



REMEDIATION CLOSURE REPORT

Property:

Sundance 1 Fed. #003 CTB

32.247225 °N, 103.724495 °W

Eddy County, New Mexico

API: 30-15-28120

Incident ID: nAPP2417748409

May 14, 2025

Ensolum Project No. 03B1417202

Prepared for:

Oxy USA, Inc.

PO Box 4324

Houston, Texas 77210

Attn: Jessica Kent

Prepared by:

Kelly Lowery, GI
Project Geologist

Beaux Jennings
Associate Principal

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REMEDIATION CLOSURE REPORT**Sundance 1 Fed. #003 CTB****32.247225 °N, 103.724495 °W****Eddy County, New Mexico****API: 30-15-28120****Incident ID: nAPP2417748409****Ensolum Project No. 03B1417202****1.0 INTRODUCTION****1.1 Site Description and Background**

Operator:	Oxy USA, INC.
Site Name:	Sundance 1 Fed. #003 CTB
Location:	Unit H, Section 01, Township 24 South, Range 31 East American Petroleum Institute (API): 30-015-28120 32.247225° N, 103.724495° W Eddy County, New Mexico
Property:	Federal land managed by the Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On June 17, 2024, Oxy had a release of produced water and oil at the Sundance 1 Fed. #003 CTB pad, hereinafter referred to as the Site, due to a clogged y-strainer causing a water tank to overflow. Approximately 9 barrels (bbls) of produced water and 1 bbl of oil were released onto the ground surface on-pad within the earthen containment with 5 bbls of produced water and 0.5 bbls of oil recovered. Oxy reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on June 25, 2024. The release was subsequently assigned Incident Number nAPP2417748409.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Oxy, the general Site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

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

- One exploratory water well (C-04672-POD1) was identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. The total depth of the well was recorded at 110 feet below ground surface (bgs) with no groundwater encountered on September 1, 2022.
- 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 (REMEDIATION 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 June 17, 2024, Oxy had a release of produced water and oil at the Site due to a clogged y-strainer causing a water tank to overflow. Approximately 9 bbls of produced water and 1 bbl of oil were released onto the ground surface on-pad within the earthen containment with 5 bbls of produced water and 0.5 bbls of oil recovered.

On October 2, 2024, subsequent to the first round of excavation activities, Ensolum arrived on-Site to collect seven composite soil samples from the excavation floor (FS-1 through FS-7) at depth of 4 feet bgs and four composite soil samples from the excavation sidewalls (SW-1 through SW-4) at a depth of 0-4 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

Due to the proximity of one of the three tanks within the soil berm containment to the excavation sidewall soil sample SW-1 from 0-4 feet bgs, further horizontal delineation was prohibited due to safety concerns in these areas for reclamation and revegetation purposes as stated in 19.15.29.13 NMAC (Reclamation Requirements). The excavation sidewall soil sample (SW-1) meets the applicable Site Closure Criteria for a release on a currently active facility utilized for the exploration, development, production, and/or storage for oil and gas operations per 19.15.29.12 NMAC (Remediation Requirements).

On December 16, 2024, Ensolum returned to the site to collect three composite soil samples from the excavation floor (FS-2, FS-3, and FS-6) at a depth of 4 feet bgs. During this time, parts of the open excavation in the vicinity of FS-1 and FS-2 were partially backfilled with clean caliche material due to the proximity of the excavation extent to the staged tank cited above to provide stability to the surrounding soils. Based on laboratory analytical data, additional excavation and/or remediation was required.

From March 5, 2025 through March 6, 2025, subsequent to additional excavation activities to further delineate vertically and horizontally, Ensolum and Dupree Energy LLC (Dupree) arrived on-Site to collect two composite soil samples from the partially backfilled excavation floor (FS-1 and FS-2) at a depth of 4-5 feet bgs utilizing a core drill. Additionally, one composite soil sample from the excavation sidewall (SW-3) was collected from 0-4 feet bgs.

During the core drill activities, 10 confirmation soil samples from five delineation soil sample locations (DS-1 through DS-5) were collected with the core drill at various depths ranging from 1-2 feet bgs to 4-5 feet bgs. 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 5 feet bgs based on the delineation activities for the two excavation floor samples (FS-1 and FS-2). Two samples from each 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.

On March 21, 2025, subsequent to additional excavation activities to further delineate vertically and horizontally, Ensolum arrived on-Site to collect two composite soil samples from the excavation floor (FS8 and FS9) from a depth of 4 feet bgs and one composite soil sample from the excavation sidewall (SW2 (formally SW-2)) at a depth of 0-4 feet bgs. Based on the laboratory analytical results, no additional excavation and/or remediation was required.

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, (MRO), 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 25 feet long and 8 feet wide at its minimum extents and 46 feet long and 38 feet wide at its maximum extents.

The excavation measured approximately 1,622 square feet in arial extent. A total of approximately 240 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 Twin Wells Caliche Pit and re-contoured to match pre-existing conditions.

The reclamation area for the tanks and the excavation floor soil sample locations that could not be excavated further due to structural integrity issues of the surrounding soils (FS-1 and FS-2) measured approximately 2,777 square feet in arial extent. A total of approximately 465 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 October 2, 2024 through March 21, 2025, included the collection of a total of 14 composite soil samples from nine locations from the excavation floor (FS-1 through FS-7, FS08 and FS09), six composite soil samples from four locations from the excavation sidewalls (SW-1, SW-2/SW2, SW-3 and SW-4), and 10 confirmation soil samples from five delineation soil sample locations (DS-1 through DS-5). Additionally, one composite soil sample was collected from the backfill material used at the Site (Twin Wells Caliche Pit) on September 9, 2024 prior to use at the Site.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH-GRO/DRO/MRO, and chloride concentrations to laboratory sample detection limits (SDLs) associated with the soils remaining in place at the Site to the applicable NMOCD Closure Criteria. The final composite soil samples collected from

the Remediation Zone were compared to the NMOCD Closure Criteria for Soils Impacted by a Release (Remediation Zone), while the final composite soil samples collected from the Reclamation Zone were compared to the NMOCD Closure Criteria for soils Impacted by a Release (Reclamation Zone).

- Laboratory analytical results indicated benzene concentrations for the soils remaining in place at the Site, and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the soils remaining in place at the Site and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated that the combined TPH-GRO/DRO concentrations for soils remaining in place at the Site in the Remediation Zone, with the exception of excavation floor soil samples FS-1 and FS-2, 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/MRO concentrations for the soils remaining in place at the Site in the Remediation Zone, with the exception of excavation floor soil samples FS-1 and FS-2 did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
 - Due to structural integrity concerns of the surrounding soils in the vicinity of excavation floor samples FS-1 and FS-2, these areas were partially backfilled for safety. Vertical delineation was achieved at 4-5 feet bgs utilizing a core drill. The additional foot, approximately 15 cy, of impacted soils will be removed once the pad has been decommissioned per the Reclamation Requirements.
- Laboratory analytical results indicated chloride concentrations for soils remaining in place at the Site in the Remediation Zone 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/MRO concentrations for the soils remaining in place at the Site in the Reclamation Zone 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 in the Reclamation Zone and the backfill material, with the exception of excavation sidewall soil samples SW-1, did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤50 feet.
 - The reclamation area for the tanks where excavation sidewall soil sample SW-1 is located measured approximately 2,432 square feet in arial extent. A total of approximately 450 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.

Laboratory analytical results are summarized in **Table 1**, **Table 2**, and **Table 3** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. A composite soil sample was collected from the backfill material used at the Site. The excavated area was backfilled with clean fill material and then contoured to the original surrounding grade. Since the release area was on an active facility pad in an area reasonably needed for production operations or for subsequent drilling operations, no reclamation or re-vegetation was required at this time per the Reclamation Requirements.

8.0 FINDINGS AND RECOMMENDATION

- On June 17, 2024, Oxy had a release of produced water and oil at the Site due to a clogged y-strainer causing a water tank to overflow. Approximately 9 bbls of produced water and 1 bbl of oil were released onto the ground surface on-pad within the earthen containment with 5 bbls of produced water and 0.5 bbls of oil recovered.
- Ensolum's soil sampling program from October 2, 2024 through March 21, 2025, included the collection of a total of 14 composite soil samples from nine locations from the excavation floor (FS-1 through FS-7, FS08 and FS09), six composite soil samples from four locations from the excavation sidewalls (SW-1, SW-2/SW2, SW-3 and SW-4), and 10 confirmation soil samples from five delineation soil sample locations (DS-1 through DS-5). Additionally, one composite soil sample was collected from the backfill material used at the Site (Twin Wells Caliche Pit) on September 9, 2024 prior to use at the Site.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance.
- The final excavation area measured approximately 25 feet long and 8 feet wide at its minimum extents and 46 feet long and 38 feet wide at its maximum extents.
- The excavation measured approximately 1,622 square feet in arial extent. A total of approximately 240 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.
- The reclamation area for the tanks and the excavation floor soil sample locations that could not be excavated further due to structural integrity issues of the surrounding soils (FS-1 and FS-2) measured approximately 2,777 square feet in arial extent. A total of approximately 465 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 within the impacted area 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 Twin Wells Caliche 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.

