



## REMEDIATION CLOSURE REPORT

Property:

**Red Tank 28 Federal #003**

**Unit B, S28, T22S, R32E  
32.368695° N, 103.677842° W  
Lea County, New Mexico  
API: 30-025-31754  
Incident ID: nAPP2421435828**

July 28, 2025

Ensolum Project No. 03B1417217


Prepared for:

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

**Attn: Jessica Kent**

Prepared by:

  
\_\_\_\_\_  
Kelly Lowery, GSI  
Project Geologist

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

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**REMEDIATION CLOSURE REPORT****Red Tank 28 Federal #003**

**Unit B, S28, T22S, R32E**  
**32.368695° N, 103.677842° W**  
**Lea County, New Mexico**  
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**Incident ID: nAPP2421435828**

**Ensolum Project No. 03B1417217****1.0 INTRODUCTION****1.1 Site Description and Background**

<b>Operator:</b>	Oxy USA, INC.
<b>Site Name:</b>	Red Tank 28 Federal #003
<b>Location:</b>	Unit B, Section 28, Township 22 South, Range 32 East American Petroleum Institute (API): 30-025-31754 32.368695° N, 103.677842° W Lea County, New Mexico
<b>Property:</b>	Federal Land Managed by the Bureau of Land Management (BLM)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 31, 2024, Oxy had a release of produced water at the Red Tank 28 Federal #003 pad, hereinafter referred to as the "Site". Approximately 400 barrels (bbls) of produced water was released onto the ground surface almost wholly on-pad and partially in the pasture with 350 bbls of produced water recovered. Oxy reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on August, 1 2024. The release was subsequently assigned Incident Number nAPP2421435828.

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**.

- The nearest water well (C-04598-POD1) was identified 1.47 miles southwest of the Site on the OSE Water Rights Reporting System (WRRS) database. However, there is a soil boring (SB-01) drilled by Trinity Oilfield Services (Trinity) on April 5, 2022 to a total depth of 105 feet below ground surface (bgs) approximately 0.57-miles southeast of the Site. The soil boring was left open for a period of 72 hours to determine the presence or absence of groundwater. After 72 hours, the soil boring was measured, with no groundwater encountered and was subsequently backfilled. On behalf of Oxy, Ensolum requested a groundwater variance to utilize this soil boring and was awarded the variance on January 24, 2025.
- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database, there are no private, domestic freshwater wells used by less than five households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database, no freshwater wells have been identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (NMSA) 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's Geographical Information System (GIS), Maps, and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (kmz) provided by the BLM, the Site is located within a stable area, also referred to as low 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 IMPACTED BY A RELEASE (REMEDATION ZONE)			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
> 100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### 3.0 SOIL REMEDIATION ACTIVITIES

On July 31, 2024, Oxy had a release of produced water at the Site. Approximately 400 bbls of produced water were released onto the ground surface almost wholly on-pad partially in the pasture with 350 bbls of produced water recovered.

On November 12, 2024, subsequent to initial excavation activities, Ensolum arrived on-Site to collect 18 excavation floor samples (FS-1 through FS-18) at depths ranging from 1-foot to 2-feet bgs. Based on how active the Site is with production traffic, the release extent would be excavated and sampled in sections to reduce impact to Operations activities.

On December 20, 2024, Ensolum returned to the Site after continued excavation activities to collect two excavation floor samples (FS-19 and FS-20) at a depth of 4 feet bgs and five excavation sidewall samples (SW-01 through SW-05) at depths ranging from 0-1 feet to 0-4 feet bgs.

Between April 29, 2025 and May 8, 2025, Ensolum was on-Site during continued excavation activities and collected 37 excavation floor samples (FS21 through FS57) from depths ranging from 1-foot to 2 feet bgs and six excavation sidewall samples from five locations (SW06 through SW10) at depths ranging from 0-1 feet to 0-4 feet bgs. Due to the location of excavation sidewall sample SW08 being against the secondary containment for the tanks staged on-Site and although the sample meets remediation closure requirements set in 19.15.29.12 NMAC (Remediation Requirements), it does not meet reclamation closure requirements set in 19.15.29.13 NMAC (Reclamation Requirements), therefore a delineation soil sample was collected on the south side of the secondary containment.

On June 11, 2025, Ensolum arrived on-Site to collect the delineation soil sample (DS01) utilizing a hand auger. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), chloride utilizing Hach® chloride Quantab® test strips, and total petroleum hydrocarbons (TPH) utilizing a calibrated PetroFLAG® Soil Reagents test kit from surface to a terminal depth of 4 feet bgs. During hand auger activities, two confirmation soil samples from the one delineation soil sample location (DS01) were collected at depths of 0.5 feet bgs and 4 feet bgs. These two samples from the delineation soil sample location were submitted for laboratory analysis based on the highest field screening observed and

the deepest depth investigated per 19.15.29.11(A)(5)(d) NMAC. These samples were collected to determine a reclamation extent for the areas immediately underneath/beside production equipment per the Reclamation Requirements.

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), TPH, gasoline range organics (GRO), diesel range organics (DRO), motor oil/lube oil range organics, (ORO), and chlorides 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 188 feet long and 93 feet wide at its maximum extents.

The excavation measured approximately 11,326 square feet in arial extent. A total of approximately 644 cubic yards (cy) of soil were excavated from the Site and hauled off for proper disposal at the Lea Land Facility located in Hobbs, New Mexico. After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Cedar Canyon Pit and re-contoured to match pre-existing conditions.

The reclamation area for the tanks and the excavation sidewall soil sample location that could not be excavated further due to structural integrity issues of the surrounding soils (SW08) measured approximately 1,734 square feet in arial extent. A total of approximately 257 cy of soil will be removed during reclamation activities once the pad has been decommissioned in the future per the Reclamation Requirements.

**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 November 12, 2024 through June 11, 2025, included the collection of a total of 57 composite soil samples from the excavation floor (FS-1 through FS57), 11 composite soil samples from 10 locations from the excavation sidewalls (SW-01 through SW10), and two confirmation soil samples from one delineation soil sample location (DS01). Additionally, one composite soil sample was collected from the backfill material used at the Site (Cedar Canyon Pit) on November 28, 2024 prior to use at the Site.

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

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

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

Laboratory analytical results are summarized in **Table 1** and **Table 2** 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/ORO, and chloride concentrations to laboratory sample detection limits (SDLs) associated with the soils remaining in place, the delineation soil sample, and the backfill material sample collected at the Site to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicated benzene concentrations for the soils remaining in place at the Site, the delineation soil sample and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the soils remaining in place at the Site, the delineation soil sample and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated that the combined TPH-GRO/DRO concentrations for soils remaining in place at the Site for the excavation floor did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated that the combined TPH-GRO/DRO/ORO concentrations for the soils remaining in place at the Site for the excavation floor did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated chloride concentrations for soils remaining in place at the Site for the excavation floor did not exceed the laboratory SDLs and/or applicable NMOCD Closure Criteria of 20,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated combined TPH-GRO/DRO/ORO concentrations for the soils remaining in place at the Site for the final excavation sidewalls, the delineation soil sample and the backfill material did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site for the final excavation sidewalls, the delineation soil sample and the backfill material, with the exception of excavation sidewall soil samples SW08, did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤50 feet.
  - Due to the proximity of the secondary containment for the tanks staged on-Site, excavation sidewall sample location SW08 could not be expanded further. Although it meets Remediation Requirements for the Site it does not meet Reclamation Requirements, therefore a delineation soil sample (DS01) was collected on the south side of the secondary containment.

Laboratory analytical results are summarized in **Table 1** and **Table 2** in **Appendix D**.

## 7.0 RECLAMATION AND RE-VEGETATION

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

backfill material used at the Site. The excavated area was backfilled with clean fill material and then contoured to the original surrounding grade. The majority of the release area was on an active facility pad in an area reasonably needed for production operations or for subsequent drilling operations, so no reclamation or re-vegetation was required at this time per the Reclamation Requirements for these areas.

- The reclamation area for the tanks where excavation sidewall soil sample SW08 is located measured approximately 1,734 square feet in arial extent. A total of approximately 257 cy of soil in this area of the Reclamation Extent will be removed during reclamation activities once the pad has been decommissioned in the future per the Reclamation Requirements.

A portion of the release occurred in pasture, 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 Reclamation Requirements for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the pasture area: The soil in the vicinity of the release includes fine sand from 0 to 30 inches bgs and fine sandy loam from 30 to 60 inches bgs (Pyote and Maljamar fine sands, dmqq).

- The excavation was backfilled with material from the Cedar Canyon Pit and recontoured to match the surrounding grade;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the BLM to meet reclamation standards for this region, which will be Seed Mixture 2, for Sandy Sites;
- The seed mixture will be 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 will be 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 is more applicable;
- Erosion control management will potentially include:
  - The placement of waddles in areas with a propensity for high run-off rates;
  - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
  - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas.
- Backfilling of the excavation has been completed;
- Seeding is anticipated to be completed in the summer when temperatures and precipitation 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. BLM has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site; and

- 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, and any needed BMPs will be installed to support growth and limit erosion.

