



August 6, 2025

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Reclamation Report
Mesa Verde 18 CTB
Incident Number nAPP2409552342
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared the following *Reclamation Report* for the Mesa Verde 18 CTB (Site). This *Reclamation Report* documents the Site history, reclamation activities completed to date, and proposes a vegetation monitoring plan.

BACKGROUND

The Site is located in Unit F, Section 17, Township 24 South, Range 32 East, in Lea County, New Mexico (32.220935°, -103.699223°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 3, 2024, a leak on a 12-inch wheel valve from a steel flowline resulted in the release of 20 barrels (bbls) of produced water into the surrounding pasture. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 15 bbls of produced water were recovered. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Notification of Release (NOR) Form on April 4, 2024. The release was assigned Incident Number nAPP2409552342.

Delineation and excavation of impacted soil was completed at the Site between August 2024 and September 2024. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on December 30, 2024. The NMOCD approved the *Closure Request* on March 20, 2025. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request*, included as an attachment to this report. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

RECLAMATION ACTIVITIES

The excavation areas measured approximately 4,487 square feet. A total of approximately 652 cubic yards of impacted soil were removed during the excavation activities. Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation areas were backfilled with locally procured topsoil and the disturbed area was restored to its original condition. The release extent,

Oxy USA, Inc.
Reclamation Report
Mesa Verde 18 CTB

excavation extents, and reclamation area are shown on the attached Figure 1. Photographic documentation of the backfilled excavation was completed, and a photographic log is included as Appendix A.

One representative 5-point composite sample (BS01) was collected from the topsoil backfill material on June 12, 2025. The backfill soil sample was transported under strict chain-of-custody procedures to Cardinal Laboratories in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): total petroleum hydrocarbons (TPH)—gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500.

Laboratory analytical results for the backfill soil sample confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg) and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix B.

The reclaimed area was seeded on July 29, 2025, with the below BLM seed mixture #2 for sandy sites. The seed was applied with a broadcast seed spreader at double the rate specified in pounds of pure live seed (PLS) per acre to account for the application method.

Species/Cultivar	PLS/Acre
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

Following broadcast seeding, the area was chained to cover the seed. Photographs of the backfilled excavation and seeding of the reclaimed area are provided in Appendix A.

VEGETATION MONITORING

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

- Annual inspections will take place at the location to monitor for revegetation progress.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD and BLM once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

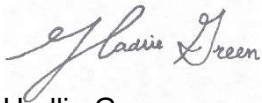
RECLAMATION APPROVAL REQUEST

Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, Oxy respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident nAPP2409552342.

Oxy USA, Inc.
Reclamation Report
Mesa Verde 18 CTB

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Aimee Cole
Senior Managing Scientist

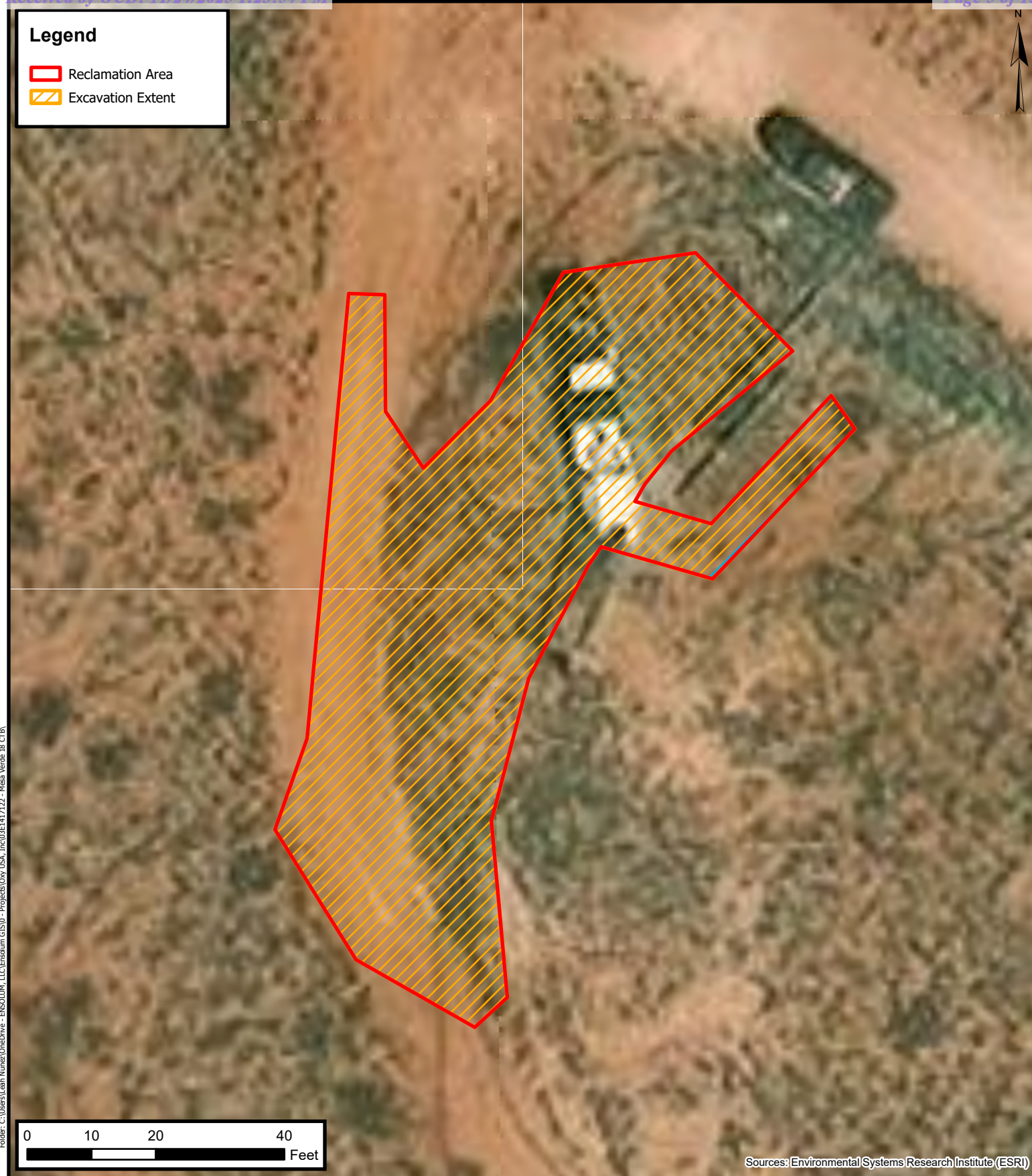
cc: Jessica Kent, Oxy USA Inc.
Bureau of Land Management

Appendices:

Figure 1	Reclamation Area
Table 1	Backfill Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Laboratory Analytical Report & Chain of Custody Documentation
Appendix C	December 30, 2024, <i>Closure Request</i>



FIGURES



Reclamation Area

Oxy USA Inc.
Mesa Verde 18 CTB
Incident Number: nAPP2409552342
Unit F, Section 17, T 24S, R 32E
Lea County, New Mexico

FIGURE
1



TABLES



TABLE 1
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
 Mesa Verde 18 CTB
 Oxy USA Inc.
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	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 I Closure Criteria (NMAC 19.15.29)			NE	NE	NE	NE	100	600
Backfill Soil Sample								
BS01	6/12/2025	NA	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:*bgs: below ground surface**mg/kg: milligrams per kilogram**NE: Not Established**NA: Not Applicable**NMOCD: New Mexico Oil Conservation Division**GRO: Gasoline Range Organics**DRO: Diesel Range Organics**ORO: Oil Range Organics**TPH: Total Petroleum Hydrocarbon*



APPENDIX A

Photographic Log

Project: Mesa Verde 18 CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2409552342



View of excavation extent post backfill activities, facing east (December 26, 2024).



View of excavation extent post backfill activities, facing northeast (December 26, 2024).

**Photographic Log**

Oxy USA Inc.

Mesa Verde 18 CTB

Incident Number nAPP2409552342



Photograph: 1 Date: 6/12/2025
Description: Site overview during backfill sampling
View: Southwest



Photograph: 2 Date: 7/29/2025
Description: Reseeding activities
View: Southwest



Photograph: 3 Date: 7/29/2025
Description: Reseeding activities
View: Southwest



Photograph: 4 Date: 7/29/2025
Description: Reseeding activities
View: South



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 20, 2025

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA VERDE 18 CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/16/25 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: MESA VERDE 18 CTB
 Project Number: 03E1417122
 Project Location: OXY 32.220935, -103.699223

Sampling Date: 06/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BS 01 0 (H253561-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/17/2025	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2025	ND	207	104	200	3.34	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	193	96.7	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					
Surrogate: 1-Chlorooctane		117 %	44.4-145						
Surrogate: 1-Chlorooctadecane		110 %	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

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 3122 National Parks Hwy.

City: Carlsbad **State:** NM **Zip:** 88220

Phone #: 844-500-7775 **Fax #:**

Project #: 03E1417122 **Project Owner:** Oxy USA

Project Name: Mesa Verde 18 CTB

Project Location: 32.220935, -103.699223

Sample Name: Bowman Simmons

P.O. #:

Company: Ensolum, LLC

Attn: Aimee Cole

Address: 3122 National Parks Hwy.

City: Carlsbad **State:** NM **Zip:** 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CHLORIDE	TPH
1	BS01	0	C	1										6/12/25	13:58		

Relinquished By: *[Signature]* **Date:** 6/11/25 **Received By:** *[Signature]* **Date:** 6/12/25

Relinquished By: *[Signature]* **Date:** 6/11/25 **Received By:** *[Signature]* **Date:** 6/12/25

Delivered By: (Circle One) **Observed Temp. °C:** 30.5 **Corrected Temp. °C:** 29.7 **Sample Condition:** Cool Intact **Checked By:** *[Signature]*

Sampler - UPS - Bus - Other: **Turnaround Time:** 24-48 hrs **Standard Rush** **Bacteria (only) Sample Condition:** Cool Intact **Observed Temp. °C:** **Corrected Temp. °C:**

REMARKS:

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

All Results are emailed. Please provide Email address: ACole@ensolum.com, TMorrissey@ensolum.com, HGreen@ensolum.com

Incident ID: nAPP2409552342



APPENDIX C

December 30, 2024, *Closure Request*



CLOSURE REPORT

Property:

Mesa Verde 18 CTB

Unit F, S17, T24S, R32E

Facility ID: fAPP2126659618

32.220935° N, 103.699223° W

Lea County, New Mexico

NMOCD Incident ID: nAPP2409552342

December 30, 2024

Ensolum Project No. 03B1417167

Prepared for:

Oxy USA, Inc.