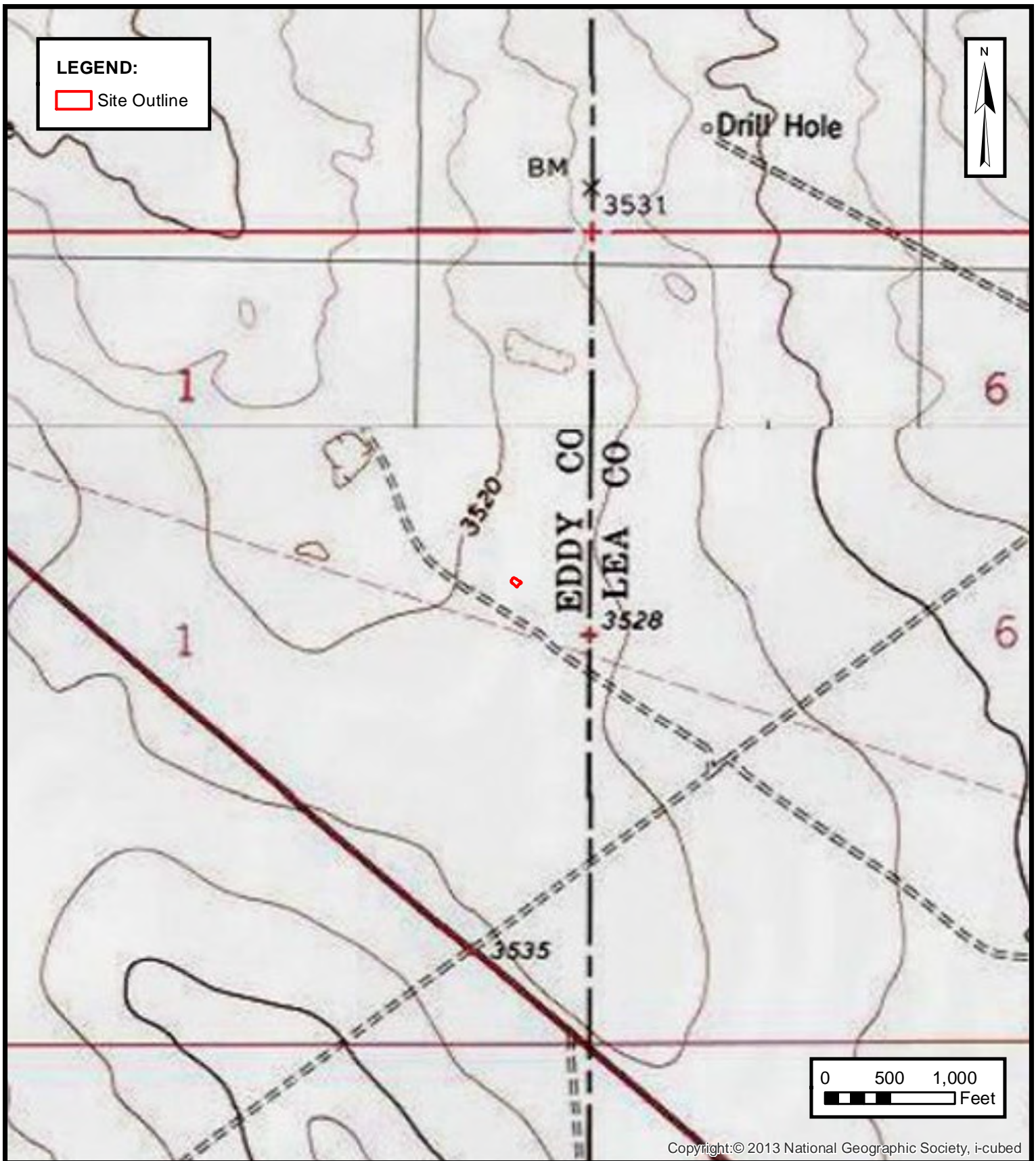
9.3 Reliance

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

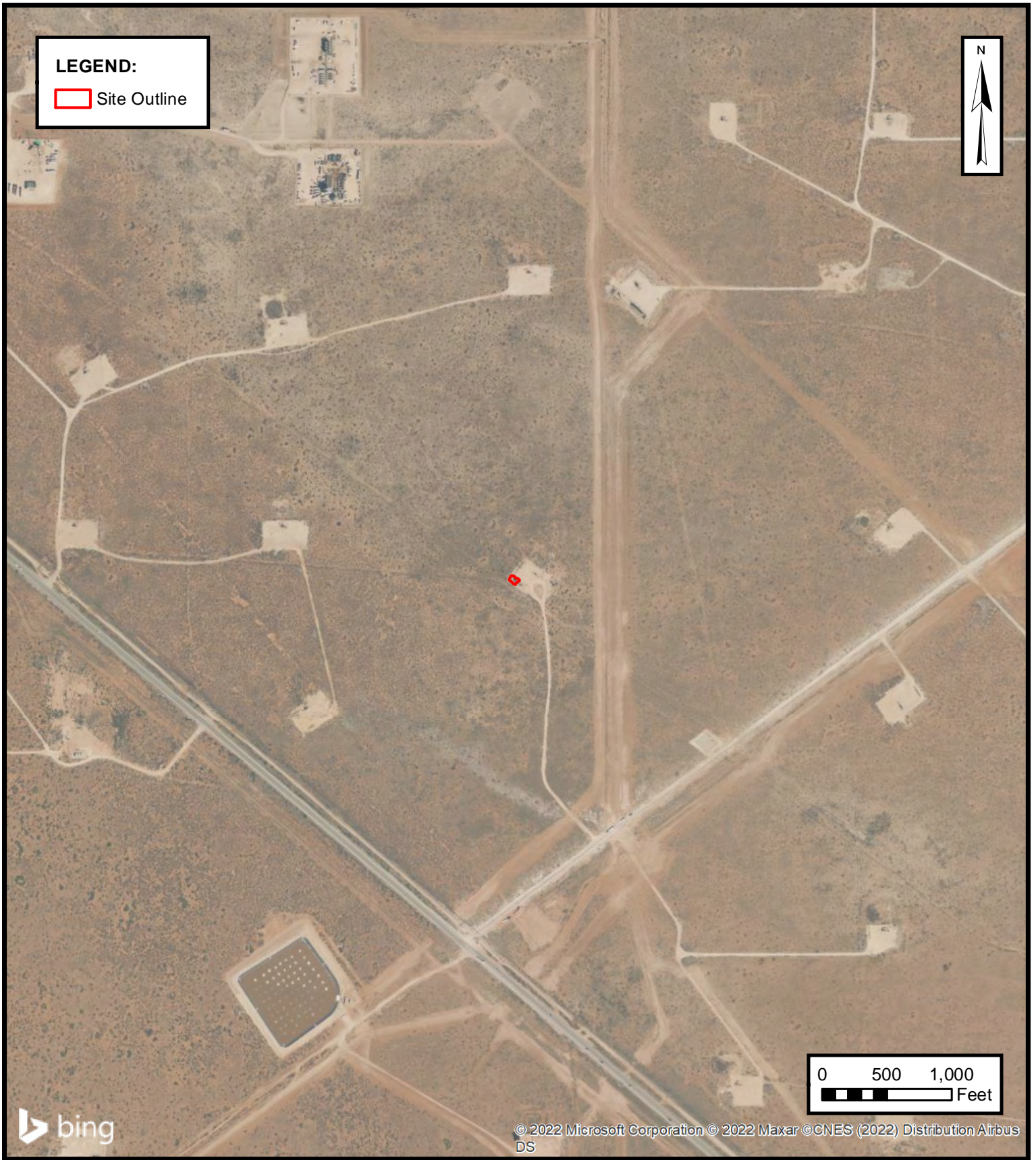
Figures

**TOPOGRAPHIC MAP**

OXY USA INC.
SUNDANCE 1 FED. #003 CTB
Eddy County, New Mexico
32.247225° N, 103.724495° W

PROJECT NUMBER: 03B1417202

FIGURE**1**



SITE VICINITY MAP

OXY USA INC.
SUNDANCE 1 FED. #003 CTB
Eddy County, New Mexico
32.247225° N, 103.724495° W

PROJECT NUMBER: 03B1417202

FIGURE

2

Legend

- Delineation Soil Sample Location
- Confirmation Soil Sample Location
- - - Electric Utility Line
- - - Oil and Gas Utility Line
- Surface Line
- - - Fence
- Earthen Berm
- Delineation Reclamation Extent
- Infrastructure
- Excavation Extent
- Soil Sample Grid Boundary