## 8.0 FINDINGS AND RECOMMENDATION

- On July 31, 2024, Oxy had a release of produced water at the Site. Approximately 400 bbls of produced water were released onto the ground surface almost wholly on-pad partially in the pasture with 350 bbls of produced water recovered.
- Ensolum's soil sampling program from November 12, 2024 through June 11, 2025, included the collection of a total of 57 composite soil samples from the excavation floor (FS-1 through FS57), 11 composite soil samples from 10 locations from the excavation sidewalls (SW-01 through SW10), and two confirmation soil samples from one delineation soil sample location (DS01). Additionally, one composite soil sample was collected from the backfill material used at the Site (Cedar Canyon Pit) on November 28, 2024 prior to use at the Site.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMOC 19.15.29 Releases as guidance.
- The final excavation area measured approximately 188 feet long and 93 feet wide at its maximum extents.
- The excavation measured approximately 11,326 square feet in arial extent. A total of approximately 644 cy of soil were excavated from the Site and hauled off for proper disposal at the Lea Land Facility located in Hobbs, New Mexico. After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Cedar Canyon Pit and re-contoured to match pre-existing conditions.
- The reclamation area for the tanks and the excavation sidewall soil sample location that could not be excavated further due to structural integrity issues of the surrounding soils (SW08) measured approximately 1,734 square feet in arial extent. A total of approximately 257 cy of soil will be removed during reclamation activities once the pad has been decommissioned in the future per the Reclamation Requirements.
- Based on laboratory analytical results, the final composite soil samples from the soils remaining in place at the Site, the delineation soil sample and the backfill material did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- After completion of confirmation sampling, the backfill of the excavation was completed utilizing material purchased locally from the Cedar Canyon Pit and recontoured to match pre-existing conditions.

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

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

### **9.1 Standard of Care**

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

### **9.2 Limitations**

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

### **9.3 Reliance**

This report has been prepared for the exclusive use of Oxy USA Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Oxy USA Inc. and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



## APPENDIX A

### Figures

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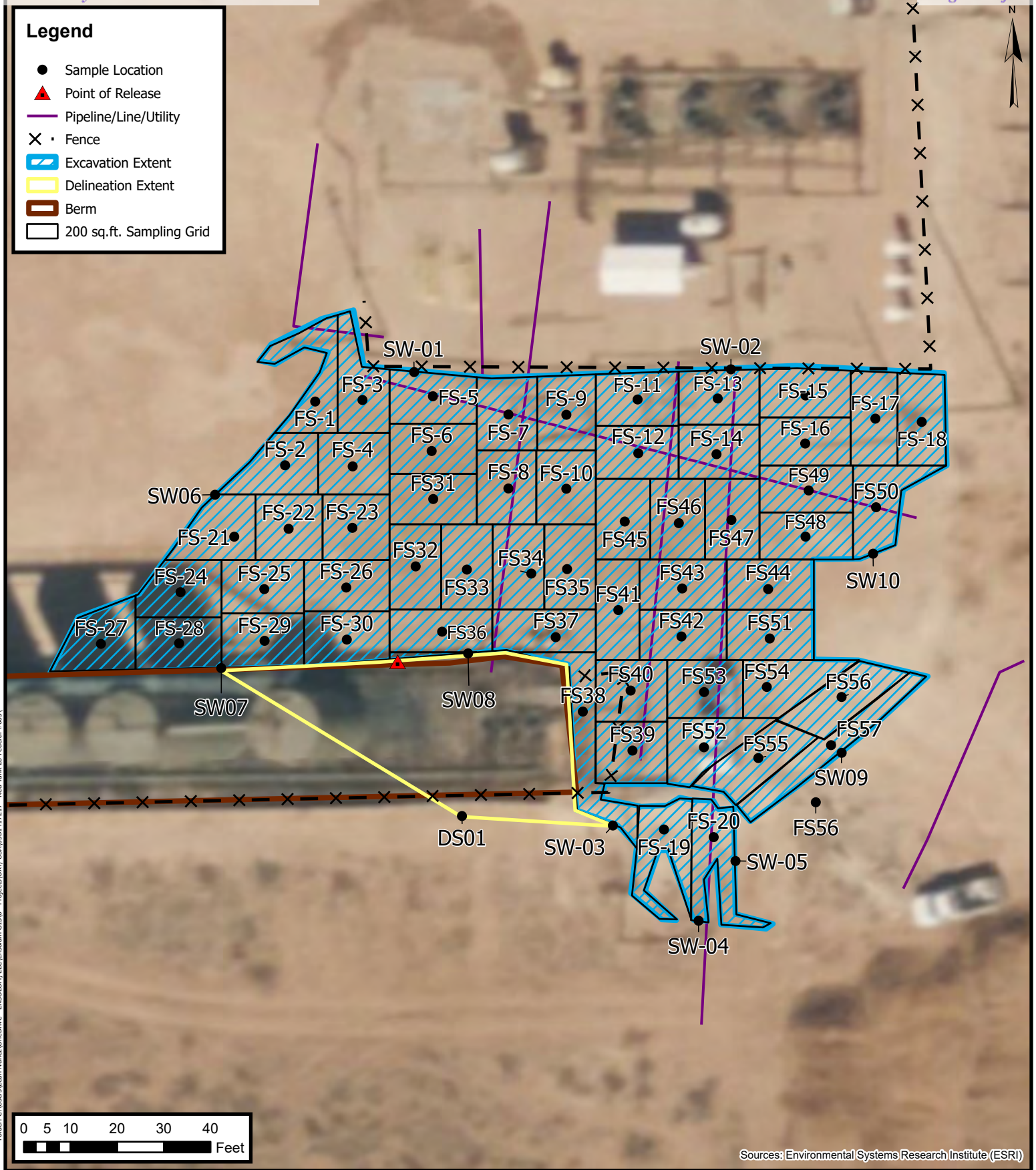


## Site Vicinity Map

Oxy USA, Inc  
Red Tank 28 Federal #003  
Project Number: 03B1417217  
32.368695 °N, 103.677842 °W  
Lea County, New Mexico

**FIGURE**  
**2**



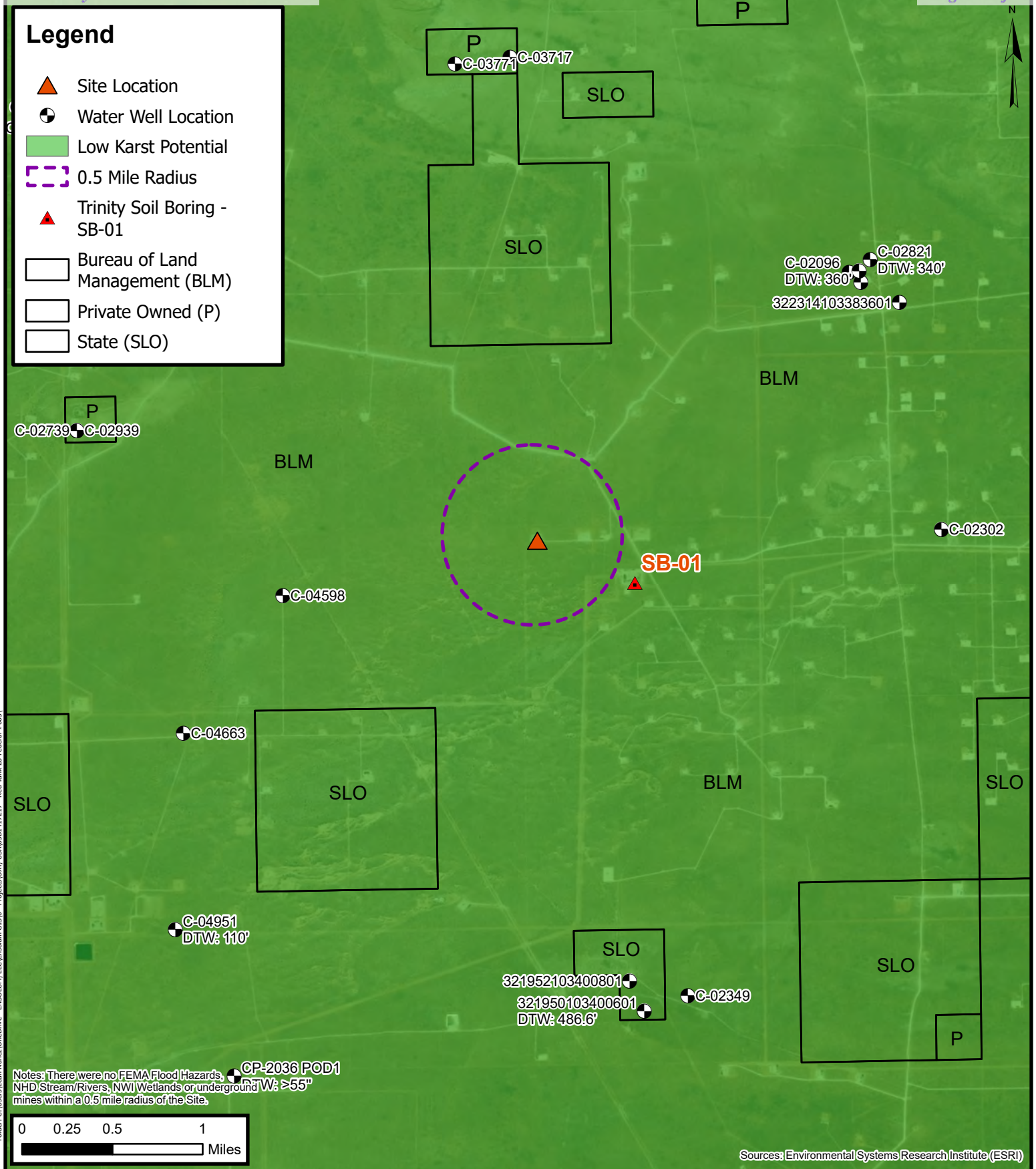


## Site Map

Oxy USA, Inc  
Red Tank 28 Federal #003  
Project Number: 03B1417217  
32.368695 °N, 103.677842 °W  
Lea County, New Mexico

**FIGURE**

**3**





## APPENDIX B

### Supporting Documentation

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## Kelly Lowery

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**From:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Sent:** Monday, October 28, 2024 3:38 PM  
**To:** Kelly Lowery  
**Cc:** Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD  
**Subject:** Re: [EXTERNAL] Extension Request - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)

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

Good afternoon Kelly,

Thank you for the correspondence.

