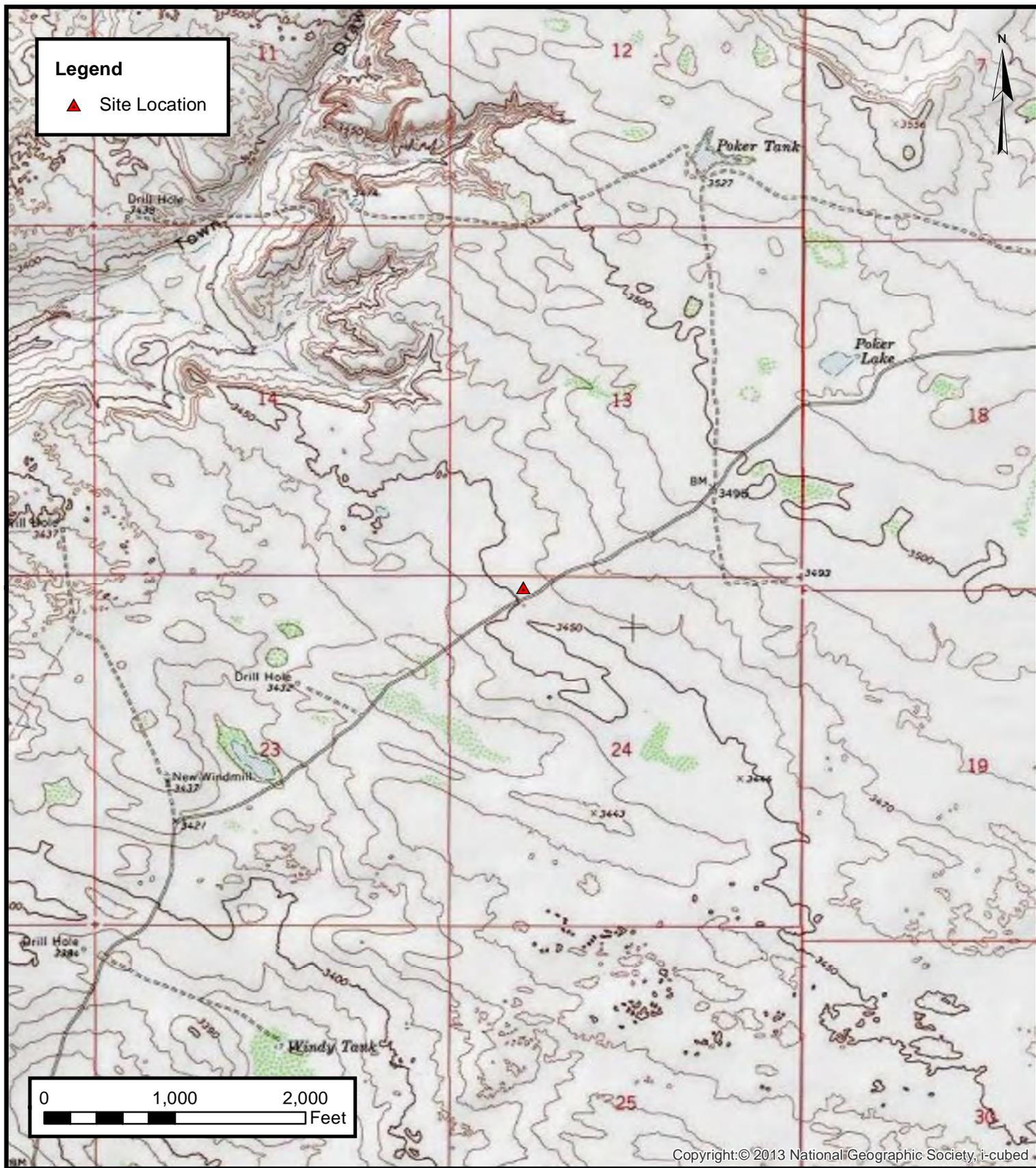
This report has been prepared for the exclusive use of Oxy USA, Inc, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc and Ensolum. Any unauthorized distribution 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 Federal Com. #311H  
32.209823° N, 103.838935° W  
Eddy County, New Mexico

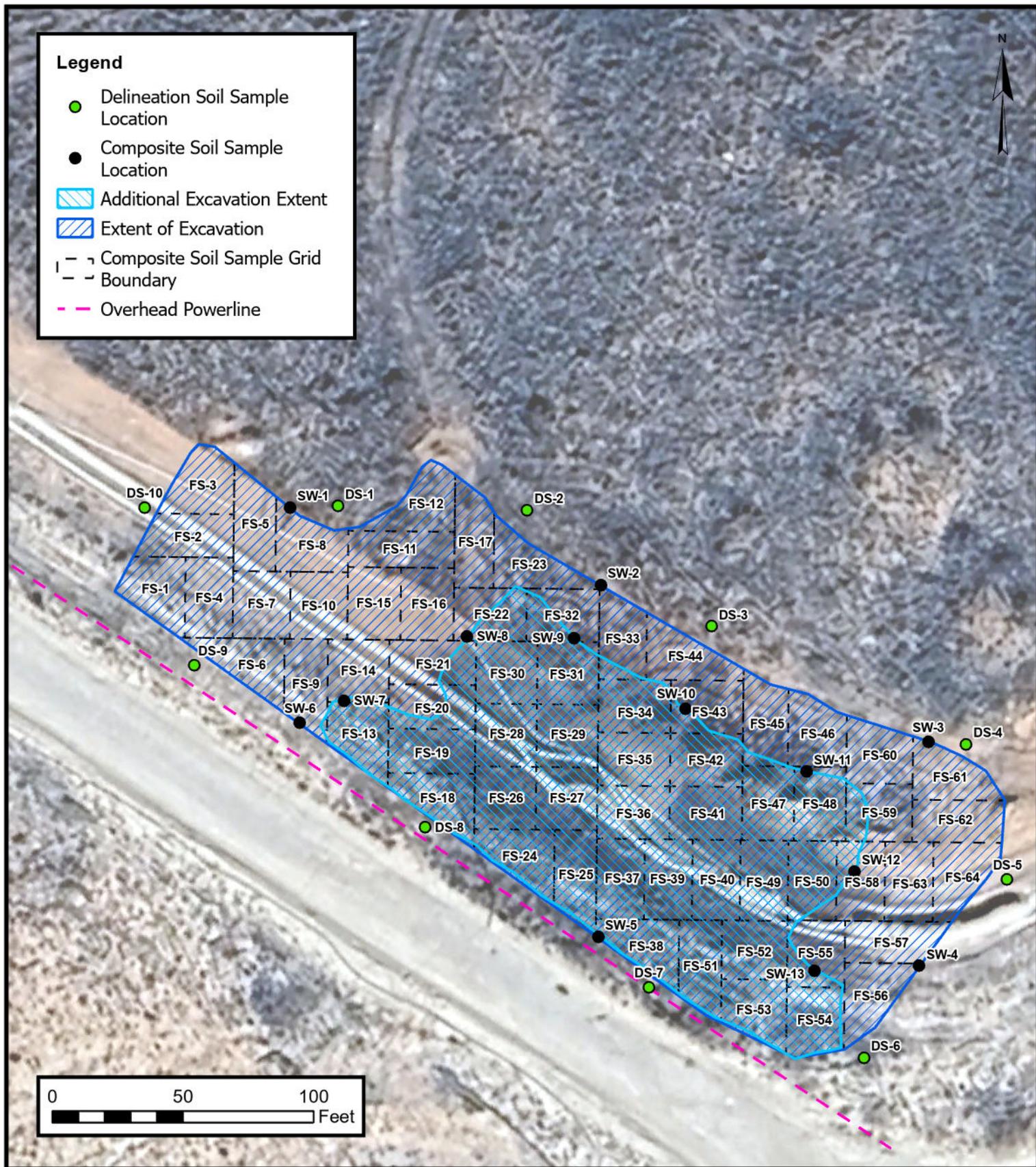
PROJECT NUMBER: 03B1417138

**FIGURE**  
**1**



**Site Vicinity Map**  
Oxy USA Inc.  
NIMITZ MDP1 13 1 Federal Com. #311H  
32.209823° N, 103.838935° W  
Eddy County, New Mexico  
PROJECT NUMBER: 03B1417138

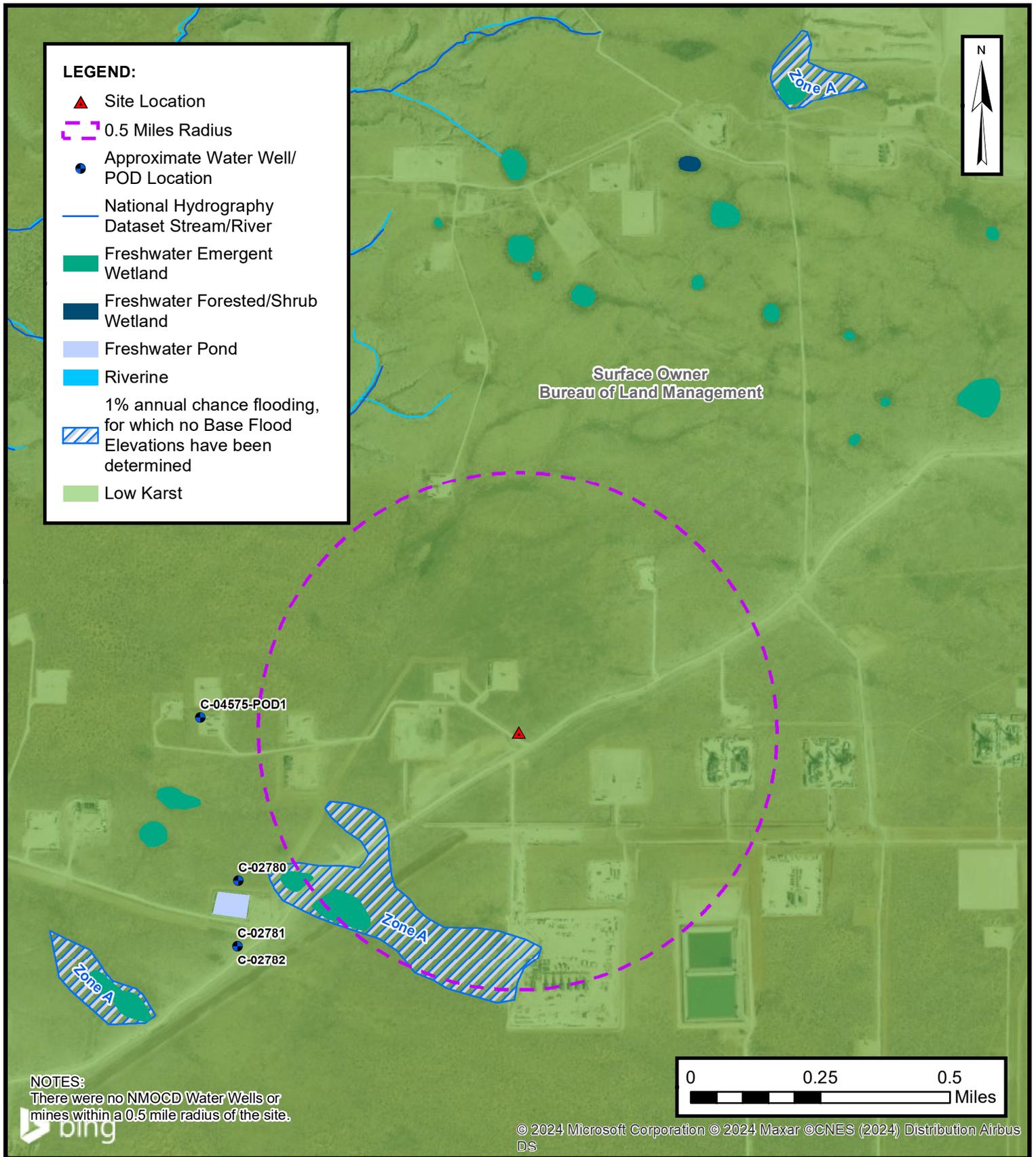
**FIGURE**  
**2**



**Site Map**  
 Oxy USA Inc.  
 NIMITZ MDP1 13 1 Federal Com. #311H  
 32.209823° N, 103.838935° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417138

**FIGURE**  
**3**



**Closure Criteria Map**  
 Oxy USA Inc.  
 NIMITZ MDP1 13 1 Federal Com. #311H  
 32.209823° N, 103.838935° W  
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417138

**FIGURE**  
**4**



## APPENDIX B

### Supporting Documentation

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## Beaux Jennings

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**From:** Dittrich, John W <Wade\_Dittrich@oxy.com>  
**Sent:** Sunday, December 31, 2023 9:58 PM  
**To:** OCD.Enviro@emnrd.nm.gov; BLM\_NM\_CFO\_Spill@blm.gov  
**Cc:** Beaux Jennings; Pierce, Tyson (The Bergaila Company)  
**Subject:** Initial Notification-Nimitz MDPI 13 1 Fed. Com 311H

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

All,

This is to inform you that Oxy Permian had a **Reportable** release in **Eddy County** at the **Nimitz MDPI 13 1 Fed. Com 311H** on 12/31/2023.