PO Box 4324


Houston, Texas 77210

Attn: Wade Dittrich

Prepared by:



Kelly Lowery, GIT
Project Manager



Beaux Jennings
Associate Principal

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CLOSURE REPORT**Mesa Verde 18 CTB**

Unit F, S17, T24S, R32E
Facility ID: fAPP2126659618
32.220935° N, 103.699223° W
Lea County, New Mexico
NMOCD Incident ID: nAPP2409552342

Ensolum Project No. 03B1417167

1.0 INTRODUCTION**1.1 Site Description and Background**

Operator:	Oxy USA, Inc. (Oxy)
Site Name:	Mesa Verde 18 CTB
Location:	Unit F, Section 17, Township 24 South, Range 32 East Facility ID: fAPP2126659618 32.220935° N, 103.699223° W Lea 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 April 3, 2024, Oxy had a release of produced water at the Site due to a leak on the 12-inch wheel valve from a steel flow line which resulted in a leak into the nearby pasture. The line was isolated, depressurized, locked, and tagged out. Approximately 20 barrels (bbls) of produced water were released onto the ground surface, with 15 bbls recovered. Oxy reported the release to the New Mexico EMNRD OCD through the online notice of release (NOR) form on April 4, 2024. The release was subsequently assigned Incident Number nAPP2409552342.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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



determine the appropriate closure criteria for the Site. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**, and included as **Figure 4** in **Appendix A**.

- No exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database.
- 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.

Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB01/C-04910-POD1) was installed on November 20, 2024 by West Texas Water Well Service (WTWWS), a licensed driller in the state of New Mexico, and Ensolum personnel. The soil boring was installed within Oxy's right-of-way (ROW) approximately 0.25-miles northwest of the Site to a total depth of 112.5 feet bgs and was left open for at least 72-hours to confirm the presence or absence of groundwater. On November 25, 2024, the soil boring was gauged with no groundwater encountered at 112.5 feet bgs.

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 (NON-VEGETATIVE ZONE)			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
> 100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

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

3.0 SOIL REMEDIATION ACTIVITIES

On April 3, 2024, Oxy had a release of produced water at the Site due to a leak on the 12-inch wheel valve from a steel flow line which resulted in a leak into the nearby pasture. The line was isolated, depressurized, locked, and tagged out. Approximately 20 bbls of produced water were released onto the ground surface, with 15 bbls recovered.

On August 26, 2024, during initial remediation activities, Ensolum arrived on-Site to collect four composite floor soil samples from a portion of the release extent that had been excavated (FS-01, FS-02, FS-12, FS-18) at a depth of 3 feet bgs. Due to the proximity of the surrounding equipment and safety concerns, portions of the excavation would need to be hand shoveled for the remainder of the samples to be collected.



From September 23, 2024 to September 25, 2024, subsequent to additional excavation activities, Ensolum arrived on-Site to collect 19 composite floor soil samples from the excavation extent (FS-03 through FS-11, FS-13 through FS-17, and FS-19 through FS-23) at a depth of 4 feet bgs, and 10 composite sidewall soil samples from the excavation extent (SW-01 through SW-10) at a depth of 0-4 feet bgs. Based on laboratory analytical data, no additional remediation activities were necessary.

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

The lithology encountered during the completion of closure activities consisted primarily of loamy fine sand.

The final excavation area measured approximately 119 feet long and 46 feet wide at its maximum extents, with a depth of approximately 3 to 4 feet bgs.

The excavation measured approximately 4,487 square feet in aerial extent. A total of approximately 652 cubic yards (cy) of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled utilizing material purchased locally from the McCutcheon Pit (32.227368°N, 103.721332°W) and recontoured to match pre-existing conditions.

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

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from August 26, 2024 through September 25, 2024 included the collection of a total of 23 composite soil samples from 23 locations from the excavation floor (FS-01 through FS-23) and 10 composite soil samples from 10 locations from the excavation sidewalls (SW-01 through SW10) for laboratory analysis.

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** and **Table 2** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

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

- Laboratory analytical results indicated benzene concentrations for the soils remaining in place at the Site 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 did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated that combined TPH-GRO/DRO concentrations for the soils remaining in place at the Site in the Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated that combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site in the Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site in the Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 20,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated that combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site in the Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site in the Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤50 feet.

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

7.0 RECLAMATION AND RE-VEGETATION

- The release occurred off-pad, and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad area that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area: The soil in the vicinity of the release includes: predominately loamy fine sand;
- The excavation was backfilled with locally sourced topsoil from the McCutcheon Pit and recontoured to match the surrounding grade. The backfill soil sample analytical results will be included in the Reclamation and Revegetation Reports;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the BLM to meet reclamation standards for this region, which will be Loamy Sand (SD-3/CP-2) Sites Seed Mixture;
- The seed mixture will be distributed with one of the following methods: push broadcaster seed spreader/tractor-operated broadcast seed spreader/drill seeding/other means;
- Application of the seed mixture will be at a coverage of either 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method, whichever is more applicable;
- Erosion control management will potentially include:
 - The placement of waddles in areas with a propensity for high run-off rates;



- Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
- Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas.
- Backfilling of the excavation has already been completed. The backfill soil sample analytical results will be included in the Reclamation and Revegetation Reports;
- Seeding is anticipated to be completed in the spring/summer when temperatures and precipitation are most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the BLM-approved pure live seed mixture will be applied as well, and any needed BMPs will be installed to support growth and limit erosion;

8.0 FINDINGS AND RECOMMENDATION

- On April 3, 2024, Oxy had a release of produced water at the Site due to a leak on the 12-inch wheel valve from a steel flow line which resulted in a leak into the nearby pasture. The line was isolated, depressurized, locked, and tagged out. Approximately 20 bbls of produced water were released onto the ground surface, with 15 bbls recovered.
- Ensolum's soil sampling program from August 26, 2024 through September 25, 2024 included the collection of a total of 23 composite soil samples from 23 locations from the excavation floor (FS-01 through FS-23) and 10 composite soil samples from 10 locations from the excavation sidewalls (SW-01 through SW-10) for laboratory analysis. The composite floor samples were collected at a depth of 4 feet bgs, and the composite sidewall samples were collected at a depth of 0-4 feet bgs.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 119 feet long and 46 feet wide at its maximum extents, with a depth of approximately 3 to 4 feet bgs.
- Based on laboratory analytical results, the final composite soil samples collected from the excavation area did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the final composite soil sampling, the excavation was backfilled with locally sourced topsoil from the McCutcheon Pit and recontoured to the original surrounding grade. Once the areas are brought back to their original grade, an BLM-approved seed mixture will be sown into the surface of the backfill for re-vegetation per the above-stated Reclamation Plan.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

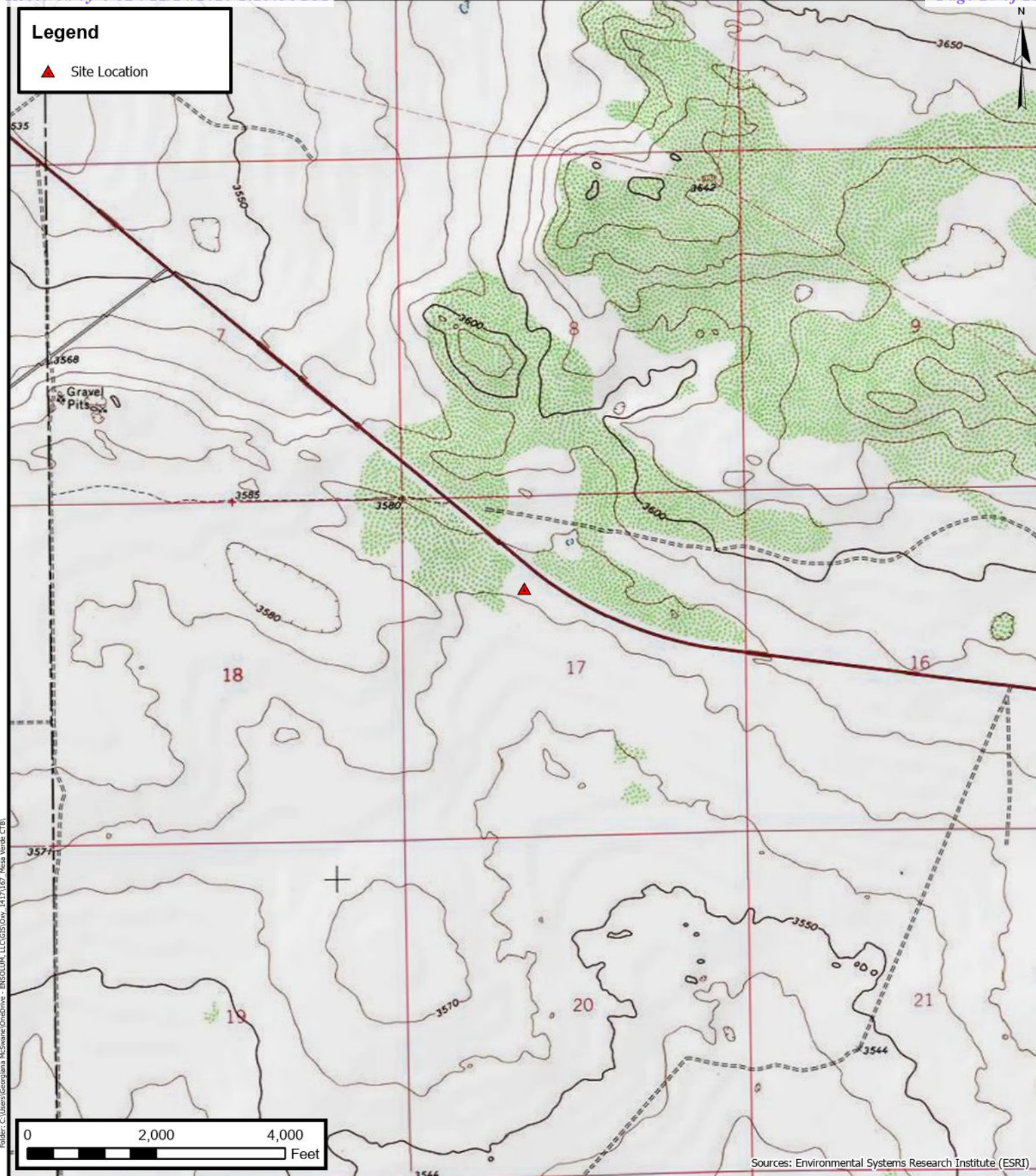
9.3 Reliance

This report has been prepared for the exclusive use of Oxy USA, Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization 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.
Mesa Verde 18 CTB
32.220935° N, 103.699223° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417167