Your 90-day time extension request is approved. Remediation Due date has been updated to January 27, 2025.

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

Regards,

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



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**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Monday, October 28, 2024 2:04 PM  
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Extension Request - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)

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**From:** Kelly Lowery <klowery@ensolum.com>  
**Sent:** Monday, October 28, 2024 1:47 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Dittrich, John W <Wade\_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)

<tyson\_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

**Subject:** [EXTERNAL] Extension Request - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)

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 Red Tank 28 Federal #003 (Incident ID: nAPP2421435828). Excavation and remediation activities are currently on-going at the Site but have been delayed due to hydrovac excavation activities needed to daylight previously unknown lines running throughout the release extent as well as the pad being in a highly trafficked location. We ask that you please approve this extension request for future sampling and subsequent reporting.

Please let us know if you have any questions.

Thank you,



**Kelly Lowery, GIT**

Project Geologist

214-733-3165

Ensolum, LLC



**Kelly Lowery**

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**From:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Sent:** Friday, January 24, 2025 9:06 AM  
**To:** Kelly Lowery  
**Cc:** Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD  
**Subject:** Re: [EXTERNAL] Extension & DTW Variance Request - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)

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

Good morning Kelly,

Thank you for the correspondence. Your 90-day time extension and variance toward the depth to water estimation > 100 feet are approved. Remediation Due date has been updated to April 28, 2025.

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

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

Regards,

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



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**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Thursday, January 23, 2025 3:43 PM  
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Extension & DTW Variance Request - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)

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**From:** Kelly Lowery <klowery@ensolum.com>  
**Sent:** Thursday, January 23, 2025 2:18 PM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

**Cc:** Dittrich, John W <Wade\_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)

<tyson\_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

**Subject:** [EXTERNAL] Extension & DTW Variance Request - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)

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 Red Tank 28 Federal #003 (Incident ID: nAPP2421435828). Excavation and sampling activities are currently on-going but have been delayed due to the release extent being in an area that is highly trafficked. One half of the excavation has been excavated to allow trucks to still safely enter/exit and perform their loading and unloading duties, and now that this area has been sampled successfully, the next half of the release extent will be delineated. This will be conducted in portions so as not to inhibit regular pad activities.

The Site Characterization for this release was uploaded to the NMOCD portal on August 1, 2024 and the various maps for the Site Characterization are attached.

Additionally, on behalf of Oxy USA Inc, Ensolum LLC would like to request a depth to groundwater variance for the Red Tank 28 Federal #003 (Incident ID: nAPP2421436828). On 4/5/2022, Trinity Oilfield Services advanced one soil boring, SB-01, to a total depth of 105' bgs. The soil boring was left open for a period of 72hrs to determine the presence or absence of groundwater. After 72hrs, the soil boring was measured, with no groundwater encountered. This soil boring is approximately 0.57-miles southeast of the Site; the log and location map have been attached for reference.

Due to the regional depth to groundwater being greater than 105 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 all excavation floor samples collected during remediation activities. All sidewall soil samples will still adhere to a Closure Criteria Variance to reflect groundwater ≤50 feet as shown in Table 1 of 19.15.29.12 NMAC.

Thank you,



**Kelly Lowery, GIT**

Project Geologist

214-733-3165

**Ensolum, LLC**







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**Re: [EXTERNAL] Extension Request - Oxy USA, Inc - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)**

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**From** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Date** Tue 5/13/2025 9:45 AM  
**To** Kelly Lowery <klowery@ensolum.com>  
**Cc** Kent, Jessica <jessica\_kent@oxy.com>; Dittrich, John W <wade\_dittrich@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

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

Good morning Kelly,

Thank you for the correspondence. My sincerest apology for not responding to this in a timely manner.

Your 90-day time extension request is approved. Remediation Due date updated to July 28, 2025.

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

Regards,

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



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**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Tuesday, April 29, 2025 10:52 AM  
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Extension Request - Oxy USA, Inc - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)

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**From:** Kelly Lowery <klowery@ensolum.com>  
**Sent:** Monday, April 28, 2025 8:52 PM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

**Cc:** Kent, Jessica <Jessica\_Kent@oxy.com>; Dittrich, John W <Wade\_Dittrich@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

**Subject:** [EXTERNAL] Extension Request - Oxy USA, Inc - Red Tank 28 Federal #003 (Incident ID: nAPP2421435828)

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

Good evening,

On behalf of Oxy USA, Inc. (Oxy), Ensolum, LLC (Ensolum) would like to request a 90-day extension for the Red Tank 28 Federal #003 (Incident ID: nAPP2421435828). Excavation delineation activities are currently ongoing and are having to be taken in sections due to the Site being located at a high traffic tank battery. Additionally, there are many subsurface utility lines which must be hydrovacted completely to be exposed before any mechanical digging can begin.

Oxy and Ensolum are currently onsite this week (4/28/2025) working on a section and will have this section sampled once field screenings show that the vertical and horizontal extents have been delineated to the applicable Closure Criteria in Table 1 of 19.15.29.12 NMAC. Once clean excavation floor and excavation sidewall 200 sq ft samples are achieved for this section, we will backfill with clean fill material from a local source that meets Reclamation Standards per 19.15.29.13 NMAC and move on to the next section and so on and so forth until the entire release extent has been delineated.

We humbly ask that the OCD approves this extension request so we may continue to stay in compliance while we work towards site closure.

Thank you,



**Kelly Lowery, GIT**

Project Geologist

214-733-3165

**Ensolum, LLC**

**in f** 




## Soil Bore Log SB-01

<b>PROJECT NAME</b> Red Tank 27-28		<b>DRILLING DATE</b> 04/05/2022	<b>COORDINATES</b> 32.36509, -103.66921
<b>CLIENT</b> OXY USA, Inc.		<b>TOTAL DEPTH</b> 105'	<b>COORD SYS</b> NAD 83
			<b>ULSTR</b> N-11-26S-28E
			<b>SURFACE ELEVATION</b> 3624'
<b>COMMENTS</b> Spud on the Northwest corner of the Red Tank 27-28 SWD pad. Bore Hole was observed to be dry after 72 hrs.			<b>LOGGED BY</b> CJ
			<b>CHECKED BY</b> DD
Depth (ft)	Moisture	Material Description	Elevation (ft)
5	D	Caliche Road Base at Surface. Dry	3620
		Reddish Brown Sandy Loam. Dry	
10		Light Tan Sandy Loam. Dry	3615
			3610
15		Reddish Brown Sandy Clay Loam. Dry	
			3605
20			3600
			3595
25			3590
			3585
30		Light Gray Sandy Clay Loam. Dry	
			3580
35		Reddish Brown Sandy Clay Loam. Dry	
			3575
40			3570
			3565
45			3560
			3555
50			3550
			3545
55			3540
		Reddish Brown Clay Loam. Dry	
60		Light Tan Sandy Loam. Dry	3535
		Tan Sandy Loam. Dry	3530
65			
70			
75			
80			
85			
90			
95			
100		White Sandy Loam. Dry	3525
			3520
105		Termination Depth at:105 ft.	
			3515
110			

**DRY HOLE** This bore log is intended for evidence of depth to groundwater greater than 105'

Page 1 of 1

		Sample Name: Sherele Brooks		Date: 6/11/2025				
		Site Name: Red Tank 28 Federal #003						
		Incident No: nAPP2421435828						
		Job Number: 03B1417217						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.368618, -103.678348				Logged By: Sherele Brooks		Method: Hnd Auger		
				Hole Diameter: NA		Total Depth: 4 feet BGS		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor was included.								
PetroFLAG (ppm)	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
45	<174	0.0	No	DS01	0.5	0.5		Sand with silt, red, poorly graded, very fine grained, moist, no stain, no odor.
16	<174	0.0	No			1.0		SAA
10	<174	0.0	No			2.0		Sand with silt, red, poorly graded, very fine grained, dry, no stain, no odor.
0	<174	0.0	No			3.0		SAA
17	<174	0.0	No	DS01	4.0	4.0		SAA
								BGS - below ground surface ppm - parts per million SAA - same as above

**Exhibit A-1**  
**Seed Mixture 2, for Sandy Sites**

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed ( <i>Sporobolus cryptandrus</i> )	1.0
Sand love grass ( <i>Eragrostis trichodes</i> )	1.0
Plains bristlegrass ( <i>Setaria macrostachya</i> )	2.0

\*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



## APPENDIX C

### Photographic Documentation

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Project: Red Tank 28 Federal #003  
Entity: Oxy USA, Inc.  
NMOCD Incident ID: nAPP2421435828



View of excavation extent during remediation activities, facing east (11/12/2024).