- **Release Location:** Legal -13-24S-30E-
- **Release Volume:** 50 bbls of Oil and 10 bbls of Produced Water.
- **Recovered:** 20 bbls of Oil recovered and 5 bbls of PW recovered
- **Cause of Release:** Flow Line rupture
- **Approximate Area impacted by release:** TBD-**Leak is off location** (measurements are subject to change with GPS tracking)
- **GPS Coordinates of Leak and Driving Directions:** **32.22412370, -103.81259865**- Int. of Hwy 128 and Twin Wells Rd., go South on TWR for 5.2 miles, turn Right and go 450ft to leak on Right side of road.
- Please let me know if you have any questions.

**Kelly Lowery**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Tuesday, January 23, 2024 8:50 AM  
**To:** Kelly Lowery  
**Cc:** Bratcher, Michael, EMNRD; Beaux Jennings; Dittrich, John W; Pierce, Tyson (Legacy Safety & Consulting LLC)  
**Subject:** RE: [EXTERNAL] NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910) and NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251) - Closure Criteria Variance Request

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

Kelly,

The Variance Request for depth to groundwater of >100' 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:** Monday, January 22, 2024 10:06 AM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910) and NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251) - Closure Criteria Variance Request

---

**From:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Sent:** Monday, January 22, 2024 9:07 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>; 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)>  
**Subject:** [EXTERNAL] NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910) and NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251) - Closure Criteria Variance Request

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Good morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a Closure Criteria Variance for the NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910) and for the NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251), which are roughly 0.15 miles apart from each other.

NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910)

- A flow line rupture resulted in the release of 12 barrels of oil and 41 barrels of produced water. Oxy immediately recovered 3 barrels of oil and recovered 10 barrels of produced water. The Site will be vertically and laterally delineated per NMAC 19.15.29.

NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251)

- A flow line rupture resulted in the release of 50 barrels of oil and 10 barrels of produced water. Oxy immediately recovered 20 barrels of oil and recovered 5 barrels of produced water. The Site will be vertically and laterally delineated per NMAC 19.15.29.

Attached is groundwater research from the area surrounding the release. All nearby USGS and NMOSE wells indicate depth to groundwater greater than 100 feet bgs. The nearest borehole with depth to groundwater data is located 0.62 miles west of each release area and has a recorded total depth of the well at 105 feet bgs with no groundwater encountered from January 2022.

Due to the regional depth to groundwater being greater than 100 feet bgs and the site being in low potential karst area, Ensolum requests a Closure Criteria Variance to reflect groundwater > 100 feet as shown in Table 1 of 19.15.29.12 NMAC for any off-pad remediation greater than 4 feet bgs.

Please let me know if you have any questions,



**Kelly Lowery**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Friday, February 16, 2024 3:23 PM  
**To:** Kelly Lowery  
**Cc:** Beaux Jennings; Wade\_Dittrich@oxy.com; Tyson\_Pierce@oxy.com; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD  
**Subject:** Sampling Variance Request for NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251)

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

Kelly,

The largest variance confirmation floor sample size that the OCD can currently grant is 400 ft2. The variance is approved for 400 ft2 floor confirmation samples. The release area will still need confirmation sidewall samples representing no more than 200 ft2. 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, February 16, 2024 1:21 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Sampling Variance Request for NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251)

---

**From:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Sent:** Friday, February 16, 2024 12:30 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>; 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)>  
**Subject:** [EXTERNAL] Sampling Variance Request for NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251)

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

On behalf of Oxy USA, Inc. (Oxy), Ensolum, LLC (Ensolum) requests a variance from the 200 square feet sampling requirement cited in 19.15.29.12 (D)(1)(c). Ensolum requests an alternate of 800 square feet, five-point composite samples collected from the Site. The current excavation extent is approximately 26,236 square feet, which would roughly equal 131 composite samples collected per the 200 square feet sampling requirement. If approved, the 800 square foot variance would decrease the number of samples collected to approximately 33 samples.

Attached is a Site Map depicting the site characterizations for the surrounding area. Previous correspondence and approval from the OCD are attached for the prior variance request regarding a DTW well located approximately 0.62 miles west of the Site documenting the regional depth to groundwater being greater than 100 feet bgs and the site being in low potential karst area.

With the provided information, Ensolum kindly asks that the OCD will acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thank you,



**Kelly Lowery, GIT**  
Project Geologist  
214-733-3165  
Ensolum, LLC  
in f 

## Kelly Lowery

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Friday, March 22, 2024 3:27 PM  
**To:** Kelly Lowery  
**Cc:** Wade\_Dittrich@oxy.com; Tyson\_Pierce@oxy.com; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD  
**Subject:** NIMITZ MDP1 13 1 Federal Com. #311H (nAPP2400330251)

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

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

RE: Incident #NAPP2400330251

Kelly,

Your request for a 90-day extension to **June 20<sup>th</sup>, 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:** Friday, March 22, 2024 1:49 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] NIMITZ MDP1 13 1 Federal Com. #311H (nAPP2400330251)

---

**From:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Sent:** Friday, March 22, 2024 1:35 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] NIMITZ MDP1 13 1 Federal Com. #311H (nAPP2400330251)

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 Federal Com. #311H (nAPP2400330251). Excavation activities are currently being conducted at the Site and require more time due to multiple aboveground flowlines within the vicinity of the release hindering the use of mechanical equipment for digging purposes. I have attached a few representative photos of the area. Please let us know if you have any questions.

Thank you,



**Kelly Lowery, GIT**  
Project Geologist  
214-733-3165  
Ensolum, LLC  
in f 



# New Mexico Office of the State Engineer

## Water Right Summary



**WR File Number:** C 04575      **Subbasin:** CUB      **Cross Reference:** -  
**Primary Purpose:** MON MONITORING WELL  
**Primary Status:** PMT PERMIT  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 0      **Cause/Case:** -  
**Agent:** XTO ENERGY INC  
**Contact:** ADRIAN BAKER  
**User:** WSP USA  
**Contact:** KALEI JENNINGS

**Documents on File**

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
<a href="#">709414</a>	<a href="#">EXPL</a>	<a href="#">2021-10-06</a>	PMT	LOG	C 04575 POD1	T	0	0	

**Current Points of Diversion**

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q			X	Y	Other Location Desc	
<a href="#">C 04575 POD1</a>	NA		64Q16Q4Sec	Tws	Rng				
			1	1	2	23	24S	30E	608412 3564355  BH01

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

5/30/24 5:21 PM

WATER RIGHT SUMMARY



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

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

OSE OIT JAN 24 2022 PM 3:00

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4575			
	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 LATITUDE 32		MINUTES 12	SECONDS 38.03	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LONGITUDE 103		50	58.70			N W
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE Sec. 23 T24S R30E, NMPM								
<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 1-4-2022	DRILLING ENDED 1-4-2022	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	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 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	105	±8.5	Boring- HSA	--	--	--	--
<b>3. ANNULAR MATERIAL</b>	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.	C-4575	POD NO.	1	TRN NO.	709414
LOCATION	2-1-1	245-30E-23	WELL TAG ID NO.	—	PAGE 1 OF 2

MON



# OSE\_Well Record and Log\_-forsign

Final Audit Report

2022-01-22

Created:	2022-01-21
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri

## "OSE\_Well Record and Log\_-forsign" History

OSE DIT JAN 24 2022 PM3:00

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2022-01-21 - 10:48:19 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2022-01-22 - 0:16:23 AM GMT



PECOS DISTRICT, BLM  
SEED MIX FOR

The following Soils or Soil Association may represent these ecological sites:  
Alama silt loam, dry, 0-3% Slope, Atoka, Bigetty-Pecos, Harkey fine sandy loam, Holloman, Holloman-Gypsum Land, Hollomex loam, 1-9% slope, dry, Largo loams, Milner loam, 0-2% slope, dry, Reagan loam, Reakor, Reakor-Bigetty, Reakor-Tencee, Reeves loam, 0-2% slope, dry, Russler, Shanta, Upton-Reakor

Loamy, SD-3 Ecological Site  
Loamy CP-2  
Gyp Upland CP-2

April 4, 2006

<u>Common Name and Preferred Variety</u>	<u>Scientific Name</u>	<u>Pounds of Pure Live Seed Per Acre</u>
Blue grama,	<i>(Bouteloua gracilis)</i>	4.0
Sideoats grama,	<i>(Bouteloua curtipendula)</i>	1.0
Sand dropseed	<i>(Sporobolus cryptandrus)</i>	0.5
Vine mesquite	<i>(Panicum obtusum)</i>	1.0
Plains bristlegrass	<i>(Setaria macrostachya)</i>	1.0
Indian blanketflower	<i>(Gaillardia aristata)</i>	0.5
Desert or Scarlet Globemallow	<i>(Sphaeralcea ambigua)</i> or <i>(S. coccinea)</i>	1.0
Annual sunflower	<i>(Helianthus annuus)</i>	0.75
TOTAL POUNDS PURE LIVE SEED (pls) PER ACRE		9.75
Certified Weed Free Seed		

If one species is not available, increase ALL others proportionately.  
Use No Less than 4 species, including one forb.