FIGURE

1



Site Vicinity Map

Oxy USA Inc.
Mesa Verde 18 CTB
32.220935° N, 103.699223° W
Lea County, New Mexico

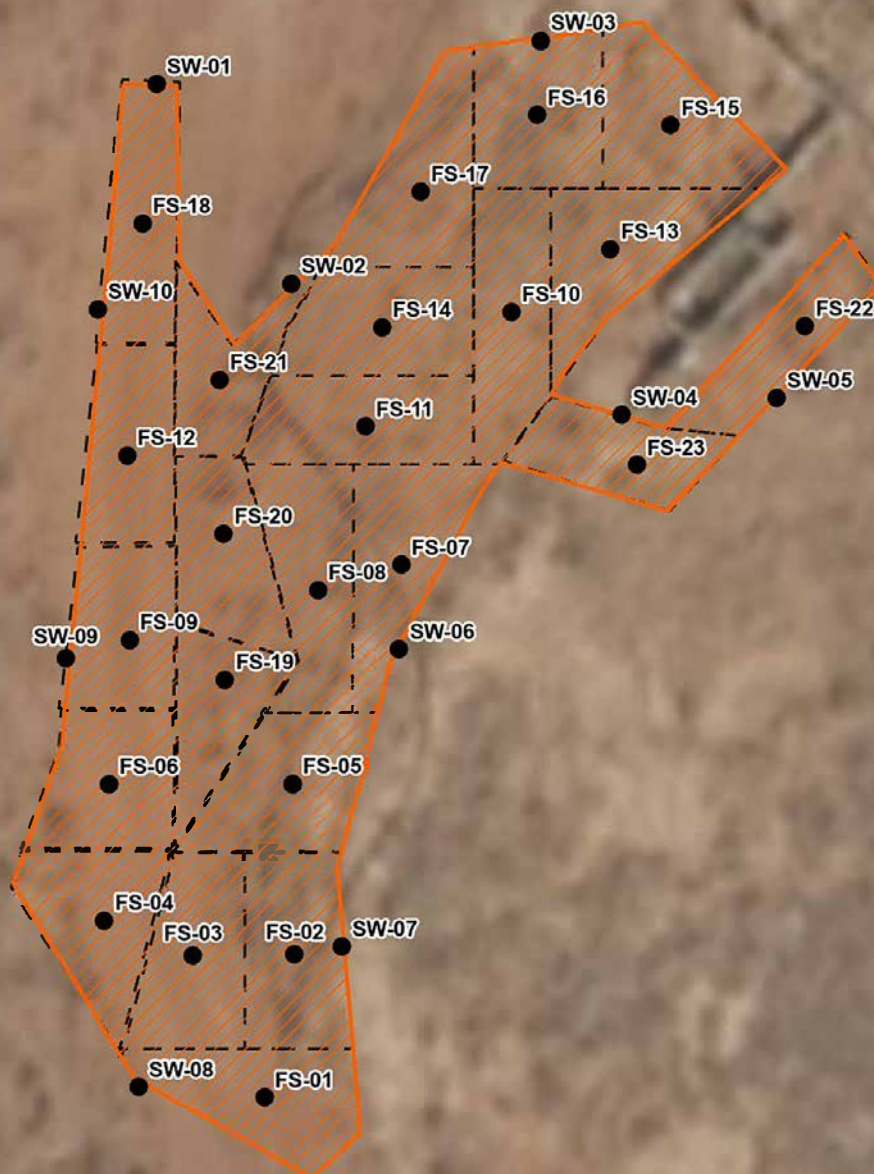
PROJECT NUMBER: 03B1417167

FIGURE

2

Legend

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



0 20 40
Feet

Sources: Environmental Systems Research Institute (ESRI)

**Site Map**

Oxy USA Inc.
Mesa Verde 18 CTB
32.220935° N, 103.699223° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417167

FIGURE**3**



Closure Criteria Map

Oxy USA Inc.
Mesa Verde 18 CTB
32.220935° N, 103.699223° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417167

FIGURE
4



APPENDIX B

Supporting Documentation

ENSOLUMEnvironmental, Engineering and
Hydrogeologic Consultants**SB01 (C-04910-POD1)**

PROJECT NUMBER 03B1417167		DRILLING COMPANY WTWWS	COORDINATES 32.223325, -103.702513	
PROJECT NAME Mesa Verde 18 CTB		DRILLER Caleb Gregory	COORD SYS NA	
CLIENT Oxy USA, Inc.		DRILL METHOD Air Rotary	SURFACE ELEVATION NA	
ADDRESS PO Box 4294 Houston, TX 77210		LICENCE NO. WD-1184	WELL TOC NA	
DRILLING START DATE 11/20/2024		TOTAL DEPTH 112.5' BGS	LOGGED BY Nicolas Christakos	
DRILLING END DATE 11/20/2024		DIAMETER 6"	CHECKED BY Kelly Lowery	
COMPLETION Plugged after 72 hrs		CASING NA	SCREEN NA	
COMMENTS After 72 hrs, the borehole was backfilled with cuttings (2' - 112.5' BGS) and 1 bag of Quikrete (0-2' BGS). No groundwater encountered.				
Depth (ft)	Water	Well Installation	Graphic Log	Material Description
10				Gravelly sand, light brown, medium to large size gravel, dry, no odor.
20				Clayey sand, medium brown, very fine to fine grained, trace clay aggregates, dry, no odor.
30				Sandy clay, reddish brown, medium to coarse grained, some clay aggregates, dry no odor.
40				Gravelly sand, reddish brown, very fine to large caliche gravel, trace caliche, dry, no odor.
50				Sandy clay, reddish brown, very fine to large caliche gravel, trace caliche and clay aggregates, dry, no odor.
60				
70				Sandy clay, light brown, fine caliche gravel, trace caliche, clay aggregates, dry, no odor.
80				Clayey sand, reddish brown, large clay aggregates, little caliche, dry, no odor.
90				Clayey sand, reddish brown, very fine to small grained caliche gravel, trace caliche gravel, trace clay aggregates, dry, no odor.
100				Sandy clay, reddish brown, coarse grained, trace caliche gravel, trace clay aggregates, dry, no odor.
110				
120				Total Depth: 112.5' BGS

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Page 1 of 1

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM016353**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 21. Type of Well
☐ Oil Well ☐ Gas Well ☒ Soil boring for determination of depth to groundwater
☒ Other

7. If Unit of CA/Agreement, Name and/or No.

NMNM1055578268. Well Name and No. **Mesa Verde 18 CTB**2. Name of Operator **Oxy USA, Inc.**

9. API Well No.

3a. Address

619 East Jemez, Hobbs NM 88240

3b. Phone No. (include area code)

(575) 390-2828

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

D-17-24S-32E Latitude: 32.223325, Longitude: -103.702513

11. Country or Parish, State

Lea County, New Mexico**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

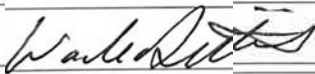
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Oxy USA, Inc. (Oxy) requests to advance a soil boring to a depth of approximately 110 feet below ground surface for determination of regional groundwater depth. The soil boring (proposed location 32.223325, -103.702513) will be located on the pipeline ROW northwest of and within 0.5-mile from the Mesa Verde 18 CTB (Incident ID:nAPP2409552342) Site (GPS Coordinates: 32.220935, -103.699223) on BLM surface. The soil boring will be left open for approximately 72 hours to allow for the slow infill of groundwater, if any. Following the 72 hour waiting period, Oxy will assess the boring utilizing a water level meter to confirm the presence or absence and depth to groundwater in the soil boring. Following the 72 hour waiting period, the soil boring will be backfilled following the approved New Mexico Office of the State Engineer plugging procedures. A site map and kmz depicting the location of the Site and the proposed soil boring location are included with this Form 3160-5.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Wade DittrichTitle **Environmental Advisor**

Signature



Date

9-18-24**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM016353**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 21. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other
Soil boring for determination of depth to groundwater7. If Unit of CA/Agreement, Name and/or No.
NMNM1055578268. Well Name and No. **Mesa Verde 18 CTB**2. Name of Operator **Oxy USA, Inc.**

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3b. Phone No. (include area code)

(575) 390-2828

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4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

D-17-24S-32E Latitude: 32.223325, Longitude: -103.702513

11. Country or Parish, State

Lea County, New Mexico**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

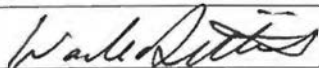
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Oxy USA, Inc. (Oxy) requests to advance a soil boring to a depth of approximately 110 feet below ground surface for determination of regional groundwater depth. The soil boring (proposed location 32.223325, -103.702513) will be located on the pipeline ROW northwest of and within 0.5-mile from the Mesa Verde 18 CTB (Incident ID:nAPP2409552342) Site (GPS Coordinates: 32.220935, -103.699223) on BLM surface. The soil boring will be left open for approximately 72 hours to allow for the slow infill of groundwater, if any. Following the 72 hour waiting period, Oxy will assess the boring utilizing a water level meter to confirm the presence or absence and depth to groundwater in the soil boring. Following the 72 hour waiting period, the soil boring will be backfilled following the approved New Mexico Office of the State Engineer plugging procedures. A site map and kmz depicting the location of the Site and the proposed soil boring location are included with this Form 3160-5.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Wade DittrichTitle **Environmental Advisor**

Signature



Date

9-18-24**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



Elizabeth K. Anderson, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 770915
File Nbr: C 04910

Nov. 13, 2024

KELLY LOWERY
ENSOLUM, LLC
601 N MARIENFELD ST. STE 400
MIDLAND, TX 79701

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

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

Vanessa Clements
(575) 622-6521

Enclosure

explore

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 770915
File Nbr: C 04910

Nov. 13, 2024

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

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

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Sincerely,

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

Vanessa Clements
(575) 622-6521

Enclosure

explore

File No. C-4910 Pool



NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable boxes):

For fees, see State Engineer website: <https://www.ose.nm.gov/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe):
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	
A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.		
*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Angled/Directional borehole - include schematic and azimuth, inclination, measured depth and true vertical depth.		
<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 11/01/2024		Requested End Date: 12/01/2024
Plugging Plan of Operations Submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form. ☐

1. APPLICANT(S)

Name: Oxy USA Inc.	Name: Ensolum, LLC
Contact or Agent: check here if Agent <input checked="" type="checkbox"/> Mr. Wade Dittrich	Contact or Agent: check here if Agent <input type="checkbox"/> Ms. Kelly Lowery
Mailing Address: PO BOX 4294	Mailing Address: 601 N. Marienfeld St. Suite 400
City: Houston	City: Midland
State: TX Zip Code: 77210	State: TX Zip Code: 79701
Phone: <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work): 575-390-2828	Phone: 214-733-3165 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):
E-mail (optional): wade_dittrich@oxy.com	E-mail (optional): klowery@ensolum.com

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 10/02/2024

File No.: C-4910	Trn. No.: 770915	Receipt No.: 2-47451
Trans Description (optional): EXPL		
Sub-Basin: CUB	PCW/LOG Due Date: 11-13-2025	

Page 1 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory*: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of. Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	Mine De-Watering: <input type="checkbox"/> Include a plan for Mine De-Watering, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
---	--	---	---

(* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Kelly Lowery, Wade Dittrich

Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief.