View of excavation extent during remediation activities, facing northeast (11/12/2024).



Project: Red Tank 28 Federal #003  
Entity: Oxy USA, Inc.  
NMOCD Incident ID: nAPP2421435828



View of excavation extent during remediation activities, facing south (12/20/2024).



View of excavation extent during remediation activities, facing northwest (12/20/2024).



Project: Red Tank 28 Federal #003  
Entity: Oxy USA, Inc.  
NMOCD Incident ID: nAPP2421435828



View of excavation extent during remediation activities, facing southeast (04/29/2025).



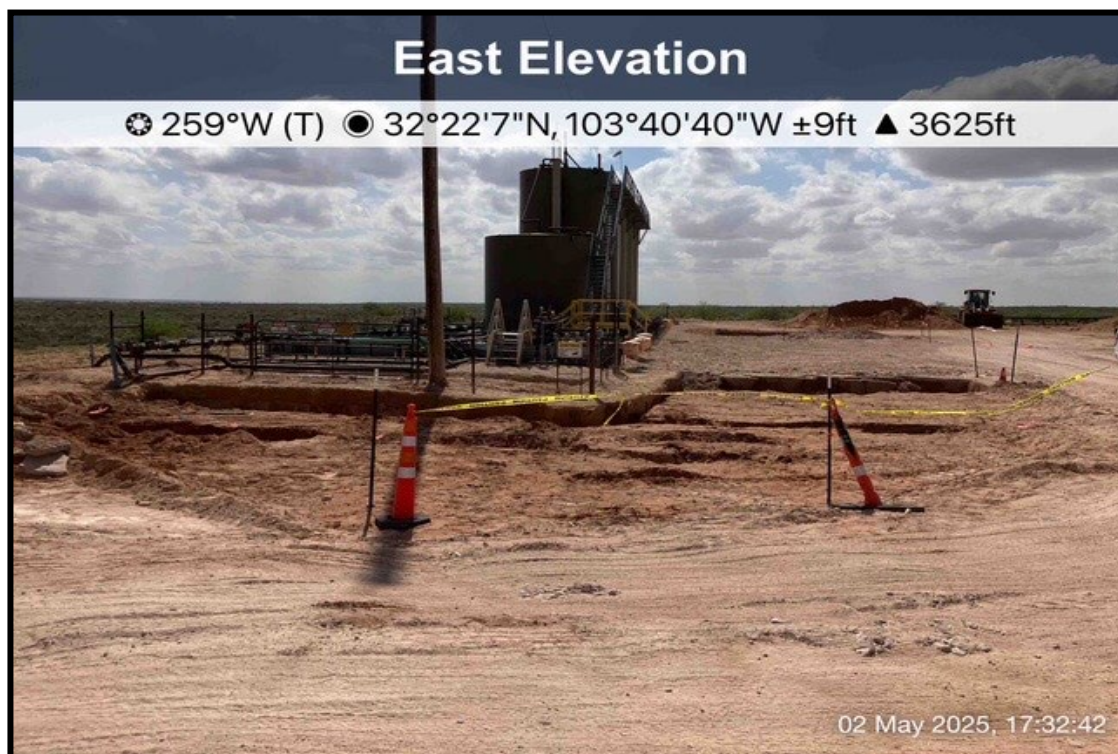
View of excavation extent during remediation activities, facing southeast (04/29/2025).



Project: Red Tank 28 Federal #003  
Entity: Oxy USA, Inc.  
NMOCD Incident ID: nAPP2421435828



View of excavation extent during remediation activities, facing south (05/01/2025).



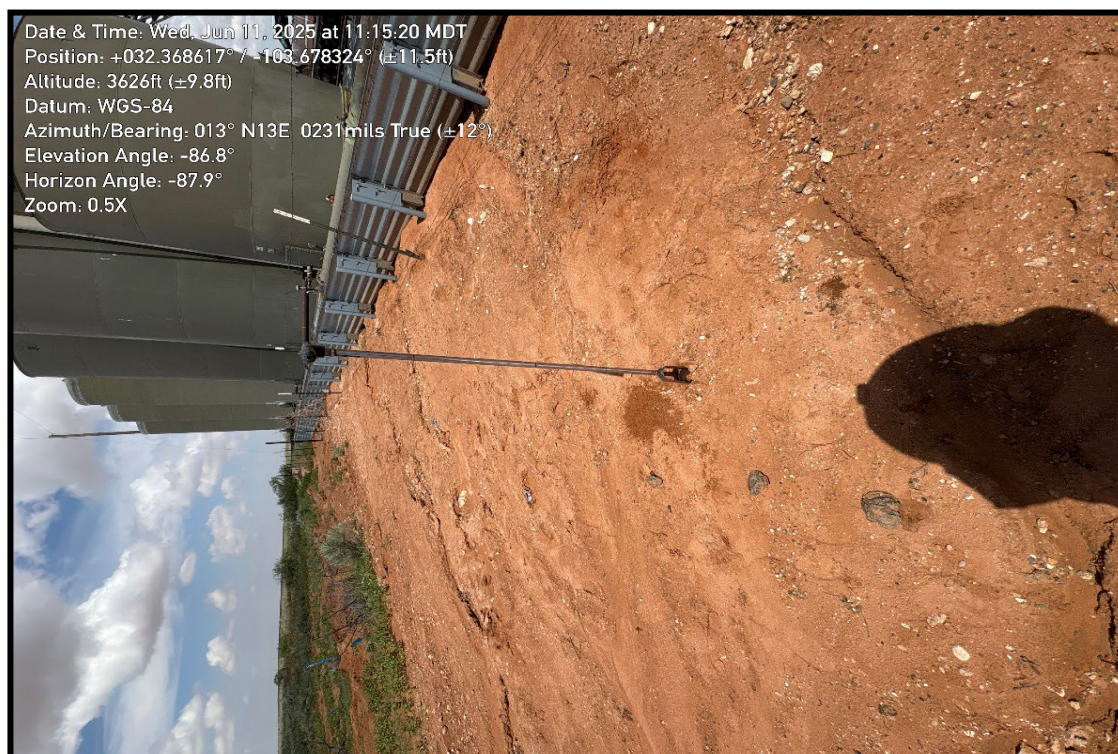
View of excavation extent during remediation activities, facing west (05/02/2025).



Project: Red Tank 28 Federal #003  
Entity: Oxy USA, Inc.  
NMOCD Incident ID: nAPP2421435828



View of excavation extent during remediation activities, facing southwest (05/08/2025).



View of delineation borehole DS01, facing northeast (06/11/2025).



Project: Red Tank 28 Federal #003  
Entity: Oxy USA, Inc.  
NMOCD Incident ID: nAPP2421435828



View of excavation extent post backfill activities, facing east (05/09/2025).



View of excavation extent post backfill activities, facing north (05/09/2025).



## APPENDIX D

### Table

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Red Tank 28 Federal #003  
 OXY USA, INC.  
 LEA COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Floor Soil Samples										
FS-1	11/12/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS-2	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS-3	11/12/2024	2	<0.050	<0.300	<10.0	11.7	<10.0	11.7	11.7	224
FS-4	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS-5	11/12/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS-6	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS-7	11/12/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-8	11/12/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS-9	11/12/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS-10	11/12/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-11	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-12	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,020
FS-13	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS-14	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-15	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS-16	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	896
FS-17	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS-18	11/12/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
FS-19	12/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS-20	12/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS21	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS22	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	704
FS23	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,460
FS24	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS25	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS26	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,280
FS27	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,250
FS28	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	880
FS29	04/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Red Tank 28 Federal #003  
 OXY USA, INC.  
 LEA COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS30	04/29/2025	2	<0.050	<0.300	<10.0	141	21.2	141	162	1,520
FS31	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	768
FS32	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
FS33	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
FS34	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS35	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS36	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,500
FS37	04/30/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,470
FS38	04/30/2025	1	<0.050	<0.300	<10.0	11.0	<10.0	11.0	11.0	1,140
FS39	04/30/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,840
FS40	04/30/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,930
FS41	05/01/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,570
FS42	05/01/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,480
FS43	05/01/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,180
FS44	05/02/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,390
FS45	05/01/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,150
FS46	05/01/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
FS47	05/02/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,360
FS48	05/02/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,180
FS49	05/02/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,920
FS50	05/02/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,080
FS51	05/02/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,460
FS52	05/08/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS53	05/02/2025	1	<0.050	<0.300	<10.0	17.1	<10.0	17.1	17.1	1,620
FS54	05/02/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,840
FS55	05/08/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,760
FS56	05/08/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,420
FS57	05/08/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Red Tank 28 Federal #003  
 OXY USA, INC.  
 LEA COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Sidewall Soil Samples										
SW-01	12/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-02	12/20/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW-03	12/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-04	12/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-05	12/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW06	04/29/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW07	04/29/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW08*	04/30/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>976</b>
SW09	05/08/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW10	05/02/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>928</b>
	05/08/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
Confirmation Delineation Soil Samples										
DS01	06/11/2025	0.5	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
		4	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

\*: Sidewall sample location unable to be excavated safely due to proximity to operating equipment. Sidewall meets NMOCD Table 1 Closure Criteria Limits for Remediation.