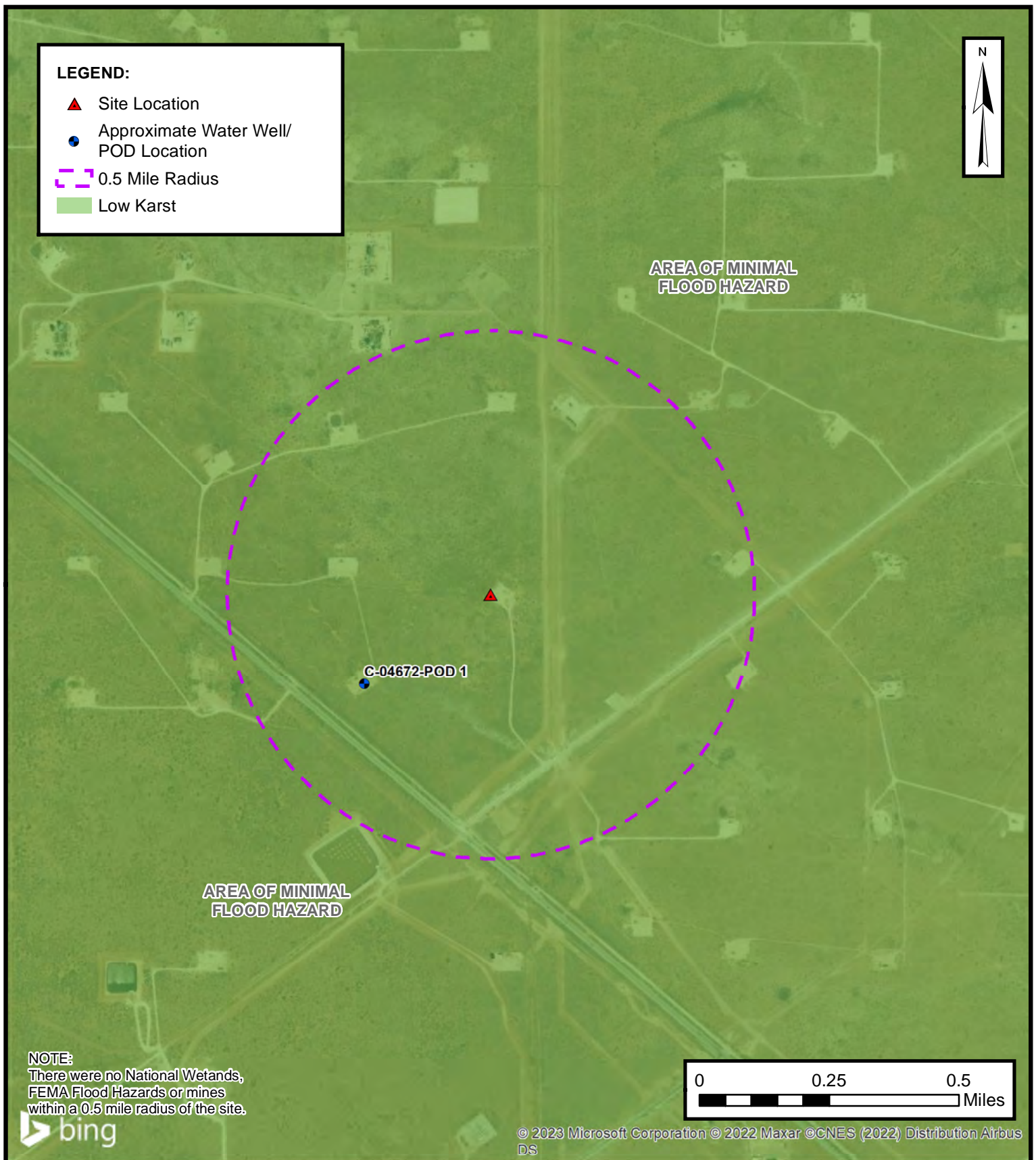
Site Map

Oxy USA Inc.
Sundance 1 Fed. #003 CTB
32.247225° N, 103.724495° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417202

FIGURE

3



CLOSURE CRITERIA MAP

OXY USA INC.
SUNDANCE 1 FED. #003 CTB
Eddy County, New Mexico
32.247225° N, 103.724495° W

PROJECT NUMBER: 03B1417202

FIGURE

4



APPENDIX B

Supporting Documentation

Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, September 17, 2024 10:07 AM
To: Kelly Lowery
Cc: Wade Dittrich; Tyson Pierce; Beaux Jennings; Wells, Shelly, EMNRD; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Extension Request: Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

[**EXTERNAL EMAIL**]

Good morning Kelly,

Thank you for the correspondence. Your 90-day time extension request is approved. Remediation Due date has been updated to December 16, 2024.

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
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, September 17, 2024 8:39 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Monday, September 16, 2024 3:32 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 <bjenning@ensolum.com>
Subject: [EXTERNAL] Extension Request: Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

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 Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409). Excavation activities are currently on-going at the Site but have been delayed due to scheduling challenges with personnel and contractors. We ask that you please approve this extension request for future sampling and subsequent reporting. Please let us know if you have any questions.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC



Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, December 16, 2024 10:33 AM
To: Kelly Lowery
Cc: Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject: Re: [EXTERNAL] Extension Request - Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

[**EXTERNAL EMAIL**]

Good morning Kelly,

Thank you for the correspondence. Your 90-day time extension is approved; however, in the future, your justification of "scheduling challenges with personnel and contractors" will require further details (e.g. what was the direct nature of the scheduling challenges with personnel and contractors). Remediation Due date has been updated to March 17, 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
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, December 16, 2024 7:23 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, December 13, 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 - Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

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 Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409). Excavation and remediation activities are currently on-going at the Site but have been delayed due to scheduling challenges with personnel and contractors. We ask that you please approve this extension request for future sampling and subsequent reporting. The Site characterization was uploaded to the NMOCD Portal on 6/26/2024. I have attached a Site Closure Criteria map along with the bore log for C-04672POD1, drilled on 9/1/2022, which is southwest of the site within 0.5-mile and with a total depth of 110' with no groundwater encountered.

Please let us know if you have any questions.

Thank you,



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

Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, March 19, 2025 10:23 AM
To: Kelly Lowery
Cc: Wade Dittrich; Jessica_Kent@oxy.com; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject: Re: [EXTERNAL] Extension Request - Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

[**EXTERNAL EMAIL**]

Good morning Kelly,

Thank you for the inquiry. Since the incident previously had a 90-day time extension request approved and the excavation nearly completed, a 60-day time extension is approved. Remediation Due date has been updated to May 16, 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
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, March 17, 2025 10:15 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Monday, March 17, 2025 10:06 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Kent, Jessica <Jessica_Kent@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request - Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409)

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


Good morning,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 90-day extension for the Sundance 1 Fed. #003 CTB (Incident ID: nAPP2417748409). Excavation activities are wrapping up this week, Friday March 21st, but were delayed due to issues with finding a marked subsurface line near the current excavation extent. Hand shoveling activities could not locate the line where it had been marked at the surface, so a new one call was needed for a hydrovac to properly locate and daylight said line so excavation activities could resume safely. The line has now been spotted and remarked.

With this in mind, we humbly ask that the NMOCD reviews and approves this request so we may stay within compliance and work towards closure of this Site.

Thank you,



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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04672 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04672			
	WELL OWNER NAME(S) OXY US INC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO BOX 4294				CITY HOUSTON	STATE TX	ZIP 77210	
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 14	SECONDS 41.51	N		
		LONGITUDE -103		43	43.43	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE PROXIMITY 31								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 09/01/2022		DRILLING ENDED 09/01/2022		DEPTH OF COMPLETED WELL (FT) 110	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				NO CASING IN HOLE				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

USE ON SEP 26 2022 PM 3:28

FOR OSE INTERNAL USE

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

FILE NO. C-4672	POD NO. 1	TRN NO. 134614
LOCATION 245.31E.01 214	WELL TAG ID NO.	PAGE 1 OF 2



Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 734614
File Nbr: C 04672
Well File Nbr: C 04672 POD 1

Oct. 04, 2022

BEAUX JENNINGS
ENSOLUM LLC
601 N. MARIENFELD ST SUITE 400
MIDLAND, TX 79701

Greetings:

The above numbered permit was issued in your name on 09/22/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/01/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/22/2023.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Vanessa Clements".

Vanessa Clements
(575) 622-6521

drywell

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 734614
File Nbr: C 04672
Well File Nbr: C 04672 POD 1

Oct. 04, 2022

WADE DITTRICH
OXY USA INC.
P.O. BOX 4294
HOUSTON, TX 77210

Greetings:

The above numbered permit was issued in your name on 09/22/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/01/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/22/2023.

If you have any questions, please feel free to contact us.