No less than 9.75 pounds pls per acre shall be applied

APPROVED: /s/ Douglas J. Burger  
District Manager, Pecos District



## APPENDIX C

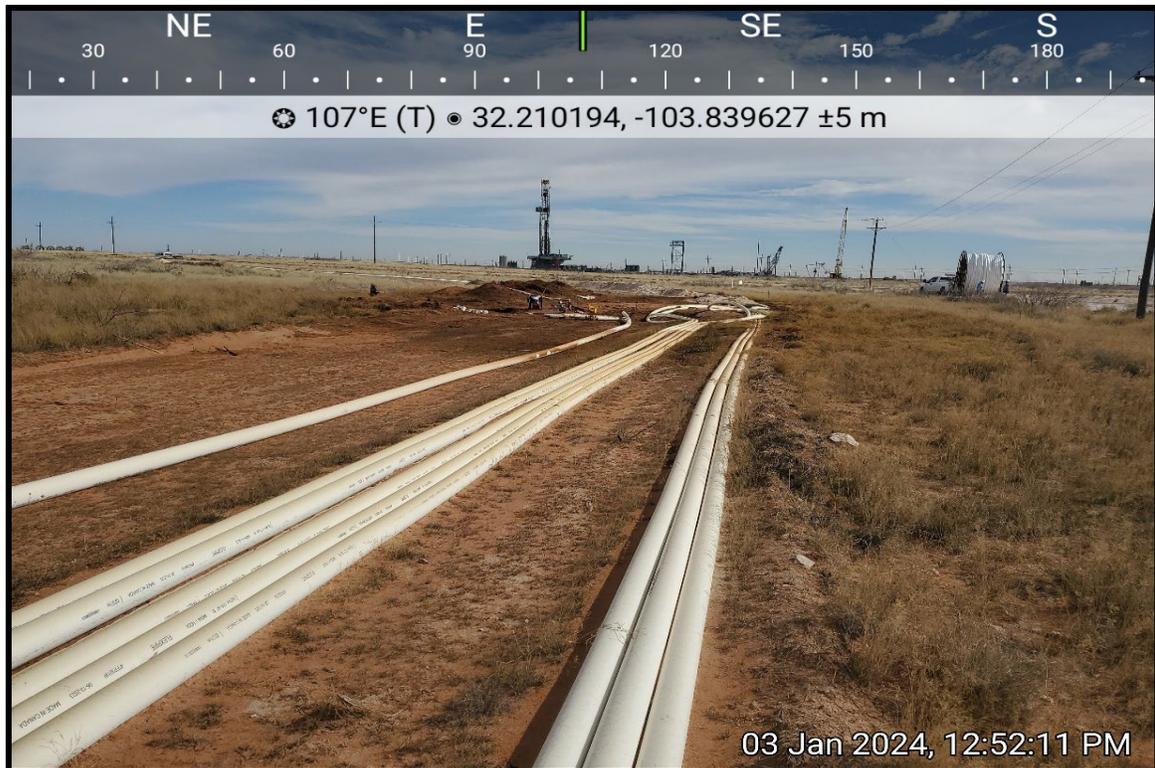
### Photographic Documentation

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Project: NIMITZ MDP1 13 1 Federal Com. #311H  
Entity: Oxy USA, Inc



Impacted soil in release footprint, facing west (01/03/2024).



Impacted soil in release footprint, facing east (01/03/2024).

Project: NIMITZ MDP1 13 1 Federal Com. #311H  
Entity: Oxy USA, Inc



Excavated release area during remediation activities, facing northeast (05/10/2024).



Excavated release area during remediation activities, facing northwest (05/10/2024).

Project: NIMITZ MDP1 13 1 Federal Com. #311H  
Entity: Oxy USA, Inc



Date & Time: Fri, May 10, 2024 at 07:23:10 MDT  
Position: 032.210344°N / 103.839612°W (±15.5ft)  
Altitude: 3459ft (±11.2ft)  
Datum: WGS-84  
Azimuth/Bearing: 141° S39E 2507mils True (±11°)  
Elevation Angle: -07.0°  
Horizon Angle: +02.7°  
Zoom: 1.0X

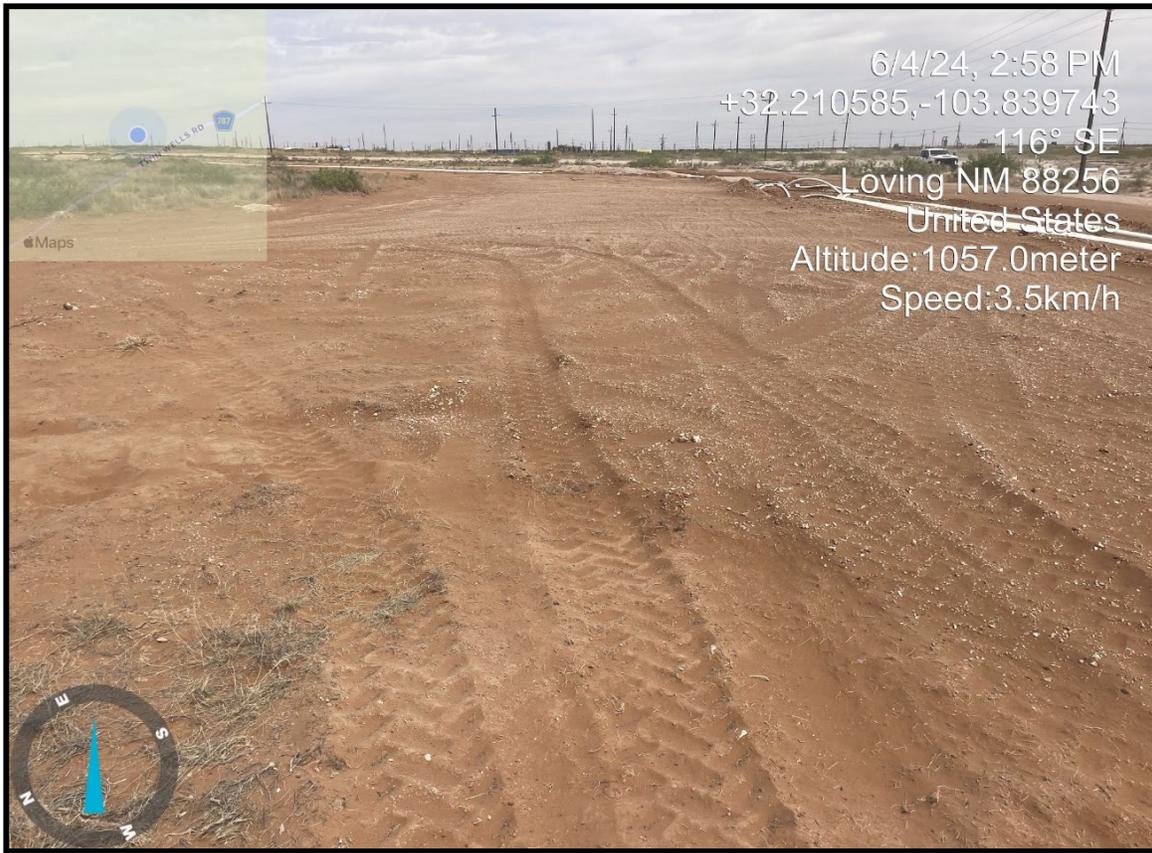
Excavated release area during remediation activities, facing southeast  
(05/10/2024).



Date & Time: Fri, May 10, 2024 at 07:22:26 MDT  
Position: 032.210230°N / 103.839409°W (±15.6ft)  
Altitude: 3455ft (±10.9ft)  
Datum: WGS-84  
Azimuth/Bearing: 154° S26E 2733mils True (±11°)  
Elevation Angle: -06.9°  
Horizon Angle: +02.0°  
Zoom: 1.0X

Excavated release area during remediation activities, facing southeast  
(05/10/2024).

Project: NIMITZ MDP1 13 1 Federal Com. #311H  
Entity: Oxy USA, Inc



Post backfill and reseeding activities, facing southeast (06/04/2024).



Post backfill and reseeding activities, facing southeast (06/04/2024).



## APPENDIX D

Table

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 NIMITZ MDP1 13 1 Federal Com. #311H  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417138

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Floor Soil Sample Analytical Results												
FS-1	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.6	<10.0	12.6	48.0
FS-2	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	118	26.2	144	64.0
	04/05/2024	2	NS					<10.0	40.6	<10.0	40.6	NS
FS-3	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-4	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-5	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-6	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-7	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.0	<10.0	44.0	32.0
FS-8	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS-9	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS-10	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS-11	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.6	<10.0	49.6	336
FS-12	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
FS-13	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.2	<10.0	23.2	1,010
	04/05/2024	2	NS							NS		5,920
	05/09/2024	4	NS							NS		176
FS-14	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.4	<10.0	44.4	112
FS-15	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	119	10.7	130	1,120
	04/05/2024	3	NS					<10.0	<10.0	<10.0	<10.0	176
FS-16	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	66.8	<10.0	66.8	656
	04/05/2024	3	NS							NS		272
FS-17	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.4	<10.0	19.4	544
FS-18	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.7	<10.0	16.7	4,600
	04/05/2024	3	NS							NS		832
	05/09/2024	4	NS							NS		48.0
FS-19	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	39.7	10.4	50.1	6,400
	04/05/2024	3	NS							NS		3,520
	05/09/2024	4	NS							NS		176
FS-20	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.7	<10.0	49.7	592
FS-21	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.8	<10.0	25.8	576
FS-22	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.5	<10.0	23.5	560
FS-23	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.0	<10.0	22.0	512
FS-24	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.9	<10.0	19.9	8,660
	04/05/2024	3	NS							NS		3,200
	05/09/2024	4	NS							NS		160

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 NIMITZ MDP1 13 1 Federal Com. #311H  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417138

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>	
FS-25	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	48.4	10.0	58.4	7,920	
	04/05/2024	3	NS					NS					3,600
	05/09/2024	4	NS					NS					592
FS-26	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	61.1	12.0	73.1	6,880	
	04/05/2024	3	NS					NS					3,320
	05/09/2024	4	NS					NS					192
FS-27	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	66.5	11.3	77.8	5,200	
	04/05/2024	3	NS					NS					1,580
	05/09/2024	4	NS					NS					192
FS-28	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	42.7	<10.0	42.7	1,460	
	04/05/2024	3	NS					NS					704
	05/09/2024	4	NS					NS					48.0
FS-29	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,470	
	04/05/2024	3	NS					<10.0	18.1	<10.0	18.1	736	
	05/09/2024	4	NS					NS					16.0
FS-30	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	111	17.8	129	992	
	04/05/2024	3	NS					<10.0	26.2	<10.0	26.2	272	
FS-31	03/01/2024	1.5	<0.050	<0.050	<0.050	0.229	<0.300	<10.0	31.5	2,250	386	2,668	
	04/05/2024	3	NS					<10.0	16.6	<10.0	16.6	288	
FS-32	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.8	17.5	80.3	1,220	
	04/05/2024	3	NS					NS					176
FS-33	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448	
FS-34	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	445	82.9	528	4,240	
	04/05/2024	2	NS					<10.0	32.1	<10.0	32.1	928	
	05/09/2024	4	NS					NS					144
FS-35	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,520	
	04/05/2024	3	NS					NS					3,520
	05/09/2024	4	NS					NS					80.0
FS-36	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	134	29.5	164	4,000	
	04/05/2024	3	NS					<10.0	46.3	14.9	61.2	4,160	
	05/09/2024	5	NS					NS					112
FS-37	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	239	47.4	286	3,760	
	04/05/2024	3	NS					<10.0	68.7	22.8	91.5	5,760	
	05/09/2024	5	NS					NS					96.0
FS-38	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	7,440	
	04/05/2024	2	NS					NS					736
	05/09/2024	5	NS					NS					48.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 NIMITZ MDP1 13 1 Federal Com. #311H  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417138

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>	
FS-39	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,640	
	04/05/2024	3	NS					NS					1,250
	05/09/2024	5	NS					NS					176
FS-40	03/01/2024	1.5	<0.050	0.067	<0.050	0.907	0.974	61.8	5,600	1,170	6,832	5,680	
	04/05/2024	3	NS					<10.0	<10.0	<10.0	<10.0	992	
	05/09/2024	6	NS					NS					112
FS-41	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	720	
	04/05/2024	3	NS					NS					1,600
	05/09/2024	6	NS					NS					96.0
FS-42	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	106	28.3	137	1,300	
	04/05/2024	3	NS					<10.0	21.1	<10.0	21.1	3,440	
	05/09/2024	4	NS					NS					80.0
FS-43	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	60.7	11.3	72.0	3,440	
	04/05/2024	2	NS					NS					320
FS-44	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0	
FS-45	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.5	<10.0	56.5	448	
FS-46	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.4	<10.0	11.4	256	
FS-47	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,240	
	04/05/2024	3	NS					NS					5,280
	05/09/2024	4	NS					NS					48.0
FS-48	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.7	<10.0	23.7	2,600	
	04/05/2024	3	NS					NS					112
FS-49	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.8	12.4	75.2	1,840	
	04/05/2024	3	NS					NS					256
FS-50	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,300	
	04/05/2024	3	NS					NS					4,000
	05/09/2024	6	NS					NS					80.0
FS-51	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	800	
	04/05/2024	3	NS					NS					1,840
	05/09/2024	6	NS					NS					80.0
FS-52	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	180	44.4	224	6,160	
	04/05/2024	3	NS					<10.0	25.2	<10.0	25.2	1,920	
	05/09/2024	6	NS					NS					64.0
FS-53	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160	
FS-54	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,800	
	04/05/2024	2	NS					NS					2,960
	05/09/2024	4	NS					NS					80.0