TABLE 2  
SOIL SAMPLE ANALYTICAL RESULTS  
Cedar Canyon Pit  
OXY USA, INC.  
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Composite Backfill Soil Sample										
Cedar Canyon Pit	11/28/2024	NA	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

\*: Sidewall sample location unable to be excavated safely due to proximity to operating equipment. Sidewall meets NMOCD Table 1 Closure Criteria Limits for Remediation.



## APPENDIX E

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

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

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November 19, 2024

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

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 11/13/24 16:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 1 2' (H246938-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.17	108	2.00	15.4	
Toluene*	<0.050	0.050	11/15/2024	ND	2.11	105	2.00	7.04	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.26	113	2.00	2.77	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.78	113	6.00	1.62	
Total BTX	<0.300	0.300	11/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/15/2024	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	11/14/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 2 1' (H246938-02)**

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	11/15/2024	ND	2.17	108	2.00	15.4		
Toluene*	<0.050	0.050	11/15/2024	ND	2.11	105	2.00	7.04		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.26	113	2.00	2.77		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.78	113	6.00	1.62		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/15/2024	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	11/14/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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

Received: 11/13/2024  
Reported: 11/19/2024  
Project Name: RED TANK 28 FEDERAL #003  
Project Number: 03B141217  
Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS - 3 2' (H246938-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.17	108	2.00	15.4	
Toluene*	<0.050	0.050	11/15/2024	ND	2.11	105	2.00	7.04	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.26	113	2.00	2.77	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.78	113	6.00	1.62	
Total BTX	<0.300	0.300	11/15/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/15/2024	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	11/14/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	11.7	10.0	11/14/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 4 1' (H246938-04)**

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	11/15/2024	ND	2.17	108	2.00	15.4		
Toluene*	<0.050	0.050	11/15/2024	ND	2.11	105	2.00	7.04		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.26	113	2.00	2.77		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.78	113	6.00	1.62		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/15/2024	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	11/14/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 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: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 5 2' (H246938-05)**

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	11/15/2024	ND	2.17	108	2.00	15.4		
Toluene*	<0.050	0.050	11/15/2024	ND	2.11	105	2.00	7.04		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.26	113	2.00	2.77		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.78	113	6.00	1.62		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/15/2024	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	11/14/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 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: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 6 1' (H246938-06)**

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	11/15/2024	ND	2.17	108	2.00	15.4		
Toluene*	<0.050	0.050	11/15/2024	ND	2.11	105	2.00	7.04		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.26	113	2.00	2.77		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.78	113	6.00	1.62		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/15/2024	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	11/14/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 7 2' (H246938-07)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/15/2024	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	11/14/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 8 2' (H246938-08)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/15/2024	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	11/14/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 9 2' (H246938-09)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	11/15/2024	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	11/15/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 10 2' (H246938-10)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/15/2024	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	11/15/2024	ND	186	92.8	200	0.469	
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	185	92.6	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 11 1' (H246938-11)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/15/2024	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	11/14/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 12 1' (H246938-12)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	11/15/2024	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	11/14/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 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  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 13 1' (H246938-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/15/2024	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	11/14/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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**Analytical Results For:**

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 14 1' (H246938-14)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/15/2024	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	11/14/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 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: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 15 1' (H246938-15)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/15/2024	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	11/14/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.7 % 49.1-148

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**Analytical Results For:**

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 16 1' (H246938-16)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	11/15/2024	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	11/14/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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**Analytical Results For:**

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 17 1' (H246938-17)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/15/2024	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	11/14/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/13/2024  
 Reported: 11/19/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B141217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 11/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS - 18 1' (H246938-18)**

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	11/15/2024	ND	2.38	119	2.00	7.63		
Toluene*	<0.050	0.050	11/15/2024	ND	2.31	116	2.00	7.07		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.39	120	2.00	3.97		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	7.08	118	6.00	3.58		
Total BTEX	<0.300	0.300	11/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	11/15/2024	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	11/14/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	214	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Company Name: Ensolum, LLC				<b>BILL TO</b>								<b>ANALYSIS REQUEST</b>															
Project Manager: Beaux Jennings				P.O. #:								<div style="float:right; width:100px; text-align:center;">TPH 8015 Chlorides 4500 BTEX 80216</div>															
Address: 601 N. Marienfeld St. STE 400				Company: Oxy USA, Inc.																							
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich																							
Phone #: 210-219-8858 Fax #:				Address:																							
Project #: 0381417217 Project Owner: Oxy				City:																							
Project Name: Red Tank 28 Fed 003				State: Zip:																							
Project Location: Lea Co NM				Phone #: 575-390-2828																							
Sampler Name: Shane Diller				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.	SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ✓ ICE / COOL OTHER :	DATE	TIME															
1	FS-1	2	C			X				X	11-12-24	1035	X	X	X												
2	FS-2	1	C			X				X	11-12-24	1037	X	X	X												
3	FS-3	2	C			X				X	11-12-24	1039	X	X	X												
4	FS-4	1	C			X				X	11-12-24	1041	X	X	X												
5	FS-5	2	C			X				X	11-12-24	1043	X	X	X												
6	FS-6	1	C			X				X	11-12-24	1045	X	X	X												
7	FS-7	2	C			X				X	11-12-24	1047	X	X	X												
8	FS-8	2	C			X				X	11-12-24	1049	X	X	X												
9	FS-9	2	C			X				X	11-12-24	1051	X	X	X												
10	FS-10	2	C			X				X	11-12-24	1053	X	X	X												
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Relinquished By: [Signature]				Date: 11/13/24				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:															
Relinquished By:				Time: 1049				Received By:				All Results are emailed. Please provide Email address: BJennings@ensolum.com															
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C: 2.72 Corrected Temp. °C: 2.12				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) [Signature]				Turnaround Time: Standard Rush Bacteria (only) Sample Condition Thermometer ID #113 #100 Cool Intact Observed Temp. °C Correction Factor -0.6°C/-0.6°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C											
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com																											





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>												
Project Manager: Beaux Jennings				P.O. #:										<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides 4500</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 80216</div> </div>												
Address: 601 N. Marienfeld St. STE 400				Company: Oxy USA, Inc.																						
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich																						
Phone #: 210-219-8858 Fax #:				Address:																						
Project #: Project Owner:				City:																						
Project Name:				State: Zip:																						
Project Location:				Phone #: 575-390-2828																						
Sampler Name:				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING															
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
424435	FS-11	1	C				X				X			11-12	1055	X	X	X								
12	FS-11 <del>YAD</del>	1	C				X				X															
13	FS-12	1	C				X				X			11-12	1057	X	X	X								
14	FS-13	1	C				X				X			11-12	1059	X	X	X								
15	FS-14	1	C				X				X			11-12	1101	X	X	X								
16	FS-15	1	C				X				X			11-12	1103	X	X	X								
17	FS-16	1	C				X				X			11-12	1105	X	X	X								
18	FS-17	1	C				X				X			11-12	1107	X	X	X								
19	FS-18	1	C				X				X			11-12	1109	X	X	X								
20	ADIT 1324										X			11-12	1109	X	X	X								

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Relinquished By:		Date: 11-13-20	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 11:49			Time:		All Results are emailed. Please provide Email address:	
Relinquished By:		Date:	Received By:		Bjennings@ensolum.com	
Time:					REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C: 27.2	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) AD	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: 27.2	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			Thermometer ID #113-140		Observed Temp. °C	
			Correction Factor -0.5°C - (2-62)		Corrected Temp. °C	

† 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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December 27, 2024

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

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 12/20/24 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/20/2024  
 Reported: 12/27/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 12/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 01 0-2' (H247740-01)**

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	12/24/2024	ND	2.03	101	2.00	6.73	
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75	
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45	
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	12/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 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: 12/20/2024  
 Reported: 12/27/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 12/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 02 0-1' (H247740-02)**

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	12/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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: 12/20/2024  
 Reported: 12/27/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 12/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 19 4' (H247740-03)**

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	12/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 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: 12/20/2024  
 Reported: 12/27/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 12/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 20 4' (H247740-04)**

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	12/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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: 12/20/2024  
 Reported: 12/27/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 12/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 03 0-4' (H247740-05)**

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	12/24/2024	ND	1.64	82.2	2.00	9.84		
Toluene*	<0.050	0.050	12/24/2024	ND	1.71	85.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	1.67	83.7	2.00	9.95		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	4.91	81.8	6.00	9.91		
Total BTEX	<0.300	0.300	12/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 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: 12/20/2024  
 Reported: 12/27/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 12/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 04 0-4' (H247740-06)**