Sincerely,

Vanessa Clements
(575) 622-6521

drywell



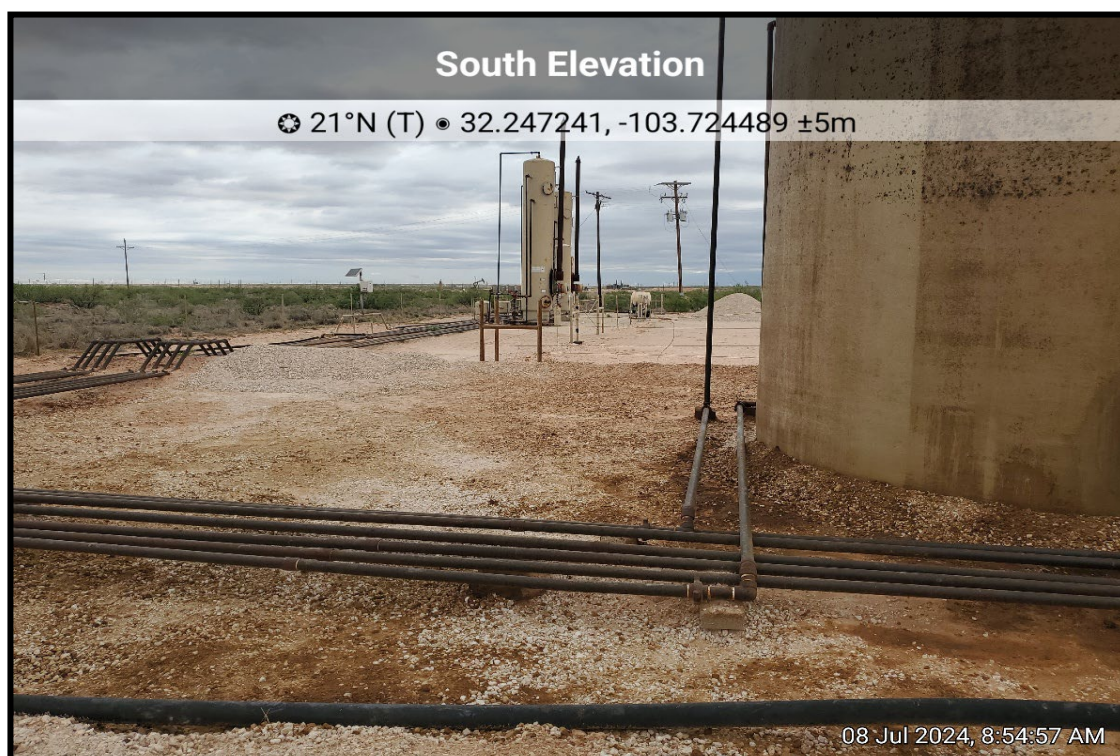
APPENDIX C

Photographic Documentation

Project: Sundance 1 Fed. #003 CTB
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP242417748409

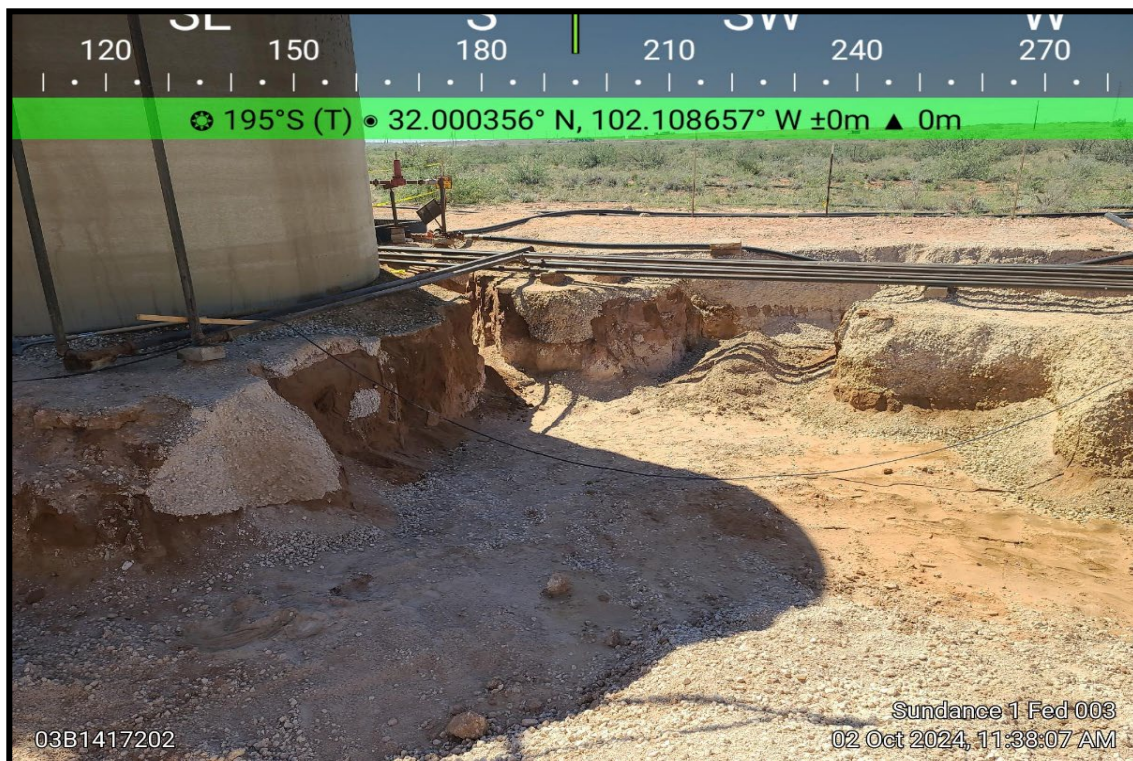


View of initial release extent, facing southwest (07/08/2024).



View of initial release extent, facing north (07/08/2024).

Project: Sundance 1 Fed. #003 CTB
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP242417748409



View of excavation extent, facing south (10/02/2024).

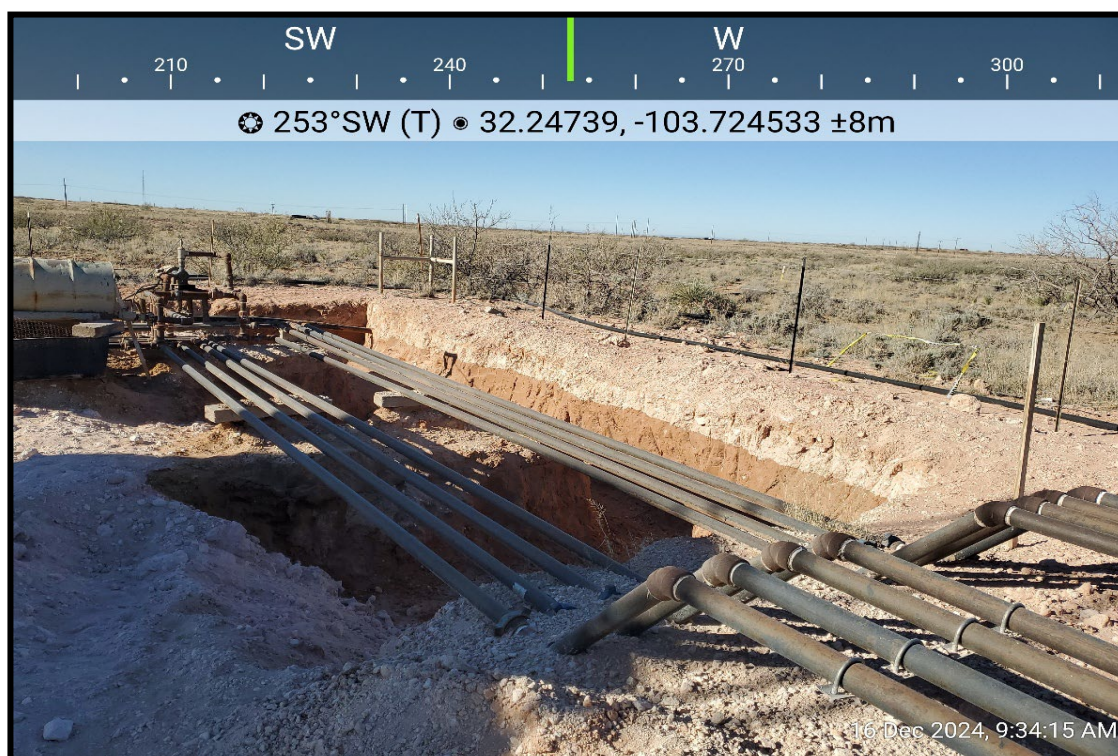


View of excavation extent, facing southwest (10/02/2024).

Project: Sundance 1 Fed. #003 CTB
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP242417748409



View of excavation extent, facing northeast (12/16/2024).

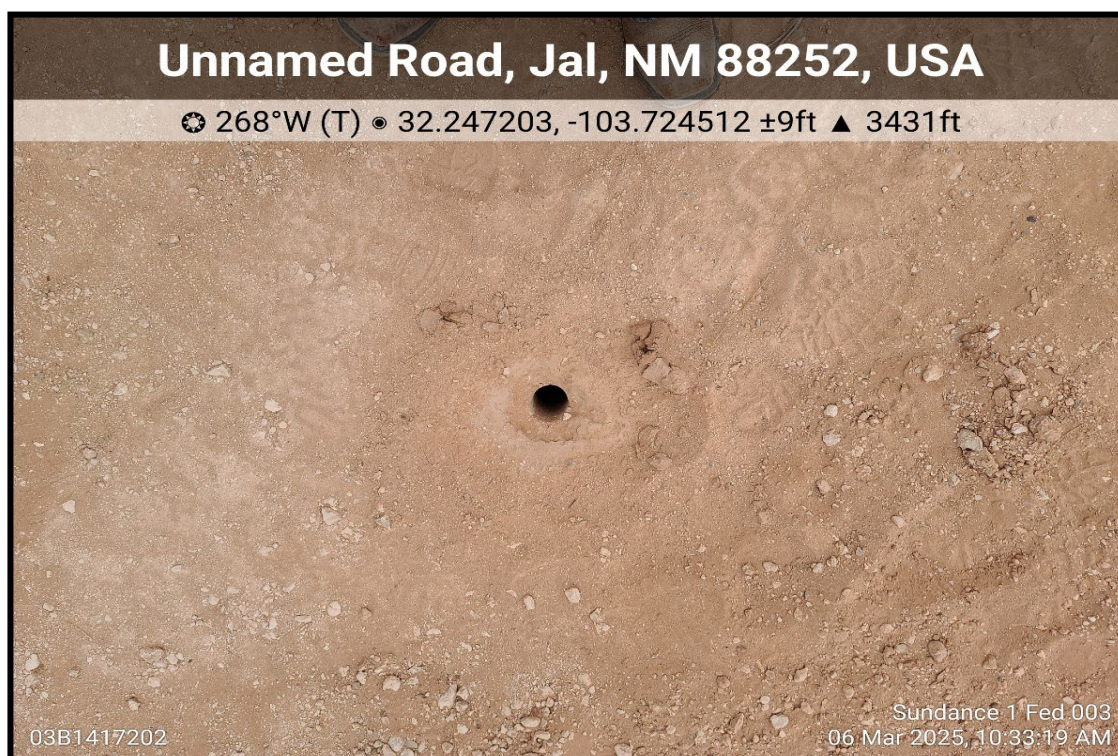


View of excavation extent, facing southwest (12/16/2024).