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 NIMITZ MDP1 13 1 Federal Com. #311H  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417138

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>
FS-55	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS-56	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>80.0</b>
FS-57	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
FS-58	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>400</b>
FS-59	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
FS-60	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
FS-61	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
FS-62	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS-63	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>224</b>
FS-64	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>112</b>

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 NIMITZ MDP1 13 1 Federal Com. #311H  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417138

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>												
SW-1	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SW-2	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SW-3	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SW-4	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SW-5	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
SW-6	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SW-7	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>176</b>
SW-8	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SW-9	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>160</b>
SW-10	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>256</b>
SW-11	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>22.1</b>	<10.0	<b>22.1</b>	<b>304</b>
SW-12	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>192</b>
SW-13	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>224</b>
<b>Delineation Soil Sample Analytical Results</b>												
DS-1	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>288</b>
DS-2	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
DS-3	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
DS-4	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
DS-5	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
DS-6	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
DS-7	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>1,070</b>
	04/05/2024	0.50	NS				NS				<b>160</b>	
DS-8	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>256</b>
DS-9	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
DS-10	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>319</b>	<b>41.0</b>	<b>360</b>	<b>112</b>
	04/05/2024	0.50	NS				<10.0	<10.0	<10.0	<10.0	NS	

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



## APPENDIX E

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

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

March 07, 2024

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

RE: NIMITZ MDP 13 1 FED COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 03/01/24 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 1 1.5' (H241048-01)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>12.6</b>	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 2 1.5' (H241048-02)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>118</b>	10.0	03/05/2024	ND	223	111	200	11.8	
<b>EXT DRO &gt;C28-C36</b>	<b>26.2</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 3 1.5' (H241048-03)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 4 1.5' (H241048-04)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 5 1.5' (H241048-05)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 6 1.5' (H241048-06)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 7 1.5' (H241048-07)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>44.0</b>	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 8 1.5' (H241048-08)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 9 1.5' (H241048-09)**

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	03/05/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/05/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 10 1.5' (H241048-10)**

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	03/06/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 11 1.5' (H241048-11)**

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	03/06/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>49.6</b>	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 12 1.5' (H241048-12)**

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	03/06/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 13 1.5' (H241048-13)**

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	03/06/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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>1010</b>	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>23.2</b>	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 14 1.5' (H241048-14)**

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	03/06/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>44.4</b>	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 15 1.5' (H241048-15)**

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	03/06/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/06/2024	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>1120</b>	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>119</b>	10.0	03/05/2024	ND	223	111	200	11.8	
<b>EXT DRO &gt;C28-C36</b>	<b>10.7</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 16 1.5' (H241048-16)**

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	03/06/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/06/2024	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
<b>Chloride</b>	<b>656</b>	16.0	03/06/2024	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	03/06/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>66.8</b>	10.0	03/06/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 17 1.5' (H241048-17)**

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	03/06/2024	ND	2.19	110	2.00	11.8	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9	
Total BTEX	<0.300	0.300	03/06/2024	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>544</b>	16.0	03/06/2024	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	03/06/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>19.4</b>	10.0	03/06/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 18 1.5' (H241048-18)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4600</b>	16.0	03/06/2024	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	03/06/2024	ND	237	119	200	13.5	
<b>DRO &gt;C10-C28*</b>	<b>16.7</b>	10.0	03/06/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 19 1.5' (H241048-19)**

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5		
DRO >C10-C28*	39.7	10.0	03/05/2024	ND	189	94.5	200	6.87		
EXT DRO >C28-C36	10.4	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 20 1.5' (H241048-20)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>592</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>49.7</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.6 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 21 1.5' (H241048-21)**

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>576</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5		
<b>DRO &gt;C10-C28*</b>	<b>25.8</b>	10.0	03/05/2024	ND	189	94.5	200	6.87		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 22 1.5' (H241048-22)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>560</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>23.5</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 54.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 23 1.5' (H241048-23)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>512</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>22.0</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 24 1.5' (H241048-24)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8660</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>19.9</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 25 1.5' (H241048-25)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>7920</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>48.4</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
<b>EXT DRO &gt;C28-C36</b>	<b>10.0</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 26 1.5' (H241048-26)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6880</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>61.1</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
<b>EXT DRO &gt;C28-C36</b>	<b>12.0</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 27 1.5' (H241048-27)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5200</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>66.5</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
<b>EXT DRO &gt;C28-C36</b>	<b>11.3</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 28 1.5' (H241048-28)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1460</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>42.7</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 29 1.5' (H241048-29)**

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	189	94.5	200	6.87		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 30 1.5' (H241048-30)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>992</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>111</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
<b>EXT DRO &gt;C28-C36</b>	<b>17.8</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 65.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 31 1.5' (H241048-31)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
<b>Total Xylenes*</b>	<b>0.229</b>	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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>5840</b>	16.0	03/06/2024	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
<b>GRO C6-C10*</b>	<b>31.5</b>	10.0	03/05/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>2250</b>	10.0	03/05/2024	ND	189	94.5	200	6.87	
<b>EXT DRO &gt;C28-C36</b>	<b>386</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 32 1.5' (H241048-32)**

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1220</b>	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5		
<b>DRO &gt;C10-C28*</b>	<b>62.8</b>	10.0	03/05/2024	ND	189	94.5	200	6.87		
<b>EXT DRO &gt;C28-C36</b>	<b>17.5</b>	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 51.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 33 1.5' (H241048-33)**

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/06/2024	ND	432	108	400	3.64	QM-07	

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	03/05/2024	ND	208	104	200	11.5		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	189	94.5	200	6.87		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 34 1.5' (H241048-34)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
DRO >C10-C28*	445	10.0	03/06/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	82.9	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 65.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 35 1.5' (H241048-35)**

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	189	94.5	200	6.87		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 36 1.5' (H241048-36)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4000</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>134</b>	10.0	03/06/2024	ND	189	94.5	200	6.87	
<b>EXT DRO &gt;C28-C36</b>	<b>29.5</b>	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 37 1.5' (H241048-37)**

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3760</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
<b>DRO &gt;C10-C28*</b>	<b>239</b>	10.0	03/06/2024	ND	189	94.5	200	6.87	
<b>EXT DRO &gt;C28-C36</b>	<b>47.4</b>	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 65.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 38 1.5' (H241048-38)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 39 1.5' (H241048-39)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 40 1.5' (H241048-40)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
<b>Toluene*</b>	<b>0.067</b>	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
<b>Total Xylenes*</b>	<b>0.907</b>	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
<b>Total BTEX</b>	<b>0.974</b>	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5680</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>61.8</b>	10.0	03/05/2024	ND	213	106	200	2.29	
<b>DRO &gt;C10-C28*</b>	<b>5600</b>	10.0	03/05/2024	ND	217	109	200	3.02	
<b>EXT DRO &gt;C28-C36</b>	<b>1170</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 104 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 41 1.5' (H241048-41)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 42 1.5' (H241048-42)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1300</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
<b>DRO &gt;C10-C28*</b>	<b>106</b>	10.0	03/05/2024	ND	217	109	200	3.02	
<b>EXT DRO &gt;C28-C36</b>	<b>28.3</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 43 1.5' (H241048-43)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3440</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
<b>DRO &gt;C10-C28*</b>	<b>60.7</b>	10.0	03/05/2024	ND	217	109	200	3.02	
<b>EXT DRO &gt;C28-C36</b>	<b>11.3</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 44 1.5' (H241048-44)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 45 1.5' (H241048-45)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>448</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
<b>DRO &gt;C10-C28*</b>	<b>56.5</b>	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 46 1.5' (H241048-46)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
<b>DRO &gt;C10-C28*</b>	<b>11.4</b>	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 61.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 47 1.5' (H241048-47)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 48 1.5' (H241048-48)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2600</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
<b>DRO &gt;C10-C28*</b>	<b>23.7</b>	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 49 1.5' (H241048-49)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1840</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
<b>DRO &gt;C10-C28*</b>	<b>62.8</b>	10.0	03/05/2024	ND	217	109	200	3.02	
<b>EXT DRO &gt;C28-C36</b>	<b>12.4</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 50 1.5' (H241048-50)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 51 1.5' (H241048-51)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 52 1.5' (H241048-52)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6160</b>	16.0	03/06/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
<b>DRO &gt;C10-C28*</b>	<b>180</b>	10.0	03/05/2024	ND	217	109	200	3.02	
<b>EXT DRO &gt;C28-C36</b>	<b>44.4</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 53 1.5' (H241048-53)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	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	160	16.0	03/06/2024	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	03/05/2024	ND	213	106	200	2.29		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 54 1.5' (H241048-54)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	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	4800	16.0	03/06/2024	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	03/05/2024	ND	213	106	200	2.29		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 55 1.5' (H241048-55)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/06/2024	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	03/06/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 56 1.5' (H241048-56)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	80.0	16.0	03/06/2024	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	03/06/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 57 1.5' (H241048-57)**

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/06/2024	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	48.0	16.0	03/06/2024	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	03/06/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 58 1.5' (H241048-58)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	400	16.0	03/06/2024	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	03/06/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 59 1.5' (H241048-59)**

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 60 1.5' (H241048-60)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 61 1.5' (H241048-61)**

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 62 1.5' (H241048-62)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 63 1.5' (H241048-63)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: FS - 64 1.5' (H241048-64)**

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 6 .25' (H241048-65)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 7 .25' (H241048-66)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	1070	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 8 .25' (H241048-67)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 9 .25' (H241048-68)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 10 .25' (H241048-69)**

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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
<b>Chloride</b>	<b>112</b>	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
<b>DRO &gt;C10-C28*</b>	<b>319</b>	10.0	03/05/2024	ND	216	108	200	8.55	
<b>EXT DRO &gt;C28-C36</b>	<b>41.0</b>	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: SW - 6 0-1.5' (H241048-70)**

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: SW - 1 0-1.5' (H241048-71)**

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: SW - 2 0-1.5' (H241048-72)**

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: SW - 3 0-1.5' (H241048-73)**

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/06/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: SW - 4 0-1.5' (H241048-74)**

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/06/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: SW - 5 0-1.5' (H241048-75)**

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/06/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 1 .25' (H241048-76)**

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/06/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 2 .25' (H241048-77)**

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/06/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 3 .25' (H241048-78)**

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	03/06/2024	ND	2.04	102	2.00	4.74	
Toluene*	<0.050	0.050	03/06/2024	ND	2.09	104	2.00	4.92	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.15	108	2.00	5.28	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.38	106	6.00	5.49	
Total BTEX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/06/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 4 .25' (H241048-79)**

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	03/06/2024	ND	2.04	102	2.00	4.74		
Toluene*	<0.050	0.050	03/06/2024	ND	2.09	104	2.00	4.92		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.15	108	2.00	5.28		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.38	106	6.00	5.49		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/06/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	202	101	200	9.48		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	197	98.4	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

**Sample ID: DS - 5 .25' (H241048-80)**

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	03/06/2024	ND	2.04	102	2.00	4.74		
Toluene*	<0.050	0.050	03/06/2024	ND	2.09	104	2.00	4.92		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.15	108	2.00	5.28		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.38	106	6.00	5.49		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	202	101	200	9.48		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	197	98.4	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Kelly Lowery  
 Address: 601 N. Marientfield St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-733-3165 Email: klowery@ensolum.com  
 Project #: 03B1417138 Project Owner:  
 Project Name: Nimitz MDP 13 1 FED COM #311H State: Zip:  
 Project Location: Eddy Co. NM Phone #: Email:  
 Sampler Name: Shane Diller