Kelly Lowery
Applicant Signature

Wade Dittrich
Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 13th day of November, 2024, for the State Engineer

Elizabeth K. Anderson, P.E.

State Engineer

By: K. Parekh
Signature

Kashyap Parekh
Print

Title: Water Resources Manager I
Print



FOR USE INTERNAL USE

Application for Permit, Form WR-07 Version 10/02/2024

File No.:

C-4910

Trn No.:

770915

Page 3 of 3

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04910 POD1

File Number: C 04910

Trn Number: 770915

page: 1

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10) cumulative days, and well shall be plugged or capped on or before , unless a permit to use water from this well is acquired from the Office of the State Engineer.
- 17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

Trn Desc: C 04910 POD1

File Number: C 04910
Trn Number: 770915

page: 2

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04910 POD1 must be completed and the Well Log filed on or before 11/13/2025.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 10/31/2024	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 13 day of Nov A.D., 2024

Elizabeth K. Anderson, P.E., State Engineer

By: K. Parekh
KASHYAP PAREKH



Trn Desc: C 04910 POD1

File Number: C 04910
Trn Number: 770915

page: 3

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ROSWELL OFFICE

OFFICIAL RECEIPT NUMBER: 2 - 47454 DATE: 10/31/24 FILE NO.: _____

TOTAL: 5.00 RECEIVED: Five DOLLARS CHECK NO.: 29548914772 CASH: _____

PAYOR: Ensolium / Kelly Lowery ADDRESS: 601 N. Marienfeld St. Suite 400 CITY: Midland STATE: TX

ZIP: 79701 RECEIVED BY: R.C.

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

- ___ 1. Change of Ownership of Water Right \$ 2.00
 - ___ 2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$ 125.00
 - ___ 3. Application to Repair or Deepen 72-12-1 Well \$ 75.00
 - ___ 4. Application for Replacement 72-12-1 Well \$ 75.00
 - ___ 5. Application to Change Purpose of Use 72-12-1 Well \$ 75.00
 - ___ 6. Application for Stock Well/Temp. Use \$ 5.00
-
- ___ 7. Application to Appropriate Irrigation, Municipal, or Commercial Use \$ 25.00
 - ___ 8. Declaration of Water Right \$ 1.00
 - ___ 9. Application for Additional Point of Diversion Non 72-12-1 Per Well \$ 25.00
 - ___ 10. Application to Change Place or Purpose of Use Non 72-12-1 Well \$ 25.00
 - ___ 11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water \$ 50.00
 - ___ 12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water \$ 50.00
 - ___ 13. Application to Change Point of Diversion of Non 72-12-1 Well \$ 25.00
 - ___ 14. Application to Repair or Deepen Non 72-12-1 Well \$ 5.00
-
- 1 15. Application for Test, Expl. Observ. Well \$ 5.00
 - ___ 16. Application for Extension of Time \$ 25.00
 - ___ 17. Proof of Application to Beneficial Use \$ 25.00
 - ___ 18. Notice of Intent to Appropriate \$ 25.00

B. Surface Water Filing Fees

- ___ 1. Change of Ownership of a Water Right \$ 5.00
- ___ 2. Declaration of Water Right \$ 10.00
- ___ 3. Amended Declaration \$ 25.00
- ___ 4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water \$ 200.00
- ___ 5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water \$ 200.00
- ___ 6. Application to Change Point of Diversion \$ 100.00
- ___ 7. Application to Change Place and/or Purpose of Use \$ 100.00
- ___ 8. Application to Appropriate \$ 25.00
- ___ 9. Notice of Intent to Appropriate \$ 25.00
- ___ 10. Application for Extension of Time \$ 50.00
- ___ 11. Supplemental Well to a Surface Right \$ 100.00
- ___ 12. Return Flow Credit \$ 100.00
- ___ 13. Proof of Completion of Works \$ 25.00
- ___ 14. Proof of Application of Water to Beneficial Use \$ 25.00
- ___ 15. Water Development Plan \$ 100.00
- ___ 16. Declaration of Livestock Water Impoundment \$ 10.00
- ___ 17. Application for Livestock Water Impoundment \$ 10.00

C. Well Driller Fees

- ___ 1. Application for Well Driller's License \$ 50.00
- ___ 2. Application for Renewal of Well Driller's License \$ 50.00
- ___ 3. Application to Amend Well Driller's License \$ 50.00

D. Reproduction of Documents

- ___ @ 0.25¢ \$ _____
- ___ Map(s) @ \$3.00 \$ _____

E. Certification

- ___ \$ _____

F. Other

- ___ \$ _____

G. Comments:

Mail

All fees are non-refundable.

MICHELLE LUJAN GRISHAM
GOVERNOR



ELIZABETH K. ANDERSON, P.E.
STATE ENGINEER

State of New Mexico
Office of the State Engineer

DISTRICT 2 OFFICE

November 12, 2024

OXY USA Inc.
P.O. Box 4294
Houston, TX 77210

RE: Well Plugging Plan of Operations for well No. C-4910-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

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

Kashyap Parekh
Water Resources Manager I

1900 WEST SECOND STREET, ROSWELL, NM 88201
(575) 622/6521 FAX (575) 623-8559

WWW.OSE.STATE.NM.GOV



Office of the State Engineer State of New Mexico

DISTRICT 2 OFFICE

1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged. West Texas Drilling Services (WD-1184) will perform the plugging.

Permittee: OXY USA Inc.
NMOSE Permit Number: C-4910-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4910-POD1	6.0 (Borehole)	110.0	Unknown	32° 12' 32.6264"	103° 40' 31.6488"

Specific Plugging Conditions of Approval for Well located in Lea County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 161.50 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110.0 feet.

3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 14.68 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.

4. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.

5. Dry Hole: (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

7. Should cement “shrinks-back” occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 4. and 5. of these Specific Conditions of Approval.

8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

10. NMOSE witnessing of the plugging of the soil boring will not be required.

11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 12th day of November 2024

Elizabeth K. Anderson, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I



- 7) Grout additives requested, and percent by dry weight relative to cement:

N/A

- 8) Additional notes and calculations:

N/A

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

N/A

VIII. SIGNATURE:

I, Georgiana McSwane, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Georgiana McSwane Digitally signed by Georgiana McSwane
Date: 2024.10.16 13:42:09 -05'00'

10/16/2024

Signature of Applicant

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 12th day of November, 2024



Elizabeth K. Anderson P.E.

., New Mexico State Engineer

By:

K Parekh
Kashyap Parekh

Water Resources Manager I

WD-08 Well Plugging Plan
Version: March 07, 2022
Page 3 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant or grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	26
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	BAROID HOLD PLUG

USE DIT ROOMELL N/A
5 NOV '24 PM 2:24



Kelly Lowery

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, May 30, 2024 10:03 AM
To: Hadlie Green
Cc: Dittrich, John W; Pierce, Tyson (The Bergaila Company); Kelly Lowery; Bratcher, Michael, EMNRD; Beaux Jennings
Subject: RE: [EXTERNAL] RE: Oxy - Closure Criteria Variance Request (Incident Numbers NAPP2231459478 & NAPP2407545309)

[**EXTERNAL EMAIL**]

Hadlie,

If you can't get a rig into the area between the two sites (proposed blue area), try and choose the location that is closest to it. If you have any questions, just let me know. Include this email in the Remediation Closure Report, so there's a record of this discussion.

Thank you,

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



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, May 30, 2024 8:54 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (The Bergaila Company) <Tyson_Pierce@oxy.com>; Kelly Lowery <klowery@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Beaux Jennings <bjenning@ensolum.com>
Subject: [EXTERNAL] RE: Oxy - Closure Criteria Variance Request (Incident Numbers NAPP2231459478 & NAPP2407545309)

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

Good morning Mr. Hamlet,

Circling back to the variance request below and wanted to make sure you don't need any additional information.

Thank you,

**Hadlie Green**

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC

**From:** Hadlie Green**Sent:** Wednesday, May 22, 2024 4:42 PM**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>**Cc:** Dittrich, John W <Wade.Dittrich@oxy.com>; Pierce, Tyson (The Bergaila Company) <Tyson.Pierce@oxy.com>; Kelly Lowery <klowery@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Beaux Jennings <bjennings@ensolum.com>**Subject:** RE: Oxy - Closure Criteria Variance Request (Incident Numbers NAPP2231459478 & NAPP2407545309)

Good afternoon Mr. Hamlet,

Upon Site investigation of the previously discussed groundwater investigation boring (located in blue below), it is determined that a drill rig cannot safely access the area to complete Site activities. I've attached a photolog indicating Site hazards that prevent a drill rig from accessing the proposed area.

In lieu of drilling in the proposed blue area previously discussed, Oxy proposes to complete a soil boring in either of the three additional locations provided in the snip below (two orange or one pink area). If you approve of one of the proposed locations below, Oxy requests to move forward with the same Closure Criteria for both releases based on the groundwater investigation results.

Please let me know if you have any questions or require any additional information.



Thank you for your time and consideration,

**Hadlie Green**

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Sent: Wednesday, May 15, 2024 3:50 PM

To: Hadlie Green <hgreen@ensolum.com>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (The Bergaila Company) <Tyson_Pierce@oxy.com>; Kelly Lowery <klowery@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: Oxy - Closure Criteria Variance Request (Incident Numbers NAPP2231459478 & NAPP2407545309)

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

[**EXTERNAL EMAIL**]

Hadlie,

The Variance Request for depth to groundwater greater than 50 feet is Denied. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. If you feel the depth to groundwater is >50', a shallow borehole can be drilled to 55' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the boring can be used for depth to groundwater determination. We would just need a copy of the driller's log.