Project: Sundance 1 Fed. #003 CTB
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP242417748409



View of a delineation sample location, facing south (03/05/2025).

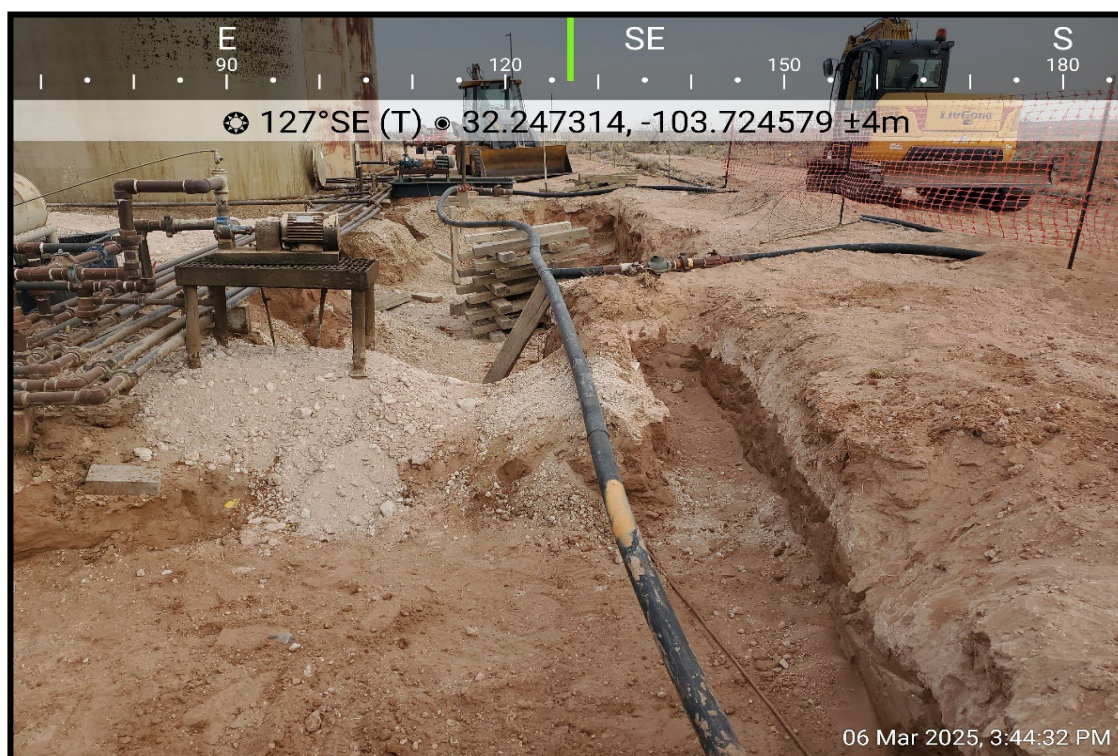


View of a delineation sample location, facing west (03/06/2025).

Project: Sundance 1 Fed. #003 CTB
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP242417748409



View of excavation extent, facing south (03/06/2025).



View of excavation extent, facing southeast (03/06/2025).

Project: Sundance 1 Fed. #003 CTB
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP242417748409

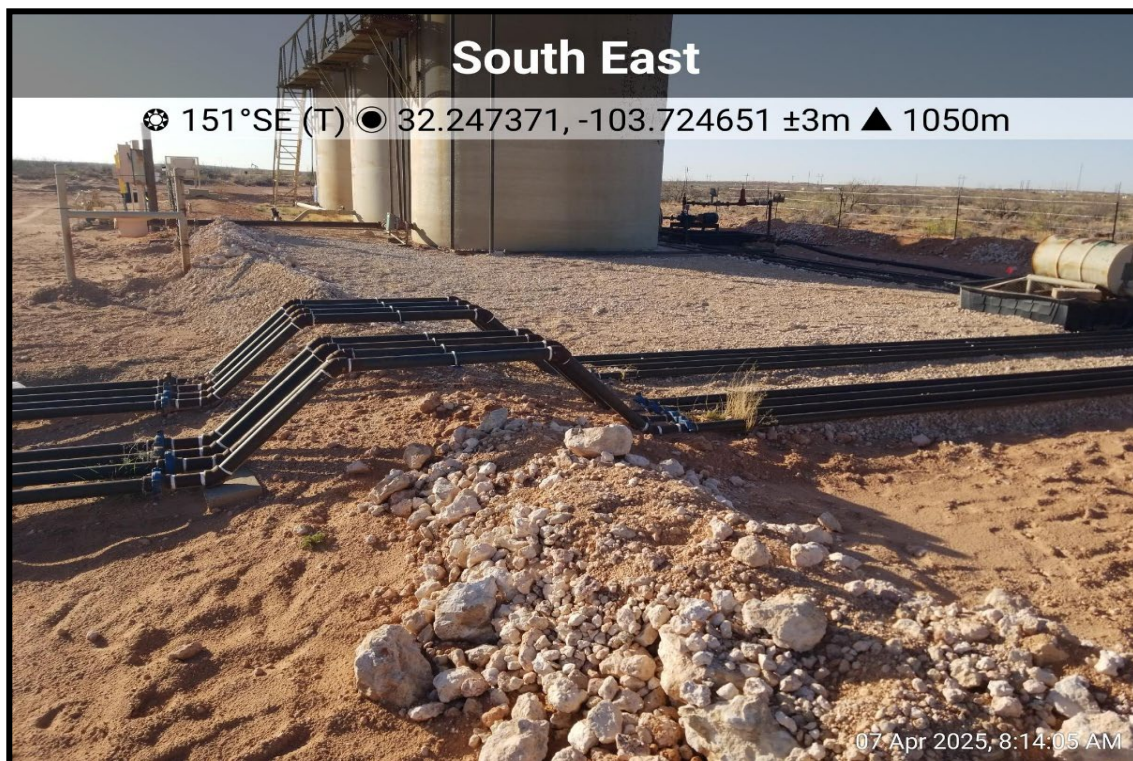


View of excavation extent, facing northwest (03/21/2025).

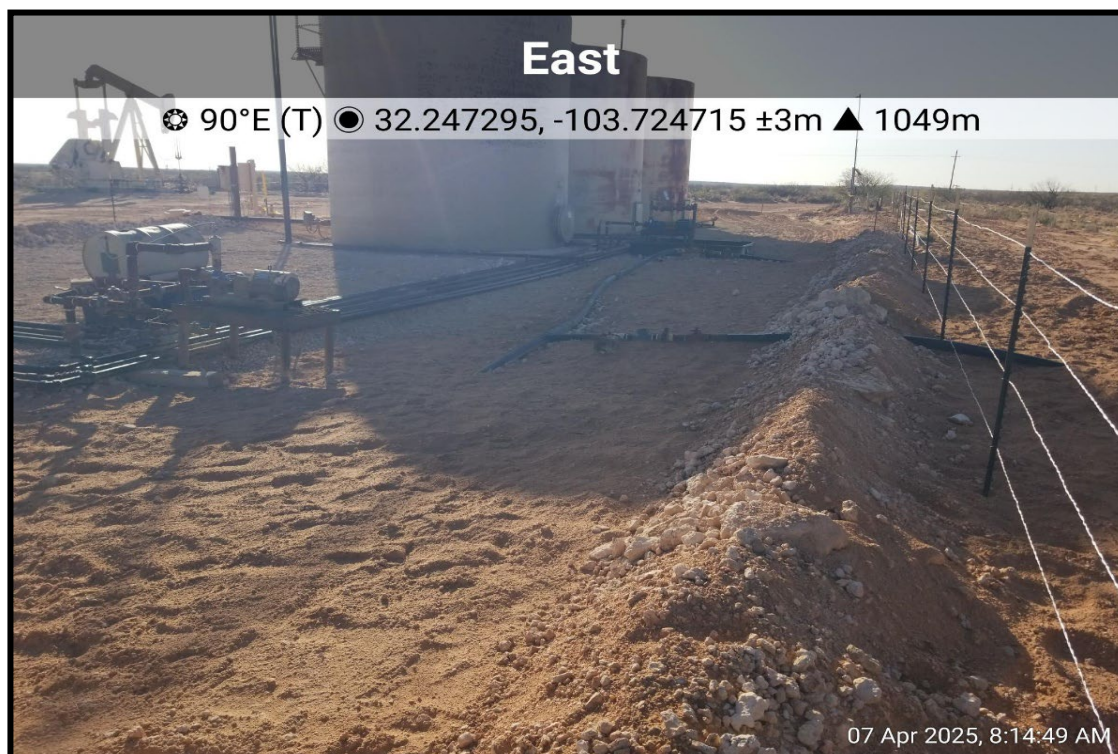


View of excavation extent, facing east (03/21/2025).