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX 8021b	Chlorides 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1	1.5	C 1	1	X						3/1/2024	1241	X	X	X
2	1.5	C 1	1	X						3/1/2024	1242	X	X	X
3	1.5	C 1	1	X						3/1/2024	1243	X	X	X
4	1.5	C 1	1	X						3/1/2024	1244	X	X	X
5	1.5	C 1	1	X						3/1/2024	1245	X	X	X
6	1.5	C 1	1	X						3/1/2024	1244	X	X	X
7	1.5	C 1	1	X						3/1/2024	1244	X	X	X
8	1.5	C 1	1	X						3/1/2024	1248	X	X	X
9	1.5	C 1	1	X						3/1/2024	1248	X	X	X
10	1.5	C 1	1	X						3/1/2024	1247	X	X	X

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Relinquished By: [Signature]  
 Date: 3/1/24  
 Time: 1531  
 Received By: [Signature]  
 Date: 3/1/24  
 Time: 1531

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other:  Bus

Observed Temp. °C: 2.5  
 Corrected Temp. °C: [Blank]

Sample Condition:  
 Cool  Hot  
 Intact  Leaked

Checked By: [Signature] (Initials)

Turnaround Time:  Standard  Expedited (only) Sample Condition

Remarks: Paykey/AF/NonAFF: Disregard Date on Sample Tag

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

Project Manager: Kelly Lowery  
 Address: 601 N. Marlandfield St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-733-3165 Email: Klowery@ensolum.com  
 Project #: 03B1417138 Project Owner:  
 Project Name: Nimitz MDP 13 1 FED COM #311H State: Zip:  
 Project Location: Eddy Co. NM Phone #:  
 Sampler Name: Shane Diller Email:

**BILL TO**  
 P.O. #:  
 Company:  
 Attn:  
 Address:  
 City:  
 State: Zip:

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	TPH	BTEX 8021b	Chlorides 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:						
11	1.5	C	1	X							3/1/2024	1334	X	X	X
12	1.5	C	1	X							3/1/2024	1335	X	X	X
13	1.5	C	1	X							3/1/2024	1255	X	X	X
14	1.5	C	1	X							3/1/2024	1249	X	X	X
15	1.5	C	1	X							3/1/2024	1333	X	X	X
16	1.5	C	1	X							3/1/2024	1333	X	X	X
17	1.5	C	1	X							3/1/2024	1336	X	X	X
18	1.5	C	1	X							3/1/2024	1252	X	X	X
19	1.5	C	1	X							3/1/2024	1253	X	X	X
20	1.5	C	1	X							3/1/2024	1342	X	X	X

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Relinquished By: *[Signature]* Date: 3/1/24  
 Received By: *[Signature]* Date: 1/3/24  
 Relinquished By: *[Signature]* Date:   
 Received By: *[Signature]* Date:   
 Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C  
 Sampler - UPS - Bus - Other: *9.5i*  
 Sample Condition: Cool Intact  Yes  No  
 Checked By: *[Signature]* (Initials)  
 Remarks: *Discarded Date on Sample T-140*  
 Verbal Result:  Yes  No  
 All Results are emailed. Please provide Email address: *klowery@ensolum.com / Bjennings@ensolum.com*  
 Add'l Phone #:  
 Thermometer ID: *#113* Standard  Bacteria (only) Sample Condition  
 Correction Factor: *#140* Rush  Cool Intact  Observed Temp. °C  
 Yes  No  Yes  No Corrected Temp. °C

FORM-006 R 3.2 1/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC  
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Kelly Lowery  
Address: 601 N. Marland St. STE 400  
City: Midland State: TX Zip: 79701  
Phone #: 214-733-3165 Email: klowery@ensolum.com  
Project #: 03B1417138 Project Owner:  
Project Name: Nimitz MDP 13 1 FED COM #311H State: NM Zip:  
Project Location: Eddy Co. NM Phone #:  
Sampler Name: Shane Diller Email:

P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone #: \_\_\_\_\_

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX 8021b	Chlorides 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
21	1.5	C	1											
22	1.5	C	1											
23	1.5	C	1											
24	1.5	C	1											
25	1.5	C	1											
26	1.5	C	1											
27	1.5	C	1											
28	1.5	C	1											
29	1.5	C	1											
30	1.5	C	1											

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Relinquished By: *Shane Diller* Date: *3/21/24* Received By: *Speedionew* Date: *3/21/24*

Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_  
Observed Temp. °C: *2.52* Corrected Temp. °C: \_\_\_\_\_  
Sample Condition:  Cool  Intact  No  No  
CHECKED BY: *SK* (Initials)  
REMARKS: *Paykey/FENonAFE: Discovered Dev on sample T- 529*

Thermometer ID: *4445* Correction Factor: *-0.00* Standard  Bacteria (only) Sample Condition  Rush  Cool Intact  Observed Temp. °C: \_\_\_\_\_  
Turnaround Time: \_\_\_\_\_  
Verbal Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
All Results are emailed. Please provide Email address: *klowery@ensolum.com / shenings@ensolum.com*

FORM-906 R.3.2 1007/21

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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: Kelly Lowery  
Address: 601 N. Marland St. STE 400  
City: Midland State: TX Zip: 79701  
Phone #: 214-733-3165 Email: klowery@ensolum.com  
Project #: 03B1417138 Project Owner:  
Project Name: Nimitz MDP 13 1 FED COM #311H State: Zip:  
Project Location: Eddy Co. NM Phone #: Email:  
Sampler Name: Shane Diller

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX 8021b	Chlorides 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL					
31	1.5	C	1	X											
32	1.5	C	1	X											
33	1.5	C	1	X											
34	1.5	C	1	X											
35	1.5	C	1	X											
36	1.5	C	1	X											
37	1.5	C	1	X											
38	1.5	C	1	X											
39	1.5	C	1	X											
40	1.5	C	1	X											

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Relinquished By: [Signature]  
Date: 3/13/24  
Time: 1537  
Received By: [Signature]  
Date: [Blank]  
Time: [Blank]

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other: A-Si

Observed Temp. °C: [Blank]  
Corrected Temp. °C: [Blank]

Sample Condition:  
Cool Intact:  Yes  No  
Rush:  Yes  No

Checked By: [Signature] (Initials)

Turnaround Time:  Standard  Bacteria (only) Sample Condition  
Rush:  Cool Intact  Observed Temp. °C

Thermometer ID: #448  
Correction Factor: -0.3°C

Remarks: Disregard Date on Sample Toward

Verbal Result:  Yes  No  
All Results are emailed. Please provide Email address: klowery@ensolum.com / Glenings@ensolum.com  
Add'l Phone #: [Blank]

FORM-006 R 3.2 10/07/21

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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: Kelly Lowery

P.O. #:

Address: 601 N. Marientfeld St. STE 400

Company:

City: Midland State: TX Zip: 79701

Attn:

Phone #: 214-733-3165

Address:

Project #: 03B1417138

City:

Project Name: Nimitz MDP 13 1 FED COM #311H

State: Zip:

Project Location: Eddy Co. NM

Phone #:

Sampler Name: Shane Diller

Email:

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	TPH	BTEX 8021b	Chlorides 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
41	1.5	C	1	X									3/1/2024	947	5	X	X
42	1.5	C	1	X									3/1/2024	1009		X	X
43	1.5	C	1	X									3/1/2024	958		X	X
44	1.5	C	1	X									3/1/2024	955		X	X
45	1.5	C	1	X									3/1/2024	1000		X	X
46	1.5	C	1	X									3/1/2024	1003		X	X
47	1.5	C	1	X									3/1/2024	949		X	X
48	1.5	C	1	X									3/1/2024	1005		X	X
49	1.5	C	1	X									3/1/2024	950		X	X
50	1.5	C	1	X									3/1/2024	952		X	X

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Relinquished By: *[Signature]* Date: *3/1/24* Received By: *[Signature]* Date: *3/1/24*

Relinquished By: *[Signature]* Date: *3/1/24* Received By: *[Signature]* Date: *3/1/24*

Delivered By: (Circle One)  Bus - Other:  Observed Temp. °C: *25.1* Corrected Temp. °C: *25.1*

Sample Condition:  Intact  Cool  Yes  No  No

Checked By: *[Signature]* (Initials)

Remarks: *Damaged Data on Sample In 500*

Thermometer ID: *#115* Correction Factor: *-0.5°C* *#140*

Turnaround Time:  Standard  Rush  Bacteria (only) Sample Condition:  Yes  No  Yes  No Corrected Temp. °C

FORM-006 R 3.2 100721

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Kelly Lowery  
 Address: 601 N. Marland St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-733-3165 Email: klowery@ensolum.com  
 Project #: 03B1417138 Project Owner:  
 Project Name: Nimitz MDP 13 1 FED COM #311H State: Zip:  
 Project Location: Eddy Co. NM Phone #:  
 Sampler Name: Shane Diller Email:

P.O. #: Company:  
 Attn: Address:  
 City: State: Zip:

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX 8021b	Chlorides 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
51	1.5	C	1	X						3/1/2024	1257	X	X	
52	1.5	C	1	X						3/1/2024	1256	X	X	
53	1.5	C	1	X						3/1/2024	1253	X	X	
54	1.5	C	1	X						3/1/2024	1251	X	X	
55	1.5	C	1	X						3/1/2024	1246	X	X	
56	1.5	C	1	X						3/1/2024	1248	X	X	
57	1.5	C	1	X						3/1/2024	1243	X	X	
58	1.5	C	1	X						3/1/2024	953	X	X	
59	1.5	C	1	X						3/1/2024	1060	X	X	
60	1.5	C	1	X						3/1/2024	1062	X	X	

FOR LAB USE ONLY

Relinquished By: *[Signature]* Date: 3/24/24  
 Received By: *[Signature]* Date: 3/31/24

Delivered By: (Circle One)  UPS  Bus  Other: *2.5c*

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

Sample Condition:  Cool  Intact  Yes  No

CHECKED BY: *[Signature]* (Initials)

REMARKS: *Discard Date on Sample Tag*

Turnaround Time:  Rush  Standard  Barista (only) Sample Condition

Thermometer ID: *449* Correction Factor: *0.6°C*  Cool  Intact  Yes  No

Verbal Result:  Yes  No Add'l Phone #:

All Results are emailed. Please provide Email address: *klowery@ensolum.com / shenings@ensolum.com*

REMARKS: *Paykey/AFFNONAFE*

FORM-006 R 3.2 1007/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC  
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Kelly Lowery  
Address: 601 N. Marland St. STE 400  
City: Midland State: TX Zip: 79701  
Phone #: 214-733-3165 Email: klowery@ensolum.com  
Project #: 03B1417138 Project Owner:  
Project Name: Nimitz MDP 13 + FED COM #311H  
Project Location: Eddy Co. NM  
Sampler Name: Shane Diller

P.O. #: Company:  
Attn: Address:  
City: State: Zip:  
Phone #: Email:

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		TPH	BTX 8021b	Chlorides 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
C1	1.5-61	1.5	C	X								3-1-24	X	X	X
C2	1.5-62	1.5	C	X								3-1-24	X	X	X
C3	1.5-63	1.5	C	X								3-1-24	X	X	X
C4	1.5-64	1.5	C	X								3-1-24	X	X	X
C5	1.5-6	1.5	C	X								3-1-24	X	X	X
C6	1.5-7	1.5	C	X								3-1-24	X	X	X
C7	1.5-8	1.5	C	X								3-1-24	X	X	X
C8	1.5-9	1.5	C	X								3-1-24	X	X	X
C9	1.5-10	1.5	C	X								3-1-24	X	X	X
C10	1.5-11	1.5	C	X								3-1-24	X	X	X

FOR LAB USE ONLY  
Relinquished By: [Signature] Date: 5/18/24  
Received By: [Signature] Date: 5/13/24  
Observed Temp. °C: 8.5  
Sample Condition: Cool Intact  
Checked By: [Signature]  
Remarks: Paykey/AFF/NonAFE  
Verbal Result: [ ] Yes [ ] No  
Add'l Phone #:

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC  
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Kelly Lowery  
Address: 601 N. Marland St. STE 400  
City: Midland State: TX Zip: 79701  
Phone #: 214-733-3165 Email: Klowery@ensolum.com  
Project #: 03B1417138 Project Owner:  
Project Name: Nimitz MDP 13 1 FED COM #311H State: Zip:  
Project Location: Eddy Co. NM Phone #:  
Sampler Name: Shane Diller Email:

FOR LAB USE ONLY

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		DATE	TIME	TPH 801	BTEX 8021b	Chlorides 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL OTHER :					
71	SW-1	0-1.5	C	X							3/1/2024	1326	X	X	X
72	SW-2	0-1.5	C	X							3/1/2024	1328	X	X	X
73	SW-3	0-1.5	C	X							3/1/2024	1330	X	X	X
74	SW-4	0-1.5	C	X							3/1/2024	1336	X	X	X
76	SW-5	0-1.5	C	X							3/1/2024	1328	X	X	X
76	DS-1	0-25	C	X							3-1-24	1140	X	X	X
77	DS-2	0-25	C	X							3-1-24	1141	X	X	X
78	DS-3	0-25	C	X							3-1-24	1144	X	X	X
79	DS-4	0-25	C	X							3-1-24	1144	X	X	X
80	DS-5	0-25	C	X							3-1-24	1144	X	X	X

PLEASE NOTE: Liability and Chain of Custody is limited to the amount paid by the client for the analyses. Ensolum, LLC and its employees, including directly employed staff, shall be deemed to have accepted the amount paid by the client for the analyses. No event shall constitute a release of liability or constitute an admission of liability, business interruption, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: *3/1/24* Time: *1337*

Received By: *[Signature]* Date: *3/1/24* Time: *1337*

Delivered By: (Circle One)  UPS  Bus  Other *2-5c*

Observed Temp. °C: *2-5c* Corrected Temp. °C: *2-5c*

Sample Condition:  Cool Intact  No  No

Checked By: *[Signature]* (Initials)

Remarks: *Discard Data on Sample In 400*

Thermometer ID: *4319* Correction Factor: *-0.5°C* *#140*

Verbal Result:  Yes  No

Additional Phone #: *2*

FORM-006 R.3.2 1/07/21

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

April 16, 2024

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

RE: NIMITZ MDP1 13 1 FED COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 04/05/24 12:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 2 2	H241786-01	Soil	05-Apr-24 08:40	05-Apr-24 12:07
FS - 13 2	H241786-02	Soil	05-Apr-24 08:43	05-Apr-24 12:07
FS - 15 3	H241786-03	Soil	05-Apr-24 08:46	05-Apr-24 12:07
FS - 16 3	H241786-04	Soil	05-Apr-24 08:49	05-Apr-24 12:07
FS - 18 3	H241786-05	Soil	05-Apr-24 08:52	05-Apr-24 12:07
FS - 19 3	H241786-06	Soil	05-Apr-24 08:54	05-Apr-24 12:07
FS - 24 3	H241786-07	Soil	05-Apr-24 08:57	05-Apr-24 12:07
FS - 25 3	H241786-08	Soil	05-Apr-24 09:00	05-Apr-24 12:07
FS - 26 3	H241786-09	Soil	05-Apr-24 09:03	05-Apr-24 12:07
FS - 27 3	H241786-10	Soil	05-Apr-24 09:06	05-Apr-24 12:07
FS - 28 3	H241786-11	Soil	05-Apr-24 09:09	05-Apr-24 12:07
FS - 29 3	H241786-12	Soil	05-Apr-24 09:11	05-Apr-24 12:07
FS - 30 3	H241786-13	Soil	05-Apr-24 09:13	05-Apr-24 12:07
FS - 31 3	H241786-14	Soil	05-Apr-24 09:16	05-Apr-24 12:07
FS - 32 3	H241786-15	Soil	05-Apr-24 09:18	05-Apr-24 12:07
FS - 34 2	H241786-16	Soil	05-Apr-24 09:20	05-Apr-24 12:07
FS - 35 3	H241786-17	Soil	05-Apr-24 09:22	05-Apr-24 12:07
FS - 36 3	H241786-18	Soil	05-Apr-24 09:25	05-Apr-24 12:07
FS - 37 3	H241786-19	Soil	05-Apr-24 09:28	05-Apr-24 12:07
FS - 38 2	H241786-20	Soil	05-Apr-24 09:30	05-Apr-24 12:07
FS - 39 3	H241786-21	Soil	05-Apr-24 09:35	05-Apr-24 12:07
FS - 40 3	H241786-22	Soil	05-Apr-24 09:38	05-Apr-24 12:07
FS - 41 3	H241786-23	Soil	05-Apr-24 09:41	05-Apr-24 12:07
FS - 42 3	H241786-24	Soil	05-Apr-24 09:44	05-Apr-24 12:07
FS - 43 2	H241786-25	Soil	05-Apr-24 09:47	05-Apr-24 12:07
FS - 47 3	H241786-26	Soil	05-Apr-24 09:50	05-Apr-24 12:07
FS - 48 3	H241786-27	Soil	05-Apr-24 09:52	05-Apr-24 12:07

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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FS - 49 3	H241786-28	Soil	05-Apr-24 09:55	05-Apr-24 12:07
FS - 50 3	H241786-29	Soil	05-Apr-24 09:58	05-Apr-24 12:07
FS - 51 3	H241786-30	Soil	05-Apr-24 10:01	05-Apr-24 12:07
FS - 52 3	H241786-31	Soil	05-Apr-24 10:04	05-Apr-24 12:07
FS - 54 2	H241786-33	Soil	05-Apr-24 10:10	05-Apr-24 12:07
DS - 7 0.5	H241786-34	Soil	05-Apr-24 08:58	05-Apr-24 12:07
DS - 10 0.5	H241786-35	Soil	05-Apr-24 09:02	05-Apr-24 12:07

04/16/24 - Client added TPH to sample -14 and removed sample -32 (see COC). This is the revised report and will replace the one sent on 04/11/24.

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**FS - 2 2  
H241786-01 (Soil)**

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

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>40.6</b>		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
Surrogate: 1-Chlorooctane			82.3 %	48.2-134		4040521	MS	09-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			89.4 %	49.1-148		4040521	MS	09-Apr-24	8015B	

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**FS - 13 2**

**H241786-02 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>5920</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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\*=Accredited Analyte

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**FS - 15 3  
H241786-03 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
Surrogate: 1-Chlorooctane			87.4 %	48.2-134		4040521	MS	09-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			93.9 %	49.1-148		4040521	MS	09-Apr-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**FS - 16 3**

**H241786-04 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>272</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**FS - 18 3**

**H241786-05 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>832</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**FS - 19 3**

**H241786-06 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>3520</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
--	--	------------------------------

**FS - 24 3**

**H241786-07 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>3200</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**FS - 25 3**

**H241786-08 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>3600</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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**FS - 26 3**

**H241786-09 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>3320</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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**FS - 27 3**

**H241786-10 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>1580</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-Cl-B	
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**FS - 28 3**

**H241786-11 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>704</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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**FS - 29 3**  
**H241786-12 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>736</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>18.1</b>		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			79.0 %	48.2-134		4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			80.2 %	49.1-148		4040524	MS	08-Apr-24	8015B	

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**FS - 30 3**  
**H241786-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>272</b>		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>26.2</b>		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			72.6 %	48.2-134		4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			74.5 %	49.1-148		4040524	MS	08-Apr-24	8015B	

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**FS - 31 3**  
**H241786-14 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>288</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041226	MS	12-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>16.6</b>		10.0	mg/kg	1	4041226	MS	12-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041226	MS	12-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.6 %	48.2-134		4041226	MS	12-Apr-24	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			107 %	49.1-148		4041226	MS	12-Apr-24	8015B	

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**FS - 32 3  
H241786-15 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 34 2**  
**H241786-16 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>928</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>32.1</b>		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			67.1 %	48.2-134		4040524	MS	08-Apr-24	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			67.1 %	49.1-148		4040524	MS	08-Apr-24	8015B	

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**FS - 35 3**  
**H241786-17 (Soil)**

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

**Inorganic Compounds**

Chloride	3520		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 36 3  
H241786-18 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>4160</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>46.3</b>		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>14.9</b>		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			77.9 %	48.2-134		4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			82.3 %	49.1-148		4040524	MS	08-Apr-24	8015B	

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**FS - 37 3  
H241786-19 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>5760</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>68.7</b>		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>22.8</b>		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	

Surrogate: 1-Chlorooctane			83.8 %	48.2-134		4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			85.5 %	49.1-148		4040524	MS	08-Apr-24	8015B	

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**FS - 38 2**  
**H241786-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>736</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**FS - 39 3**

**H241786-21 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>1250</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 40 3**  
**H241786-22 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>992</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			79.5 %	48.2-134		4040818	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			81.5 %	49.1-148		4040818	MS	08-Apr-24	8015B	

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**FS - 41 3  
H241786-23 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>1600</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 42 3**  
**H241786-24 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>3440</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>21.1</b>		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.6 %	48.2-134		4040818	MS	08-Apr-24	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			90.0 %	49.1-148		4040818	MS	08-Apr-24	8015B	

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**FS - 43 2**

**H241786-25 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 47 3**  
**H241786-26 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>5280</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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**FS - 48 3**

**H241786-27 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 49 3**

**H241786-28 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 50 3**

**H241786-29 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>4000</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 51 3**

**H241786-30 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>1840</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**FS - 52 3**  
**H241786-31 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>1920</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>25.2</b>		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.1 %	48.2-134		4040819	MS	08-Apr-24	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.1 %	49.1-148		4040819	MS	08-Apr-24	8015B	

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**FS - 54 2**

**H241786-33 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>2960</b>		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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**DS - 7 0.5**  
**H241786-34 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	4040930	HM	09-Apr-24	4500-CI-B	
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**DS - 10 0.5  
H241786-35 (Soil)**

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

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			80.5 %	48.2-134		4040819	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			77.0 %	49.1-148		4040819	MS	08-Apr-24	8015B	

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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4040928 - 1:4 DI Water**

<b>Blank (4040928-BLK1)</b>		Prepared & Analyzed: 09-Apr-24								
Chloride	ND	16.0	mg/kg							
<b>LCS (4040928-BS1)</b>		Prepared & Analyzed: 09-Apr-24								
Chloride	464	16.0	mg/kg	400		116	80-120			
<b>LCS Dup (4040928-BSD1)</b>		Prepared & Analyzed: 09-Apr-24								
Chloride	448	16.0	mg/kg	400		112	80-120	3.51	20	

**Batch 4040929 - 1:4 DI Water**

<b>Blank (4040929-BLK1)</b>		Prepared & Analyzed: 09-Apr-24								
Chloride	ND	16.0	mg/kg							
<b>LCS (4040929-BS1)</b>		Prepared & Analyzed: 09-Apr-24								
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4040929-BSD1)</b>		Prepared & Analyzed: 09-Apr-24								
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

**Batch 4040930 - 1:4 DI Water**

<b>Blank (4040930-BLK1)</b>		Prepared & Analyzed: 09-Apr-24								
Chloride	ND	16.0	mg/kg							
<b>LCS (4040930-BS1)</b>		Prepared & Analyzed: 09-Apr-24								
Chloride	432	16.0	mg/kg	400		108	80-120			

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
--	--	------------------------------

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4040930 - 1:4 DI Water**

**LCS Dup (4040930-BSD1)**

Prepared & Analyzed: 09-Apr-24

Chloride	464	16.0	mg/kg	400		116	80-120	7.14	20	
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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4040521 - General Prep - Organics**

<b>Blank (4040521-BLK1)</b>		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	48.2-134			
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	49.1-148			