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	12/24/2024	ND	1.64	82.2	2.00	9.84		
Toluene*	<0.050	0.050	12/24/2024	ND	1.71	85.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	1.67	83.7	2.00	9.95		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	4.91	81.8	6.00	9.91		
Total BTEX	<0.300	0.300	12/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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

Received: 12/20/2024  
 Reported: 12/27/2024  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 12/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 05 0-4' (H247740-07)**

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	12/24/2024	ND	1.64	82.2	2.00	9.84		
Toluene*	<0.050	0.050	12/24/2024	ND	1.71	85.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	1.67	83.7	2.00	9.95		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	4.91	81.8	6.00	9.91		
Total BTEX	<0.300	0.300	12/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Envolva LLC</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Kelly Lowery</u>				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 801B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 4500</div> </div>											
Address: <u>601 N. Marland St. STE: 400</u>				Company: <u>OXY USA</u>															
City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u>				Attn: <u>Wade Dittrich</u>															
Phone #: <u>(817) 733-3165</u> Fax #: <u>-</u>				Address:															
Project #: <u>03B1417217</u> Project Owner: <u>-</u>				City:															
Project Name: <u>Bed Tanks 28 Federal #003</u>				State: Zip:															
Project Location: <u>Lea County, NM</u>				Phone #:															
Sampler Name: <u>Leah Nutez</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		Depth (Ft)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING			
										GROUNDWATER				WASTEWATER		DATE			
										SOIL				OIL		TIME			
										SLUDGE				OTHER:					
										ACID/BASE:				ICE / COOL					
														OTHER:					
<u>H24TH40</u>		<u>SW-01</u>		<u>0-2'</u>		<u>C</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>12/20/24</u> <u>1250</u>			
<u>2</u>		<u>SW-02</u>		<u>0-1'</u>		<u>C</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>1350</u>			
<u>3</u>		<u>FS-19</u>		<u>4'</u>		<u>C</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>1300</u>			
<u>4</u>		<u>FS-20</u>		<u>4'</u>		<u>C</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>1305</u>			
<u>5</u>		<u>SW-03</u>		<u>0-4'</u>		<u>C</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>1310</u>			
<u>6</u>		<u>SW-04</u>		<u>0-4'</u>		<u>C</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>1315</u>			
<u>7</u>		<u>SW-05</u>		<u>0-4'</u>		<u>C</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>12/20/24</u> <u>1320</u>			
<u>NFE</u> <u>LN</u> <u>12/20/24</u>																			

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Relinquished By: <u>[Signature]</u>		Date: <u>12-20-24</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1555</u>		Time: <u>1555</u>		Time: <u>1555</u>		All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:		Time:			
Delivered By: (Circle One)		Observed Temp. °C <u>1.6</u>		Sample Condition		Turnaround Time: <u>3 days</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>1.0</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Standard <u>Rush</u> <input checked="" type="checkbox"/>	
				CHECKED BY: <u>[Signature]</u>		Bacteria (only) Sample Condition	
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	

FORM-006 R 3.0 08/03/24

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



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

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May 02, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 05/01/25 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 06 0-2' (H252604-01)**

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	05/01/2025	ND	1.76	88.0	2.00	5.42		
Toluene*	<0.050	0.050	05/01/2025	ND	1.87	93.6	2.00	5.22		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.90	94.8	2.00	5.14		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	5.99	99.8	6.00	5.04		
Total BTEX	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/02/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.3 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 07 0-2' (H252604-02)**

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	05/01/2025	ND	1.76	88.0	2.00	5.42		
Toluene*	<0.050	0.050	05/01/2025	ND	1.87	93.6	2.00	5.22		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.90	94.8	2.00	5.14		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	5.99	99.8	6.00	5.04		
Total BTEX	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

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Mike Snyder For 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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For 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

[illegible]



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

---

May 02, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 05/01/25 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a light gray rectangular background.

Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 21 2' (H252605-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.0 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 22 2' (H252605-02)**

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	05/01/2025	ND	2.09	104	2.00	0.559		
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217		
Total BTEx	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.0 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 23 2' (H252605-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 24 2' (H252605-04)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEx	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.7 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 25 2' (H252605-05)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.3 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 26 2' (H252605-06)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEx	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.8 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 27 2' (H252605-07)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.2 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 28 2' (H252605-08)**

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	05/01/2025	ND	2.09	104	2.00	0.559		
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217		
Total BTEx	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.4 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 29 2' (H252605-09)**

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	05/01/2025	ND	2.09	104	2.00	0.559		
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217		
Total BTEx	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 30 2' (H252605-10)**

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	05/01/2025	ND	2.09	104	2.00	0.559		
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217		
Total BTEX	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	141	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	21.2	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For 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

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Kelly Lowery <b>Address:</b> 601 N. Marienfeld St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 214-733-3165 <b>Fax #:</b> <b>Project #:</b> 03BLW17217 <b>Project Owner:</b> OXY <b>Project Name:</b> Red Tank 28 Feb. 003 <b>Project Location:</b> Eddy Co. NM <b>Sampler Name:</b> Nicholas Christakos				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA, Inc. <b>Attn:</b> Wade Dittrich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>				<b>ANALYSIS REQUEST</b> <div style="text-align: center; font-size: 2em;">                         REF                          04/29/25                     </div>				
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	Chloride
H252405	FS21	2'	C	1	GROUNDWATER	✓	✓	04/29/25	11:37	✓	✓	✓
1	FS22		C	1	WASTEWATER	✓	✓		11:39	✓	✓	✓
2	FS23		✓	✓		11:40	✓	✓	✓			
3	FS24		✓	✓		11:42	✓	✓	✓			
4	FS25		✓	✓		11:43	✓	✓	✓			
5	FS26		✓	✓		12:01	✓	✓	✓			
6	FS27		✓	✓		12:03	✓	✓	✓			
7	FS28		✓	✓		12:05	✓	✓	✓			
8	FS29		✓	✓		12:06	✓	✓	✓			
9	FS30		✓	✓		12:07	✓	✓	✓			
10												

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<b>Relinquished By:</b> Nicholas Christakos <b>Date:</b> 5-1-25 <b>Time:</b> 1300	<b>Received By:</b> [Signature] <b>Date:</b> <b>Time:</b>	<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b> <b>All Results are emailed. Please provide Email address:</b> Klowery@ensolum.com
<b>Relinquished By:</b> [Signature] <b>Date:</b> <b>Time:</b>	<b>Received By:</b> [Signature] <b>Date:</b> <b>Time:</b>	<b>REMARKS:</b>
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Observed Temp. °C</b> 0.5 <b>Corrected Temp. °C</b> 0.8	<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Turnaround Time:</b> 440 Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	<b>Thermometer ID:</b> 413 <b>Correction Factor:</b> -0.5°C	<b>Bacteria (only) Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Observed Temp. °C Corrected Temp. °C

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



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

May 02, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 05/01/25 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 31 2' (H252606-01)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.5 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 32 2' (H252606-02)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.9 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 33 2' (H252606-03)**

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	05/01/2025	ND	2.09	104	2.00	0.559		
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217		
Total BTEx	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.3 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 34 2' (H252606-04)**

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	05/01/2025	ND	2.09	104	2.00	0.559		
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217		
Total BTEx	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.4 % 40.6-153

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\*=Accredited Analyte

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 35 2' (H252606-05)**

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	05/01/2025	ND	2.09	104	2.00	0.559		
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423		
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549		
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217		
Total BTEx	<0.300	0.300	05/01/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.2 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 36 2' (H252606-06)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEx	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.8 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 37 2' (H252606-07)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 38 1' (H252606-08)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	187	93.5	200	1.81	
DRO >C10-C28*	11.0	10.0	05/01/2025	ND	180	89.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.2 % 40.6-153

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 39 1' (H252606-09)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	05/02/2025	ND	480	120	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	05/01/2025	ND	205	103	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	194	96.9	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.9 % 40.6-153

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\*=Accredited Analyte

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Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 40 1' (H252606-10)**

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	05/01/2025	ND	2.09	104	2.00	0.559	
Toluene*	<0.050	0.050	05/01/2025	ND	2.19	110	2.00	0.423	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	2.27	114	2.00	0.0549	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	6.75	113	6.00	0.217	
Total BTEX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6930	16.0	05/02/2025	ND	416	104	400	0.00	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	05/01/2025	ND	205	103	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	194	96.9	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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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A handwritten signature in black ink, appearing to read "Mike Snyder".