Project: Sundance 1 Fed. #003 CTB
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP242417748409



View of backfill extent, facing southeast (04/07/2025).



View of backfill extent, facing east (04/07/2025).



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
SUNDANCE 1 FED. #003 CTB
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	1,000	2,500	20,000
Confirmation Floor Soil Samples										
FS-1	10/02/2024	4	<0.050	<0.300	<10.0	1,760	495	1,760	2,255	10,800
	03/05/2025	4-5	<0.050	<0.300	<10.0	23.1	<10.0	23.1	23.1	256
FS-2	10/02/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	42,400
	12/16/2024	4	<0.050	<0.300	70.8	3,250	773	3,321	4,094	736
	03/05/2025	4-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,280
FS-3	10/02/2024	4	<0.050	7.16	266	12,400	3,460	12,666	16,126	3,200
	12/16/2024	4	<0.050	<0.300	<10.0	457	133	457	590	2,960
FS-4	10/02/2024	4	<0.050	<0.300	<10.0	15.8	<10.0	15.8	15.8	10,800
FS-5	10/02/2024	4	<0.050	<0.300	<10.0	387	117	387	504	6,200
FS-6	10/02/2024	4	<0.050	5.44	172	5,600	1,350	5,772	7,122	4,720
	12/16/2024	4	<0.050	<0.300	<10.0	80.4	15.5	80.4	95.9	1,100
FS-7	10/02/2024	4	<0.050	<0.300	<10.0	85.6	40.7	85.6	126	288
FS08	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,600
FS09	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
Confirmation Sidewall Soil Samples										
SW-1*	10/02/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,640
SW-2/SW2	10/02/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
	03/21/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW-3	10/02/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
	03/06/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW-4	10/02/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
SUNDANCE 1 FED. #003 CTB
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	1,000	2,500	20,000
Confirmation Delineation Soil Samples										
DS-1	03/05/2025	2-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	03/05/2025	4-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-2	03/05/2025	1-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	03/05/2025	4-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
DS-3	03/05/2025	3-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	03/05/2025	4-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DS-4	03/06/2025	3-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	03/06/2025	4-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DS-5	03/06/2025	1-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	03/06/2025	4-5	<0.050	<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.



TABLE 2
SOIL SAMPLE FIELD SCREENING RESULTS
SUNDANCE 1 FED. #003 CTB
OXY USA, INC.
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	PID (ppm)	PetroFLAG (ppm)	Chloride (mg/kg)
Confirmation Delineation Soil Samples					
DS-1	03/05/2025	0-1	0.1	NS	ND
		1-2	0.0	NS	ND
		2-3	0.3	NS	ND
		3-4	0.0	NS	ND
		4-5	0.1	0	ND
DS-2	03/05/2025	0-1	0.6	NS	ND
		1-2	0.8	15	ND
		2-3	0.1	NS	ND
		3-4	0.1	NS	280
		4-5	0.0	NS	240.8
DS-3	03/05/2025	0-1	0.0	NS	ND
		1-2	0.0	NS	ND
		2-3	0.0	NS	ND
		3-4	0.2	3	201.6
		4-5	0.0	NS	ND
DS-4	03/06/2025	0-1	0.4	NS	ND
		1-2	0.0	NS	ND
		2-3	0.2	NS	ND
		3-4	0.5	NS	ND
		4-5	0.8	62	ND
DS-5	03/06/2025	0-1	0.1	NS	ND
		1-2	0.9	28	ND
		2-3	0.5	NS	ND
		3-4	0.0	NS	ND
		4-5	1.8	40	ND

Notes:

bgs: below ground surface

ppm: parts per million

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

NMAC: New Mexico Administrative Code

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

PID: Photoionization Detector

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NS: Not Sampled

ND: Non-Detect

TABLE 3
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
TWIN WELLS CALICHE 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
Confirmation Background Soil Sample										
Twin Wells Caliche Pit	09/09/2024	NA	<0.050	<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

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

October 08, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SUNDANCE 1 FED #003 CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/03/24 10:55.

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.

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: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 1 4' (H246016-01)

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	10/04/2024	ND	2.16	108	2.00	5.29	
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98	
Total BTX	<0.300	0.300	10/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	10800	16.0	10/03/2024	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	10/04/2024	ND	195	97.6	200	3.31	
DRO >C10-C28*	1760	10.0	10/04/2024	ND	191	95.7	200	5.05	
EXT DRO >C28-C36	495	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 2 4' (H246016-02)

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	10/04/2024	ND	2.16	108	2.00	5.29		
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98		
Total BTEX	<0.300	0.300	10/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	42400	16.0	10/03/2024	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	10/04/2024	ND	195	97.6	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	191	95.7	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 3 4' (H246016-03)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2024	ND	2.16	108	2.00	5.29	
Toluene*	0.926	0.050	10/04/2024	ND	2.24	112	2.00	4.52	
Ethylbenzene*	1.09	0.050	10/04/2024	ND	2.27	114	2.00	4.13	GC-NC1
Total Xylenes*	5.14	0.150	10/04/2024	ND	6.87	115	6.00	3.98	GC-NC1
Total BTEX	7.16	0.300	10/04/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 229 % 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	3200	16.0	10/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	266	50.0	10/04/2024	ND	195	97.5	200	0.398	QM-07
DRO >C10-C28*	12400	50.0	10/04/2024	ND	167	83.3	200	5.42	QM-07, QR-03
EXT DRO >C28-C36	3460	50.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 275 % 49.1-148

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Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 4 4' (H246016-04)

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	10/04/2024	ND	2.16	108	2.00	5.29		
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98		
Total BTEX	<0.300	0.300	10/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	10/03/2024	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	10/04/2024	ND	195	97.5	200	0.398	
DRO >C10-C28*	15.8	10.0	10/04/2024	ND	167	83.3	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 5 4' (H246016-05)

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	10/04/2024	ND	2.16	108	2.00	5.29		
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98		
Total BTEX	<0.300	0.300	10/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6200	16.0	10/03/2024	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	10/04/2024	ND	195	97.5	200	0.398	
DRO >C10-C28*	387	10.0	10/04/2024	ND	167	83.3	200	5.42	
EXT DRO >C28-C36	117	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 6 4' (H246016-06)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2024	ND	2.16	108	2.00	5.29	
Toluene*	0.565	0.050	10/04/2024	ND	2.24	112	2.00	4.52	
Ethylbenzene*	0.950	0.050	10/04/2024	ND	2.27	114	2.00	4.13	GC-NC1
Total Xylenes*	3.93	0.150	10/04/2024	ND	6.87	115	6.00	3.98	GC-NC1
Total BTEx	5.44	0.300	10/04/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 179 % 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	4720	16.0	10/03/2024	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*	172	10.0	10/04/2024	ND	195	97.5	200	0.398	
DRO >C10-C28*	5600	10.0	10/04/2024	ND	167	83.3	200	5.42	
EXT DRO >C28-C36	1350	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 7 4' (H246016-07)

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	10/04/2024	ND	2.16	108	2.00	5.29		
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98		
Total BTEX	<0.300	0.300	10/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	288	16.0	10/03/2024	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	10/04/2024	ND	195	97.5	200	0.398	
DRO >C10-C28*	85.6	10.0	10/04/2024	ND	167	83.3	200	5.42	
EXT DRO >C28-C36	40.7	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 0-4' (H246016-08)

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	10/04/2024	ND	2.16	108	2.00	5.29		
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98		
Total BTEX	<0.300	0.300	10/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6640	16.0	10/03/2024	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	10/04/2024	ND	195	97.5	200	0.398	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	167	83.3	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 0-4' (H246016-09)

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	10/04/2024	ND	2.16	108	2.00	5.29		
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98		
Total BTEX	<0.300	0.300	10/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	10/03/2024	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	10/04/2024	ND	195	97.5	200	0.398	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	167	83.3	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 0-4' (H246016-10)

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	10/04/2024	ND	2.16	108	2.00	5.29	
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98	
Total BTX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	10/03/2024	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	10/04/2024	ND	195	97.5	200	0.398	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	167	83.3	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/08/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 0-4' (H246016-11)

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	10/04/2024	ND	2.16	108	2.00	5.29		
Toluene*	<0.050	0.050	10/04/2024	ND	2.24	112	2.00	4.52		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.27	114	2.00	4.13		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.87	115	6.00	3.98		
Total BTEX	<0.300	0.300	10/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	10/03/2024	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	10/04/2024	ND	195	97.5	200	0.398	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	167	83.3	200	5.42	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

Cardinal Laboratories

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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

FORM-006 R 3.2 10/07/21

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

[illegible]



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

December 31, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SUNDANCE 1 FED #003 CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/17/24 13:48.