<b>LCS (4040521-BS1)</b>		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	234	10.0	mg/kg	200		117	66.4-123			
DRO >C10-C28	239	10.0	mg/kg	200		120	66.5-118			BS-3
Total TPH C6-C28	473	10.0	mg/kg	400		118	77.6-123			
Surrogate: 1-Chlorooctane	42.6		mg/kg	50.0		85.2	48.2-134			
Surrogate: 1-Chlorooctadecane	44.6		mg/kg	50.0		89.1	49.1-148			

<b>LCS Dup (4040521-BSD1)</b>		Prepared: 05-Apr-24 Analyzed: 08-Apr-24								
GRO C6-C10	243	10.0	mg/kg	200		121	66.4-123	3.47	17.7	
DRO >C10-C28	252	10.0	mg/kg	200		126	66.5-118	5.38	21	BS-3
Total TPH C6-C28	495	10.0	mg/kg	400		124	77.6-123	4.44	18.5	BS-3
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		93.9	48.2-134			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.1	49.1-148			

**Batch 4040524 - General Prep - Organics**

<b>Blank (4040524-BLK1)</b>		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	55.8		mg/kg	50.0		112	48.2-134			
Surrogate: 1-Chlorooctadecane	57.2		mg/kg	50.0		114	49.1-148			

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
--	--	------------------------------

**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4040524 - General Prep - Organics**

<b>LCS (4040524-BS1)</b>		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	191	10.0	mg/kg	200		95.7	66.4-123			
DRO >C10-C28	207	10.0	mg/kg	200		103	66.5-118			
Total TPH C6-C28	398	10.0	mg/kg	400		99.5	77.6-123			
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0		120	48.2-134			
Surrogate: 1-Chlorooctadecane	62.2		mg/kg	50.0		124	49.1-148			

<b>LCS Dup (4040524-BSD1)</b>		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	201	10.0	mg/kg	200		100	66.4-123	4.78	17.7	
DRO >C10-C28	205	10.0	mg/kg	200		103	66.5-118	0.657	21	
Total TPH C6-C28	406	10.0	mg/kg	400		102	77.6-123	2.00	18.5	
Surrogate: 1-Chlorooctane	61.3		mg/kg	50.0		123	48.2-134			
Surrogate: 1-Chlorooctadecane	64.0		mg/kg	50.0		128	49.1-148			

**Batch 4040818 - General Prep - Organics**

<b>Blank (4040818-BLK1)</b>		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.6		mg/kg	50.0		89.2	48.2-134			
Surrogate: 1-Chlorooctadecane	46.1		mg/kg	50.0		92.3	49.1-148			

<b>LCS (4040818-BS1)</b>		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	237	10.0	mg/kg	200		118	66.4-123			
DRO >C10-C28	247	10.0	mg/kg	200		124	66.5-118			BS-3
Total TPH C6-C28	484	10.0	mg/kg	400		121	77.6-123			
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.0	48.2-134			
Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0		94.0	49.1-148			

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4040818 - General Prep - Organics**

LCS Dup (4040818-BSD1)		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	234	10.0	mg/kg	200	117	66.4-123	0.929	17.7		
DRO >C10-C28	247	10.0	mg/kg	200	124	66.5-118	0.0413	21		BS-3
Total TPH C6-C28	482	10.0	mg/kg	400	120	77.6-123	0.432	18.5		
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0	92.0	48.2-134				
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0	95.7	49.1-148				

**Batch 4040819 - General Prep - Organics**

Blank (4040819-BLK1)		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0	93.4	48.2-134				
Surrogate: 1-Chlorooctadecane	42.8		mg/kg	50.0	85.6	49.1-148				

LCS (4040819-BS1)		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	259	10.0	mg/kg	200	129	66.4-123				BS-3
DRO >C10-C28	255	10.0	mg/kg	200	127	66.5-118				BS-3
Total TPH C6-C28	513	10.0	mg/kg	400	128	77.6-123				BS-3
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0	94.1	48.2-134				
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0	89.0	49.1-148				

LCS Dup (4040819-BSD1)		Prepared & Analyzed: 08-Apr-24								
GRO C6-C10	240	10.0	mg/kg	200	120	66.4-123	7.50	17.7		
DRO >C10-C28	247	10.0	mg/kg	200	124	66.5-118	2.96	21		BS-3
Total TPH C6-C28	487	10.0	mg/kg	400	122	77.6-123	5.23	18.5		
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0	93.2	48.2-134				
Surrogate: 1-Chlorooctadecane	43.4		mg/kg	50.0	86.8	49.1-148				

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**Analytical Results For:**

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041226 - General Prep - Organics**

<b>Blank (4041226-BLK1)</b>			Prepared & Analyzed: 12-Apr-24							
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.1	48.2-134			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	49.1-148			

<b>LCS (4041226-BS1)</b>			Prepared & Analyzed: 12-Apr-24							
GRO C6-C10	188	10.0	mg/kg	200		93.9	66.4-123			
DRO >C10-C28	202	10.0	mg/kg	200		101	66.5-118			
Total TPH C6-C28	390	10.0	mg/kg	400		97.6	77.6-123			
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.6	48.2-134			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	49.1-148			

<b>LCS Dup (4041226-BSD1)</b>			Prepared & Analyzed: 12-Apr-24							
GRO C6-C10	190	10.0	mg/kg	200		94.9	66.4-123	1.01	17.7	
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118	1.85	21	
Total TPH C6-C28	389	10.0	mg/kg	400		97.1	77.6-123	0.462	18.5	
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	48.2-134			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	49.1-148			

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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- 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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Kelly Lowery  
 Address: 601 N. Marientfield St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-733-3165 Email: klowery@ensolum.com  
 Project #: 03B1417138 Project Owner:  
 Project Name: NIMITZ MDP1 13 1 Federal Com. #311H City: State: Zip:  
 Project Location: 32.222561, 103.992187  
 Sampler Name: Kaoru Shimada, Shane Diller  
 P.O. #: Company: OXY USA  
 Atn: Wade Ditch Address:  
 City: State: Zip:

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1	FS-2		1			X				4/5/24	8:42	BTEX 8015M	TPH 8021B	Chloride 4500
2	FS-13		1			X				4/5/24	8:43			
3	FS-13		1			X				4/5/24	8:46			
4	FS-16		1			X				4/5/24	8:52			
5	FS-18		1			X				4/5/24	8:54			
6	FS-19		1			X				4/5/24	8:54			
7	FS-24		1			X				4/5/24	8:57			
8	FS-25		1			X				4/5/24	9:00			
9	FS-26		1			X				4/5/24	9:03			
10	FS-24		1			X				4/5/24	9:06			

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Relinquished By: [Signature] Date: 4.5.24 Received By: [Signature] Date: 4.5.24  
 Relinquished By: [Signature] Date: 12.07 Received By: [Signature] Date: 4.5.24  
 Delivered By: (Circle One) UPS - Bus - Other: #140  
 Observed Temp. °C: 4.10C Corrected Temp. °C: [Blank]  
 Sample Condition: Cool Intact  Yes  No  
 Checked By: [Signature] (Initials)  
 Turnaround Time:  Rush  Standard  
 Thermometer ID: 4444 Correction Factor: 0.00C  
 Verbal Result:  Yes  No  
 All Results are emailed. Please provide Email address: klowery@ensolum.com  
 Add'l Phone #: [Blank]  
 REMARKS: Paykey/A/E/NOM/A/E:  
 Bacteria (only) Sample Condition:  Yes  No  
 Corrected Temp. °C:  Yes  No

FORN-006 R 3.2 10/07/21  
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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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Company Name: Ensolum, LLC Project Manager: Kelly Lowery Address: 601 N. Marland St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 214-733-3165 Email: klowery@ensolum.com Project #: 0381417138 Project Owner: Project Name: NIMITZ MDP1 13 1 Federal Com. #311H City: Project Location: 32.222661, 103.992187 State: Zip: Sampler Name: Kaoru Shimada, Shane Diller P.O. #: Company: OXY USA Attn: Wade Ditrich Address: City: State: Zip:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>															
FOR LAB USE ONLY Sample I.D. <b>H241786</b> Sample Depth (feet)		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: CEILING COOL OTHER :		MATRIX PRESERV. SAMPLING DATE TIME															
11	FS 28	3	1	X	4/5/24	9:09	BTEX 8015M												
12	FS 29	3	1	X	4/5/24	9:11	<del>TPH 8021B</del>												
13	FS 30	3	1	X	4/5/24	9:13													
14	FS 31	3	1	X	4/5/24	9:16													
15	FS 32	3	1	X	4/5/24	9:18													
16	FS 34	2	1	X	4/5/24	9:20													
17	FS 35	2	1	X	4/5/24	9:22													
18	FS 36	3	1	X	4/5/24	9:25													
19	FS 37	2	1	X	4/5/24	9:29													
20	FS 39	2	1	X	4/5/24	9:30													

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REMARKS: Paykey/A/E/NomAFE:

Verbal Result:  Yes  No Add'l Phone #:

All Results are emailed: Please provide Email address: klowery@ensolum.com

Turnaround Time:  Standard  Bacteria (only) Sample Condition

Result:  Cool  Intact  Observed Temp. °C

Thermometer ID #111- Correcting Factor -0.5°C

Reinquinshed By: *[Signature]* Date: 4/5/24 Received By: *[Signature]* Date: 4/5/24

Time: 12:07 PM

Delivered By: (Circle One) Sampler - UPS - Bus - Other: *[Handwritten]* Observed Temp. °C: 4.9°C Corrected Temp. °C: 4.4°C

Sample Condition: Cool  Intact  Yes  No  Yes  No

Checked By: (Initials) *[Handwritten]*

FORN-006 R 3.2 10/07/21

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

101 East Marland, Hobbs, NM 88240  
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**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Kelly Lowery  
 Address: 601 N. Marlandfield St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-733-3165 Email: klowery@ensolum.com  
 Project #: 03B1417138 Project Owner:  
 Project Name: NIMITZ MDP1 13 1 Federal Cor. #311H City: State: Zip:  
 Project Location: 32.222561, 103.992187 Phone #: Email:  
 Sampler Name: Kaoru Shimada, Shane Diller

P.O. #: Company: OXY USA  
 Attn: Wade Ditrach Address:  
 City: State: Zip:

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8015M	TPH 8021B	Chloride 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
31	F3 C2	C	1	X						4/5/24	1004	X	X	
32	F5 53	C	1	X						4/5/24	1004	X	X	
33	F5 54	C	1	X						4/5/24	1015	X	X	
34	F5 7	C	1	X						4/5/24	838	X	X	
35	F5 1b	C	1	X						4/5/24	902	X	X	

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Relinquished By: [Signature] Date: 4/5/24 Time: 12:07 PM Received By: [Signature] Date: 4/5/24 Time: 12:07 PM

Delivered By: (Circle One) UPS - Bus - Other: [ ] Sample Condition: Cool Intact  Yes  No

Checked By: [Signature] (Initials)

Turnaround Time:  Rush  Standard  Bacteria (only) Sample Condition

Thermometer ID: 444 Correction Factor: -0.3°C

Verbal Result:  Yes  No Add'l Phone #: [ ]

REMARKS: Paykey/AE/NO/AFE: [ ]

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



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

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May 16, 2024

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

RE: NIMITZ MDP1 13 1 FED COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 05/10/24 10:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: FS - 13 4 (H242558-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 19 4 (H242558-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 18 4 (H242558-03)**

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	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 24 4 (H242558-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/14/2024	ND	416	104	400	7.41	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: FS - 25 4 (H242558-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 26 4 (H242558-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 27 4 (H242558-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 28 4 (H242558-08)**

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	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 29 4 (H242558-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	416	104	400	7.41	

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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:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: FS - 34 4 (H242558-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 35 4 (H242558-11)**

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	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 36 5 (H242558-12)**