---

Mike Snyder For 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

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Kelly Lowery <b>Address:</b> 601 N. Marienfeld St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 214-733-3165 <b>Fax #:</b> <b>Project #:</b> 03B1417217 <b>Project Owner:</b> Oxy <b>Project Name:</b> Red Tank 28 Fed. 003 <b>Project Location:</b> Lea Co, NM <b>Sampler Name:</b> Nicolas Christakos				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA, Inc. <b>Attn:</b> Wade Dittrich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>									
<b>FOR LAB USE ONLY</b>				<b>MATRIX</b>				<b>PRESERV.</b>				<b>SAMPLING</b>					
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>Sample Depth (feet)</b>	<b>GIRAB OR (COMP. # CONTAINERS)</b>	<b>GROUNDWATER</b>	<b>WASTEWATER</b>	<b>SOIL</b>	<b>OIL</b>	<b>SLUDGE</b>	<b>OTHER</b>	<b>ACID/BASE</b>	<b>ICE / COOL</b>	<b>OTHER</b>	<b>DATE</b>	<b>TIME</b>	<b>BTEX</b>	<b>TPH</b>	<b>Chloride</b>
H652606	FS31	2'	C										04/30/25	13:32			
2	FS32	2'	C											13:33			
3	FS33	2'	C											13:34			
4	FS34	2'	C											13:35			
5	FS35	2'	C											13:37			
6	FS36	2'	C											13:36			
7	FS37	2'	C											13:39			
8	FS38	1'	C											14:26			
9	FS39	1'	C											14:38			
10	FS40	1'	C											14:47			

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<b>Relinquished By:</b> Nicolas Christakos <b>Date:</b> 5-1-25 <b>Time:</b> 1300	<b>Received By:</b> [Signature] <b>Date:</b> <b>Time:</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> Klowery@ensolum.com
<b>Relinquished By:</b> <b>Date:</b> <b>Time:</b>	<b>Received By:</b> <b>Date:</b> <b>Time:</b>	<b>REMARKS:</b>

<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Observed Temp. °C</b> 0.5 <b>Corrected Temp. °C</b> 0.8	<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>CHECKED BY:</b> (Initials) [Signature]	<b>Turnaround Time:</b> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> #140 Thermometer ID #113 Correction Factor -0.5°C 24 hr	<b>Bacteria (only)</b> <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Sample Condition</b> Observed Temp. °C Corrected Temp. °C
---	---	---	--	--	---	--

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





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

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May 02, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 05/01/25 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For 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: 05/01/2025  
 Reported: 05/02/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 04/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 08 0-4' (H252612-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2025	ND	1.76	88.0	2.00	5.42	
Toluene*	<0.050	0.050	05/01/2025	ND	1.87	93.6	2.00	5.22	
Ethylbenzene*	<0.050	0.050	05/01/2025	ND	1.90	94.8	2.00	5.14	
Total Xylenes*	<0.150	0.150	05/01/2025	ND	5.99	99.8	6.00	5.04	
Total BTX	<0.300	0.300	05/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	05/02/2025	ND	416	104	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	05/01/2025	ND	205	103	200	0.103	
DRO >C10-C28*	<10.0	10.0	05/01/2025	ND	194	96.9	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	05/01/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.8 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



**CARDINAL**  
Laboratories

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

### 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										P.O. #:		<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; right: 0; transform: rotate(45deg); font-size: 2em; font-weight: bold;">           NFE 04/30/25 NC         </div> </div>									
Project Manager: Kelly Lowery										Company: Oxy USA, Inc.											
Address: 601 N. Marinfeld St. STE 400										Attn: Wade Dittrich											
City: Midland State: TX Zip: 79701										Address:											
Phone #: 214-733-3165 Fax #:										City:											
Project #: 0381417217 Project Owner: Oxy										State: Zip:											
Project Name: Red Tank 28 Ped 003										Phone #: 575-390-2828		<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; right: 0; transform: rotate(45deg); font-size: 2em; font-weight: bold;">           NFE 04/30/25 NC         </div> </div>									
Project Location: Lea Co, NM										Fax #:											
Sampler Name: Nicholas Christensen																					
FOR LAB USE ONLY																					
Lab I.D. Sample I.D. Sample Depth (feet)																					
HAS 2612 1 SW08 0-4'																					
MATRIX PRESERV. SAMPLING												<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; right: 0; transform: rotate(45deg); font-size: 2em; font-weight: bold;">           NFE 04/30/25 NC         </div> </div>									
GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME																					
C (G)RAB OR (C)OMP. # CONTAINERS																					
BTEX TPH Chloride																					
04/30/25 13:30																					
NFE 04/30/25 NC																					

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Relinquished By: <i>Medius Insurance</i>		Date: <i>5-1-25</i>	Received By: <i>Tamara Eldridge</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:		Date:	Received By:	All Results are emailed. Please provide Email address: <i>Klowery@ensolum.com</i>
Time:		Time:		REMARKS:
Delivered By: (Circle One)	Observed Temp. °C <i>0.5</i>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: (Initials) <i>YD</i>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> <i>24 hrs added 5/1/25</i>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <i>0.8</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C
				Thermometer ID # <i>N3 #140</i> Correction Factor <i>-0.3°C to 0.3°C</i>

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



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

---

May 05, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 05/02/25 16:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 44 1' (H252654-01)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01	
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28	
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12	
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17	
Total BTEx	<0.300	0.300	05/05/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	05/05/2025	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	05/05/2025	ND	199	99.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	194	96.9	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.0 % 40.6-153

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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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 47 1' (H252654-02)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	05/05/2025	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	05/05/2025	ND	199	99.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	194	96.9	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.0 % 40.6-153

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

Received: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 48 1' (H252654-03)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEx	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2180	16.0	05/05/2025	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	05/05/2025	ND	199	99.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	194	96.9	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.2 % 40.6-153

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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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 49 1' (H252654-04)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4920	16.0	05/05/2025	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	05/05/2025	ND	199	99.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	194	96.9	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.9 % 40.6-153

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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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 50 1' (H252654-05)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	05/05/2025	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	05/05/2025	ND	199	99.5	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	194	96.9	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 51 1' (H252654-06)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	05/05/2025	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	05/05/2025	ND	188	93.8	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	177	88.7	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.6 % 40.6-153

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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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 53 1' (H252654-07)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1620	16.0	05/05/2025	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	05/05/2025	ND	188	93.8	200	2.92	
DRO >C10-C28*	17.1	10.0	05/05/2025	ND	177	88.7	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.2 % 40.6-153

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

Received: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 54 1' (H252654-08)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	05/05/2025	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	05/05/2025	ND	188	93.8	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	177	88.7	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 79.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.0 % 40.6-153

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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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 10 0-1' (H252654-09)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	05/05/2025	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	05/05/2025	ND	188	93.8	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	177	88.7	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.2 % 40.6-153

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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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A handwritten signature in black ink, appearing to read "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

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Kelly Lowery <b>Address:</b> 601 N. Marienfeld St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 214-733-3165 <b>Fax #:</b> <b>Project #:</b> 0381417217 <b>Project Owner:</b> Oxy <b>Project Name:</b> Red Tank 28 Feb. 003 <b>Project Location:</b> Lea Co. NM <b>Sampler Name:</b> Nicolas Christakos				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA, Inc. <b>Attn:</b> Wade Dittrich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>										
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		DATE	TIME	BTX	TPH	Chloride	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		OTHER	ACID/BASE						ICE / COOL
1	FS44	1'	C	1										05/2/25	0933			
2	FS47	1'	C	1										05/2/25	0956			
3	FS48	1'	C	1										05/2/25	0947			
4	FS49	1'	C	1										05/2/25	1006			
5	FS50	1'	C	1										05/2/25	1015			
6	FS51	1'	C	1										05/2/25	1148			
7	FS53	1'	C	1										05/2/25	1414			
8	FS54	1'	C	1										05/2/25	1415			
9	SW10	0-1'	C	1										05/2/25	1445			

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Relinquished By:	Date:	Received By:	Verbal Result:
Nicolas Christakos	5-2-25	Aprena	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
			Klowery@ensolum.com
Delivered By: (Circle One)			REMARKS:
Sampler - UPS - Bus - Other:	Observed Temp. °C	Sample Condition	Turnaround Time:
	Corrected Temp. °C	Cool Intact	Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Cool Intact Observed Temp. °C
			Thermometer ID #143
			Correction Factor -0.5°C

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



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

May 05, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 05/02/25 16:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 41 1' (H252655-01)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	05/05/2025	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	05/05/2025	ND	188	93.8	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	177	88.7	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 40.6-153

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

Received: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 42 1' (H252655-02)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	05/05/2025	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	05/05/2025	ND	206	103	200	0.224	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	195	97.5	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.9 % 40.6-153

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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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 43 1' (H252655-03)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	05/05/2025	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	05/05/2025	ND	206	103	200	0.224	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	195	97.5	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.6 % 40.6-153

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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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 45 1' (H252655-04)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	05/05/2025	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	05/05/2025	ND	206	103	200	0.224	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	195	97.5	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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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: 05/02/2025  
 Reported: 05/05/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY - LEA CO., NM

Sampling Date: 05/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 46 1' (H252655-05)**

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	05/05/2025	ND	1.80	90.2	2.00	9.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.89	94.6	2.00	9.28		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.88	94.1	2.00	9.12		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	5.55	92.6	6.00	9.17		
Total BTEX	<0.300	0.300	05/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	05/05/2025	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	05/05/2025	ND	206	103	200	0.224	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	195	97.5	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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

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Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Kelly Lowery <b>Address:</b> 601 N. Marienfeld St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 214-733-3165 <b>Fax #:</b> <b>Project #:</b> 03B1417217 <b>Project Owner:</b> Oxy <b>Project Name:</b> Red tank 28 Fed. 003 <b>Project Location:</b> Lea Co, NM <b>Sampler Name:</b> Nicolas Christoukas		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA, Inc. <b>Attn:</b> Wade Dittrich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>		<b>ANALYSIS REQUEST</b> <div style="text-align: center; font-size: 2em; transform: rotate(-45deg);">             05/11/25              NK           </div>													
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		DATE	TIME	BTEX	FPH	Chloride
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		OTHER	ACID/BASE					
H252455	FS41	1	C	1									05/11/25	1405			
	FS42	1	C	1									1339				
	FS43	1	C	1									1341				
	FS45	1	C	1									1407				
	FS46	1	C	1									1345				
NFE 05/12/25 NK																	