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.

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: 12/17/2024
 Reported: 12/31/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 12/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 2 4 (H247610-01)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	0.274	0.150	12/31/2024	ND	6.41	107	6.00	0.440	GC-NC1
Total BTEX	<0.300	0.300	12/31/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 138 % 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	736	16.0	12/18/2024	ND	416	104	400	7.41	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	70.8	10.0	12/31/2024	ND	233	117	200	2.08	
DRO >C10-C28*	3250	10.0	12/31/2024	ND	214	107	200	2.69	
EXT DRO >C28-C36	773	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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: 12/17/2024
 Reported: 12/31/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 12/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 3 4 (H247610-02)

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	12/31/2024	ND	1.90	94.9	2.00	4.27		
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11		
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512		
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519		
Total BTEX	<0.300	0.300	12/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	2960	16.0	12/31/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2024	ND	198	99.0	200	5.66	
DRO >C10-C28*	457	10.0	12/17/2024	ND	212	106	200	12.3	
EXT DRO >C28-C36	133	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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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: 12/17/2024
 Reported: 12/31/2024
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 12/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 6 4 (H247610-03)

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	12/31/2024	ND	1.90	94.9	2.00	4.27		
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11		
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512		
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519		
Total BTEX	<0.300	0.300	12/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	1100	16.0	12/31/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2024	ND	198	99.0	200	5.66	
DRO >C10-C28*	80.4	10.0	12/17/2024	ND	212	106	200	12.3	
EXT DRO >C28-C36	15.5	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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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

Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

[illegible]

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



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

March 10, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SUNDANCE 1 FED #003 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/07/25 13:58.

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

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/06/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 03 0-4' (H251371-01)

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	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTX	<0.300	0.300	03/07/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 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

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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



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

March 10, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SUNDANCE 1 FED #003 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/07/25 13:58.

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

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 1 2-3' (H251372-01)

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	03/07/2025	ND	2.11	105	2.00	2.13	
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86	
Total BTX	<0.300	0.300	03/07/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/10/2025	ND	400	100	400	18.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 1 4-5' (H251372-02)

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	03/07/2025	ND	2.11	105	2.00	2.13		
Toluene*	<0.050	0.050	03/07/2025	ND	2.15	108	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.17	108	2.00	2.16		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	2.86		
Total BTX	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 123 % 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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 2 1-2' (H251372-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEX	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 2 4-5' (H251372-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEX	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 127 % 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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 3 3-4' (H251372-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEx	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/10/2025	ND	400	100	400	18.2		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 123 % 40.6-153

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Analytical Results For:

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

Received: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 3 4-5' (H251372-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEX	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/10/2025	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	03/08/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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Analytical Results For:

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

Received: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/06/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 4 3-4' (H251372-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/10/2025	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	03/08/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/06/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 4 4-5' (H251372-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEX	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/10/2025	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	03/08/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/06/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 5 1-2' (H251372-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEx	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/10/2025	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	03/08/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/06/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS - 5 4-5' (H251372-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEX	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/10/2025	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	03/08/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	<10.0	10.0	03/08/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

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

Cardinal Laboratories

*=Accredited Analyte

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

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

10 of 1

Page 13 of 13

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Relinquished By: <i>M. Jones</i>		Date: <i>03/17/25</i>		Received By: <i>A. Jones</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: <i>1358</i>		Date:		All Results are emailed. Please provide Email address: <i>klawny@pensolm.com</i>	
		Time:		Received By:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C <i>35-</i>		Sample Condition Cool Intact		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>38-</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <i>AD</i> Thermometer ID #140 Correction Factor +0.3°C	
FORM-006 R 3.0 02/12/23						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No 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

March 10, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SUNDANCE 1 FED #003 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/07/25 13:58.

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

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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 1 4-5' (H251373-01)

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	03/07/2025	ND	1.98	99.2	2.00	1.62	
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02	
Total BTX	<0.300	0.300	03/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	256	16.0	03/10/2025	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	03/08/2025	ND	194	97.1	200	0.892	
DRO >C10-C28*	23.1	10.0	03/08/2025	ND	195	97.4	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/08/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 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: 03/07/2025
 Reported: 03/10/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 2 4-5' (H251373-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.98	99.2	2.00	1.62		
Toluene*	<0.050	0.050	03/07/2025	ND	2.30	115	2.00	1.56		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.32	116	2.00	3.34		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	7.23	121	6.00	3.02		
Total BTEx	<0.300	0.300	03/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	03/10/2025	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	03/07/2025	ND	210	105	200	5.06	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	200	100	200	6.56	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 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

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

Cardinal Laboratories

*=Accredited Analyte

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

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>Ensolum LLC</u>				BILL TO				ANALYSIS REQUEST														
Project Manager: <u>Kelly Lowery</u>				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> TPH 8015 BTEX 8021 Chlorides 4500 </div> <div style="width: 60%;"></div> </div>														
Address: <u>601 Marlenfeld 400</u>				Company: <u>Oxy</u>																		
City: <u>MIDLAND</u> State: <u>TX</u> Zip: <u>79701</u>				Attn: <u>Wade Derrick</u>																		
Phone #: <u>0381417202</u> Fax #:				Address:																		
Project #: <u>0381417202</u> Project Owner: <u>OXY</u>				City:																		
Project Name: <u>Sundance 1 Fed 003 CTB</u>				State: Zip:																		
Project Location: <u>Eddy Co NM</u>				Phone #:																		
Sampler Name: <u>Nicholas Christaller / Keona Sharma</u>				Fax #:																		
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING										
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME							
<u>H251373</u>	<u>FS-1</u>	<u>4-5</u>	<u>C1</u>				<u>X</u>				<u>X</u>	<u>✓</u>		<u>3-5-25</u>	<u>1008</u>	<u>X</u>	<u>X</u>	<u>X</u>				
<u>2</u>	<u>FS-2</u>	<u>4-5</u>	<u>C1</u>				<u>X</u>				<u>X</u>			<u>3-5-25</u>	<u>1125</u>	<u>X</u>	<u>X</u>	<u>X</u>				
 NFE 3-6-25 																						

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Relinquished By: <u>Nicholas Christaller</u>		Date: <u>03/17/25</u>	Received By: <u>Keona Sharma</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1358</u>			Time:		All Results are emailed. Please provide Email address: <u>Klowery@ensolum.com</u>	
Relinquished By:		Date:	Received By:		REMARKS:	
Time:						
Delivered By: (Circle One)		Observed Temp. °C <u>35.0</u>	Sample Condition		CHECKED BY: (Initials) <u>AP</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>38.0</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Turnaround Time: <u>24 Hr</u>	
			<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input 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



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

March 24, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SUNDANCE 1 FED #003 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 16:34.

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.

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: 03/21/2025
 Reported: 03/24/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 0-4' (H251691-01)

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	03/22/2025	ND	1.95	97.4	2.00	0.754	
Toluene*	<0.050	0.050	03/22/2025	ND	2.07	104	2.00	1.79	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.27	113	2.00	3.10	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.96	116	6.00	3.02	
Total BTX	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	464	16.0	03/24/2025	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	03/22/2025	ND	210	105	200	5.78	
DRO >C10-C28*	<10.0	10.0	03/22/2025	ND	208	104	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/22/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 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: 03/21/2025
 Reported: 03/24/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 4' (H251691-02)