You should be able to drill 1 borehole directly in between the 2 incidents, where the yellow 0.5 mile radius boundaries almost meet (Groundwater Investigation Map). This would be acceptable to the OCD and suffice for both incidents, which would require the drilling of only 1 borehole.

Regards,

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Hadlie Green <hgreen@ensolum.com>

Sent: Wednesday, May 15, 2024 11:58 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (The Bergaila Company) <Tyson_Pierce@oxy.com>; Kelly

Lowery <klowery@ensolum.com>

Subject: [EXTERNAL] Oxy - Closure Criteria Variance Request (Incident Numbers NAPP2231459478 & NAPP2407545309)

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

Good afternoon Mr. Hamlet,

Ensolum, LLC (Ensolum) on behalf of Oxy USA Inc (Oxy), requests a Closure Criteria Variance of two incidents close in proximity to each other.

Incident Number NAPP2231459478

On November 3, 2022, a shaker screen clogged, resulting in the release of approximately 60 barrels (bbls) of crude oil. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 40 bbls of crude oil were recovered. Oxy will vertically and laterally delineate the release per NMAC 19.15.29.

Incident Number NAPP2407545309

On March 5, 2024, a 12 inch on a water line failed, resulting in the release of approximately 20 bbls of produced water. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 15 bbls of produced water were recovered. Oxy will vertically and laterally delineate the release per NMAC 19.15.29.

Attached is groundwater research from the area surrounding the release. Due to the regional depth to groundwater and the Sites being in low karst potential area, Oxy requests a Closure Criteria Variance to reflect groundwater 51'-100' as shown in Table 1 of 19.15.29.12 NMAC.

Please let me know if you have any questions.

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, July 1, 2024 2:49 PM
To: Kelly Lowery
Cc: Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Extension Request: Mesa Verde 18 CTB (Incident ID: nAPP2409552342)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Thank you for the correspondence. Your 90-day time extension request is approved. Remediation Due date has been updated to September 30, 2024.

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

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

Regards,

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, July 1, 2024 1:09 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Mesa Verde 18 CTB (Incident ID: nAPP2409552342)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Monday, July 1, 2024 12:47 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: Mesa Verde 18 CTB (Incident ID: nAPP2409552342)

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 Mesa Verde 18 CTB (Incident ID: nAPP2409552342). Excavation and remediation activities are currently on-going at the Site and based on nearby receptors and correspondence with the OCD, a depth-to-water (DTW) boring is needed within 0.5-mile of the Site to confirm that it meets the Closure Criteria for Sites with DTW >100' BGS. Ensolum kindly requests an extension be granted to allow time to acquire access, coordinate driller availability, and submit the applicable permits and/or documentation to do so.

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: Tuesday, October 1, 2024 3:12 PM
To: Kelly Lowery
Cc: Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject: Re: [EXTERNAL] Extension Request: Mesa Verde 18 CTB (Incident ID: nAPP2409552342)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Your 90-day time extension request is approved. Remediation Due date has been updated to December 30, 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/ocd>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, September 30, 2024 1:04 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Mesa Verde 18 CTB (Incident ID: nAPP2409552342)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Monday, September 30, 2024 1:02 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: Mesa Verde 18 CTB (Incident ID: nAPP2409552342)

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 Mesa Verde 18 CTB (Incident ID: nAPP2409552342). Excavation activities are currently on-going at the Site but have been delayed due to scheduling challenges with personnel and contractors. Additionally, access to drill a depth-to-water boring was recently approved by the BLM and we are now in the process of submitting the WR-07: Application for Permit to Drill a Well with No Consumptive Use and the WD-08: Well Plugging Plan of Operations Permit to the New Mexico Office of the State Engineer. We ask that you please approve this extension request for future sampling, drilling and plugging operations, and subsequent reporting. Please let us know if you have any questions.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC



PECOS DISTRICT, BLM
SEED MIX FOR

The following Soils or Soil Association may represent these ecological sites:

Alama silt loam, dry, 0-3% Slope, Atoka, Bigetty-Pecos, Harkey fine sandy loam, Holloman, Holloman-Gypsum Land, Hollomex loam, 1-9% slope, dry, Largo loams, Milner loam, 0-2% slope, dry, Reagan loam, Reakor, Reakor-Bigetty, Reakor-Tencee, Reeves loam, 0-2% slope, dry, Russler, Shanta, Upton-Reakor

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

April 4, 2006

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

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

No less than 9.75 pounds pls per acre shall be applied

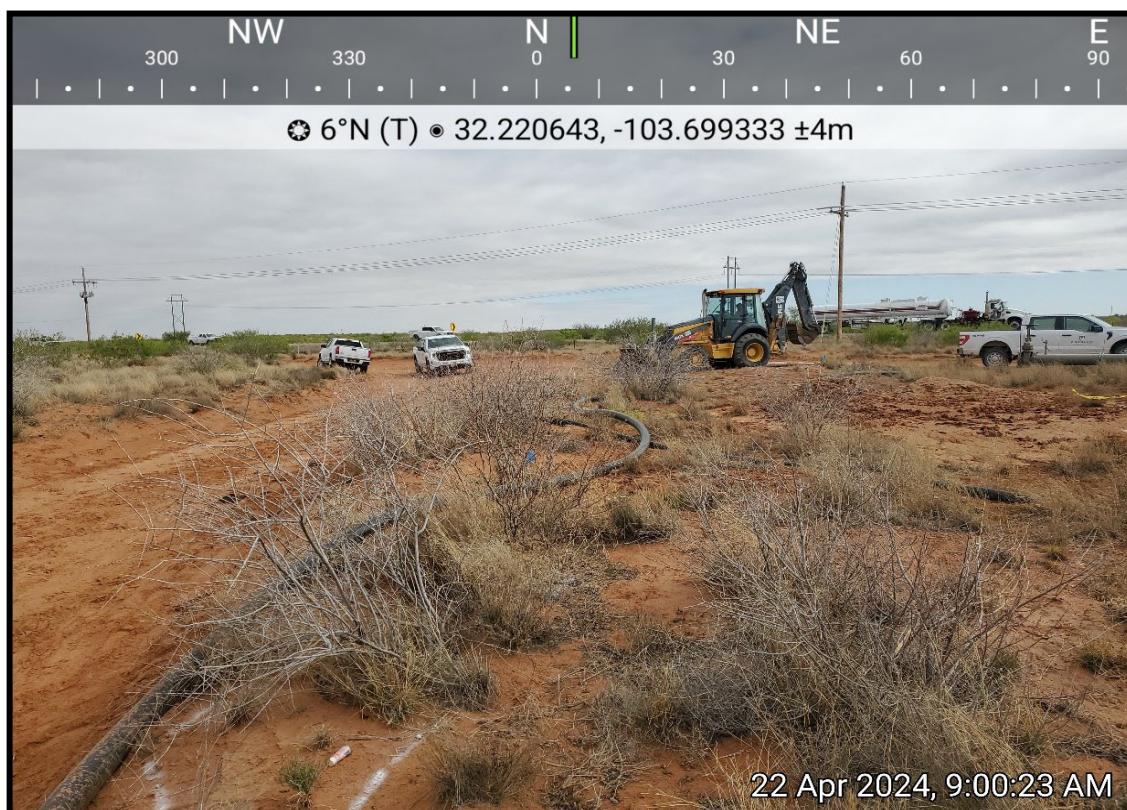
APPROVED: /s/ Douglas J. Burger
District Manager, Pecos District



APPENDIX C

Photographic Documentation

Project: Mesa Verde 18 CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2409552342



View of release area prior to remediation activities, facing north (April 22, 2024).



View of release area prior to remediation activities, facing southwest (April 22, 2024).

Project: Mesa Verde 18 CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2409552342



View of excavation extent during remediation activities, facing south (September 23, 2024).

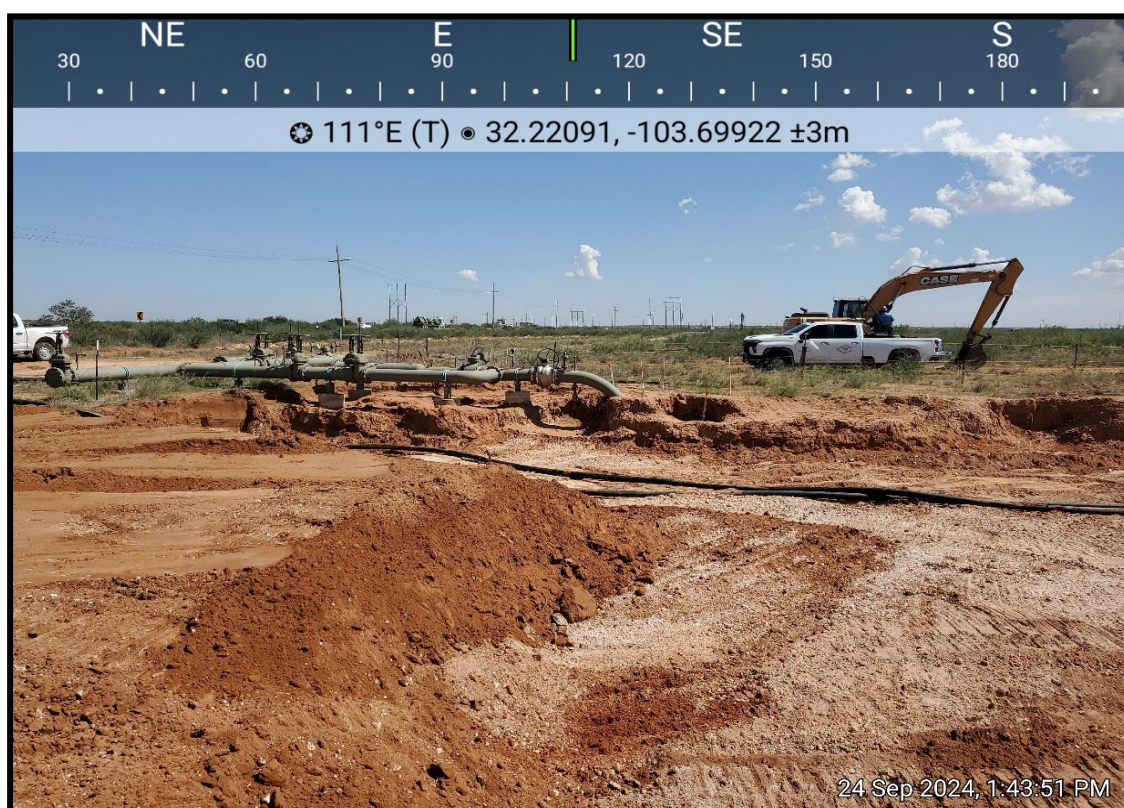


View of excavation extent during remediation activities, facing southwest (September 23, 2024).