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	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 37 5 (H242558-13)**

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	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 38 5 (H242558-14)**

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	05/14/2024	ND	416	104	400	7.41	

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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:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: FS - 39 5 (H242558-15)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/14/2024	ND	416	104	400	7.41	

**Sample ID: FS - 40 6 (H242558-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/13/2024	ND	432	108	400	0.00	

**Sample ID: FS - 41 6 (H242558-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/13/2024	ND	432	108	400	0.00	

**Sample ID: FS - 42 4 (H242558-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/13/2024	ND	432	108	400	0.00	

**Sample ID: FS - 47 4 (H242558-19)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/13/2024	ND	432	108	400	0.00	

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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:	05/10/2024	Sampling Date:	05/09/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: FS - 50 6 (H242558-20)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/13/2024	ND	432	108	400	0.00	

**Sample ID: FS - 51 6 (H242558-21)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/13/2024	ND	432	108	400	0.00	

**Sample ID: FS - 52 6 (H242558-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/13/2024	ND	432	108	400	0.00	

**Sample ID: FS - 54 4 (H242558-23)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/13/2024	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

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

**BILL TO**

**ANALYSIS REQUEST**

<b>Company Name:</b> Ensolum, LLC	<b>P.O. #:</b>
<b>Project Manager:</b> Beaux Jennings	<b>Company:</b> Oxy USA, Inc.
<b>Address:</b> 601 N. Marland St. STE 400	<b>Attn:</b> Wade Dittrich
<b>City:</b> Midland	<b>State:</b> TX <b>Zip:</b> 79701
<b>Phone #:</b> 210-219-8858	<b>Fax #:</b>
<b>Project #:</b> 03B1417138	<b>Project Owner:</b>
<b>Project Name:</b> Nimitz HDP 1131 Federal Com #3114	<b>State:</b> <b>Zip:</b>
<b>Project Location:</b> Eddy County	<b>Phone #:</b> 575-390-2828
<b>Sampler Name:</b> Tabitha Guadian	<b>Fax #:</b>

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
1	FS-13	4	(G)	1	X						5/19/24	1408	X	Chloride 4500
2	FS-19	4	(C)	1	X						5/19/24	1410	X	
3	FS-18	4	(C)	1	X						5/19/24	1412	X	
4	FS-24	4	(C)	1	X						5/19/24	1414	X	
5	FS-25	4	(C)	1	X						5/19/24	1416	X	
6	FS-26	4	(C)	1	X						5/19/24	1418	X	
7	FS-27	4	(C)	1	X						5/19/24	1420	X	
8	FS-28	4	(C)	1	X						5/19/24	1422	X	
9	FS-29	4	(C)	1	X						5/19/24	1424	X	
10	FS-34	4	(C)	1	X						5/19/24	1426	X	

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<b>Relinquished By:</b> [Signature]	<b>Date:</b> 5/19/24	<b>Received By:</b> [Signature]	<b>Date:</b> 5/19/24
<b>Relinquished By:</b> [Signature]	<b>Date:</b> 5/19/24	<b>Received By:</b> [Signature]	<b>Date:</b> 5/19/24
<b>Delivered By: (Circle One)</b>	<b>Observed Temp. °C</b>	<b>Sample Condition</b>	<b>CHECKED BY: (Initials)</b>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	[Signature]
<b>Turnaround Time:</b>		<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>	<b>Bacteria (only)</b> <input type="checkbox"/> <b>Sample Condition</b>
<b>Thermometer ID #443</b>		<b>Correction Factor -0.5</b>	<b>Cool Intact</b> <input type="checkbox"/> <b>Observed Temp. °C</b>
<b>REMARKS:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>	
		<b>All Results are emailed. Please provide Email address:</b>	
		Blennings@ensolum.com / Kloues@ensolum.com	



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

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

**BILL TO**

**ANALYSIS REQUEST**

<b>Company Name:</b> Ensolum, LLC	<b>P.O. #:</b>
<b>Project Manager:</b> Beaux Jennings	<b>Company:</b> Oxy USA, Inc.
<b>Address:</b> 601 N. Marlenfeld St. STE 400	<b>Attn:</b> Wade Dittrich
<b>City:</b> Midland	<b>State:</b> TX <b>Zip:</b> 79701
<b>Phone #:</b> 210-219-8858	<b>Fax #:</b>
<b>Project #:</b> 0331417138	<b>Project Owner:</b>
<b>Project Name:</b> Nimitz HDR131 Federal com #31114	<b>City:</b>
<b>Project Location:</b> Eddy County	<b>State:</b> <b>Zip:</b>
<b>Sampler Name:</b> Tabitha Guadian	<b>Phone #:</b> 575-390-2828
<b>FOR LAB USE ONLY</b>	<b>Fax #:</b>

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	DATE	TIME
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			
H018558	FS-35	4	C 1	X						5/19/24	1428	X
	FS-36	5	C 1	X						1430	X	X
	FS-37	5	C 1	X						1432	X	X
	FS-38	5	C 1	X						1434	X	X
	FS-39	5	C 1	X						1436	X	X
	FS-40	6	C 1	X						1438	X	X
	FS-41	6	C 1	X						1440	X	X
	FS-42	4	C 1	X						1442	X	X
	FS-47	4	C 1	X						1444	X	X
	FS-50	6	C 1	X						5/19/24	1446	X

Chloride 4500

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<b>Relinquished By:</b> [Signature]	<b>Date:</b> 5/19/24	<b>Received By:</b> [Signature]	<b>Date:</b> 5/19/24
<b>Relinquished By:</b> [Signature]	<b>Date:</b> 5/19/24	<b>Received By:</b> [Signature]	<b>Date:</b> 5/19/24

<b>Delivered By: (Circle One)</b>	<b>Observed Temp.: °C</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b>
<input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other:	1.6	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	[Signature]
	<b>Corrected Temp. °C</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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



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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Beaux Jennings  
 Address: 601 N. Marland St. STE 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 210-219-8858 Fax #: 210-219-8858  
 Project #: 03B1417138 Project Owner:  
 Project Name: Nimitz WSP1131 Federal Com #31114  
 Project Location: Eddy County  
 Sampler Name: Tevika 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 :	ACID/BASE:			ICE / COOL
44558	FS-51	6	C1	1	X							5/19/24	1448	X
	FS-52	6	C1	1	X							5/19/24	1450	X
	FS-54	4	C1	1	X							5/19/24	1452	X

Chloride 4500

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Relinquished By: [Signature]  
 Date: 5/10/24  
 Received By: [Signature]  
 Date: 10/26/24

Delivered By: (Circle One) Observed Temp. °C: 16  
 Cooler Intact: Yes  
 Sample Condition: Intact  
 Checked By: [Signature]

Turnaround Time: Standard  Rush   
 Thermometer ID #449  
 Correction Factor: 0.00  
 Bacteria (only) Sample Condition: Cool Intact: Yes  
 Observed Temp. °C: 16  
 Corrected Temp. °C: 16

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



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

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May 16, 2024

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

RE: NIMITZ MDP1 13 1 FED COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 05/10/24 10:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: SW - 7 0-4' (H242557-01)**

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/13/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/13/2024	ND	183	91.3	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: SW - 8 0-4' (H242557-02)**

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/13/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/13/2024	ND	183	91.3	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: SW - 9 0-4' (H242557-03)**

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	05/14/2024	ND	1.90	95.1	2.00	7.48		
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76		
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31		
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93		
Total BTEX	<0.300	0.300	05/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	160	16.0	05/14/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	179	89.6	200	2.08		
DRO >C10-C28*	<10.0	10.0	05/13/2024	ND	183	91.3	200	1.81		
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND						

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 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:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: SW - 10 0-4' (H242557-04)**

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/14/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/13/2024	ND	183	91.3	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 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:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: SW - 11 0-4' (H242557-05)**

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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>304</b>	16.0	05/14/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	179	89.6	200	2.08	
<b>DRO &gt;C10-C28*</b>	<b>22.1</b>	10.0	05/13/2024	ND	183	91.3	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: SW - 12 0-4' (H242557-06)**

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/14/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/13/2024	ND	183	91.3	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/16/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP1 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.222561, -103.992187		

**Sample ID: SW - 13 0-4' (H242557-07)**

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/14/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/13/2024	ND	183	91.3	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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\*=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

Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: Ensolium, LLC  
 Project Manager: Beaux Jennings  
 Address: 601 N Marientfeld Street, Suite 400  
 City: Midland State: TX Zip: 79701  
 Phone #: 210-219-8858 Fax #: Project Owner:  
 Project #: 03B1417138 Project Location: Eddy County  
 Project Name: Nimitz HDP131 Federal com # 3114  
 Sampler Name: Taktha Guadian  
 FOR LAB USE ONLY

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

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H243557	1	0-4'	C	1								0740	0740	BTEX 8021B
	2	0-4'	C	1								0742	0742	TPH 8015M
	3	0-4'	C	1								0744	0744	Chloride 4500
	4	0-4'	C	1								0746	0746	
	5	0-4'	C	1								0748	0748	
	6	0-4'	C	1								0750	0750	
		0-4'	C	1								0752	0752	

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Relinquished By: [Signature]  
 Received By: [Signature]  
 Date: 10/24/24  
 Time: 10:00 AM  
 Received By: [Signature]  
 Date: 10/24/24  
 Time: 10:00 AM

Delivered By: (Circle One) Observed Temp. °C: 16 Corrected Temp. °C: [Blank]  
 Sampler - UPS - Bus - Other: Sample Condition: Cool Intact  Yes  No  
 Checked By: [Signature] (Initials) A.B.

Turnaround Time: Standard  Rush   
 Thermometer ID #444 #1140  
 Correction Factor: 0.000  
 Bacteria (only) Sample Condition: Cool Intact  Yes  No  
 Corrected Temp. °C: [Blank]

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

QUESTIONS

Action 356405

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2400330251
Incident Name	NAPP2400330251 NIMITZ MDP1 13 1 FEDERAL COM. #311H @ 0
Incident Type	Blow Out
Incident Status	Reclamation Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	NIMITZ MDP1 13 1 Federal Com. #311H
Date Release Discovered	12/31/2023
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: 50 BBL   Recovered: 20 BBL   Lost: 30 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 10 BBL   Recovered: 5 BBL   Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 356405

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	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>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/20/2024
--	---

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QUESTIONS, Page 3

Action 356405

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	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 51 and 75 (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 ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (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	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	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)	8660
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6832
GRO+DRO (EPA SW-846 Method 8015M)	2282
BTEX (EPA SW-846 Method 8021B or 8260B)	1
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	12/31/2023
On what date will (or did) the final sampling or liner inspection occur	05/10/2024
On what date will (or was) the remediation complete(d)	05/10/2024
What is the estimated surface area (in square feet) that will be reclaimed	25752
What is the estimated volume (in cubic yards) that will be reclaimed	2643
What is the estimated surface area (in square feet) that will be remediated	25752
What is the estimated volume (in cubic yards) that will be remediated	2643

*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 356405

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	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: 06/20/2024
--	---

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

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QUESTIONS, Page 5

Action 356405

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 356405

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	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>341094</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>05/09/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>48</b>
What was the sampling surface area in square feet	<b>14400</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>25752</b>
What was the total volume (cubic yards) remediated	<b>2643</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>25752</b>
What was the total volume (in cubic yards) reclaimed	<b>2643</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: 06/20/2024
--	---

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QUESTIONS, Page 7

Action 356405

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	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	25752
What was the total volume of replacement material (in cubic yards) for this site	2643

*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)	06/04/2024

Summarize any additional reclamation activities not included by answers (above)	NA
---	----

*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: 06/20/2024
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 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 8

Action 356405

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	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>	

**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

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**State of New Mexico**  
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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 356405

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	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 #NAPP2400330251 NIMITZ MDP1 13 1 FEDERAL COM. #311H, thank you. This Remediation Closure Report is approved.	6/27/2024