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	03/22/2025	ND	1.95	97.4	2.00	0.754		
Toluene*	<0.050	0.050	03/22/2025	ND	2.07	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.27	113	2.00	3.10		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.96	116	6.00	3.02		
Total BTX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	03/24/2025	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	03/22/2025	ND	210	105	200	5.78	
DRO >C10-C28*	<10.0	10.0	03/22/2025	ND	208	104	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/22/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/24/2025
 Project Name: SUNDANCE 1 FED #003 CTB
 Project Number: 03B1417202
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 09 4' (H251691-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	1.95	97.4	2.00	0.754		
Toluene*	<0.050	0.050	03/22/2025	ND	2.07	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.27	113	2.00	3.10		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.96	116	6.00	3.02		
Total BTEx	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/24/2025	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	03/22/2025	ND	210	105	200	5.78	
DRO >C10-C28*	<10.0	10.0	03/22/2025	ND	208	104	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/22/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																																																																																																																			
Project Manager: Kelly Lowery				P.O. #:				<div style="text-align: center;"> <p><i>NE NFE</i></p> <p><i>03/21/25</i></p> </div>																																																																																																																			
Address: 601 N. Marienfeld St. STE 400				Company: OXY USA, Inc.																																																																																																																							
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich																																																																																																																							
Phone #: 214-733-3165 Email: klowery@ensolum.com				Address:																																																																																																																							
Project #: 03B1417202 Project Owner				City:																																																																																																																							
Project Name: Sundance 1 Fed. #003 CTB				State: Zip:																																																																																																																							
Project Location: 32.247225, -103.724495				Phone #:																																																																																																																							
Sampler Name: Kaoru Shimada, Nicholas Christakos				Email:																																																																																																																							
<table border="1"> <thead> <tr> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">Sample Depth (feet)</th> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="5">MATRIX</th> <th>PRESERV.</th> <th colspan="2">SAMPLING</th> <th rowspan="2">BTEX 8021 B</th> <th rowspan="2">TPH 8015 M</th> <th rowspan="2">Chloride 4500</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td><i>H251071</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>1</i></td> <td><i>SW2</i></td> <td><i>0-4"</i></td> <td><i>C</i></td> <td><i>1</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>03/21/25</i></td> <td><i>14:27</i></td> <td><i>✓</i></td> <td><i>✓</i></td> </tr> <tr> <td><i>2</i></td> <td><i>FS03</i></td> <td><i>4"</i></td> <td><i>C</i></td> <td><i>1</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>03/21/25</i></td> <td><i>14:50</i></td> <td><i>✓</i></td> <td><i>✓</i></td> </tr> <tr> <td><i>3</i></td> <td><i>FS04</i></td> <td><i>4"</i></td> <td><i>C</i></td> <td><i>1</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>03/21/25</i></td> <td><i>14:51</i></td> <td><i>✓</i></td> <td><i>✓</i></td> </tr> <tr> <td colspan="17" style="text-align: center;"><i>NE NFE 03/21/25</i></td> </tr> </tbody> </table>												Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		BTEX 8021 B	TPH 8015 M	Chloride 4500	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	<i>H251071</i>																	<i>1</i>	<i>SW2</i>	<i>0-4"</i>	<i>C</i>	<i>1</i>									<i>03/21/25</i>	<i>14:27</i>	<i>✓</i>	<i>✓</i>	<i>2</i>	<i>FS03</i>	<i>4"</i>	<i>C</i>	<i>1</i>									<i>03/21/25</i>	<i>14:50</i>	<i>✓</i>	<i>✓</i>	<i>3</i>	<i>FS04</i>	<i>4"</i>	<i>C</i>	<i>1</i>									<i>03/21/25</i>	<i>14:51</i>	<i>✓</i>	<i>✓</i>	<i>NE NFE 03/21/25</i>																
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Relinquished By: <i>Nicholas Christakos</i>	Date: <i>3-21-25</i> Time: <i>1:03 PM</i>	Received By: <i>S. Rodriguez</i>	Verbal Result: <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) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C <i>1.00</i> <i>1.90</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>	CHECKED BY: (Initials) <i>SR</i>	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
				Thermometer ID: <i>#113</i> Correction Factor: <i>-0.5°C</i> <i>10.3</i>

FORM-006 R 3.2 10/07/21

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



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

September 18, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TWIN WELLS CALICHE PIT

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

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TWIN WELLS CALICHE PIT
Project Number: 03B1417156
Project Manager: KELLY LOWERY
Fax To:

Reported:
18-Sep-24 09:06

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
-----------	---------------	--------	--------------	---------------

TWIN WELLS CALICHE PIT	H245437-01	Soil	09-Sep-24 14:00	09-Sep-24 15:16
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09/18/24 - Client added BTEX and TPH to sample (see COC). This is the revised report and will replace the one sent on 09/12/24.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: TWIN WELLS CALICHE PIT
Project Number: 03B1417156
Project Manager: KELLY LOWERY
Fax To:

Reported:
18-Sep-24 09:06

TWIN WELLS CALICHE PIT
H245437-01 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	4091017	CT	10-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091601	JH	16-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091601	JH	16-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091601	JH	16-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091601	JH	16-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091601	JH	16-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.1 %	71.5-134		4091601	JH	16-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091609	MS	16-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091609	MS	16-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091609	MS	16-Sep-24	8015B	

Surrogate: 1-Chlorooctane			77.2 %	48.2-134		4091609	MS	16-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			79.7 %	49.1-148		4091609	MS	16-Sep-24	8015B	
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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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TWIN WELLS CALICHE PIT
Project Number: 03B1417156
Project Manager: KELLY LOWERY
Fax To:

Reported:
18-Sep-24 09:06

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4091017 - 1:4 DI Water									
Blank (4091017-BLK1)					Prepared & Analyzed: 10-Sep-24				
Chloride	ND	16.0	mg/kg						
LCS (4091017-BS1)					Prepared & Analyzed: 10-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120		
LCS Dup (4091017-BSD1)					Prepared & Analyzed: 10-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20

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Analytical Results For:

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

Project: TWIN WELLS CALICHE PIT
Project Number: 03B1417156
Project Manager: KELLY LOWERY
Fax To:

Reported:
18-Sep-24 09:06

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4091601 - Volatiles**Blank (4091601-BLK1)**

Prepared & Analyzed: 16-Sep-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.0	71.5-134			

LCS (4091601-BS1)

Prepared & Analyzed: 16-Sep-24

Benzene	2.16	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.12	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128			
m,p-Xylene	4.29	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.40	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.5	71.5-134			

LCS Dup (4091601-BSD1)

Prepared & Analyzed: 16-Sep-24

Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130	2.64	15.8	
Toluene	2.06	0.050	mg/kg	2.00		103	86-128	3.12	15.9	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	85.9-128	3.13	16	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89-129	3.21	16.2	
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125	3.27	16.7	
Total Xylenes	6.19	0.150	mg/kg	6.00		103	88.2-128	3.23	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.8	71.5-134			

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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
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TWIN WELLS CALICHE PIT
Project Number: 03B1417156
Project Manager: KELLY LOWERY
Fax To:

Reported:
18-Sep-24 09:06

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4091609 - General Prep - Organics**Blank (4091609-BLK1)**

Prepared & Analyzed: 16-Sep-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.5		mg/kg	50.0		87.0	48.2-134			
Surrogate: 1-Chlorooctadecane	46.0		mg/kg	50.0		92.1	49.1-148			

LCS (4091609-BS1)

Prepared & Analyzed: 16-Sep-24

GRO C6-C10	199	10.0	mg/kg	200		99.5	66.4-123			
DRO >C10-C28	190	10.0	mg/kg	200		95.1	66.5-118			
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	77.6-123			
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	48.2-134			
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.4	49.1-148			

LCS Dup (4091609-BSD1)

Prepared & Analyzed: 16-Sep-24

GRO C6-C10	174	10.0	mg/kg	200		86.8	66.4-123	13.6	17.7	
DRO >C10-C28	160	10.0	mg/kg	200		79.9	66.5-118	17.3	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.4	77.6-123	15.4	18.5	
Surrogate: 1-Chlorooctane	38.2		mg/kg	50.0		76.5	48.2-134			
Surrogate: 1-Chlorooctadecane	41.4		mg/kg	50.0		82.9	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

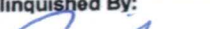

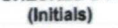


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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date:	Received By:	Verbal Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Date:		All Results are emailed. Please provide Email address:		
		Time:		B.Jennings@ensolum.com / Klowery@ensolum.com		
Relinquished By:		Date:	Received By:	REMARKS:		
		Time:		* Cust. added analysis - to 9/13/24		
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	(Initials)	Thermometer ID #113		Cool <input type="checkbox"/> Intact <input type="checkbox"/>
		Yes <input type="checkbox"/> No <input type="checkbox"/>		Correction Factor -0.5°C		Yes <input type="checkbox"/> No <input type="checkbox"/>
						Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

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Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS

Action 464451

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464451
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417748409
Incident Name	NAPP2417748409 SUNDANCE 1 FEDERAL #003 CTB @ 30-015-28120
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-28120] SUNDANCE 1 FEDERAL #003

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	SUNDANCE 1 FEDERAL #003 CTB
Date Release Discovered	06/17/2024
Surface Owner	Federal

Incident Details <i>Please answer all the questions in this group.</i>	
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 <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Water Tank Crude Oil Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Water Tank Produced Water Released: 9 BBL Recovered: 5 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 464451

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464451
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	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	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/26/2024
--	---

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QUESTIONS, Page 3

Action 464451

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464451
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 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

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	42400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16126
GRO+DRO (EPA SW-846 Method 8015M)	12666
BTEX (EPA SW-846 Method 8021B or 8260B)	7.2
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	10/02/2024
On what date will (or did) the final sampling or liner inspection occur	03/21/2025
On what date will (or was) the remediation complete(d)	03/21/2025
What is the estimated surface area (in square feet) that will be reclaimed	4399
What is the estimated volume (in cubic yards) that will be reclaimed	705
What is the estimated surface area (in square feet) that will be remediated	1622
What is the estimated volume (in cubic yards) that will be remediated	240

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

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

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QUESTIONS, Page 4

Action 464451

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464451
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: 05/19/2025
<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 464451

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464451
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 464451

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464451
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	443906
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/21/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

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	1622
What was the total volume (cubic yards) remediated	240
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	1622
What was the total volume (in cubic yards) reclaimed	240
Summarize any additional remediation activities not included by answers (above)	N/A
<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: 05/19/2025

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QUESTIONS, Page 7

Action 464451

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464451
	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 464451

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
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CONDITIONS

Created By	Condition	Condition Date
nvez	None	7/8/2025