Project: Mesa Verde 18 CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2409552342

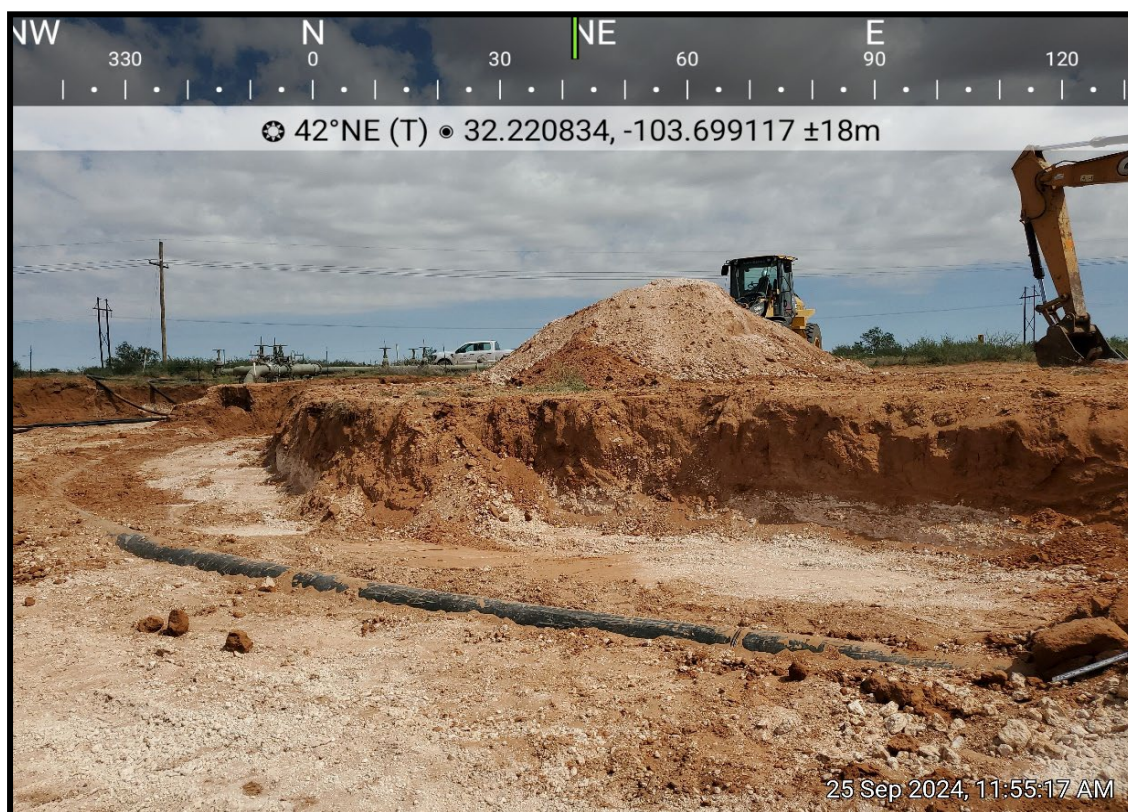


View of excavation extent during remediation activities, facing southwest (September 24, 2024).

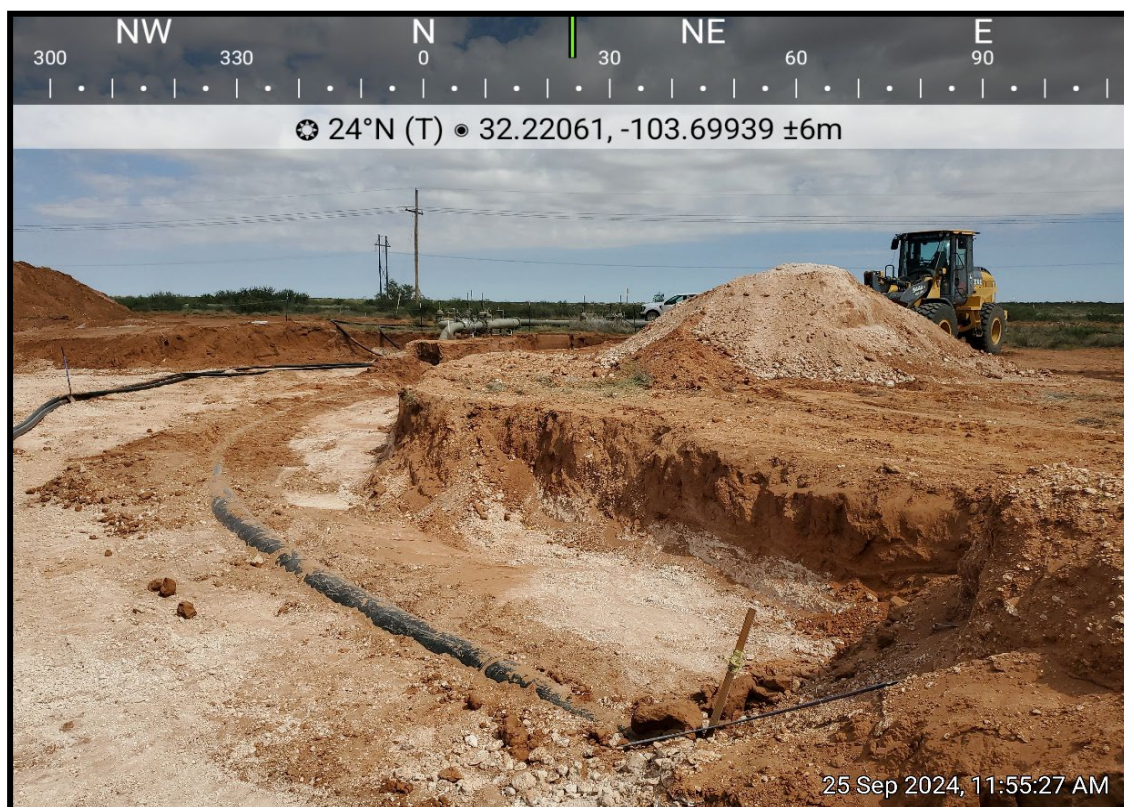


View of excavation extent during remediation activities, facing east (September 24, 2024).

Project: Mesa Verde 18 CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2409552342



View of excavation extent during remediation activities, facing northeast (September 25, 2024).



View of excavation extent during remediation activities, facing north (September 25, 2024).

Project: Mesa Verde 18 CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2409552342



View of excavation extent post backfill activities, facing east (December 26, 2024).

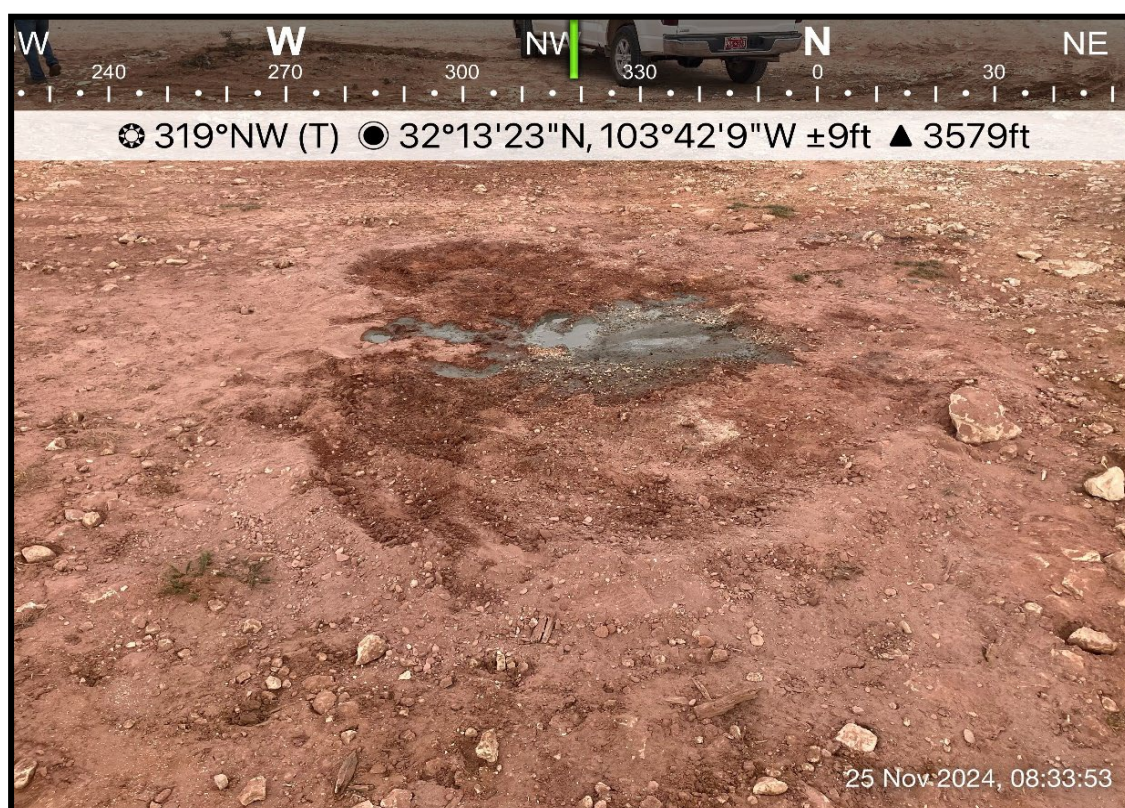


View of excavation extent post backfill activities, facing northeast (December 26, 2024).

Project: Mesa Verde 18 CTB
Entity: Oxy USA, Inc
Incident ID: nAPP2409552342



View of SB-01/C-04910POD1 with protective soil cover, facing southeast (November 20, 2024).



View of SB-01/C-04910POD1 after backfill activities, facing northwest (November 25, 2024).