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<b>Relinquished By:</b> Nicolas Christoukas <b>Date:</b> 5-2-25 <b>Time:</b> 11:41 <b>Relinquished By:</b> Date: Time:	<b>Received By:</b> Christoukas <b>Date:</b> <b>Time:</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> Klowery@ensolum.com <b>REMARKS:</b>
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Observed Temp. °C:</b> 45.0 <b>Corrected Temp. °C:</b> 48.0	<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <b>CHECKED BY:</b> (Initials)
<b>Turnaround Time:</b> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> <b>Thermometer ID:</b> #103-24 hr <b>Correction Factor:</b> 0.003-24 hr <b>Bacteria (only)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> No <b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> No <b>Observed Temp. °C:</b> <b>Corrected Temp. °C:</b>		

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



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May 15, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 05/13/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/13/2025  
 Reported: 05/15/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY 32.368695-103.677842

Sampling Date: 05/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 09 0-1' (H252841-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2025	ND	2.09	104	2.00	2.18	
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14	
Total BTX	<0.300	0.300	05/14/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/14/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 40.6-153

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

Received: 05/13/2025  
 Reported: 05/15/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY 32.368695-103.677842

Sampling Date: 05/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 10 0-1' (H252841-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2025	ND	2.09	104	2.00	2.18	
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14	
Total BTX	<0.300	0.300	05/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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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: 05/13/2025  
 Reported: 05/15/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY 32.368695-103.677842

Sampling Date: 05/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 55 1' (H252841-03)**

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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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: 05/13/2025  
 Reported: 05/15/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY 32.368695-103.677842

Sampling Date: 05/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 56 1' (H252841-04)**

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.0 % 40.6-153

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

Received: 05/13/2025  
 Reported: 05/15/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY 32.368695-103.677842

Sampling Date: 05/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 57 1' (H252841-05)**

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEx	<0.300	0.300	05/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	186	92.9	200	2.24	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	181	90.5	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.1 % 40.6-153

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: 05/13/2025  
 Reported: 05/15/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY 32.368695-103.677842

Sampling Date: 05/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 52 1' (H252841-06)**

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	186	92.9	200	2.24	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	181	90.5	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.8 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



Page 9 of 9

FORM-006 R 3.2 10/07/21

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



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

June 13, 2025

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RED TANK 28 FEDERAL #003

Enclosed are the results of analyses for samples received by the laboratory on 06/11/25 15:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/11/2025  
 Reported: 06/13/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY

Sampling Date: 06/11/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DS 01 0.5' (H253478-01)**

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	06/12/2025	ND	2.13	107	2.00	12.7		
Toluene*	<0.050	0.050	06/12/2025	ND	1.96	98.2	2.00	13.3		
Ethylbenzene*	<0.050	0.050	06/12/2025	ND	2.00	99.8	2.00	11.3		
Total Xylenes*	<0.150	0.150	06/12/2025	ND	6.17	103	6.00	10.4		
Total BTEX	<0.300	0.300	06/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/12/2025	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	06/12/2025	ND	229	115	200	0.385	
DRO >C10-C28*	<10.0	10.0	06/12/2025	ND	206	103	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	06/12/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.4 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 06/11/2025  
 Reported: 06/13/2025  
 Project Name: RED TANK 28 FEDERAL #003  
 Project Number: 03B1417217  
 Project Location: OXY

Sampling Date: 06/11/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: DS 01 4' (H253478-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2025	ND	2.13	107	2.00	12.7		
Toluene*	<0.050	0.050	06/12/2025	ND	1.96	98.2	2.00	13.3		
Ethylbenzene*	<0.050	0.050	06/12/2025	ND	2.00	99.8	2.00	11.3		
Total Xylenes*	<0.150	0.150	06/12/2025	ND	6.17	103	6.00	10.4		
Total BTX	<0.300	0.300	06/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	06/12/2025	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	06/12/2025	ND	229	115	200	0.385	
DRO >C10-C28*	<10.0	10.0	06/12/2025	ND	206	103	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	06/12/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

---

Mike Snyder For 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: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: Kelly Lowery				P.O. #: 4502146175				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 20213</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 2015M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 450D</div> </div>													
Address: 3122 National Parks Hwy				Company: Oxy																	
City: Carlsbad State: NM Zip: 88220				Attn: Jessica Kent																	
Phone #: 214-733-3165 Fax #:				Address:																	
Project #: 03B1417217 Project Owner:				City:																	
Project Name: Red Tank 28 Federal #003				State: Zip:																	
Project Location:				Phone #:																	
Sampler Name: Sheride Brooks				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING														
					GROUNDWATER																
					WASTEWATER																
					SOIL																
					OIL																
					SLUDGE																
					OTHER :																
					ACID/BASE:																
					ICE / COOL																
					OTHER :																
								DATE	TIME												
H253478	DSOI	0.5'	G	1				6/11/25	11:44	X	X	X									
2	DSOI	4'	I	1				6/11/25	12:11	I	I	I									
not used																					

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Relinquished By:	Date:	Received By:	Verbal Result:	Yes	No	Add'l Phone #:
	6/11/25		All Results are emailed. Please provide Email address:			
	15:51		klowery@ensolum.com, jessica-kent@oxy.com			
Relinquished By:	Date:	Received By:	REMARKS:	Sbrooks@ensolum.com		
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only)
Sampler - UPS - Bus - Other:	5-4	Cool Intact	(Initials)	2 day	Rush	Cool Intact
	5-7	Yes Yes	SK	Thermometer ID #113	#140	Observed Temp. °C
		No No		Correction Factor 0.5°C	10.3	Corrected Temp. °C

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



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

---

October 31, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CEDAR CANYON PIT

Enclosed are the results of analyses for samples received by the laboratory on 10/28/24 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/28/2024  
 Reported: 10/31/2024  
 Project Name: CEDAR CANYON PIT  
 Project Number: 03B1417155  
 Project Location: OXY - EDDY CO.

Sampling Date: 10/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CEDAR CANYON PIT (H246545-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2024	ND	2.20	110	2.00	1.27	
Toluene*	<0.050	0.050	10/29/2024	ND	2.14	107	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/29/2024	ND	2.18	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	10/29/2024	ND	6.50	108	6.00	1.88	
Total BTEX	<0.300	0.300	10/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/29/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2024	ND	221	111	200	0.408	
DRO >C10-C28*	<10.0	10.0	10/29/2024	ND	223	111	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	10/29/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

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

---

Celey D. Keene, Lab Director/Quality Manager

[illegible]

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 489403

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 489403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421435828
Incident Name	NAPP2421435828 RED TANK 28 FEDERAL #003 @ 30-025-31754
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-31754] RED TANK 28 FEDERAL #003

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RED TANK 28 FEDERAL #003
Date Release Discovered	07/31/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water 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	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Other (Specify)   Produced Water   Released: 400 BBL   Recovered: 350 BBL   Lost: 50 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)	Release due to corrosion on a SWD integration line

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QUESTIONS, Page 2

Action 489403

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 489403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

**Initial Response**

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

The source of the release has been stopped	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: 08/01/2024
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QUESTIONS, Page 3

Action 489403

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	489403
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	6930
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	162
GRO+DRO (EPA SW-846 Method 8015M)	141
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	11/12/2024
On what date will (or did) the final sampling or liner inspection occur	06/11/2025
On what date will (or was) the remediation complete(d)	06/11/2025
What is the estimated surface area (in square feet) that will be reclaimed	11326
What is the estimated volume (in cubic yards) that will be reclaimed	644
What is the estimated surface area (in square feet) that will be remediated	11326
What is the estimated volume (in cubic yards) that will be remediated	644
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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Action 489403

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 489403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(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	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 07/29/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 489403

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 489403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The sidewall sample that meets remediation closure criteria but does not pass reclamation closure criteria is against a metal secondary containment that is lined and holds numerous large storage tanks that contain crude oil and produced water.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1734
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	257
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-31754 RED TANK 28 FEDERAL #003
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 07/29/2025

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Action 489403

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 489403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	471486
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/11/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	11326
What was the total volume (cubic yards) remediated	644
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	11326
What was the total volume (in cubic yards) reclaimed	644
Summarize any additional remediation activities not included by answers (above)	The reclamation area for the tanks and the excavation sidewall soil sample location that could not be excavated further due to structural integrity issues of the surrounding soils (SW08) measured approximately 1,734 square feet in arial extent. A total of approximately 257 cy of soil will be removed during reclamation activities once the pad has been decommissioned in the future per the Reclamation Requirements.
<i>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>	
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: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 07/29/2025

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Action 489403

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  489403
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 489403

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 489403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	Remediation closure report and variance request to utilize depth to water information from boring 0.57 miles outside the preferable 0.5 miles radius from the point of release is approved. Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations. Release resolved.	8/8/2025