APPENDIX D

Table



TABLE 1
SAMPLE ANALYTICAL RESULTS (NON-VEGETATIVE ZONE)
 Mesa Verde 18 CTB
 Oxy USA, Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417167

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)			10	NE	NE	NE	50	1,000		NE	2,500	20,000
Composite Floor Sample Analytical Results												
FS-03	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	4,880
FS-04	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	3,600
FS-05	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	4,560
FS-06	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	2,000
FS-07	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	4,160
FS-08	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	448
FS-09	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	1,500
FS-10	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	2,200
FS-11	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	10,500
FS-13	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	8,000
FS-14	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	10,000
FS-15	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	144
FS-16	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	5,460
FS-17	09/23/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	5,600
FS-19	09/24/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	4,320
FS-20	09/24/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	2,240
FS-21	09/24/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	2,880
FS-22	09/25/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	5,040
FS-23	09/25/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	320

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



TABLE 2
SAMPLE ANALYTICAL RESULTS (VEGETATIVE ZONE)

Mesa Verde 18 CTB
Oxy USA, Inc.
Lea County, New Mexico
Ensolum Project No. 03B1417167

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Floor Sample Analytical Results												
FS-01	08/26/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-02	08/26/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS-12	08/26/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-18	08/26/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
Composite Sidewall Sample Analytical Results												
SW-01	09/23/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-02	09/24/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-03	09/24/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-04	09/25/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW-05	09/25/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
SW-06	09/25/2024	0 - 4	<0.050	0.061	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
SW-07	09/25/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-08	09/23/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-09	09/23/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
SW-10	09/23/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

September 03, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA VERDE 18 CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 14:00.

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

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: 08/27/2024
 Reported: 09/03/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 08/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 1 3' (H245218-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2024	ND	1.80	90.0	2.00	5.00	
Toluene*	<0.050	0.050	08/29/2024	ND	1.77	88.5	2.00	3.40	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	1.80	90.1	2.00	2.30	QM-07
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.36	89.4	6.00	2.06	QM-07
Total BTEx	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	08/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 08/27/2024
 Reported: 09/03/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 08/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 2 3' (H245218-02)

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	08/29/2024	ND	1.80	90.0	2.00	5.00		
Toluene*	<0.050	0.050	08/29/2024	ND	1.77	88.5	2.00	3.40		
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	1.80	90.1	2.00	2.30		
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.36	89.4	6.00	2.06		
Total BTEX	<0.300	0.300	08/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	64.0	16.0	08/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 08/27/2024
 Reported: 09/03/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 08/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 12 3' (H245218-03)

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	08/29/2024	ND	1.80	90.0	2.00	5.00		
Toluene*	<0.050	0.050	08/29/2024	ND	1.77	88.5	2.00	3.40		
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	1.80	90.1	2.00	2.30		
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.36	89.4	6.00	2.06		
Total BTEX	<0.300	0.300	08/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	08/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 08/27/2024
 Reported: 09/03/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 08/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 18 3' (H245218-04)

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	08/29/2024	ND	1.80	90.0	2.00	5.00		
Toluene*	<0.050	0.050	08/29/2024	ND	1.77	88.5	2.00	3.40		
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	1.80	90.1	2.00	2.30		
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.36	89.4	6.00	2.06		
Total BTEX	<0.300	0.300	08/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	224	16.0	08/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Caley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: <u>Enselum LLC</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Kelly Lowery</u>				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015m</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 80216</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides 4500</div> </div>											
Address: <u>601 Maricopa #400</u>				Company: <u>OXY</u>															
City: <u>MIDLAND TX</u> State: <u>TX</u> Zip: <u>79701</u>				Attn: <u>Wade Dietrich</u>															
Phone #: <u>432 230 3344</u> Fax #:				Address:															
Project #: <u>0381417167</u> Project Owner: <u>OXY</u>				City:															
Project Name: <u>Mesa Verde 18 CTB</u>				State: Zip:															
Project Location: <u>Eddy Co NM</u>				Phone #:															
Sampler Name: <u>Steve Diller</u>				Fax #:															

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
							GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
		<u>H245218</u>																
		<u>1</u>	<u>FS-1</u>	<u>3'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>Y</u>			<u>8-26-24</u>	<u>0945</u>	
		<u>2</u>	<u>FS-2</u>	<u>3'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>8-26-24</u>	<u>0958</u>	
		<u>3</u>	<u>FS-12</u>	<u>3'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>8-26-24</u>	<u>1018</u>	
		<u>4</u>	<u>FS-18</u>	<u>3'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>8-26-24</u>	<u>1036</u>	
<u>NOTE</u> <u>8-26-24</u>																		

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Relinquished By: <u>[Signature]</u>		Date: <u>8-27-24</u>	Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1400</u>				All Results are emailed. Please provide Email address:		
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:				
Delivered By: (Circle One)		Observed Temp. °C <u>2.12</u>	Sample Condition		CHECKED BY: (Initials) <u>AD</u>	Turnaround Time: <u>AD 8-27-24</u>
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>1.56</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No			Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
						Bacteria (only) Sample Condition
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
						Observed Temp. °C
						Corrected Temp. °C

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



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

September 27, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA VERDE 18 CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/23/24 15:34.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 03 4' (H245761-01)

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	09/25/2024	ND	2.04	102	2.00	2.56	
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82	
Total BTX	<0.300	0.300	09/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	09/25/2024	ND	432	108	400	16.0	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 04 4' (H245761-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	3600	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 05 4' (H245761-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	4560	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 06 4' (H245761-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	2000	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 07 4' (H245761-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 08 4' (H245761-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	448	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 09 4' (H245761-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 10 4' (H245761-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 11 4' (H245761-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10500	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 13 4' (H245761-10)

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	09/25/2024	ND	2.04	102	2.00	2.56		
Toluene*	<0.050	0.050	09/25/2024	ND	2.09	105	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.10	105	2.00	2.91		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.31	105	6.00	2.82		
Total BTX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 14 4' (H245761-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	1.83	91.7	2.00	1.87	
Toluene*	<0.050	0.050	09/25/2024	ND	1.92	96.0	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	1.96	98.0	2.00	2.55	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	5.88	98.0	6.00	2.62	
Total BTEX	<0.300	0.300	09/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 15 4' (H245761-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	1.83	91.7	2.00	1.87		
Toluene*	<0.050	0.050	09/25/2024	ND	1.92	96.0	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	1.96	98.0	2.00	2.55		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	5.88	98.0	6.00	2.62		
Total BTX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 16 4' (H245761-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	1.90	95.0	2.00	3.36		
Toluene*	<0.050	0.050	09/25/2024	ND	1.88	94.0	2.00	3.82		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	1.96	97.9	2.00	3.51		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	5.86	97.7	6.00	3.29		
Total BTEx	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5460	16.0	09/25/2024	ND	432	108	400	16.0		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 17 4' (H245761-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	1.90	95.0	2.00	3.36		
Toluene*	<0.050	0.050	09/25/2024	ND	1.88	94.0	2.00	3.82		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	1.96	97.9	2.00	3.51		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	5.86	97.7	6.00	3.29		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	09/25/2024	ND	416	104	400	7.41	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 01 0-4' (H245761-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	1.90	95.0	2.00	3.36	
Toluene*	<0.050	0.050	09/25/2024	ND	1.88	94.0	2.00	3.82	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	1.96	97.9	2.00	3.51	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	5.86	97.7	6.00	3.29	
Total BTEX	<0.300	0.300	09/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2024	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	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 08 0-4' (H245761-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	1.90	95.0	2.00	3.36		
Toluene*	<0.050	0.050	09/25/2024	ND	1.88	94.0	2.00	3.82		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	1.96	97.9	2.00	3.51		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	5.86	97.7	6.00	3.29		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2024	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	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 09 0-4' (H245761-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	1.90	95.0	2.00	3.36	
Toluene*	<0.050	0.050	09/25/2024	ND	1.88	94.0	2.00	3.82	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	1.96	97.9	2.00	3.51	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	5.86	97.7	6.00	3.29	
Total BTEX	<0.300	0.300	09/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/25/2024	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	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 10 0-4' (H245761-18)

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	09/25/2024	ND	1.90	95.0	2.00	3.36	
Toluene*	<0.050	0.050	09/25/2024	ND	1.88	94.0	2.00	3.82	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	1.96	97.9	2.00	3.51	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	5.86	97.7	6.00	3.29	
Total BTX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/25/2024	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	09/25/2024	ND	205	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	199	99.4	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST									
Project Manager: Beaux Jennings				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>BTEX 8021B</div> <div>TPH 8015M</div> <div>Chloride 4500</div> <div>Hold</div> </div>									
Address: 601 N. Marienfeld St. STE 400				Company: OXY USA													
City: Midland State: TX Zip: 79701				Attn: Wade Ditttrich													
Phone #: (210)219-8858 Email: bjennings@ensolum.com				Address:													
Project #: 03B1417167 Project Owner:				City:													
Project Name: Mesa Verde 18 CTIS				State: Zip:													
Project Location:				Phone #:													
Sampler Name: Kaoru Shimada				Email:													
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME								
					GROUNDWATER												
					WASTEWATER												
					SOIL												
					OIL												
					SLUDGE												
					OTHER:												
					ACID/BASE:												
					ICE / COOL												
					OTHER:												
1	F303	4	C	1						4-23-24	1041	X	X	X			
2	F304	1	C	1						1	929	X	X	X			
3	F305										1042						
4	F306										928						
5	F307										1045						
6	F308										1049						
7	F309										1000						
8	F310										1113						
9	F311										1110						
10	F312	4	C	1						4-23-24	1116	X	X	X			

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All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.

In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date:	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Kaoru Shimada	4-23-24	AD	All Results are emailed. Please provide Email address:	
Time:	1531		bjennings@ensolum.com, klowery@ensolum.com	
Relinquished By:	Date:	Received By:	REMARKS: Paykey/AFE/NonAFE:	
Time:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials)	Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition: Rush <input type="checkbox"/> Cool Intact Observed Temp. °C Thermometer ID #447 Correction Factor -0.5°C AD
	33°C 2.7°C		AD	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																																																																																																																																																																
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Sampler Name: Kaoru Shimada				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> </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>11</td> <td>FS14</td> <td>4</td> <td>C</td> <td>1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>9-23-24</td> <td>1112</td> </tr> <tr> <td>12</td> <td>FS15</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1137</td> </tr> <tr> <td>13</td> <td>FS16</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1139</td> </tr> <tr> <td>14</td> <td>FS17</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1139</td> </tr> <tr> <td>15</td> <td>SW01</td> <td>0-4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1215</td> </tr> <tr> <td>16</td> <td>SW08</td> <td>0-4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1225</td> </tr> <tr> <td>17</td> <td>SW09</td> <td>0-4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1000</td> </tr> <tr> <td>18</td> <td>SW10</td> <td>0-4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0509</td> </tr> <tr> <td colspan="5">80-9-23-24 NFE</td> <td>814</td> <td colspan="3">9-23-2024</td> <td colspan="4">NFE</td> </tr> </tbody> </table>												Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	11	FS14	4	C	1			X				X		9-23-24	1112	12	FS15	4												1137	13	FS16	4												1139	14	FS17	4												1139	15	SW01	0-4												1215	16	SW08	0-4												1225	17	SW09	0-4												1000	18	SW10	0-4												0509	80-9-23-24 NFE					814	9-23-2024			NFE			
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Relinquished By:				Date:		Received By:		All Results are emailed. Please provide Email address: bjennings@ensolum.com, klowery@ensolum.com				REMARKS: Paykey/AFE/NonAFE:																																																																																																																																																												
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C Corrected Temp. °C 33.2 0.72		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) AD		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																																																														
								Thermometer ID #113 #140 Correction Factor -0.5°C -0.6°C		<input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C																																																																																																																																																														

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

September 30, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA VERDE 18 CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/24/24 14:55.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 19 4' (H245801-01)

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	09/27/2024	ND	2.03	101	2.00	6.52	
Toluene*	<0.050	0.050	09/27/2024	ND	2.17	108	2.00	5.96	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.24	112	2.00	6.17	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.93	115	6.00	5.41	
Total BTX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	09/27/2024	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	200	99.8	200	0.396	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	179	89.6	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 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: 09/24/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 20 4' (H245801-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/27/2024	ND	2.03	101	2.00	6.52		
Toluene*	<0.050	0.050	09/27/2024	ND	2.17	108	2.00	5.96		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.24	112	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.93	115	6.00	5.41		
Total BTEX	<0.300	0.300	09/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	09/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	200	99.8	200	0.396	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	179	89.6	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 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: 09/24/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 21 4' (H245801-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/27/2024	ND	2.03	101	2.00	6.52		
Toluene*	<0.050	0.050	09/27/2024	ND	2.17	108	2.00	5.96		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.24	112	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.93	115	6.00	5.41		
Total BTEX	<0.300	0.300	09/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	09/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	200	99.8	200	0.396	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	179	89.6	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 02 0-4' (H245801-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/27/2024	ND	2.03	101	2.00	6.52		
Toluene*	<0.050	0.050	09/27/2024	ND	2.17	108	2.00	5.96		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.24	112	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.93	115	6.00	5.41		
Total BTEX	<0.300	0.300	09/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	200	99.8	200	0.396	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	179	89.6	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 03 0-4' (H245801-05)

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	09/27/2024	ND	2.03	101	2.00	6.52		
Toluene*	<0.050	0.050	09/27/2024	ND	2.17	108	2.00	5.96		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.24	112	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.93	115	6.00	5.41		
Total BTX	<0.300	0.300	09/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/27/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	200	99.8	200	0.396	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	179	89.6	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. 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 Project Manager: Beaux Jennings Address: 601 N. Marienfeld St. STE 400 City: Midland State: TX Zip: 79701 Phone #: (210)219-8858 Email:bjennings@ensolum.com Project #: 0381417167 Project Owner: Project Name: Mesa Verde 28 CTD Project Location: Sampler Name: Kaoru Shimada				BILL TO				ANALYSIS REQUEST											
				P.O. #: Company: OXY USA Attn: Wade Dittrich Address: City: State: Zip: Phone #: Email:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 8021B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 4500</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Hold</div> </div>											
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(GIRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING								
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL						OTHER:	DATE
1245821	FS19	4	1	1			X					X		9-24-24	955	X	X	X	
2	FS20	4	1	1			1					1		1030		1	1	1	
3	FC21	4	1	1			1					1		1116		1	1	1	
4	SW02	0-4	1	1			1					1		1117		1	1	1	
5	SL03	0-4	1	1			X					X		9-24-24	1256	X	X	X	
<div style="font-size: 2em; font-family: cursive;">N F S K 9-24-24</div>																			
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Relinquished By: Kaoru Shimada Date: 9-24-24 Time: 1:55				Received By: [Signature] Date: [Blank] Time: [Blank]				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No All Results are emailed. Please provide Email address: bjennings@ensolum.com, klowery@ensolum.com REMARKS: Paykey/AFE/NonAFE:											
Relinquished By: [Blank] Date: [Blank] Time: [Blank]				Received By: [Blank] Date: [Blank] Time: [Blank]				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteriology Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C Thermometer ID #113 #140 Correction Factor -0.5°C -0.0°C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C											
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C 5.5°C Corrected Temp. °C 4.9°C				Sample Condition Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: [Signature] (Initials)							

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



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

September 30, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA VERDE 18 CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/25/24 13:13.

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: 09/25/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 22 4 (H245820-01)

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	09/27/2024	ND	1.85	92.3	2.00	3.80		
Toluene*	<0.050	0.050	09/27/2024	ND	1.94	96.8	2.00	2.55		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.91	98.5	6.00	1.70		
Total BTX	<0.300	0.300	09/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	09/26/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	211	105	200	5.34	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	211	105	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/25/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 23 4 (H245820-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.80		
Toluene*	<0.050	0.050	09/27/2024	ND	1.94	96.8	2.00	2.55		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.91	98.5	6.00	1.70		
Total BTEX	<0.300	0.300	09/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/26/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	211	105	200	5.34	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	211	105	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 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: 09/25/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 04 0-4 (H245820-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.80	
Toluene*	<0.050	0.050	09/27/2024	ND	1.94	96.8	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.91	98.5	6.00	1.70	
Total BTEX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/26/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	211	105	200	5.34	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	211	105	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 09/25/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 05 0-4 (H245820-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.80	
Toluene*	<0.050	0.050	09/27/2024	ND	1.94	96.8	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.91	98.5	6.00	1.70	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	304	16.0	09/26/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	211	105	200	5.34	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	211	105	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 09/25/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 06 0-4 (H245820-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.80	
Toluene*	0.061	0.050	09/27/2024	ND	1.94	96.8	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.91	98.5	6.00	1.70	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	272	16.0	09/26/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	211	105	200	5.34	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	211	105	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 09/25/2024
 Reported: 09/30/2024
 Project Name: MESA VERDE 18 CTB
 Project Number: 03B1417167
 Project Location: OXY 32.220935,-103.699223

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 07 0-4 (H245820-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.80	
Toluene*	<0.050	0.050	09/27/2024	ND	1.94	96.8	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.91	98.5	6.00	1.70	
Total BTEX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	211	105	200	5.34	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	211	105	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Beaux Jennings				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX 8021B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 4500</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Hold</div> </div>											
Address: 601 N. Marinfeld St. STE 400				Company: OXY USA															
City: Midland State: TX Zip: 79701				Attn: Wade Dittich															
Phone #: (210)219-8858 Email: bjennings@ensolum.com				Address:															
Project #: 038417167 Project Owner:				City:															
Project Name: Mesa Verde 18 CTIS				State: Zip:															
Project Location:				Phone #:															
Sampler Name: Kaoru Shimada				Email:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME										
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL	OTHER:							
1	F322	8	C	1									9-25-24	1040	X	X	X		
2	F323	8	C	1										1138					
3	JW04	0-4	C	1										1053					
4	JW05	0-4	C	1										436					
5	JW06	0-4	C	1										1032					
6	JW07	0-4	C	1									9-25-24	935	X	X	X		
N E E O K 9-25-24																			

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Relinquished By:	Date: 9-25-24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 1:31		All Results are emailed. Please provide Email address: bjennings@ensolum.com, klowery@ensolum.com	
Relinquished By:	Date:	Received By:	REMARKS: Paykey/AFE/NonAFE:	
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 5.0	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) MP	Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition
	Corrected Temp. °C: 5.0			Rush <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C: 5.0
				Thermometer ID: #113 #140 Correction Factor: +0.5°C C-0.0°C
				<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C:

FORM-006 R 3.2 10/07/21

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 415646

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415646
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409552342
Incident Name	NAPP2409552342 MESA VERDE 18 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2127051238] MESA VERDE EAST CGL COMP STATION

Location of Release Source*Please answer all the questions in this group.*

Site Name	MESA VERDE 18 CTB
Date Release Discovered	04/03/2024
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 20 BBL Recovered: 15 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 415646

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415646
	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>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<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: 12/30/2024
--	---

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 415646

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415646
	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 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	10500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	08/26/2024
On what date will (or did) the final sampling or liner inspection occur	09/25/2024
On what date will (or was) the remediation complete(d)	09/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	4487
What is the estimated volume (in cubic yards) that will be reclaimed	652
What is the estimated surface area (in square feet) that will be remediated	4487
What is the estimated volume (in cubic yards) that will be remediated	652

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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Oil Conservation Division
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QUESTIONS, Page 4

Action 415646

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415646
	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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/30/2024
<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 415646

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415646
	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 415646

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415646
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	402443
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/14/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	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	4487
What was the total volume (cubic yards) remediated	652
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	4487
What was the total volume (in cubic yards) reclaimed	652
Summarize any additional remediation activities not included by answers (above)	NA

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/30/2024
--	--

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QUESTIONS, Page 7

Action 415646

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415646
	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 415646

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415646
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	3/20/2025

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QUESTIONS

Action 529504

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409552342
Incident Name	NAPP2409552342 MESA VERDE 18 CTB @ FAPP2127051238
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2127051238] MESA VERDE EAST CGL COMP STATION

Location of Release Source*Please answer all the questions in this group.*

Site Name	MESA VERDE 18 CTB
Date Release Discovered	04/03/2024
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 20 BBL Recovered: 15 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 529504

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<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: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 11/24/2025
--	--

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QUESTIONS, Page 3

Action 529504

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	10500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/26/2024
On what date will (or did) the final sampling or liner inspection occur	09/25/2024
On what date will (or was) the remediation complete(d)	09/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	4487
What is the estimated volume (in cubic yards) that will be reclaimed	652
What is the estimated surface area (in square feet) that will be remediated	4487
What is the estimated volume (in cubic yards) that will be remediated	652
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 529504

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	fEEM0112342028 LEA LAND LANDFILL
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 11/24/2025
<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 529504

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 529504

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	402443
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/14/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	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	4487
What was the total volume (cubic yards) remediated	652
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	4487
What was the total volume (in cubic yards) reclaimed	652
Summarize any additional remediation activities not included by answers (above)	NA

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 11/24/2025
--	---

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Action 529504

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	4487
What was the total volume of replacement material (in cubic yards) for this site	652
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	07/29/2025
Summarize any additional reclamation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 11/24/2025

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

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

QUESTIONS, Page 8

Action 529504

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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

General Information
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CONDITIONS

Action 529504

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 529504
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	Reclamation report approved. Pending re-vegetation report.	2/3/2026